與時俱進 先端製造

KEEP UP WITH THE TIMES & PROACTIVE ADVANCED MANUFACTURING

鑽孔系列
Drilling series

倒角系列
Chamfering series

面銑刀系列
Face Milling Series

攻牙系列
Tapping Series

VDI固定刀座系列
VDI Precision tool holder series

側銑系列
Side Milling Series

精密刀桿-PSC主軸
PSC Precision Tool Holder

PSC主軸-搪頭系列
PSC-Boring Series

2011-2013

TSD快速鑽頭
TSD High Speed Drill

SSP倒角刀 PAT.
SSP Indexable Chamfer Milling Cutter

側銑刀系列
Side Milling Series

VDI固定刀座
VDI Precision tool holder series

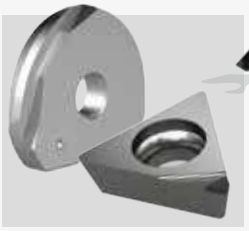
2014-2016

可調式面銑系列
Adjustable Face Milling Series

TAIWAN EXCELLENCE DESIGN AWARD

攻牙系列
Tapping Series

PSC主軸
PSC Precision Tool Holder



刀片系列
Inserts Series

DP減震系列
DP Anti-Vibration Series

車銑複合系列
Turn-Mill Series

角度頭系列
Angle Head Series

2017-2019

DP減震系列-車/搪
DP Anti-Vibration Series-Turning/Boring

車銑複合系列
Turn-Mill Series

角度頭系列
Angle Head Series

刀片系列
Inserts Series

倒角系列
Adjustable Chamfering Series

倒角系列
Special Chamfering Series

負角面銑系列
Negative Angle Face Milling Series

自動化周邊工具系列
Accessories For Automatic Machines

量測 / 燒結系列
Measuring/Shrinking-Fit Series

2020-2021

倒角系列
Chamfering Series

自動化管理
Accessories For Automatic Machines

設備系列
Measuring/Shrinking-Fit Series

負角刀系列
Negative Angle Face Milling Series

銑削刀片規格介紹
DESIGNATION OF MILLING INSERTS

KOVIT

記號 Symbol	孔 Hole	孔的形狀 Hole Configuration	斷屑槽 Chip Breaker	形狀 Shape
N	無孔 Without Hole	—	無 NO	
R			單面 One side	
F			兩面 Double side	
W	有孔 With Hole	有孔 With Hole 40°~60°	無 NO	
T			單面 One side	
Q		有孔 With Hole 40°~60°	無 NO	
U			兩面 Double side	
B		有孔 With Hole 70°~90°	無 NO	
H			單面 One side	
C		有孔 With Hole 70°~90°	無 NO	
J			兩面 Double side	
X	—	—	—	—

④ 斷屑槽.螺絲孔記號
Chip Breaker · Hole Symbol

形狀 Shape	切刃長(ℓ) Cutting Edge Length
S	ℓ
T	ℓ
R	ℓ
H	ℓ
A	ℓ

⑤ 切刃長記號
Cutting Edge Length

記號 Symbol	厚度 (mm) Thickness
02	2.38
03	3.18
T3	3.97
04	4.76
06	6.35

⑥ 厚度記號
Insert Thickness

	①	②	③	④	⑤
(ISO)	S	E	E	N	12
(ANSI)	S	D	K	N	4

① 形狀記號
Insert Shape

記號 Symbol	形狀 Shape	刀尖角 Degree	圖形 Shape
H	正六角形 Hexagonal	120°	
S	正方形 Square	90°	
T	正三角形 Triangular	60°	
C	菱形 Rhombic	80°	
E		75°	
G		70°	
L	長方形 Rectangular	90°	
A	平行四邊形 Parallelogram	85°	
R	圓形 Round	—	
W	六角形 Trigon	80°	
	修光刃刀片 Wiper insert	—	
X	特殊形狀 Special Design	其他 Other	
Y	特殊形狀 Special Design	35°	
Z	特殊形狀 Special Design		

② 離隙角記號
Insert Shape

記號 Symbol	離隙角 Relief Angle
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°
O	其他 Other
X	其他 Other
S	其他 Other

③ 精度等級記號 (mm)
Tolerance Class

記號 Symbol	刀尖位置容許公差 Tolerance of Nose Height	厚度容許公差 Tolerance of Thickness	內接圓直徑容許公差 Tolerance of Inscribed Circle
A	± 0.005	± 0.025	± 0.025
C	± 0.013	± 0.025	± 0.025
E	± 0.025	± 0.025	± 0.025
G	± 0.025	± 0.13	± 0.025
H	± 0.013	± 0.025	± 0.013
K	± 0.013	± 0.025	± 0.05 ~ ± 0.13
M	± 0.08 ~ ± 0.18	± 0.13	± 0.05 ~ ± 0.13
N	± 0.08 ~ ± 0.18	± 0.025	± 0.05 ~ ± 0.13

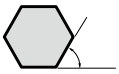
基準內接圓 Detail of M Class Insert Tolerance	內接圓直徑(ϕd)容許公差 Tolerance of Inscribed Circle		刀尖高(mm)容許公差 Tolerance of Nose Height	
	J.K.L.M.N(級Class)	U(級Class)	M.N(級Class)	U(級Class)
6.35	± 0.05	± 0.08	± 0.08	± 0.13
9.525				
12.7	± 0.08	± 0.13	± 0.13	± 0.2
15.875	± 0.1	± 0.18	± 0.15	± 0.27
19.05				
25.4	± 0.13	± 0.25	± 0.18	± 0.38

• 長度單位 Unit of Length (mm)

銑削刀片規格介紹
DESIGNATION OF MILLING INSERTS

KOVIT

記號 Symbol	切削角 Cutting Angle
A	45°
D	60°
E	75°
F	85°
H	87°
P	90°
Z	特殊 Special



⑦ 切削角記號 Cutting Angle

記號 Symbol	離隙角 Relief Angle
A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°
Z	特殊 Special

⑧ 離隙角記號 Relief Angle

記號 Symbol	切削刃狀態 Cutting Edge	形狀 Shape
F	大銳角削角 Sharp Cutting Edges	
E	圓切削角 Round Cutting Edges	
T	雙切削導角 Chamfered Cutting Edges	
S	倒角及圓切削角 Chamfered and Rounded Cutting Edges	
P	雙倒角及圓切削角 Double Chamfered and Rounded Cutting Edges	

⑨ 刃邊處理 Cutting Edge Condition

記號 Symbol	方向 Direction
R	右 Right
L	左 Left
N	中間 Neutral

⑩ 切削方向 Cutting Direction

記號 Symbol	斷屑槽等級 Chip Breaker
R01	粗切削 Roughing
M01	中切削 Semi-finishing
F01	精切削 Finishing

⑪ 特別記號 Special Symbol

⑥	⑦	⑧	⑨	⑩	⑪
03	A	G	T	N	- M01
2	Z	T	N	12	

④ 斷屑槽.螺絲孔記號 Chip Breaker · Hole Symbol

記號 Symbol	斷屑槽狀況 Chip Breaker	孔 Hole
A	無 NO	有孔 With Hole
F	雙面 Double side	無孔 Without Hole
G	雙面 Double side	有孔 With Hole
M	單面 One side	有孔 With Hole
N	無 NO	無孔 Without Hole
W	無 NO	無孔 Without Hole

⑤ 內接圓記號 Inscribed Circle

記號 Symbol		內接圓直徑(mm) Inscribed Circle
英制 Imperial units	3	9.525
	4	12.7
	5	15.875
	6	19.05

⑥ 厚度記號 Insert Thickness

記號 Symbol		厚度(mm) Thickness
英制 Imperial units	2	3.18
	3	4.76
	4	6.35
	6	9.52

⑦ 刀尖代號 Degree

記號 Symbol	刀尖圓弧半徑(mm) Corner Radius
1	0.4 (0.397)
2	0.8 (0.794)
3	1.2 (1.191)
4	1.6 (1.588)
5	2.0 (1.984)
6	2.4 (2.381)

• 長度單位 Unit of Length (mm)

車削刀片規格介紹
DESIGNATION OF TURNING INSERTS

KOVIT

記號 Symbol	形狀 Shape	頂角 Vertical angles	圖形 Shape
H	正六角形 Hexagonal	120°	
O	正八角形 Octagonal	135°	
P	正五角形 Pentagonal	108°	
S	正方形 Square	90°	
T	正三角形 Triangular	60°	
C	菱形 Rhombic	80°	
D		55°	
E		75°	
F		50°	
M		86°	
V		35°	
Y	多角形 Rhombic	25°	
W	六角形 Trigon	80°	
L	長方形 Rectangular	90°	
A	菱形 Rhombic	85°	
B		82°	
K		55°	
R	圓形 Round	-	

① 形狀記號 Insert Shape

記號 Symbol	離隙角 Relief Angle
A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°
O	其他 Other

② 離隙角記號 Relief Angle

記號 (級) Symbol	容許公差 (mm) Tolerance 高度 (mm) Height	厚度 (mm) Thickness	內接圓直徑 (Ød) Inscribed Circle
A	±0.005	±0.025	±0.025
F	±0.005	±0.025	±0.13
C	±0.013	±0.025	±0.025
H	±0.013	±0.025	±0.13
E	±0.025	±0.025	±0.025
G	±0.025	±0.13	±0.025
J	±0.005	±0.025	±0.005~±0.13
K	±0.013	±0.025	±0.005~±0.13
L	±0.025	±0.025	±0.005~±0.13
M	±0.08~±0.18	±0.13	±0.005~±0.13
N	±0.08~±0.18	±0.025	±0.005~±0.13
U	±0.13~±0.38	±0.13	±0.008~±0.25

③ 精度等級記號 Tolerance Class

T	N	M	G	16
①	②	③	④	⑤

④ 螺絲孔記號 Hole Symbol

記號 Symbol	孔 Hole	孔的形狀 Hole Configuration	斷屑槽 Chip Breaker	形狀 Shape
N	無孔 Without Hole	-	無 NO	
R			單面 One side	
F			兩面 Double side	
A	有孔 With Hole	有孔 With Hole	無 NO	
M			單面 One side	
G			兩面 Double side	
W		有孔 With Hole 40° ~60°	無 NO	
T			單面 One side	
Q		有孔 With Hole 40° ~60°	無 NO	
U			兩面 Double side	
B		有孔 With Hole 70° ~90°	無 NO	
H			單面 One side	
C		有孔 With Hole 70° ~90°	無 NO	
J			兩面 Double side	
X	-	-	-	-

⑤ 長度記號 Cutting Edge Length

*R		S		C		W		T		D		V		K		內接圓直徑
記號 Symbol	寸法 Size	記號 Symbol	寸法 Size	記號 Symbol	寸法 Size	記號 Symbol	寸法 Size	記號 Symbol	寸法 Size	記號 Symbol	寸法 Size	記號 Symbol	寸法 Size	記號 Symbol	寸法 Size	Inscribed Circle
		03	3.97	03	4.0			06	6.9	04	4.8					3.97
		04	4.76	04	4.8			08	8.2	05	5.8					4.67
*05	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
		05	5.56	05	5.6	03	3.8	09	9.6	06	6.8					5.56
*06	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
		06	6.35	06	6.5	04	4.3	11	11	07	7.8	11	11.2			6.35
		07	7.94	08	8.1	05	5.4	13	13.8	09	9.7					7.94
*08	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
09	9.525	09	9.525	09	9.7	06	6.5	16	16.5	11	11.6	16	16.6	16	19.7	9.525
*10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
*12	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
12	12.7	12	12.7	12	12.9	08	8.7	22	22	15	15.5	22	22.1			12.7
15	15.875	15	15.875	16	16.1	10	10.9	27	27.5	19	19.4					15.875
*16	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
19	19.05	19	19.05	19	19.3	13	13	33	33	23	23.3					19.05
*20	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
		22	22.225	22	22.6			38	38.5	27	27.1					22.225
*25	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25
25	25.4	25	25.4	25	25.8			44	44	31	31					25.4
31	31.75	31	31.75	32	32.2			55	55	38	38.8					31.75
*32	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32

• 長度單位 Unit of Length (mm)

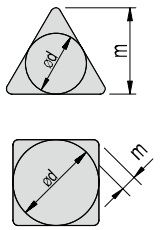
車削刀片規格介紹
DESIGNATION OF TURNING INSERTS

KOVIT

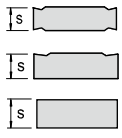
基準內接圓 Detail of M Class Insert Tolerance	內接圓直徑 (Ød) 容許公差 Tolerance of Inscribed Circle J.K.L.M.N(級 Class)	U(級 Class)	高度 (m) 容許公差 Tolerance of Height J.K.L.M.N(級 Class)	U(級 Class)	適用形狀 Shape
6.35	±0.05	±0.08	±0.08	±0.13	H W O R P S T C、E、M
9.525					
12.7	±0.08	±0.13	±0.13	±0.2	
15.875	±0.1	±0.18	±0.15	±0.27	
19.05					
25.4	±0.13	±0.25	±0.18	±0.38	
31.75	±0.15	±0.25	±0.2	±0.38	
32					

基準內接圓 Detail of M Class Insert Tolerance	內接圓直徑 (Ød) 容許公差 Tolerance of Inscribed Circle	高度 (m) 容許公差 Tolerance of Height	適用形狀 Shape
6.35	±0.05	±0.11	D
9.525			
12.7	±0.08	±0.15	
15.875	±0.1	±0.18	
19.05			
6.35	±0.05	±0.16	V Y
9.525			

內接圓直徑 (Ød) 高度 Inscribed Circle Height



記號 Symbol	厚度 (mm) Thickness
01	1.59
02	2.38
T2	2.78
03	3.18
T3	3.97
04	4.76
05	5.56
06	6.35
07	7.94
09	9.52

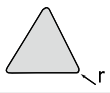


⑥ 厚度記號 Insert Thickness

04 08 T N - M01

⑥ ⑦ ⑧ ⑨ ⑩

⑦ r 角記號 Corner (radius)



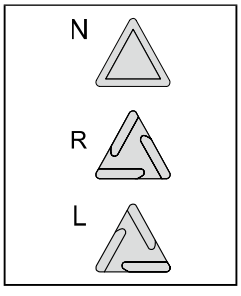
記號 Symbol	刀尖圓弧半徑 Corner Radius
00	0.03
02	0.2
04	0.4
08	0.8
12	1.2
16	1.6
20	2.0
24	2.4
38	2.8
32	3.2

⑧ 刃邊處理 Corner (radius)

記號 Symbol	切削刃的狀態 Cutting Edge	形狀 Shape
F	大銳角削角 Sharp Cutting Edges	
E	圓切削角 Round Cutting Edges	
W.T	雙切削倒角 Chamfered Cutting Edges	
S	雙倒角及圓切削角 Double Chamfered and Rounded Cutting Edges	

⑨ 切削方向 Cutting Direction

記號 Symbol	方向 Direction
R	右 Right
L	左 Left
N	中間 Neutral



⑩ 特別記號 Special Symbol

記號 Symbol	方向 Direction
R01	粗切削 Roughing
M01	中切削 Semi-finishing
F01	精切削 Finishing

• 長度單位 Unit of Length (mm)

切削範圍對照表
CUTTING RANGE

KOVIT

ISO 分類	Material 加工材質	Material Strength 工件抗拉強度	Uncoated				TiCN				AlCrN	AlCrN + TiAlN	TiAlN	AlCrN
			TSK10	TSP20	TSP25	RM1205	OM1115	OM2115	RM315	RM425	OM2040	OM4010	OM4025	OM4030 RM4030
		外觀顏色 Surface color	銀色 Silver				金黃色 Golden yellow		鐵灰色 Iron gray		藍、紫色 Blue、Purple	鐵灰色 Iron gray	藍、紫色 Blue、Purple	棕色 Brown
P	Unalloyed Steels 非鐵合金鋼類	P10 P20 P30 P40 P50												
	Alloyed Steels 合金鋼類													
M	Stainless Steels 不鏽鋼類	M10 M20 M30 M40												
K	Cast Iron 鑄類	K01 K10 K20 K30 K40												
N	Aluminium & Al 鋁及鋁合金	N10 N20 N30 N40												
S	Refractory Alloys 高溫合金	S10 S20 S30 S40												
H	Hard Material 高硬度材	H10 H20 H30 H40												

• 長度單位 Unit of Length (mm)

切削範圍對照表
CUTTING RANGE

KOVIT

ISO 分類	Material 加工材質	Material Strength 工件抗拉強度	TiAlN		TiN	DLC	Uncoated			
			RM4010 RM4110 RM4125	RM3130 RM4025 RM4130 RM4230	PTE30	OM5060 RM5060	RM5005	OM5005	GH1	GH05
		外觀顏色 Surface color	鐵灰色 Iron gray	藍、紫色、紅銅色 Blue、Purple Red Copper	金黃色 Golden yellow	彩色 Color	銀白色 silver			
P	Unalloyed Steels 非鐵合金鋼類 Alloyed Steels 合金鋼類	P10 P20 P30 P40 P50								
M	Stainless Steels 不鏽鋼類	M10 M20 M30 M40								
K	Cast Iron 鑄類	K01 K10 K20 K30 K40								
N	Aluminium & Al 鋁及鋁合金	N10 N20 N30 N40								
S	Refractory Alloys 高溫合金	S10 S20 S30 S40								
H	Hard Material 高硬度材	H10 H20 H30 H40								

• 長度單位 Unit of Length (mm)

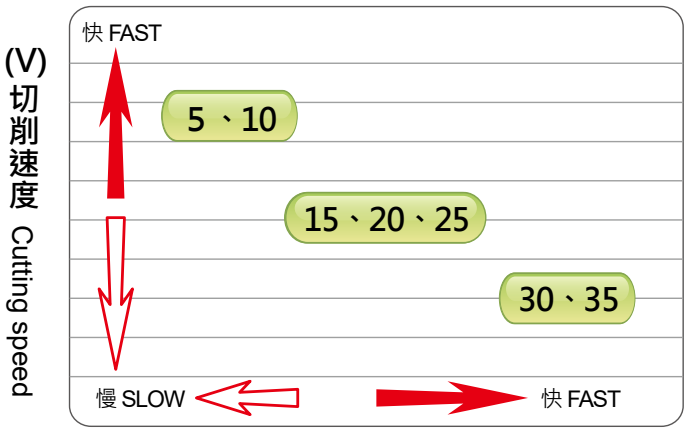
精密刀片斷屑槽列表
PRECISION INSERT CHIPBREAKER

KOVIT

精切削	精切削	精切削	中切削	中切削
F01	**FR**	**-701**	**M01**	**HM**
Finishing	Finishing	Finishing	Semi-Finishing	Semi-Finishing

中切削	中切削	中切削	中切削	粗切削
AR	**MT**	**GM2**	**GS2**	**R01**
Semi-Finishing	Semi-Finishing	Semi-Finishing	Semi-Finishing	Roughing

材質與速度關係圖 Cutting Relative chart

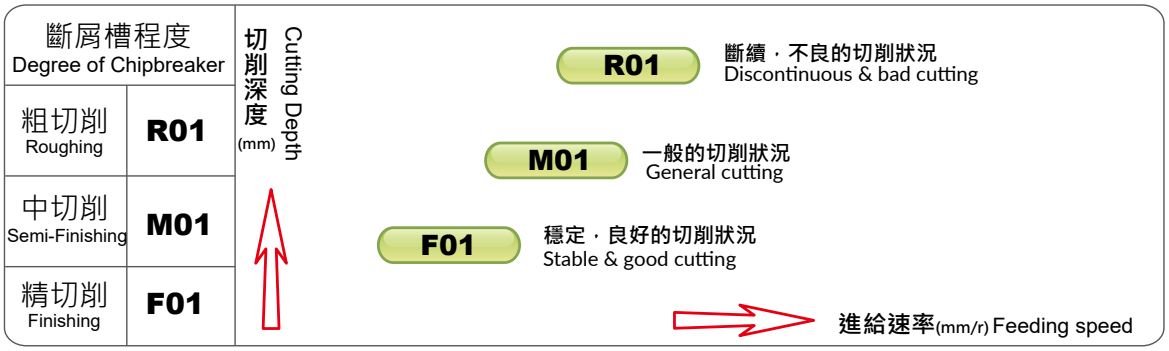


(F) 進給速度 Feeding speed

⚠ 請注意! Caution!

依加工速度決定合適的切削進給量，避免超速過載！
Caution: Cutting speed depends on suitable feeding speed to avoid overloaded cutting!

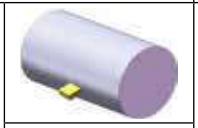
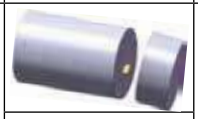
斷屑槽示意表 Chip breaker Cutting Table



• 長度單位 Unit of Length (mm)

切削範圍對照表
CUTTING RANGE

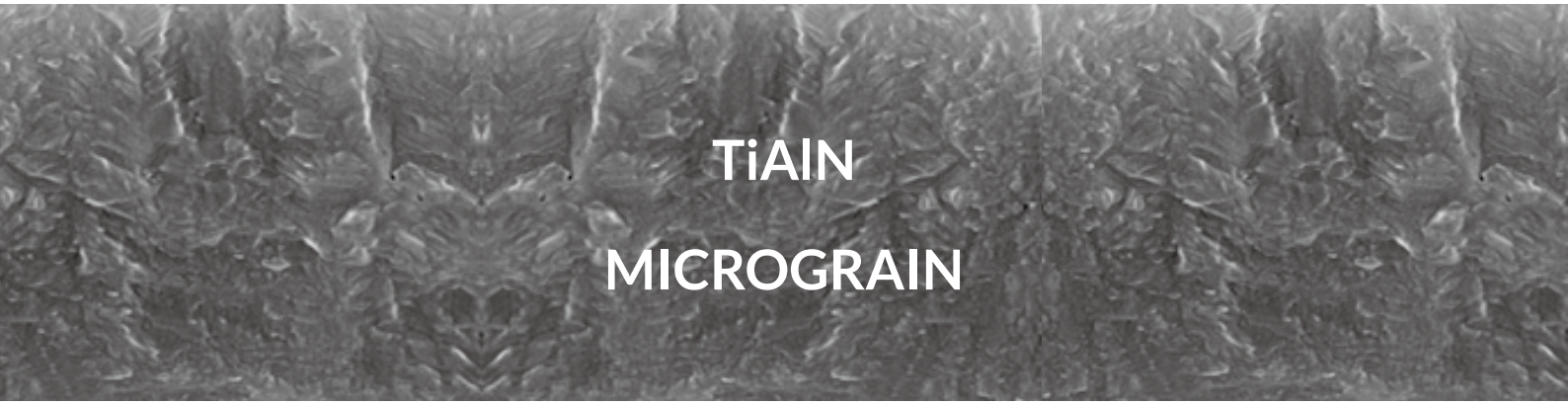
KOVIT

類別 Class		材質特性 Characteristics of Materials	P Unalloyed Steels 非合金鋼類	P Alloyed Steels 合金鋼類	M Stainless Steels 不鏽鋼類	K Cast Iron 鑄鐵類	N Aluminium & Al 鋁及鋁合金	S Refractory Alloys 高溫合金	H Hard Material 高硬度材質
外徑 Outer Diameter	 Turning	耐磨韌性 Abrasion Resistance Toughness ⇕ 韌性 Toughness / Ductility	RM4010 RM425 RM325	RM4010 RM425 RM325	RM4010 RM425 RM325 RM115	RM4010 RM315	PCD GH05	RM4010	CBN250 CBN300 CBN500
內徑 Inner Diameter	Boring	耐磨韌性 Abrasion Resistance Toughness ⇕ 韌性 Toughness / Ductility	RM1205 RM4010 RM4030 RM425	RM1205 RM4010 RM4030 RM425 RM4035	RM1205 RM4010 RM4030 RM425	RM1205 RM4010 RM4030 RM315	PCD GH05 RM5005	RM4015 RM4010	CBN250 CBN300 CBN500
車牙 Turning Thread	Threading	耐磨韌性 Abrasion Resistance Toughness ⇕ 韌性 Toughness / Ductility	RM325	RM325	RM325	-	-	-	-
切斷 Cutting Off	 Parting-off	耐磨韌性 Abrasion Resistance Toughness ⇕ 韌性 Toughness / Ductility	RM4010 OM4010 OM4025 RM4025	RM4010 OM4010 OM4025 RM4025	OM4025 RM4025	OM4025 RM4025	OM5005	-	-
切槽 Cutting Groove	Grooving	耐磨韌性 Abrasion Resistance Toughness ⇕ 韌性 Toughness / Ductility	OM4025 RM4030 RM1205	OM4025 RM4030 RM1205	OM4025 RM4030 RM1205	OM4025	-	OM4025	OM4025
鑽孔 Drilling	Drilling	耐磨韌性 Abrasion Resistance Toughness ⇕ 韌性 Toughness / Ductility	RM3130 RM4025 PTE30	RM3130 RM4025 PTE30	RM3130 RM4025 PTE30	RM3130 RM4025 PTE30	RM5005 RM5060	-	-
銑削 Milling	Milling	耐磨韌性 Abrasion Resistance Toughness ⇕ 韌性 Toughness / Ductility	OM4010 OM4025 RM1205 RM4010 RM4130 RM4030 PTE30	OM4010 OM4025 RM1205 RM4010 RM4130 RM4030 PTE30	OM4010 OM4025 RM4010 RM4130 RM4030 RM2040 RM535	RM3130	PCD OM5005 OM5060 RM5005 RM5060 GH1 GH05	RM535 RM5035	CBN250 CBN300 CBN500 OM4010 RM4110

• 長度單位 Unit of Length (mm)

鍍層等級 -PVD
COATING GRADES-PVD

KOVIT



Physical Vapor Deposition: 物理氣相沉積

耐熱性優秀的 3~7μm 鍍層而形成的高質量、高性能的捨棄式刀片的主力材質，廣泛適用於鋼、鑄鐵、難切削的高速、高效率加工。

The main coating for supplemental inserts with high quality & performance is formed from the range of coating thickness from 3~7 μm with excellent heat resistance. It is widely used in high speed and high efficiency of difficult cutting for steel and cast iron.

被加工材質 Machining Materials		ISO 範圍 ISO Scope	材質 Grade	顏色 Color	硬度 (Hv) Hardness	承受溫度 (攝氏) Withstanding Temperature(°C)	主要成份 Composition	切削速度 Vc(m/min)	特點 Features
P	鋼 Alloyed Steels	K10~K20	OM4010	鐵灰色 Iron Grey	3300	>1100	AlCrN	150~300	在超微粒底材表面鍍上耐溶著性、抗氧化性佳的鍍層，適合加工合金鋼，具有高穩定性及壽命長的特性。 Solvent resistance and anti-oxidation coated ultra-micro grain substrate featuring high stability and extended life when processing alloy steel.
		K10~K20	OM4025	藍紫色 Blue purple	3300	900	TiAlN	150~250	
		K10~K20	OM4035	金黃色 Golden yellow	3300	900	TiAlN+TiN	100~220	
		P15~P25	RM4010	藍紫色 Blue purple	3300	900	TiAlN	150~250	
		P15~P25	RM4130	紅銅色 Red copper	3300	1100	TiAlN+AlCrN	100~250	
		M15~M25	RM4030	紅銅色 Red copper	3300	1100	AlTiN	100~200	
		P15~P25	PTE30	金黃色 Golden yellow	3300	900	TiAlN+TiN	150~250	
M	不鏽鋼 Stainless Steels	P15~P25	RM4130	紅銅色 Red copper	3300	1100	TiAlN+AlCrN	100~250	在超微粒底材表面鍍上耐溶著性、抗氧化性佳的鍍層，適合加工合金鋼及不鏽鋼等難切削材之加工。 Solvent resistance and anti-oxidation coated ultra-micro grain substrate is suitable for processing difficult cutting materials, alloy steel and stainless steel.
		K10~K20	RM4230		1550	900	TiAlN	100~300	
		K10~K20	OM4010	鐵灰色 Iron Grey	3300	>1100	AlCrN	100~220	
S	高溫合金 Refractory Alloys	K10~K20	OM4010	鐵灰色 Iron Grey	3300	>1100	AlCrN	20~40	在超微粒底材表面鍍上耐溶著性、抗氧化性佳的鍍層，適合加工高溫合金，具有高穩定性及壽命長的特性。 Solvent resistance and anti-oxidation coated ultra-micro grain substrate featuring high stability and extended life when processing refractory alloys.
H	高硬度材質 Hard Material	K10~K20	OM4010	鐵灰色 Iron Grey	3300	>1100	AlCrN	50~100	在超微粒底材表面鍍上耐溶著性、抗氧化性佳的鍍層，適合加工高硬鋼材，具有高穩定性及壽命長的特性。 Solvent resistance and anti-oxidation coated ultra-micro grain substrate featuring high stability and extended life when processing dead-hard steel.

• 長度單位 Unit of Length (mm)

鍍層等級 -PVD
COATING GRADES-PVD

KOVIT

Physical Vapor Deposition: 物理氣相沉積

在 PVD 鍍層處理中，通過金屬蒸汽在刀片表面上冷凝而形成。PVD 的工作原理與濕空氣在冷路面上冷凝繼而在路面上形成冰霜的原理相同。PVD 的形成溫度比 CVD 更低。通常，PVD 的處理溫度為大約 500℃。

Physical vapor deposition (PVD) is a coating process in which thin films is deposited by the condensation of vaporized metal. The PVD working process is the same principle as when humid air condense frost on cold pavement. PVD process is carried out at lower temperature than CVD process, in which the PVD process temperature is approximately 500℃.

車削 Turning

被加工材質 Machining Materials		ISO 範圍 ISO Scope	精切削 Finishing	中切削 Semi-Finishing	重切削 Heavy Cutting
P	鋼 Alloyed Steels	K10~K20	OM4010		
		K10~K20	OM4025		
		P15~P25	RM4130/RM325		
		M15~M25	RM4010		
		P15~P25		RM4030	
M	不鏽鋼 Stainless Steels	K10~K20	PTE30		
		K10~K20	OM4010/RM325		
K	鑄鐵 Cast Iron	K15~K25	OM4025		
S	高溫合金 Refractory Alloys	K10~K20	OM4010		
H	高硬度材質 Hard Material	K10~K20	OM4010		

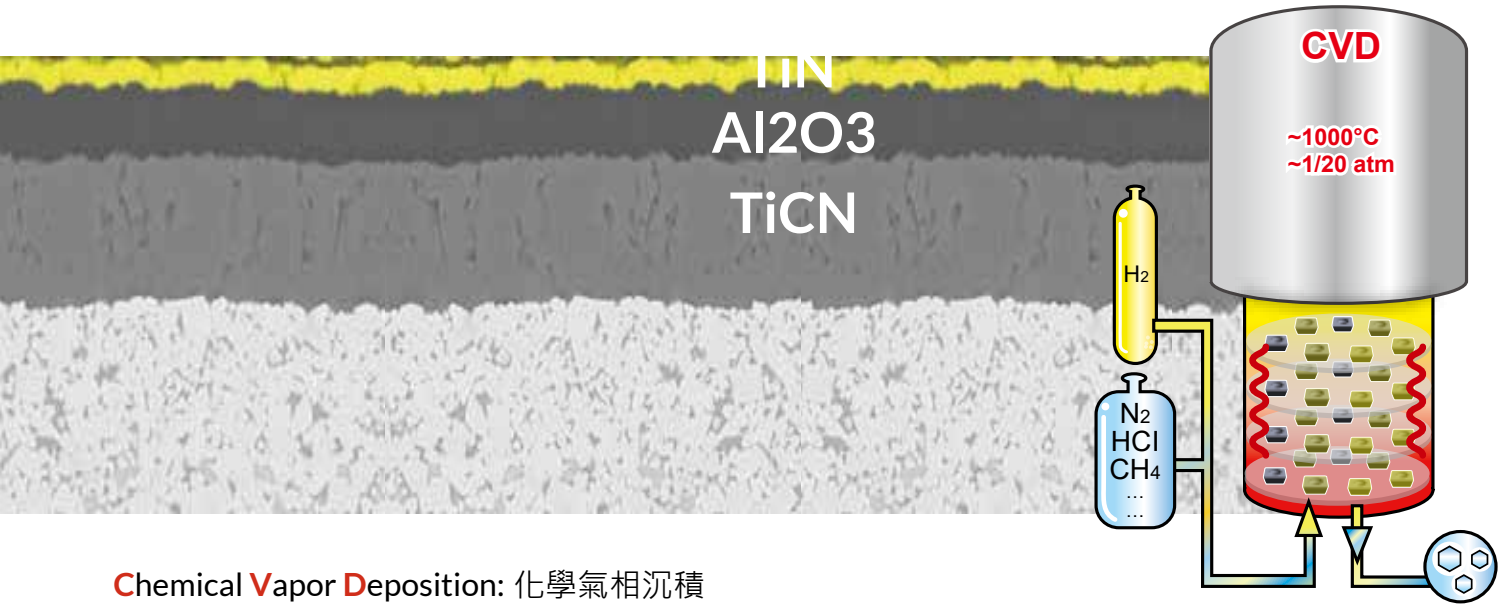
銑削 Milling

被加工材質 Machining Materials		ISO 範圍 ISO Scope	精切削 Finishing	中切削 Semi-Finishing	重切削 Heavy Cutting
P	鋼 Alloyed Steels	K10~K20	OM4010		
		K10~K20	OM4025		
		K10~K20	RM4130		
		P15~P25	RM4010		
		M15~M25		RM4030	
		P15~P25		PTE30	
M	不鏽鋼 Stainless Steels	K10~K20	OM4010		
		K10~K20	OM4025	RM2040	
K	鑄鐵 Cast Iron	K15~K25		OM4030/RM3130	
H	高硬度材質 Hard Material	K10~K20	OM4010/RM4110		

• 長度單位 Unit of Length (mm)

鍍層等級 -CVD
COATING GRADES-CVD

KOVIT



Chemical Vapor Deposition: 化學氣相沉積

鍍層具有優秀的耐磨損性、耐熱性、及鍍層膜黏著力優秀的多層鍍層膜而形成的高品質、高性能的捨棄式主力刀片材質，廣泛適用於鋼、鑄鐵，難削材的高速、高效率加工。

The coating features excellent abrasion, heat resistance and adhesion. Excellent CVD adhesion multi-layer coating results in high quality and good performance in main coating for indexable inserts, which is widely used in steel, cast iron, and high-speed and high-efficiency processing.

被加工材質 Machining Materials		ISO 範圍 ISO Scope	材質 Grade	顏色 Color	硬度 (Hv) Hardness	摩擦係數 Friction Coefficient	主要成份 Composition	切削速度 Cutting Speed Vc(m/min)	特點 Features
P	鋼 Alloyed Steels	P15~P35	RM115	金黃色 Golden yellow	2000	0.4	MT-Ti(CN)+Al_2O_3+TiN	60~320	採用特殊專用的底材，提高了耐磨性及耐崩損性。 Improved stability & wear resistance due to the adoption of special substrate.
		P25~P40	RM4035		1560	0.4	MT-Ti(CN)+Al_2O_3+TiN	150~200	適用於合金鋼及不鏽鋼類的粗、中加工。 Applicable for alloy steel and stainless steel in roughing & semi-finishing.
		P15~P25	RM425	鐵灰色 Iron Gray	2000	0.35	MT-Ti(CN)+Al_2O_3+TiN	170~460	刃口衝擊性和耐磨性增強，進而提高刃口的破損力。 Increased flute strength due to improved wear resistance.
M	不鏽鋼 Stainless Steels	P15~P35	RM115	金黃色 Golden yellow	2000	0.4	MT-Ti(CN)+Al_2O_3+TiN	50~210	採用特殊專用的底材，提高了耐磨性及耐崩損性。 Improved stability & wear resistance due to the adoption of special substrate.
		P15~P25	RM425	鐵灰色 Iron Gray	2000	0.35	MT-Ti(CN)+Al_2O_3+TiN	70~180	刃口衝擊性和耐磨性增強，進而提高刃口的破損力。 Increased flute strength due to improved wear resistance.
K	鑄鐵 Cast Iron	K10~K20	RM315	鐵灰色 Iron Gray	2000	0.3	MT-Ti(CN)+Al_2O_3	190~410	適用於鑄鐵輕切削加工，可承受輕微的重切削加工。 Suitable for light machining and reduce the insert wear during heavy cutting machining on cast iron.

車削 Turning

被加工材質 Machining Materials		ISO 範圍 ISO Scope	精切削 Fine Cutting	中切削 Medium Cutting	重切削 Heavy Cutting
P	鋼 Alloyed Steels	P15~P25		RM425 / RM4035	
M	不鏽鋼 Stainless Steels	P15~P25		RM425	RM315
K	鑄鐵 Cast Iron	K10~K20			

銑削 Milling

被加工材質 Machining Materials		ISO 範圍 ISO Scope	精切削 Fine Cutting	中切削 Medium Cutting	重切削 Heavy Cutting
P	鋼 Alloyed Steels	P15~P35		OM1115	
		P25~P40		OM2115 / RM4035	

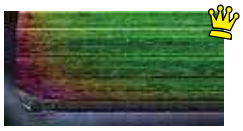
• 長度單位 Unit of Length (mm)

RC Coating

MICROGRAIN
(HF)K10,C3

Rainbow **C**oating: 彩虹鍍層

鍍層是一種碳元素構成、性質上和鑽石類似，同時又具有石墨原子組成結構的物質。具有高硬度、高彈性、耐磨損性以及良好的低磨擦係數特性，適合作為耐磨鍍層。適用於鋁、銅、塑膠及非鐵金屬材料加工。
A coating composed of carbon elements, similar to the feature of diamonds as well as carbon composed properties. It has higher rigidity, more flexibility, greater abrasion resistance, and a lower friction coefficient suitable for abrasion-resistant coating, which is widely used in aluminum, copper, plastic, and non-iron metal material processing.

材 質 Material	工件切削底面 Cutting Bottom of Workpiece	工件切削側面 Cutting Side of Workpiece	顯微鏡 x20 倍 Microscope	比較結果 Compared Result
OM5005- 未鍍層 OM5005-Uncoated				表面平坦度☆☆ Surface Flatness 抗沾黏 ☆☆☆ Anti-Adhesion
OM5060- 鍍層 OM5060-Coated				表面平坦度☆☆☆ Surface Flatness 抗沾黏 ☆☆☆☆ Anti-Adhesion win

被加工材質 Machining Materials		ISO 範圍 ISO Scope	材質 Grade	顏色 Color	硬度 (Hv)	摩擦系數 (Friction Coefficient)	最高使用溫度 (°C)	切削速度 Vc(m/min)	特點 Features
N	鋁及鋁合金 Aluminum & Al	K10~K20	OM5060	彩色 Color	2000~3000	0.1~0.15	300°~400°	500~800	低磨擦係數、耐磨損、抗沾黏、表面平滑。Low friction coefficient, abrasion resistance, anti-adhesion, and smooth surface.
		K10~K20	RM5060	彩色 Color	2000~3000	0.1~0.15	300°~400°	500~700	

車削 Turning

被加工材質 Machining Materials		ISO 範圍 ISO Scope	精切削 Fine Cutting	中切削 Medium Cutting	重切削 Heavy cutting
N	鋁及鋁合金 Aluminum & Al	K10~K20	OM5060		
		K10~K20	RM5060		

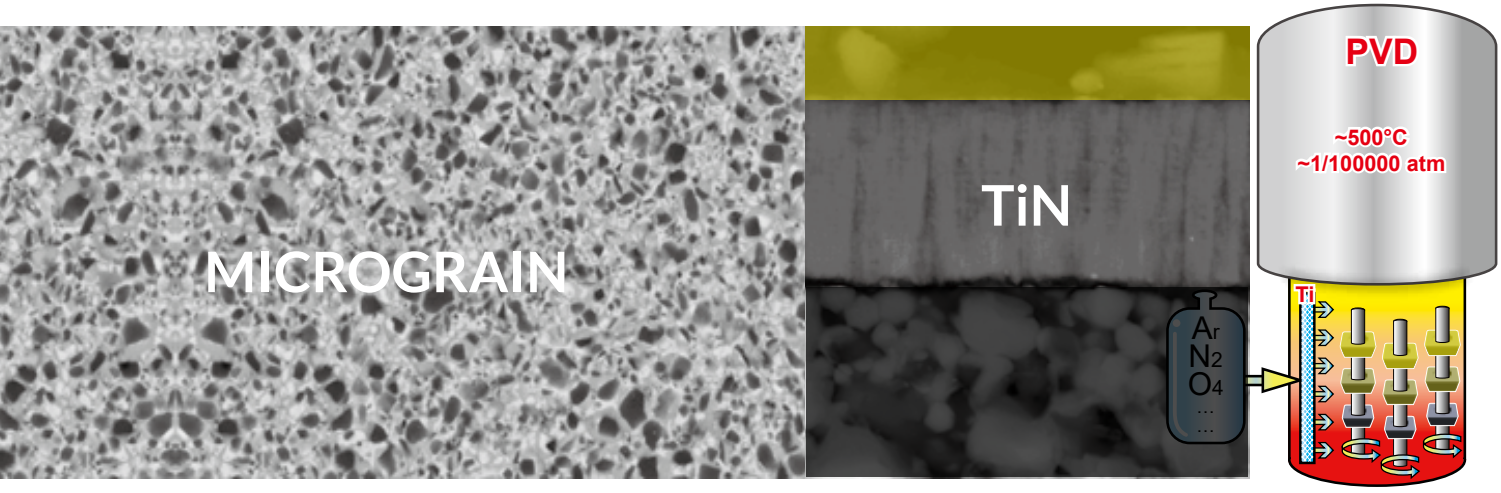
銑削 Milling

被加工材質 Machining Materials		ISO 範圍 ISO Scope	精切削 Fine Cutting	中切削 Medium Cutting	重切削 Heavy Cutting
N	鋁及鋁合金 Aluminum & Al	K10~K20	OM5060		
		K10~K20	RM5060		

• 長度單位 Unit of Length (mm)

材料等級 -HT/PVD
COATING GRADES-HT/PVD

KOVIT



Coated Cermet: 金屬陶瓷

金屬陶瓷以 Ti 系碳化物、氮化物為主要成份，也被稱為 Ti 系硬質合金。結合最優化及特殊合金，提高了耐磨損性與耐破損性，並且可發揮穩定性能。
Metal ceramic is composed of Ti-based carbide and nitrides, named as well as Ti carbide alloy. When combining with the optimized and special alloys, it improves wear resistance & stability.

被加工材質 Machining Materials		ISO 範圍 ISO Scope	材質 Grade	顏色 Color	硬度 (Hv) Hardness	主要成份 Composition	切削速度 Vc(m/min)	特點 Features
P	鋼 Alloyed Steels	P15~P25	RM1205	銀灰色 Silver	1800	UN Coating	100~300	高強度及高韌性的金屬陶瓷，提高耐磨性及耐酸化性，可在廣泛的切削條件下，獲得良好的精加工表面。適用於合金鋼及不鏽鋼類加工。 High strength and high toughness cermet, improve the wear resistance, can use in wide range of Cutting Parameter to obtain a good surface finish. Suitable for steel and stainless materials.

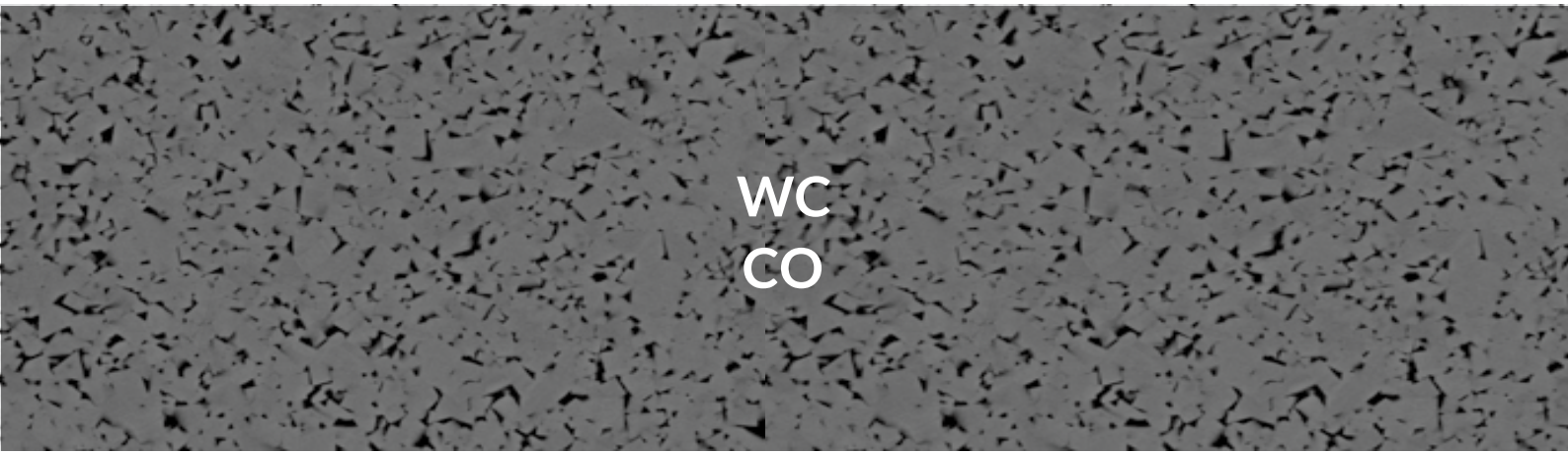
車削 Turning

被加工材質 Machining Materials		ISO 範圍 ISO Scope	精切削 Fine Cutting	中切削 Medium Cutting	重切削 Heavy Cutting
P	鋼 Alloyed Steels	P15~P25	RM1205 OM1205		

• 長度單位 Unit of Length (mm)

材料等級 -HW
COATING GRADES-HW

KOVIT



Cemented Carbide: 硬質合金

HW 硬質合金在常溫到高溫的條件下，都兼具優良的耐磨性和韌性，韌性高、切削阻力低適用於所有被加工材質。
Under room temperature to high temperature, HW hard alloy is consists of good wear resistance, high ductility, and low cutting resistance. It is widely used in all machining materials.

被加工材質 Machining Materials		ISO 範圍 ISO Scope	材質 Grade	顏色 Color	硬度 (HRA)	主要成份 Composition	切削速度 Vc(m/min)	特點 Features
N	鋁及鋁合金 Aluminium & Al	K10~K20	GH1	銀色 Silver	91.5	WC+CO	150~600	耐磨損性優、抗崩韌性佳。 Excellent wear resistance and ductility.
		K10~K20	GH05		91.5	WC+CO	150~600	非鐵金屬的連續及精加工使表面光亮。 Continuous cutting for non-ferrous metal and a polished surface under high precision cutting.
		K10~K15	RM5005		92	WC+CO	300~800	鑄鐵、非鐵金屬具有穩定的耐磨損性及抗崩韌性。 Cast iron and non-ferrous metal with stable wear resistance.

車削 Turning

被加工材質 Machining Materials		ISO 範圍 ISO Scope	精切削 Fine Cutting	中切削 Medium Cutting	重切削 Heavy Cutting
N	鋁及鋁合金 Aluminium & Al	K10~K20	GH05		

銑削 Milling

被加工材質 Machining Materials		ISO 範圍 ISO Scope	精切削 Fine Cutting	中切削 Medium Cutting	重切削 Heavy Cutting
N	鋁及鋁合金 Aluminium & Al	K10~K20	GH1		
		K10~K20	GH05		

• 長度單位 Unit of Length (mm)

材料等級 -HF
GRADES-HF

KOVIT

MICROGRAIN
(HF)K10,C3

Micrograin **C**arbide: 超微粒硬質合金

與一般硬質合金比較，其硬質相粒子是極細的，平均粒度在 1μm 以下，因此能獲得比相同硬度的一般硬質合金更高的韌性和抗塑變形性。

As compared to other conventional carbide alloy, HF is relatively tiny with an average particlesize of below 1 μm resulting in higher deformation resistance and ductility.

被加工材質 Machining Materials		ISO 範圍 ISO Scope	材質 Grade	顏色 Color	硬度 (HRA)	主要成份 Composition	切削速度 Vc(m/min)	特點 Features
N	鋁及鋁合金 Aluminum & Al	Z10	OM5005	銀色 Silver	92.7	Micrograin	200~800	可使用於鑄鐵、鋁合金及耐熱合金之加工。 Applicable for cast iron, Al alloy and other alloy with heat resistance.
		Z10	RM5005	銀色 Silver	92.8	Micrograin	150~600	適用於加工≦ 12% 矽含量鍛造鋁合金材料。 Applicable for forged Al alloy with less than 12% silicon element.

車削 Turning

被加工材質 Machining Materials		ISO 範圍 ISO Scope	精切削 Fine Cutting	中切削 Medium Cutting	重切削 Heavy Cutting
N	鋁及鋁合金 Aluminum & Al	Z10	OM5005		
		Z10	RM5005		

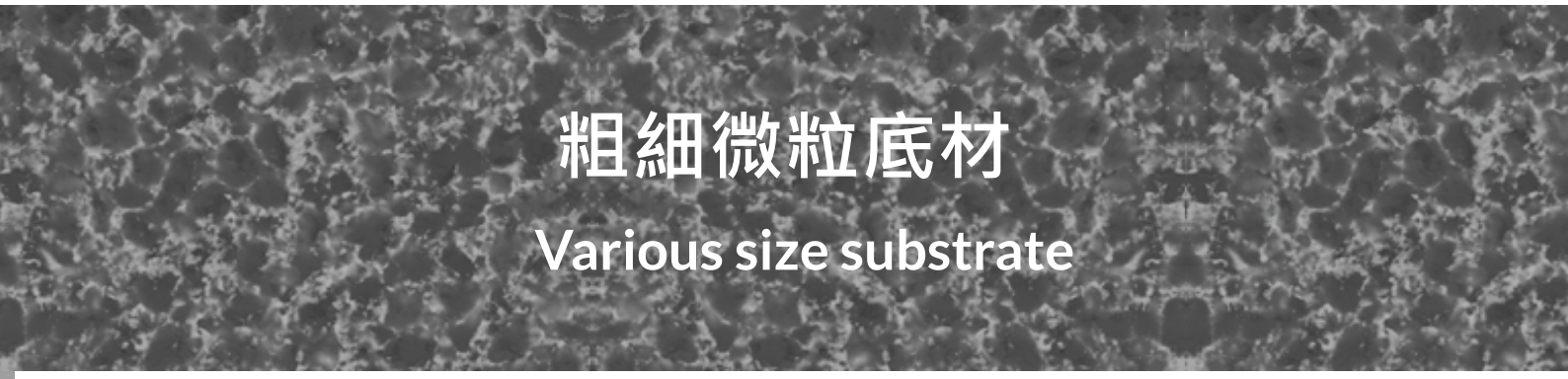
銑削 Milling

被加工材質 Machining Materials		ISO 範圍 ISO Scope	精切削 Fine Cutting	中切削 Medium Cutting	重切削 Heavy Cutting
N	鋁及鋁合金 Aluminum & Al	Z10	OM5005		

• 長度單位 Unit of Length (mm)

材料等級 -CBN
GRADES-CBN

KOVIT



Polycrystalline Cubic Boron Nitride: 立方氮化硼

加入特殊陶瓷成份作為結合劑，在超高壓高溫的條件下燒結合成，與原來材質相比，具有更高的硬度和更優秀的耐熱性。
Cubic Boron Nitride with ceramic bonded sintered at high pressure and temperature, ascompared to original characteristics, has higher hardness and better heat resistance.

工具鋼 Tool Steel	硬鎳鑄鐵 Hardened Ni Cast Iron
合金鋼 Alloy Steel	高溫合金 HRC35 以上 Epoxy Resins
鑄鐵 Cast Iron	鈷基合金 Cobalt-Based Alloy
冷激鑄鐵 Chilled Cast Iron	鎳基合金 Nickel-based Alloy
高鈷粉末金屬 Poedered Metal With More Cobalt	

被加工材質 Machining Materials	ISO 範圍 ISO Scope	材質 Grade	顏色 Color	硬度 (Hv)	主要成份 Composition	切削速度 Vc(m/min)	特點 Features
K 鑄鐵 Cast Iron	-	CBN500	鐵灰色 Iron gray	3000~4000	CBN+TiN	100~1500	高硬度、耐高溫下穩定性佳、良好的耐磨性。 High stability and good wear resistance under high hardness and heat resistance.
H 高硬度材質 High Hardness Material	-	CBN250	鐵灰色 Iron gray	3000~3500	CBN+TiN	50~300	高硬度、耐高溫下穩定性佳、良好的耐磨性、高速連續加工使用，建議採用乾式切削，可加工出光亮表面。 High stability and good wear resistance under high hardness and heat resistance. Obtained polished surface under continuous high speed processing and Recommendeded for dry cutting.

車削 Turning

被加工材質 Machining Materials	ISO 範圍 ISO Scope	精切削 Fine Cutting	中切削 Medium Cutting	重切削 Heavy Cutting
K 鑄鐵 Cast Iron	-	CBN400	CBN300	
H 高硬度材質 High Hardness Material	-	CBN250		

銑削 Milling

被加工材質 Machining Materials	ISO 範圍 ISO Scope	精切削 Fine Cutting	中切削 Medium Cutting	重切削 Heavy Cutting
K 鑄鐵 Cast Iron	-	CBN400	CBN300	
H 高硬度材質 High Hardness Material	-	CBN250		

• 長度單位 Unit of Length (mm)

粒度及特性 -CBN
CBN GRAIN SIZE & FEATURES

KOVIT

CBN250	CBN300	CBN400
粒度 Grain Size 1.5μm CBN 比例 CBN ratio 45%	粒度 Grain Size 1μm CBN 比例 CBN ratio 65%	粒度 Grain Size 3μm CBN 比例 CBN ratio 80%
輕度斷續切削，由於具有較優的耐磨性，所以非常適用在冷作工具鋼和某些閥座用合金。 Mild interrupted cutting, it's suitable for cold working of tool steel and some kinds of valve seat alloy because of the remains of the better abrasion resistance.	提高了粒子間的結合強度，是切刃強度最高的材質。適用於所有常見硬化鋼的中度到重度斷續車削。在韌性、月牙灣和後刀面耐磨性之間實現很好的平衡。還可用於鐵基閥座環的插銑加工。 CBN300 is the strongest cutting edge material as it has a better bonding strength between particles. Applicable for moderate to heavy interrupted turning hardened steel. Perfect balancing between the toughness of the crater and the wear resistance of the fl ank. Idea for plunge milling the valve seat rings.	耐磨與耐崩刃性的通用材質。適合刀具使用壽命更長的應用。在對灰鑄鐵和硬鑄鐵進行斷續加工，是大多數鐵基粉末金屬的優先選擇材質。 Universal material of abrasion resistance and tipping durability. An application suitable for extending life of cutter. The select choice of material in most ferrous powder metal when conducting interrupted processing on grey cast iron and hard cast iron.
焠火鋼，輕斷續切削及高速連續車削。 Hardened steel, mild interrupted cutting and high speed continuous turning.	焠火鋼，重斷續車削及銑削應用。 Hardened steel, heavy interrupted turning and milling application.	適合鑄鐵類及鐵基粉末冶金零件加工。 Suitable for cast iron and ferrous powder metallurgy component processing.

• 長度單位 Unit of Length (mm)

微粒金剛石
Micro grain diamond

Poly Crystalline Diamond: 聚晶鑽石

聚晶鑽石通常用來進行精密切削加工和普通半精密加工，還可用作較大切削量的粗加工和斷續加工 (如：銑削等)。其焊接性、機械磨削性和斷裂韌性最高。經過嚴格篩選過的人造鑽石顆粒，經過高壓高溫技術燒結並將人造超微粒子鑽石結晶的集積層僅密切合於碳化鎢基座上而成。

Generally use on precision cutting and semi-precision cutting, also use on heavy rough cutting and non continuous cutting (like milling etc..). Good property on soldering / sharping and ductile metal. Strictly selected synthetic diamond, powder bonded together by sintering at high pressures and temperature, produced on a cemented carbide substrate.

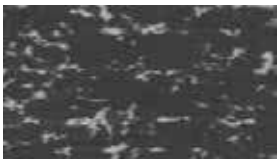
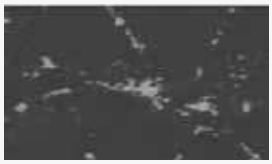
塑膠 Plastic	石墨 Graphite
黃銅青銅合金 Brass&Bronze Alloys	氧基樹脂 Epoxy Resins
矽鋁合金 Silicon-Aluminum Alloys	木材、複合木材 Wood, Compound Wood
銅合金 Copper Alloys	硬質橡膠 Hard Rubber
鎂合金 Magnesium Alloys	玻璃纖維 Fibre Glass Composites
鋁合金 Aluminum Alloys	陶瓷 Ceramics
預燒結或全燒結碳化鎢 Presintered or Sintered Tungsten Carbide	碳、石碳酸 Carbon-Phenolic

鋁合金 Aluminum 4~8% SI		鋁合金 Aluminum 9~13% SI	
車削 Turning 線速度 V 500~1500(m/min) 進給 F 0.1~0.4(mm/rev) 切削深度 Ap 0.1~2.0(mm)	銑削 Milling 線速度 V 500~1500(m/min) 進給 F 0.1~0.3(mm/rev) 切削深度 Ap 0.1~2.0(mm)	車削 Turning 線速度 V 300~500(m/min) 進給 F 0.1~0.4(mm/rev) 切削深度 Ap 0.1~2.0(mm)	銑削 Milling 線速度 V 300~500(m/min) 進給 F 0.1~0.3(mm/rev) 切削深度 Ap 0.1~2.0(mm)
銅合金 Copper Alloy 銅、鋅、黃銅 Copper, zinc, brass		**塑膠 Plastic**	
車削 Turning 線速度 V 300~1000(m/min) 進給 F 0.03~0.3(mm/rev) 切削深度 Ap 0.05~2.0(mm)	銑削 Milling 線速度 V 300~1000(m/min) 進給 F 0.03~0.3(mm/rev) 切削深度 Ap 0.05~2.0(mm)	車削 Turning 線速度 V 300~600(m/min) 進給 F 0.1~0.2(mm/rev) 切削深度 Ap 0.1~3.0(mm)	銑削 Milling 線速度 V 1000~5000(m/min) 進給 F 0.05~2.0(mm/rev) 切削深度 Ap 0.1~0.4(mm)

• 長度單位 Unit of Length (mm)

粒度及特性 -PCD
PCD GRAIN SIZE & FEATURES

KOVIT

PCD010	PCD020	PCD100	PCD250
			
粒度 Grain Size 1μm 極小粒徑，表面質量首選。 Ultra diameter, best quality of surface. - 低矽鋁合金加工 (電子產品) Low silicon aluminium processing(electronic products) - 鈦合金加工 Titanium alloy processing	粒度 Grain Size 2μm 極小粒徑，表面質量首選。 Ultra diameter, best quality of surface. - 低矽鋁合金加工 (電子產品) Low silicon aluminium processing(electronic products) - 鈦合金加工 Titanium alloy processing	粒度 Grain Size 4μm 優異的表面質量，適合連續加工。 Excellent quality of surface, suitable for continuous processing. - <12% 矽鋁合金 <12% silicon aluminium - 低矽鋁合金加工 (電子產品) Low silicon aluminium processing(electronic products) - 銅合金 Copper alloy	粒度 Grain Size 25μm 高耐磨性、特殊結合提高結合強度。 High abrasion resistance and specific combination raised the strength of integration. - >12% 矽鋁合金 >12% silicon aluminium - 燒結及未燒結陶瓷 Shrink-fitting and non shrink-fitting ceramic - 金屬基複合材 (MMC) - 燒結硬質合金 Shrink-fitting hard alloy
超細晶粒結構擁有極強的刃口鋒利度和刃口耐用度，適用於需要極致表面質量的首選。 Ultra fine grain structure allows precisely sharpened and durable cutting edges. It's suitable for excellent quality of surface needed.	優異的表面質量，適合高速連續加工。 Excellent quality of surface, it's suitable for high speed continuous processing.	具有良好的耐磨性及韌性，通用性佳 It remains excellent abrasion resistance, tenacity, and great versatility.	高耐磨性、特殊結合提高結合強度。 High abrasion resistance and specific combination raised the strength of integration.
鋁合金的銑削和粗切，也適用於鈦及鈦合金和複合材料的機加工。 Milling and roughing for aluminum material and also can process titanium and titanium alloys and composite material.	非鐵金屬的一般精加工、壓模成形表面加工、ERP、硬質橡膠、木材、無機板材等的切割及端面加工。 Finishing for non-ferrous, surface milling for press forming, and face milling for ERP, hard rubber, wood, and inorganic plates.	非鐵金屬的一般加工、陶瓷燒結品、壓模成形表面加工、ERP、硬質橡膠、石墨加工、木材、無機板材等的切割及端面加工。 Processing for non-ferrous, surface milling for shrink-fitting ceramic and press forming, and face-milling for ERP, hard rubber, graphite, wood, and inorganic plates.	高矽鋁合金加工、鋁複合材料的加工、硬質合金、陶瓷半燒結品、壓模成形的粗加工、陶瓷燒結加工、石材、岩石加工。 Processing for silicon aluminum alloys, aluminum composite, cemented carbide, and shrink-fitting semi-ceramic ; roughing for press forming, shrink-fitting ceramic, and rock.

被加工材質 Machining Materials		ISO 範圍 ISO Scope	材質 Material	顏色 Color	硬度 (Hv)	主要成份 Composition	切削速度 Vc(m/min)	特點 Features
N	鋁及鋁合金 Aluminum & Al	-	PCD	黑色 Black	7000~8000	Micro Grain Diamond	10~1000	超微粒聚晶鑽石，抗沾黏及耐磨性佳，導熱係數高、熱膨脹及摩擦係數低。 Micro Poly crystalline diamond, adhesion resistance and greater wear resistance, high thermal conductivity. Thermal expansion

車削 Turning

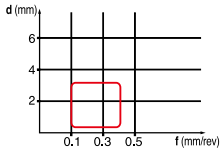
被加工材質 Machining Materials		ISO 範圍 ISO Scope	精切削 Fine cutting	中切削 Medium cutting	重切削 Heavy cutting
N	鋁及鋁合金 Aluminum & Al	-	PCD		

銑削 Milling

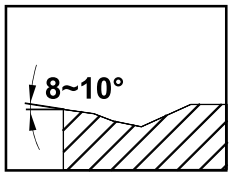
被加工材質 Machining Materials		ISO 範圍 ISO scope	精切削 Fine cutting	中切削 Medium cutting	重切削 Heavy cutting
N	鋁及鋁合金 Aluminum & Al	-	PCD		

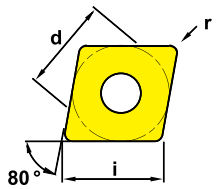
負角刀片
NEGATIVE RAKE ANGLE INSERT

KOVIT



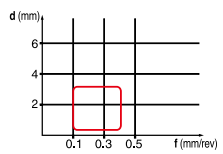
d=0.8~3.5mm
f= 0.25(0.20-0.45) mm/rev



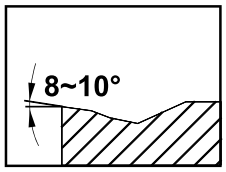


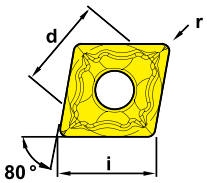
規格 Spec.	鍍層硬質合金 Layer coated carbide alloy						尺寸 (mm)			
	CVD						Size			
	RM4035						d	i	s	r
★ NEW CNMG120404N-M01	P						12.7	12.9	4.76	0.4
★ NEW CNMG120408N-M01	P						12.7	12.9	4.76	0.8

★ 推薦 Recommended NEW 新品 New Product

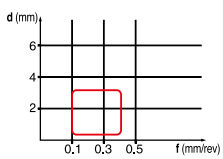


d = 0.8 ~ 3.5 mm
f = 0.1 ~ 0.4 mm/rev

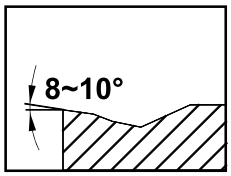


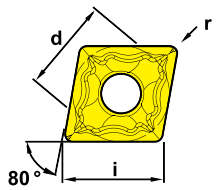


規格 Spec.	鍍層硬質合金 Layer coated carbide alloy						尺寸 (mm)			
	CVD						Size			
	RM425	RM315	RM125				d	i	s	r
CNMG120404-GM2	P M	K					12.7	12.9	4.76	0.4
CNMG120408-GM2	P M	K					12.7	12.9	4.76	0.8
CNMG120408-GR2		K					12.7	12.9	4.76	0.8
CNMG120408-BM2			M				12.7	12.9	4.76	0.8
CNMG120412-BM2			M				12.7	12.9	4.76	1.2



d = 0.8 ~ 3.5 mm
f = 0.1 ~ 0.4 mm/rev



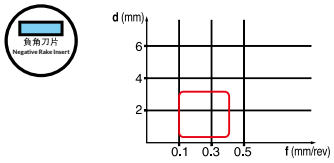


規格 Spec.	鍍層硬質合金 Layer coated carbide alloy						尺寸 (mm)			
	CVD						Size			
	RM425						d	i	s	r
CNMG120404-GS2	P M						12.7	12.9	4.76	0.4
CNMG120408-GS2	P M						12.7	12.9	4.76	0.8

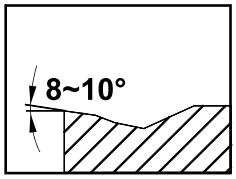
• 長度單位 Unit of Length (mm)

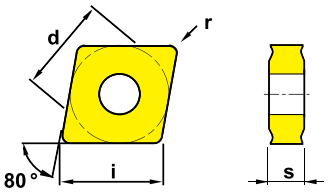
負角刀片
NEGATIVE RAKE ANGLE INSERT

KOVIT

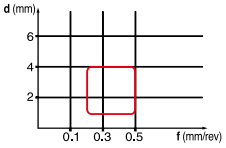


d=0.8~3.5mm
f= 0.25(0.20-0.45) mm/rev

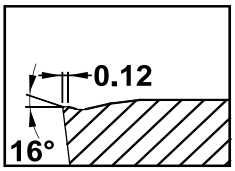


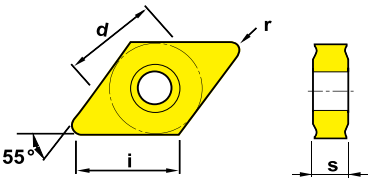


規格 Spec.	超微粒硬質合金 Micro grain carbide alloy							尺寸 (mm)			
	HF							Size			
	RM5005							d	i	s	r
CNMG120404-NA	N							12.7	12.9	4.76	0.4
CNMG120408-NA	N							12.7	12.9	4.76	0.8



d = 1 ~ 4 mm
f = 0.2 ~ 0.5 mm/rev



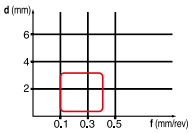


規格 Spec.	鍍層硬質合金 Layer coated carbide alloy						尺寸 (mm)			
	CVD						Size			
	RM425	RM315					d	i	s	r
DNMG150404-GM	P M	K					12.7	15.5	4.76	0.4
DNMG150408-GM	P M	K					12.7	15.5	4.76	0.8
DNMG150412-GM	P M	K					12.7	15.5	4.76	1.2
DNMG150604-GS2	P M	K					12.7	15.5	6.35	0.4
DNMG150608-GS2	P M	K					12.7	15.5	6.35	0.8

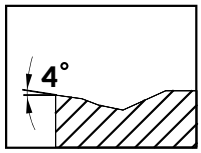
• 長度單位 Unit of Length (mm)

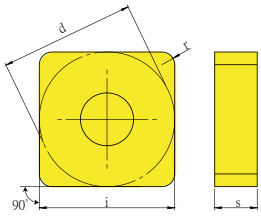
負角刀片
NEGATIVE RAKE ANGLE INSERT

KOVIT

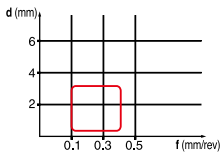


d=0.5~1.5mm
f= 0.1~ 0.3mm/rev

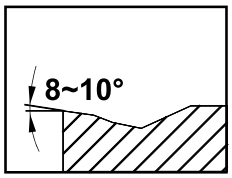


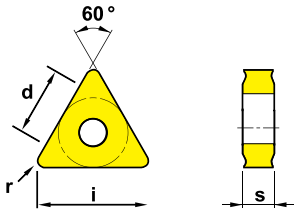


規格 Spec.		鍍層硬質合金 Layer coated carbide alloy							尺寸 (mm)			
		CVD							Size			
		RM125							d	i	s	r
NEW	SNMG120412-BM2	M							12.7	12.7	4.76	1.2



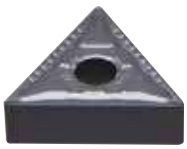
d=0.8~3.5mm
f= 0.25(0.20-0.45) mm/rev

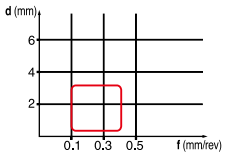




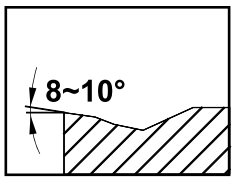
規格 Spec.		鍍層硬質合金 Layer coated carbide alloy						尺寸 (mm)			
		CVD						Size			
		RM4035						d	i	s	r
★ NEW	TNMG160404N-M01	P						9.525	16.5	4.76	0.4
★ NEW	TNMG160408N-M01	P						9.525	16.5	4.76	0.8

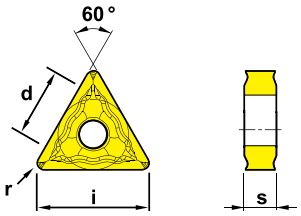
★ 推薦 Recommended NEW 新品 New Product





d = 0.8 ~ 3.5 mm
f = 0.1 ~ 0.4 mm/rev



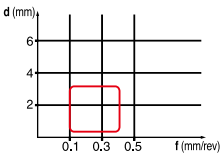


規格 Spec.	鍍層硬質合金 Carbide alloy							尺寸 (mm)			
	CVD							Size			
	RM425	RM315						d	i	s	r
TNMG160404-GM2	P M	K						9.525	16.5	4.76	0.4
TNMG160408-GM2	P M	K						9.525	16.5	4.76	0.8

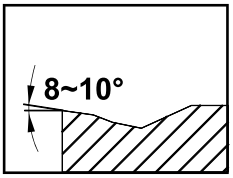
• 長度單位 Unit of Length (mm)

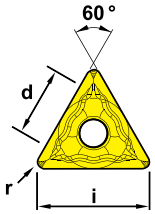
負角刀片
NEGATIVE RAKE ANGLE INSERT

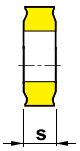
KOVIT



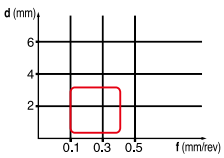
d = 0.8 ~ 3.5 mm
f = 0.1 ~ 0.4 mm/rev



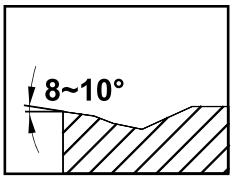


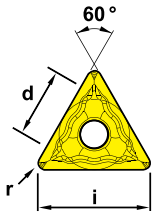


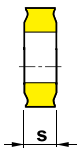
規格 Spec.	鍍層硬質合金 Layer coated carbide alloy							尺寸 (mm)			
	CVD							Size			
	RM425	RM125						d	i	s	r
TNMG160404-GS2	P M							9.525	16.5	4.76	0.4
TNMG160408-GS2	P M							9.525	16.5	4.76	0.8
TNMG160408-MA1		M						9.525	16.5	4.76	0.8
TNMG160412-MA1		M						9.525	16.5	4.76	1.2



d = 0.8 ~ 3.5 mm
f = 0.1 ~ 0.4 mm/rev





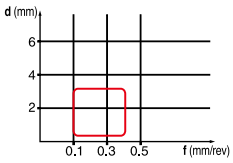


規格 Spec.	超微粒硬質合金 Micro grain carbide alloy							尺寸 (mm)			
	HF							Size			
	RM5005							d	i	s	r
TNMG160404-NA	N							9.525	16.5	4.76	0.4
TNMG160408-NA	N							9.525	16.5	4.76	0.8

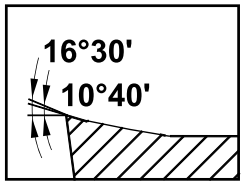
• 長度單位 Unit of Length (mm)

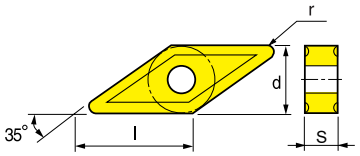
負角刀片
NEGATIVE RAKE ANGLE INSERT

KOVIT

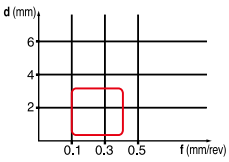


d = 0.8 ~ 3.5 mm
f = 0.1 ~ 0.4 mm/rev

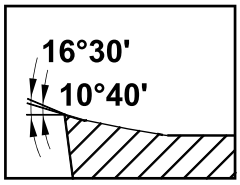


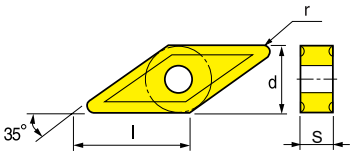


規格 Spec.	鍍層硬質合金 Layer coated carbide alloy						尺寸 (mm)			
	CVD						Size			
	RM425						d	i	s	r
VNMG160404-GM2	P M						9.525	16.6	4.76	0.4
VNMG160408-GM2	P M						9.525	16.6	4.76	0.8

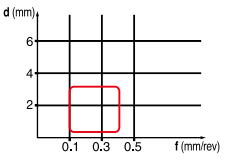


d = 0.8 ~ 3.5 mm
f = 0.1 ~ 0.4 mm/rev

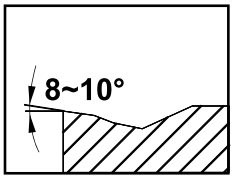


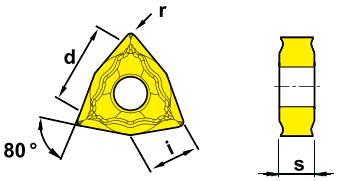


規格 Spec.	超微粒硬質合金 Micro grain cemented carbide						尺寸 (mm)			
	HF						Size			
	RM5005						d	i	s	r
VNMG160408-NA	N						9.525	16.6	4.76	0.8



d=0.8~3.5mm
f= 0.25(0.20-0.45) mm/rev





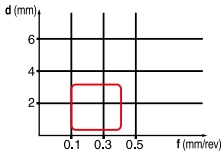
規格 Spec.	鍍層硬質合金 Layer coated carbide alloy					尺寸 (mm)			
	CVD					Size			
	RM4035					d	i	s	r
★ NEW WNMG080404N-M01	P					12.7	8.7	4.76	0.4
★ NEW WNMG080408N-M01	P					12.7	8.7	4.76	0.8

★ 推薦 Recommended NEW 新品 New Product

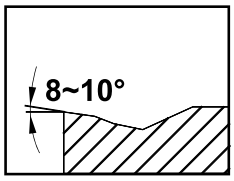
• 長度單位 Unit of Length (mm)

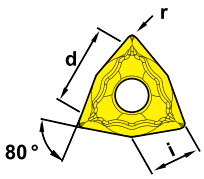
負角刀片
NEGATIVE RAKE ANGLE INSERT

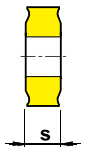
KOVIT



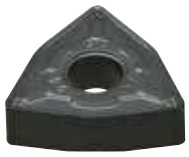
d = 0.8 ~ 3.5 mm
f = 0.1 ~ 0.4 mm/rev

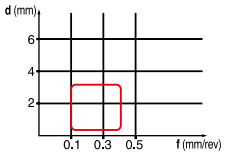




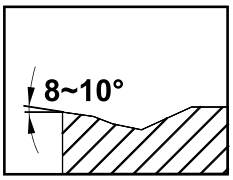


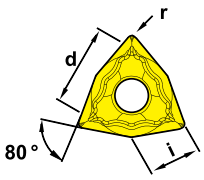
規格 Spec.	鍍層硬質合金 Layer coated carbide alloy						尺寸 (mm)			
	CVD						Size			
	RM425	RM315					d	i	s	r
WNMG080404-GM2	P M	K					12.7	8.7	4.76	0.4
WNMG080408-GM2	P M	K					12.7	8.7	4.76	0.8

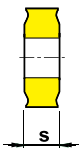




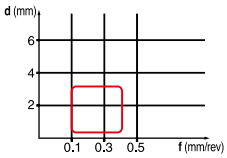
d = 0.8 ~ 3.5 mm
f = 0.1 ~ 0.4 mm/rev



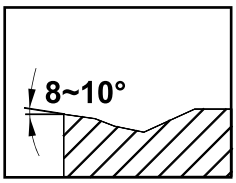


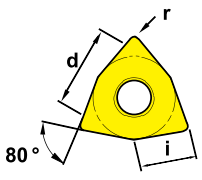


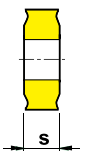
規格 Spec.	鍍層硬質合金 Layer coated carbide alloy						尺寸 (mm)			
	CVD						Size			
	RM425						d	i	s	r
WNMG080404-GS2	P M						12.7	8.7	4.76	0.4
WNMG080408-GS2	P M						12.7	8.7	4.76	0.8



d = 0.8 ~ 3.5 mm
f = 0.1 ~ 0.4 mm/rev





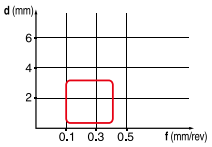


規格 Spec.	超微粒硬質合金 Micro grain carbide alloy							尺寸 (mm)			
	HF							Size			
	RM5005							d	i	s	r
WNMG080408-NA	N							12.7	8.7	4.76	0.8

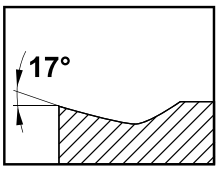
• 長度單位 Unit of Length (mm)

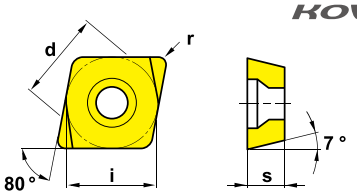
正角刀片
POSITIVE RAKE ANGLE INSERT

KOVIT

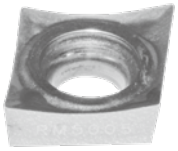


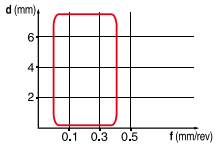
d = 0.8 ~ 3.5 mm
f = 0 1 ~ 0 4 mm/rev



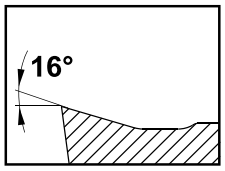


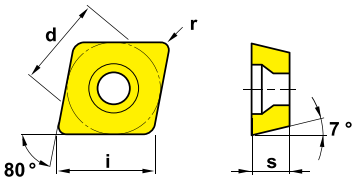
規格 Spec.	鍍層超微粒 Layer coated micro grain CHF RM4015								尺寸 (mm) Size d	i	s	r
CCGT03S102L-F	P								3.57	-	1.39	0.2
CCGT03S104L-F	P								3.57	-	1.39	0.4
CCGT04T002L-F	P								4.37	-	1.79	0.2
CCGT04T004L-F	P								4.37	-	1.79	0.4



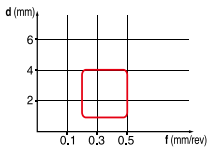


d = 0.1 ~ 8 mm
f = 0.05 ~ 0.4 mm/rev

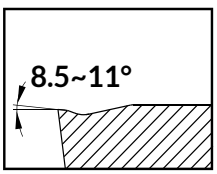


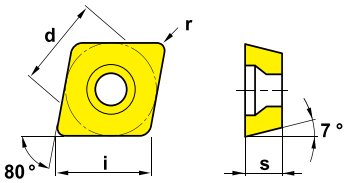


規格 Spec.	超微粒硬質合金 Micro grain carbide alloy HF RM5005								尺寸 (mm) Size d	i	s	r
CCGT060202-NK	N								6.35	6.5	2.38	0.2
CCGT060204-NK	N								6.35	6.5	2.38	0.4
CCGT060208-NK	N								6.35	6.5	2.38	0.8
CCGT09T304-NK	N								9.525	9.7	3.97	0.4
CCGT09T308-NK	N								9.525	9.7	3.97	0.8
CCGT120404-NK	N								12.7	12.9	4.76	0.4
CCGT120408-NK	N								12.7	12.9	4.76	0.8



d=0.8~3.5mm
f= 0.15(0.20-0.45) mm/rev



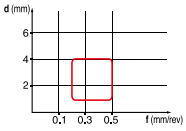


規格 Spec.	瓷金鍍層 Cermet HT RM1205								尺寸 (mm) Size d	i	s	r
CCMT060204N-M01	P H								6.35	6.4	2.38	0.4
CCMT09T304N-M01	P H								9.525	9.7	3.97	0.4
CCMT09T308N-M01	P H								9.525	9.7	3.97	0.8

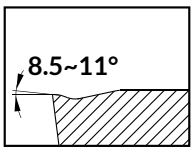
• 長度單位 Unit of Length (mm)

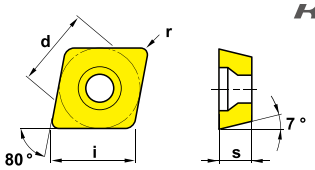
正角刀片
POSITIVE RAKE ANGLE INSERT

KOVIT



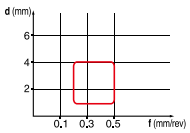
d=0.8~3.5mm
f= 0.15(0.20-0.45) mm/rev



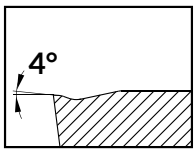


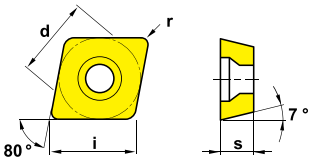
規格 Spec.	鍍層硬質合金 Layer coated carbide alloy					尺寸 (mm)			
	CVD					Size			
	RM4035					d	i	s	r
★ NEW CCMT060202N-F01	P					6.35	6.4	2.38	0.2
★ NEW CCMT060204N-F01	P					6.35	6.4	2.38	0.4
★ NEW CCMT09T304N-F01	P					9.525	9.7	3.97	0.4
★ NEW CCMT09T308N-F01	P					9.525	9.7	3.97	0.8
★ NEW CCMT120404N-F01	P					12.7	12.9	4.76	0.4
★ NEW CCMT120408N-F01	P					12.7	12.9	4.76	0.8

★ 推薦 Recommended NEW 新品 New Product

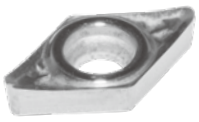


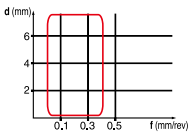
d=0.8~3.5mm
f= 0.25(0.20-0.45) mm/rev



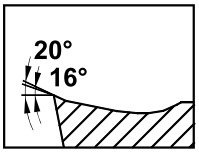


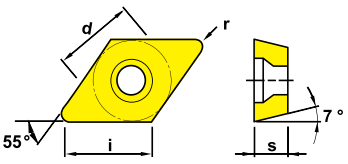
規格 Spec.	鍍層硬質合金 Layer coated carbide alloy					尺寸 (mm)			
	CVD					Size			
	RM425	RM315	RM125			d	i	s	r
CCMT060204-HM	P M	K				6.35	6.4	2.38	0.4
CCMT060208-HM	P M	K	M			6.35	6.4	2.38	0.8
CCMT09T304-HM	P M	K				9.525	9.7	3.97	0.4
CCMT09T308-HM	P M	K	M			9.525	9.7	3.97	0.8
CCMT120404-HM	P M	K				12.7	12.9	4.76	0.4
CCMT120408-HM	P M	K				12.7	12.9	4.76	0.8





d = 0.1 ~ 8 mm
f = 0.05 ~ 0.4 mm/rev



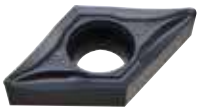


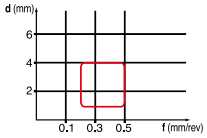
規格 Spec.	超微粒硬質合金 Micro grain carbide alloy						尺寸 (mm)			
	HF						Size			
	RM5005						d	i	s	r
DCGT070204-NK	N						6.35	7.8	2.38	0.4
DCGT070208-NK	N						6.35	7.8	2.38	0.8
DCGT11T302-NK	N						9.525	11.6	3.97	0.2
DCGT11T304-NK	N						9.525	11.6	3.97	0.4
DCGT11T308-NK	N						9.525	11.6	3.97	0.8

• 長度單位 Unit of Length (mm)

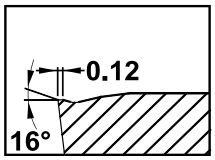
正角刀片
POSITIVE RAKE ANGLE INSERT

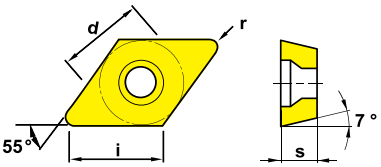
KOVIT



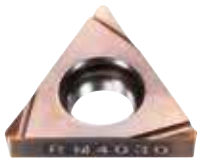


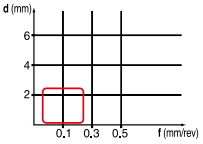
d = 1 ~ 4 mm
f = 0.2 ~ 0.5 mm/rev



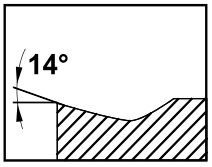


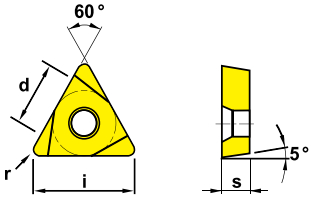
規格 Spec.	鍍層硬質合金 Layer coated carbide alloy							尺寸 (mm)			
	CVD							Size			
	RM425							d	i	s	r
DCMT070204-HM	P M							6.35	7.8	2.38	0.4
DCMT070208-HM	P M							6.35	7.8	2.38	0.8
DCMT11T304-HM	P M							12.7	12.9	4.76	0.4
DCMT11T308-HM	P M							12.7	12.9	4.76	0.8



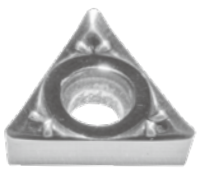


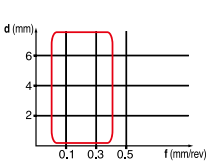
d = 0.05 ~ 2.5 mm
f = 0.03 ~ 0.25 mm/rev



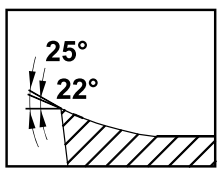


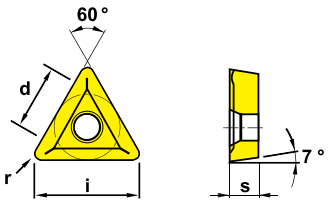
規格 Spec.	鍍層超微粒 Layer coated micro grain				瓷金鍍層 Cermet		超微粒硬質合金 Micro grain carbide alloy				尺寸 (mm)			
	CHF				HT		HF				Size			
	RM4030				RM1205		RM5005				d	i	s	r
TBGT060102L-F01	P				P M		N				3.97	6.4	1.59	0.2
TBGT060104L-F01	P				P M		N				3.97	6.4	1.59	0.4





d = 0.1 ~ 8 mm
f = 0.05 ~ 0.4 mm/rev



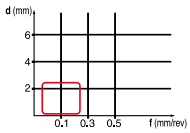


規格 Spec.	超微粒硬質合金 Micro grain carbide alloy								尺寸 (mm)			
	HF								Size			
	RM5005								d	i	s	r
TCGT090204-NK	N								5.56	9.6	3.38	0.4
TCGT110204-NK	N								6.35	11	2.38	0.4
TCGT16T304-NK	N								9.525	16.5	3.97	0.4
TCGT16T308-NK	N								9.525	16.5	3.97	0.8

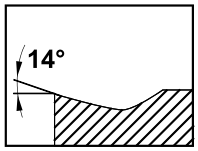
• 長度單位 Unit of Length (mm)

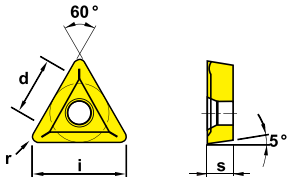
正角刀片
POSITIVE RAKE ANGLE INSERT

KOVIT



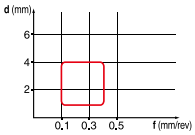
d = 0.05 ~ 2.5 mm
f = 0.03 ~ 0.25 mm/rev



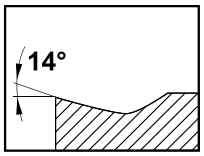


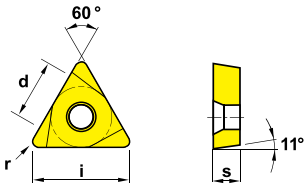
規格 Spec.	鍍層硬質合金 Layer coated carbide alloy							尺寸 (mm)			
	CVD							Size			
	RM4035							d	i	s	r
★ NEW TCMT110202N-F01	P							6.35	11	2.38	0.2
★ NEW TCMT110204N-F01	P							6.35	11	2.38	0.4
★ NEW TCMT16T304N-F01	P							9.525	16.5	3.97	0.4
★ NEW TCMT16T308N-F01	P							9.525	16.5	3.97	0.8

★ 推薦 Recommended NEW 新品 New Product

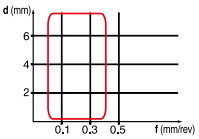


d = 1.0 ~ 4.0 mm
f = 0.1 ~ 0.4 mm/rev

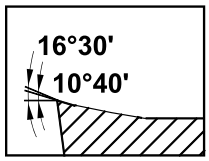


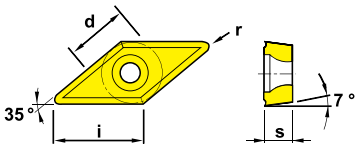


規格 Spec.	鍍層超微粒 Layer coated micro grain				瓷金鍍層 Cermet		超微粒硬質合金 Micro grain carbide alloy				尺寸 (mm)			
	CHF				HT		HF				Size			
	RM4030				RM1205		RM5005				d	i	s	r
TPGT080202L-F01	P				P M		N				4.76	8.2	2.38	0.2
TPGT080204L-F01	P				P M		N				4.76	8.2	2.38	0.4
TPGT090202L-F01	P				P M		N				5.56	9.6	2.38	0.2
TPGT090204L-F01	P				P M		N				5.56	9.6	2.38	0.4
TPGT110302L-F01	P				P M		N				6.35	11	2.38	0.2
TPGT110304L-F01	P				P M		N				6.35	11	2.38	0.4



d = 0.1 ~ 8 mm
f = 0.05 ~ 0.4 mm/rev





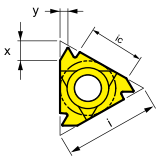
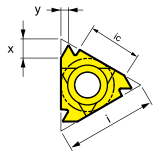
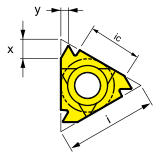
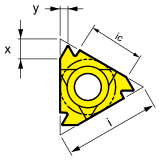
規格 Spec.	超微粒硬質合金 Micro grain carbide alloy								尺寸 (mm)			
	HF								Size			
	RM5005								d	i	s	r
VCGT160402-NK	N								9.525	16.5	4.76	0.2
VCGT160404-NK	N								9.525	16.5	4.76	0.4
VCGT160408-NK	N								9.525	16.5	4.76	0.8

• 長度單位 Unit of Length (mm)

車牙刀片 THREADING INSERTS

KOVIT

外螺紋 External Thread

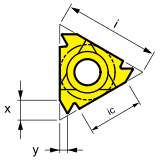
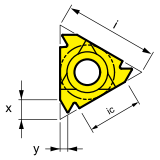
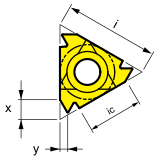
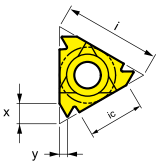
形狀 shape	規格 Spec..	鍍層超微粒 Layer coated micro grain CHF RM325						尺寸 (mm) Size ic	i	x	y	圖形 Drawing
	16ERA60	P M						9.525	16	0.8	0.9	
	16ERAG60	P M						9.525	16	1.1	1.5	
	16ERG60	P M						9.525	16	1.2	1.7	
	22ERN60	P M						12.7	22	1.7	2.5	
	16ERA55	P M						9.525	16	0.8	0.9	
	16ERAG55	P M						9.525	16	1.1	1.5	
	16ERG55	P M						9.525	16	1.2	1.7	
	22ERN55	P M						12.7	22	1.7	2.5	
	16ER1.0ISO	P M						9.525	16	0.8	0.7	
	16ER1.25ISO	P M						9.525	16	0.8	0.9	
	16ER1.5ISO	P M						9.525	16	0.8	1.0	
	16ER1.75ISO	P M						9.525	16	1.2	1.2	
	16ER2.0ISO	P M						9.525	16	1.2	1.3	
	16ER2.5ISO	P M						9.525	16	1.2	1.5	
	16ER3.0ISO	P M						9.525	16	1.2	1.5	
	22ER3.5ISO	P M						12.7	22	1.6	2.3	
	22ER4.0ISO	P M						12.7	22	1.6	2.3	
	22ER4.5ISO	P M						12.7	22	1.7	2.4	
	22ER5.0ISO	P M						12.7	22	1.7	2.5	
	16ER24UN	P M						9.525	16	0.8	0.8	
	16ER20UN	P M						9.525	16	0.8	0.9	
	16ER18UN	P M						9.525	16	0.8	1.0	
	16ER16UN	P M						9.525	16	0.9	1.1	
	16ER14UN	P M						9.525	16	1.2	1.5	
	16ER12UN	P M						9.525	16	1.2	1.5	
	16ER8UN	P M						9.525	16	1.3	1.7	

• 長度單位 Unit of Length (mm)

車牙刀片 THREADING INSERTS

KOVIT

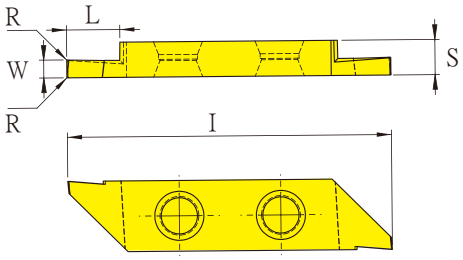
內螺紋 Internal Thread

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain CHF RM325						尺寸 (mm) Size ic	i	x	y	圖形 Drawing
	11IRA60	P M						6.35	11	0.8	0.9	
	16IRA60	P M						9.525	16	0.8	0.9	
	16IRAG60	P M						9.525	16	1.1	1.5	
	16IRG60	P M						9.525	16	1.2	1.7	
	22IRN60	P M						12.7	22	1.7	2.5	
	11IRA55	P M						6.35	11	0.8	0.9	
	16IRA55	P M						9.525	16	0.8	0.9	
	16IRAG55	P M						9.525	16	1.1	1.5	
	16IRG55	P M						9.525	16	1.2	1.7	
	22IRN55	P M						12.7	22	1.7	2.5	
	11IR1.0ISO	P M						6.35	11	0.8	0.7	
	11IR1.25ISO	P M						6.35	11	0.8	0.9	
	11IR1.5ISO	P M						6.35	11	0.8	1.0	
	11IR1.75ISO	P M						6.35	11	0.9	1.1	
	11IR2.0ISO	P M						6.35	11	0.9	1.1	
	16IR1.0ISO	P M						9.525	16	0.8	0.7	
	16IR1.25ISO	P M						9.525	16	0.8	0.9	
	16IR1.5ISO	P M						9.525	16	0.8	1.0	
	16IR1.75ISO	P M						9.525	16	1.2	1.2	
	16IR2.0ISO	P M						9.525	16	1.2	1.3	
	16IR2.5ISO	P M						9.525	16	1.2	1.5	
	16IR3.0ISO	P M						9.525	16	1.2	1.5	
	22IR3.5ISO	P M						12.7	22	1.6	2.3	
	22IR4.0ISO	P M						12.7	22	1.6	2.3	
	22IR4.5ISO	P M						12.7	22	1.6	2.4	
	22IR5.0ISO	P M						12.7	22	1.6	2.3	
	11IR20UN	P M						6.35	11	0.8	0.9	
	11IR18UN	P M						6.35	11	0.8	1.0	
	16IR24UN	P M						9.525	16	0.8	0.8	
	16IR20UN	P M						9.525	16	0.8	0.9	
	16IR18UN	P M						9.525	16	0.8	1.0	
	16IR16UN	P M						9.525	16	0.9	1.1	
	16IR14UN	P M						9.525	16	1.2	1.5	
	16IR12UN	P M						9.525	16	1.2	1.5	
	16IR8UN	P M						9.525	16	1.3	1.7	

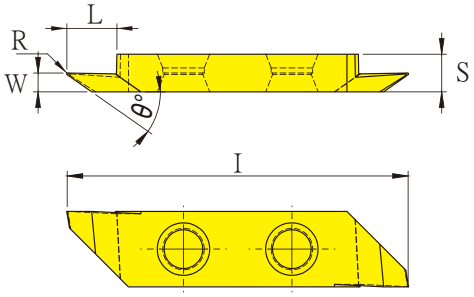
• 長度單位 Unit of Length (mm)

走心式車刀片
THREADING INSERTS FOR SWISS-TYPE LATHES

KOVIT



規格 Spec.		鍍層超微粒 Layer coated micro grain			超微粒硬質合金 Micro grain carbide alloy			尺寸 (mm)					
		CHF			HF			Size					
		OM4025	OM5035		OM5005			W	R	加工深度 Depth	L	I	S
NEW	SCCIL375-41002	PK	M		N			1	0.2	6	11	37.5	4.0
NEW	SCCIR375-41002	PK	M		N			1	0.2	6	11	37.5	4.0
NEW	SCCIL375-41502	PK	M		N			1.5	0.2	8	11	37.5	4.0
NEW	SCCIR375-41502	PK	M		N			1.5	0.2	8	11	37.5	4.0
NEW	SCCIL375-42002	PK	M		N			2	0.2	10	11	37.5	4.0
NEW	SCCIR375-42002	PK	M		N			2	0.2	10	11	37.5	4.0
NEW	SCCIL375-42502	PK	M		N			2.5	0.2	10	11	37.5	4.0
NEW	SCCIR375-42502	PK	M		N			2.5	0.2	10	11	37.5	4.0
NEW	SCCIL375-43002	PK	M		N			3	0.2	10	11	37.5	4.0
NEW	SCCIR375-43002	PK	M		N			3	0.2	10	11	37.5	4.0



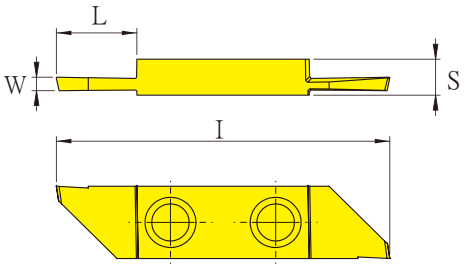
規格 Spec.		鍍層超微粒 Layer coated micro grain			超微粒硬質合金 Micro grain carbide alloy			尺寸 (mm)								
		CHF			HF			Size								
		OM4025	OM5035		OM5005			W	HF	R	加工深度 Depth	L	θ	I	S	
NEW	SCCIL375-BL40502-60	PK	M		N			0.5	0.5	0.2	0.1-4.2	11	60°	37.5	4.0	
NEW	SCCIR375-BL40502-60	PK	M		N			0.5	0.5	0.2	0.1-4.2	11	60°	37.5	4.0	
NEW	SCCIL375-BL41002-60	PK	M		N			1	0.5	0.2	0.1-4.2	11	60°	37.5	4.0	
NEW	SCCIR375-BL41002-60	PK	M		N			1	0.5	0.2	0.1-4.2	11	60°	37.5	4.0	
NEW	SCCIR375-BL41002-70	PK	M		N			1	0.2	0.2	0.1-4.2	11	70°	37.5	4.0	
NEW	SCCIL375-BL41002-70	PK	M		N			1	0.2	0.2	0.1-4.2	11	70°	37.5	4.0	

NEW 新品 New Product

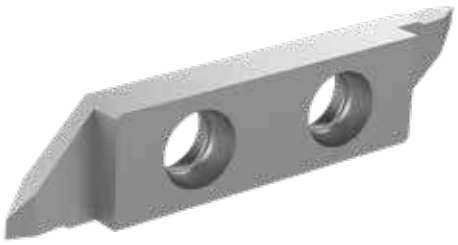
• 長度單位 Unit of Length (mm)

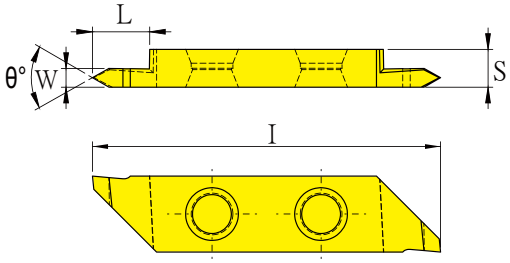
走心式車刀片
THREADING INSERTS FOR SWISS-TYPE LATHES

KOVIT



規格 Spec.	鍍層超微粒 Layer coated micro grain			超微粒硬質合金 Micro grain carbide alloy			尺寸 (mm)					
	CHF			HF			Size					
	OM4025	OM5035		OM5005			W	R	加工深度 Depth	L	I	S
NEW SCCIL375-AD43002	PK	M		N			3	0.2	11	11	37.5	4.0





規格 Spec.	鍍層超微粒 Layer coated micro grain			超微粒硬質合金 Micro grain carbide alloy			尺寸 (mm)					
	CHF			HF			Size					
	OM4025	OM5035		OM5005			W	R	PITCH	θ	I	S
NEW SCCIL375-T42001-A60	PK	M		N			4	0.1	0.4-1.5	60°	37.5	4.0
NEW SCCIR375-T42001-A60	PK	M		N			4	0.1	0.4-1.5	60°	37.5	4.0
NEW SCCIR375-T43002-B60	PK	M		N			6	0.2	1.5-2.5	60°	37.5	4.0
NEW SCCIR375-T43002-B60	PK	M		N			6	0.2	1.5-2.5	60°	37.5	4.0

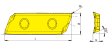
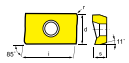
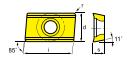
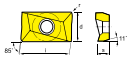
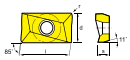
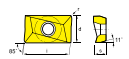
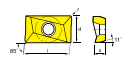
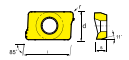
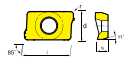
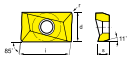
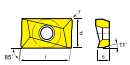
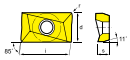
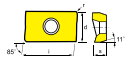
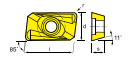
NEW 新品 New Product

• 長度單位 Unit of Length (mm)

銑削刀片 MILLING INSERTS

KOVIT

ISO 分類														切削狀態 Cutting Condition :
	P	合金鋼 Alloyed Steels	○	○		○	○							● 連續切削 Continuous Cutting
	M	不鏽鋼 Stainless Steels	○				○							○ 一般切削 General Cutting
	K	鑄鐵 Cast Iron	○		○									■ 斷續切削 Interrupted Cutting
	N	鋁及鋁合金 Aluminum&Al							■	■	○	■	■	
	S	高溫合金 Refractory Alloys						○						
	H	高硬度材 Hard Material				○								

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain						超微粒硬質合金 Micro grain carbide alloy					尺寸 (mm)				圖形 Drawing
		CHF						HF					Size				
		OM4025	OM4025N	RM3130	RM4110	RM4130	RM535	GH05	OM5005	OM5060	RM5005	RM5060	d	i	s	r	
	NEW AECX32T302ER-F01								●	●			11.9	37	3.97	0.2	
	NEW AECX32T320ER-F01								●	●			11.9	37	3.97	2	
	NEW AECX32T330ER-F01								●	●			11.9	37	3.97	3	
	NEW AECX32T340ER-F01								●	●			11.9	37	3.97	4	
	NEW AECX32T350ER-F01								●	●			11.9	37	3.97	5	
	★ APEX100304PDFR-F01								●	●			6.68	10.5	3.47	0.4	
	★ APEX1604PDFR-F01								●	●			9.525	16.4	4.76	-	
	★ APEX160400PDFR-F01								●	●			9.525	16.4	4.76	-	
	★ APEX160404PDFR-F01								●	●			9.525	16.4	4.76	0.4	
	★ APEX160408PDFR-F01								●	●			9.525	16.4	4.76	-	
	APEX1604PDFR-701							●					9.525	16.4	4.76	0.2	
	APGT100304PDFR-F04										●		6.68	10.5	3.47	0.4	
	APGT1604PDFR-G2										●		9.525	16.5	4.76	-	
	APGT160408PDFR-F02										●		9.525	16.4	4.76	0.8	
	APHT1003PDFR-F03										●		6.68	10.4	3.47	0.8	
	APKT060204-M02					●							3.7	6.45	2.38	0.4	
	APKT060204-MT										●	●	3.7	6.45	2.38	0.4	
	APKT100304PDER-M04					●							6.68	10.5	3.47	0.4	
	APKT100308PDER-M04					●							6.68	10.5	3.47	0.8	
	APKT1003PDER-M05						●						6.68	10.5	3.5	-	
	APKT1604PDER-M05						●						9.525	16.4	4.76	0.8	
	★ APKT160408-M01	●	●										9.525	16.6	4.76	0.8	
	APKT160408PDER-M02			●		●							9.525	16.4	4.76	0.8	
	APMT113508PDER-M04				●	●							6.35	11	3.5	0.8	
	APMT1135PDER-M04					●							6.35	11	3.5	0.4	
	APMT1604PDER-M04				●	●							9.525	16.5	4.76	0.8	

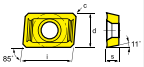
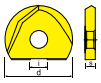
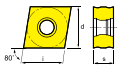
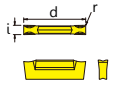
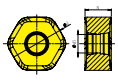
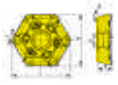
- MT 鋁合金專用 MT: Applicable to Aluminum ★ 推薦 Recommended NEW 新品 New Product

• 長度單位 Unit of Length (mm)

銑削刀片 MILLING INSERTS

KOVIT

ISO 分類														切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	P	合金鋼 Alloyed Steels	○	○		○								
	M	不鏽鋼 Stainless Steels	○	○	○	○	○	○						
	K	鑄鐵 Cast Iron	○			○								
	N	鋁及鋁合金 Aluminum&Al							○					
	S	高溫合金 Refractory Alloys					○							
	H	高硬度材 Hard Material	○											

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain						超微粒硬質合金 Micro grain carbide alloy						尺寸 (mm)				圖形 Drawing
		CHF						HF						Size				
		OM4010	OM4025	OM5035	RM4025	RM5035	RM4125	OM5005						d	i	s	r	
	APMT1503-R01	●	●											15	9.52	3.18	0.8	
	BR08S	●	●					●						8	3	2	-	
	BR10S	●	●					●						10	4	2.5	-	
	BR12S	●	●					●						12	5	2.5	-	
	BR16S	●	●					●						16	5	3	-	
	BR20S	●	●					●						20	5	3	-	
	BR25S	●	●					●						25	6	4	-	
	BR30S	●	●					●						30	8	5	-	
	BR32S	●	●					●						32	8	5	-	
	CNEX120612-M01	●	●											12.7	-	6.35	1.2	
	CNEX150812-M01	●	●											15	-	8	1.2	
	DGN2202-J1				●									19.8	2.2	-	0.2	
	DGN3102-J1				●									20.1	3.1	-	0.2	
	NEW HNGX0604ANEN-M01		●	●				●						10.5	-	5.2	-	
	NEW HPKT0604AZER-M05					●	●							16.3		4.5	-	

NEW 新品 New Product

• 長度單位 Unit of Length (mm)

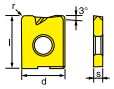
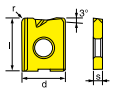
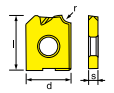
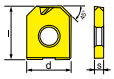
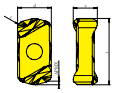
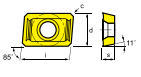
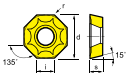
銑削刀片 MILLING INSERTS

KOVIT

ISO 分類														
P	合金鋼 Alloyed Steels	○	○	○										
M	不鏽鋼 Stainless Steels		○	○										
K	鑄鐵 Cast Iron	○	○	○										
N	鋁及鋁合金 Aluminum&Al													
S	高溫合金 Refractory Alloys													
H	高硬度材 Hard Material		○											

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain						超微粒硬質合金 Micro grain carbide alloy						尺寸 (mm)				圖形 Drawing
		CHF						HF						Size				
		RM1125	OM4010	OM4025				OM5005						d	i	s	r	
	LC1210		●											12.0	14.0	2.50	1.0	
	LC1220		●											12.0	14.0	2.50	2.0	
	LC1230		●											12.0	14.0	2.50	3.0	
	LC1210-F		●											12.0	14.0	2.50	1.0	
	LC1220-F		●											12.0	14.0	2.50	2.0	
	LC1230-F		●											12.0	14.0	2.50	3.0	
	LC1210-RE		●											12.0	14.0	2.50	1.0	
	LC1220-RE		●											12.0	14.0	2.50	2.0	
	LC1230-RE		●											12.0	14.0	2.50	3.0	
	LC1245-CH		●	●										12.0	14.0	2.50	-	
	LC1260-CH		●	●										12.0	14.0	2.50	-	
	NEW LNMU0303ZER-MJ	●												6	11.9	4.3	1.2	
	LPMT1504-R01			●										12.7	15.88	4.76	-	
	ODMT040408			●										12.7	4.6	4.76	0.8	

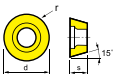
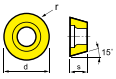
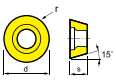
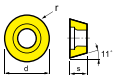
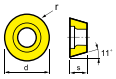
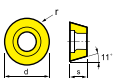
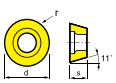
NEW 新品 New Product

• 長度單位 Unit of Length (mm)

銑削刀片 MILLING INSERTS

KOVIT

ISO 分類															切削狀態 Cutting Condition :
	P	合金鋼 Alloyed Steels	○	○	○		○	○	○							● 連續切削 Continuous Cutting
	M	不鏽鋼 Stainless Steels		○	○		○	○	○							○ 一般切削 General Cutting
	K	鑄鐵 Cast Iron					○	○								■ 斷續切削 Interrupted Cutting
	N	鋁及鋁合金 Aluminum&Al										■	■	■		
	S	高溫合金 Refractory Alloys														
	H	高硬度材 Hard Material	○				○									

形狀 Shape	規格 Spec.	鍍層硬質合金 Carbide alloy				鍍層超微粒 Layer coated micro grain					超微粒硬質合金 Micro grain carbide alloy				尺寸 (mm)				圖形 Drawing
		HC				CHF					HF				Size				
		OM0125	OM1115	OM2115		OM4010	OM4025	RM4130			OM5005	OM5060	RM5005		d	i	s	r	
	RDET1003MOF-F01										●				10	-	3.18	5	
	RDET1604MOF-F01										●	●			16	-	4.76	8	
	RDGT1003MO-F01												●		10	-	3.18	5	
	RDGT1604MO-F01												●		16	-	4.76	8	
	RDKW0501MO	●		●											5	-	1.51	2.5	
	RDKW0702MO	●	●	●											7	-	2.38	3.5	
	RDKW1003MO		●	●											10	-	3.18	5	
	RDMT0802MOTN							●							8	-	2.38	4	
	RDMT10T3MOTN							●							10	-	3.97	5	
	RDMT1204MOTN							●							12	-	4.76	6	
	RDMT1604MOTN							●							16	-	4.76	8	
	RPET1204MOE-M01					●	●				●				12	-	4.76	6	
	RPMT10T3MON							●							10	-	3.97	5	
	RPMT1204MON							●							12	-	4.76	6	
	RPMT1204MO-M01			●											12	-	4.76	6	
	RPMW1003MON							●							10	-	3.18	5	

• 長度單位 Unit of Length (mm)

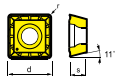
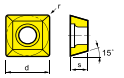
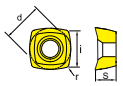
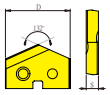
銑削刀片 MILLING INSERTS

KOVIT

ISO 分類														
	P	合金鋼 Alloyed Steels	○	○	○	○	○							
	M	不鏽鋼 Stainless Steels	○	○	○	○	○	○						
	K	鑄鐵 Cast Iron	○	○	○	○								
	N	鋁及鋁合金 Aluminum&Al								■	■			
	S	高溫合金 Refractory Alloys												
	H	高硬度材 Hard Material	○											

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain							超微粒硬質合金 Micro grain carbide alloy					尺寸 (mm)				圖形 Drawing
		CHF							HF					Size				
		OM4010	OM4025	OM4125	RM4025	RM3125			OM5005	OM5060				d	i	s	r	
	NEW SBGT050202-F01		●	●					●					4.85	-	2	0.2	
	SDMT090308-R01	●	●											9.52	-	3.18	0.8	
	SDET090408EDER-M01	●	●											9.52	9.52	4.76	0.8	
	NEW SDMT090408EDER-M04				●									9.52	9.52	4.76	0.8	
	SDET120508ER-M01	●	●											12.7	12.7	5.56	0.8	
	NEW SDMT120508EDER-M04				●									12.7	12.7	5.56	0.8	
	NEW SDZ13003		●			●								13	-	3.18	-	
	NEW SDZ14003		●			●								14	-	3.18	-	
	NEW SDZ15003		●			●								15	-	3.18	-	
	NEW SDZ16003		●			●								16	-	3.18	-	
	NEW SDZ17003		●			●								17	-	3.18	-	
	NEW SDZ180T3		●			●								18	-	3.97	-	
	NEW SDZ190T3		●			●								19	-	3.97	-	
	NEW SDZ200T3		●			●								20	-	3.97	-	
	NEW SDZ210T3		●			●								21	-	3.97	-	
	NEW SDZ220T3		●			●								22	-	3.97	-	
	NEW SDZ230T3		●			●								23	-	3.97	-	
	NEW SDZ240T3		●			●								24	-	3.97	-	
	NEW SDZ25004		●			●								25	-	4.76	-	
	NEW SDZ26004		●			●								26	-	4.76	-	
	NEW SDZ27004		●			●								27	-	4.76	-	
	NEW SDZ28004		●			●								28	-	4.76	-	
	NEW SDZ29004		●			●								29	-	4.76	-	
	NEW SDZ30004		●			●								30	-	4.76	-	
	NEW SDZ31004		●			●								31	-	4.76	-	
	NEW SDZ32004		●			●								32	-	4.76	-	
	NEW SDZ33004		●			●								33	-	4.76	-	
	NEW SDZ34004		●			●								34	-	4.76	-	

NEW 新品 New Product

• 長度單位 Unit of Length (mm)

銑削刀片 MILLING INSERTS

KOVIT

ISO 分類																
P	合金鋼 Alloyed Steels	○	○	○	○		●		○	○						
M	不鏽鋼 Stainless Steels	○	○	○	○	○										
K	鑄鐵 Cast Iron	○	○		○						○					
N	鋁及鋁合金 Aluminum&Al											■	■	■	■	
S	高溫合金 Refractory Alloys															
H	高硬度材 Hard Material	○														

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain					瓷金鍍層 Cermet		硬質合金 Carbide alloy			超微粒硬質合金 Micro grain carbide alloy				尺寸 (mm) Size				圖形 Drawing
		CHF					HT		HW			HF								
		OM4010	OM4025	RM2140	RM4025	RM4230	OM1205		TSP20	TSP25	TSK10	OM5005	OM5060	RM5005	GH1	d	i	s	r	
	SEET13T3AGFN-F01													●		13.4	-	3.97	2.55	
	SEHT1204AFFN												●		●	12.7	-	4.76	-	
	★ SEHT1204AFEN-M01	●	●													12.7	-	4.76	Facet	
	SEHT1204AFFN-M02					●										12.7	-	4.76	Facet	
	SEKN1203AFR									●	●					12.7	-	3.18	-	
	SEKN1504AFR								●		●					15.875	-	4.76	-	
	SEKT1204AFTN				●											12.7	-	4.76	-	
	SEKW1204AFN		●				●									12.7	-	4.76	-	
	SEMT13T3AGEN-M02			●	●											13.4	-	3.97	2.55	
	SPET060308ER-M01	●	●									●				7	7	3.18	0.8	
	NEW SPMT060308EDER-M04				●											7	7	3.18	0.8	
	SPET120408-M02											●				12.7	-	4.76	0.8	

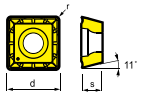
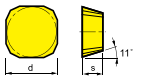
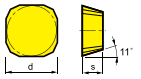
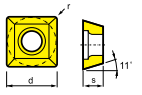
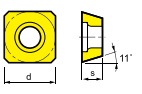
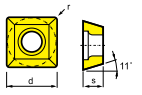
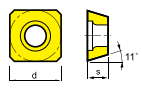
★ 推薦 Recommended NEW 新品 New Product

• 長度單位 Unit of Length (mm)

銑削刀片 MILLING INSERTS

KOVIT

ISO 分類															切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	P	合金鋼 Alloyed Steels	○	○	○		○					○	○		
	M	不鏽鋼 Stainless Steels	○	○	○										
	K	鑄鐵 Cast Iron	○	○	○	○								○	
	N	鋁及鋁合金 Aluminum&Al						■	■						
	S	高溫合金 Refractory Alloys													
	H	高硬度材 Hard Material	○												

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain						超硬微粒 Micro grain carbide alloy			硬質合金 Carbide alloy			尺寸 (mm) Size				圖形 Drawing
		CHF						HF			HW							
		OM4010	OM4025	RM4025	RM3130	RM4030		RM5005	RM5060		TSP20	TSP25	TSK10	d	i	s	r	
	SPGT050204-M02					●			●					5	-	2.38	0.4	
	SPGT060204-M02					●			●					6	-	2.38	0.4	
	SPGT07T308-M02					●			●					7.94	-	3.97	0.8	
	SPGT090408-M02					●			●					9.8	-	4.3	0.8	
	SPGT110408-M02					●			●					11.5	-	4.76	0.8	
	SPGT140512-M02					●			●					14.3	-	5.2	1.2	
	SPK43C2SR										●		●	12.7	-	4.76	-	
	SPK53C2SR										●		●	15.88	-	4.76	-	
	SPKN1203EDR											●	●	12.7	-	3.18	-	
	★ SPMT050204-M03			●	●									5	-	2.38	0.4	
	★ SPMT060204-M03			●	●									6	-	2.38	0.4	
	★ SPMT07T308-M03			●	●									7.94	-	3.97	0.8	
	★ SPMT090408-M03			●	●									9.8	-	4.3	0.8	
	★ SPMT110408-M03			●	●									11.5	-	4.76	0.8	
	★ SPMT140512-M03			●	●									14.3	-	5.2	1.2	
	★ SPMT050204-MT							●	●					5	-	2.38	0.4	
	★ SPMT060204-MT							●	●					6	-	2.38	0.4	
	★ SPMT07T308-MT							●	●					7.94	-	3.97	0.8	
	★ SPMT090408-MT							●	●					9.8	-	4.3	0.8	
	★ SPMT110408-MT							●	●					11.5	-	4.76	0.8	
	★ SPMT140512-MT							●	●					14.3	-	5.2	1.2	
	SPMT090308-M01			●										9.8	-	3.18	0.8	
	SPMT120408-R01			●										12.7	-	4.76	0.8	
	SPMW090304	●	●											9.525	-	3.18	0.4	

- MT 鋁合金專用 MT: Applicable to Aluminum ★ 推薦 Recommended

• 長度單位 Unit of Length (mm)

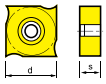
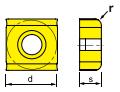
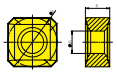
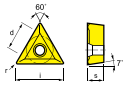
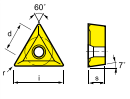
銑削刀片 MILLING INSERTS

KOVIT

ISO 分類											
	P	合金鋼 Alloyed Steels	○	○		○					
	M	不鏽鋼 Stainless Steels	○	○	○		○				
	K	鑄鐵 Cast Iron	○	○	○						
	N	鋁及鋁合金 Aluminum&Al							■	■	
	S	高溫合金 Refractory Alloys					○				
	H	高硬度材 Hard Material	○								

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain						超微粒硬質合金 Micro grain carbide alloy			尺寸 (mm) Size				圖形 Drawing
		CHF						HF							
		OM4010	OM4025	RM3130	RM4025	RM535		OM5005	OM5060		d	i	s	r	
	SNFX1102	●	●					●			11	-	2.3	-	
	SNFX1103	●	●					●			11	-	2.7	-	
	SNFX1203	●	●					●			12.7	-	3.2	-	
	SNFX1205	●	●					●			12.7	-	5.4	-	
	SNFX1207	●	●					●			12.7	-	7	-	
	NEW SNFX120305	●	●					●			12.7	-	3.2	0.5	
	NEW SNFX120310	●	●					●			12.7	-	3.2	1	
	NEW SNFX120315	●	●					●			12.7	-	3.2	1.5	
	NEW SNFX120505	●	●					●			12.7	-	5.4	0.5	
	NEW SNFX120510	●	●					●			12.7	-	5.4	1	
	NEW SNFX120515	●	●					●			12.7	-	5.4	1.5	
	NEW SNFX120516	●	●					●			12.7	-	5.4	1.6	
	NEW SNFX120705	●	●					●			12.7	-	7	0.5	
	NEW SNFX120710	●	●					●			12.7	-	7	1	
	NEW SNFX120715	●	●					●			12.7	-	7	1.5	
	NEW SNMU1206ANEN-M01			●	●						12.7	-	6.35	-	
	TCEX100302E-FR	●	●					●	●		5.8	10	3.18	0.2	
	★ TCEX100304E-FR	●	●					●	●		5.8	10	3.18	0.4	
	TCEX100302E-AR	●	●								5.8	10	3.18	0.2	
	TCEX100304E-AR	●	●			●					5.8	10	3.18	0.4	
	NEW TCEX100304E-MR					●					5.8	10	3.18	0.4	
	TCEX13T302E-FR	●	●					●	●		7.94	13.4	3.97	0.2	
	★ TCEX13T304E-FR	●	●					●	●		7.94	13.4	3.97	0.4	
	TCEX13T302E-AR	●	●								7.94	13.4	3.97	0.2	
	TCEX13T304E-AR	●	●								7.94	13.4	3.97	0.4	
	NEW TCEX13T304E-MR					●					7.94	13.4	3.97	0.4	
	NEW TCEX13T304E-CR					●					7.94	13.4	3.97	0.4	

- MR 鈦合金專用 MR: Applicable to Titanium - CR 鑽床倒角刀專用 CR: Applicable to Deburring And Chamfering Cutter

★ 推薦 Recommended NEW 新品 New Product

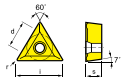
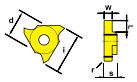
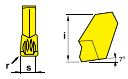
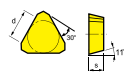
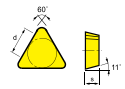
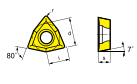
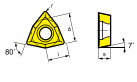
• 長度單位 Unit of Length (mm)

CHAIN HEADWAY

銑削刀片 MILLING INSERTS

KOVIT

ISO 分類														
P	合金鋼 Alloyed Steels	○	○	○		○	○	○						切削狀態 Cutting Condition :
M	不鏽鋼 Stainless Steels	○	○		○									● 連續切削 Continuous Cutting
K	鑄鐵 Cast Iron	○	○						○					○ 一般切削 General Cutting
N	鋁及鋁合金 Aluminum&Al									■	■	○		■ 斷續切削 Interrupted Cutting
S	高溫合金 Refractory Alloys				○									
H	高硬度材 Hard Material	○												

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain					硬質合金 Carbide alloy			超微粒硬質合金 Micro grain carbide alloy			尺寸 (mm)						圖形 Drawing
		CHF					HW			HF			Size						
		OM4010	OM4025	PTE30	RM535	RM4025	TSP20	TSP25	TSK10	OM5005	OM5060	GH05	W	L	d	i	s	r	
	TCEX16T304E-FR	●	●							●	●				9.52	16.5	3.97	0.4	
	★ TCEX16T308E-FR	●	●							●	●				9.52	16.5	3.97	0.8	
	TCMX16T304E-AR	●	●												9.52	16.5	3.97	0.4	
	TCMX16T308E-AR	●	●												9.52	16.5	3.97	0.8	
	NEW TCEX16T308E-MR				●										9.52	16.5	3.97	0.8	
	TGAR4125	●	●										1.25	1.2	12.70	17.59	4.76	0.20	
	TGAR4150	●	●										1.50	3	12.70	17.59	4.76	0.20	
	TGAR4175	●	●										1.75	3	12.70	17.59	4.76	0.20	
	TGAR4200	●	●										2.00	3	12.70	17.59	4.76	0.20	
	TGAR4235	●	●										2.35	3	12.70	17.59	4.76	0.20	
	TGAR4250	●	●										2.50	4.5	12.70	17.59	4.76	0.30	
	TGAR4300	●	●										3.00	4.5	12.70	17.59	4.76	0.30	
	TGAR4350	●	●										3.50	4.5	12.70	17.59	4.76	0.30	
	TGAR4400	●	●										4.00	4.5	12.70	17.59	4.76	0.40	
	TGTN3	●	●			●				●					-	11.3	3.1	0.2	
	TGTN4	●	●							●					-	11.3	4.1	0.25	
	TPKN1603PDR							●	●						9.525	-	3.18	-	
	TPKN2204PDR						●		●						12.7	-	4.76	-	
	TPMN160308							●	●						9.525	-	3.18	0.8	
	TPMN220412						●		●						12.7	-	4.76	1.2	
	WCKT030208											●			5.56	3.8	2.38	0.8	
	WCKT040208											●			6.35	4.3	2.38	0.8	
	WCKT050308											●			7.94	5.4	3.18	0.8	
	WCKT06T308											●			9.525	6.5	3.97	0.8	
	WCKT080408											●			12.7	8.7	4.76	0.8	
	WCMX030208-M01			●											5.56	3.8	2.38	0.8	
	WCMT040208-M01			●											6.35	4.3	2.38	0.8	
	WCMT050308-M01			●											7.94	5.4	3.18	0.8	
	WCMT06T308-M01			●											9.525	6.5	3.97	0.8	
	WCMX080412-M01			●											12.7	8.7	4.76	1.2	

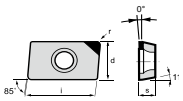
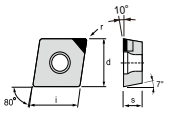
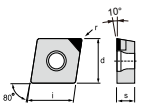
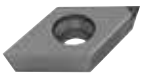
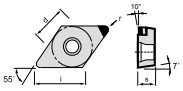
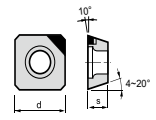
- MR 鈦合金專用 MR : Applicable to Titanium ★ 推薦 Recommended NEW 新品 New Product

• 長度單位 Unit of Length (mm)

鑽石刀片
POLYCRYSTALLINE DIAMOND INSERTS

KOVIT

ISO 分類								切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	P	合金鋼 Alloyed Steels						
	M	不鏽鋼 Stainless Steels						
	K	鑄鐵 Cast Iron						
	N	鋁及鋁合金 Aluminum&Al	●■	●	■			
	S	高溫合金 Refractory Alloys						
	H	高硬度材 Hard Material				○		

形狀 Shape	規格 Spec.	聚晶鑽石 Polycrystalline diamond DP					尺寸 (mm) Size				圖形 Drawing
		PCD010	PCD020	PCD100	PCD250		d	i	s	r	
	APGW160404PDFR-F01		●	●			9.525	16.5	4.76	0.4	
	APGW1604PDFR-F01		●	●			9.525	16.5	4.76	-	
	CCGW060202FN-F01		●	●			6.35	6.5	2.38	0.2	
	CCGW060204FN-F01		●	●			6.35	6.5	2.38	0.4	
	CCGW09T304FN-F01		●	●			9.525	9.7	3.97	0.4	
	CCGW120404FN-F01		●	●			12.7	12.9	4.76	0.4	
	CNGA120404FN-F01		●	●			12.7	12.9	4.76	0.4	
	DCGW070202FN-F01		●	●			6.35	7.8	2.38	0.2	
	DCGW070204FN-F01		●	●			6.35	7.8	2.38	0.4	
	DCGW11T302FN-F01		●	●			9.525	11.6	3.97	0.2	
	DCGW11T304FN-F01		●	●			9.525	11.6	3.97	0.4	
	SEGW120404AFFN-F01		●	●			12.7	-	4.76	0.4	
	SEGW1204AFFN-F01		●	●			12.7	-	4.76	-	

• 長度單位 Unit of Length (mm)

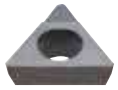
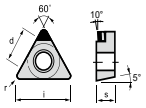
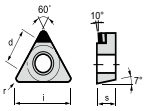
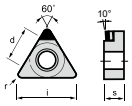
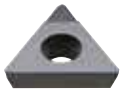
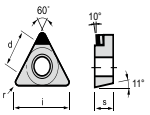
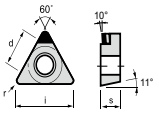
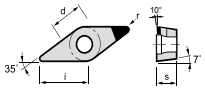
鑽石刀片
POLYCRYSTALLINE DIAMOND INSERTS

KOVIT

ISO 分類							
	P	合金鋼 Alloyed Steels					
	M	不鏽鋼 Stainless Steels					
	K	鑄鐵 Cast Iron					
	N	鋁及鋁合金 Aluminum&Al	●■	●	■	○	
	S	高溫合金 Refractory Alloys					
	H	高硬度材 Hard Material					

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	聚晶鑽石 Polycrystalline diamond DP					尺寸 (mm) Size				圖形 Drawing
		PCD010	PCD020	PCD100	PCD250		d	i	s	r	
	TBGW060102FN-F01		●	●			3.97	6.4	1.59	0.2	
	TBGW060104FN-F01		●	●			3.97	6.4	1.59	0.4	
	TCGW110202FN-F01		●	●			6.35	11	2.38	0.2	
	TCGW110204FN-F01		●	●			6.35	11	2.38	0.4	
	TCGW16T304FN-F01		●	●			9.525	16.5	3.97	0.4	
	TNGA160402FN-F01		●	●			9.525	16.5	4.76	0.2	
	TNGA160404FN-F01		●	●			9.525	16.5	4.76	0.4	
	TPGW090202FN-F01		●	●			5.56	9.6	2.38	0.2	
	TPGW090204FN-F01		●	●			5.56	9.6	2.38	0.4	
	TPGW110302FN-F01		●	●			6.35	11	3.18	0.2	
	TPGW110304FN-F01		●	●			6.35	11	3.18	0.4	
	TPGW080202FN-F01		●	●			4.76	8.2	2.38	0.2	
	TPGW080204FN-F01		●	●			4.76	8.2	2.38	0.4	
	VCGW160402FN-F01		●	●			9.525	16.5	4.76	0.2	
	VCGW160404FN-F01		●	●			9.525	16.5	4.76	0.4	
	VCGW160408FN-F01		●	●			9.525	16.5	4.76	0.8	

• 長度單位 Unit of Length (mm)

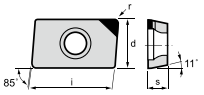
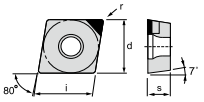
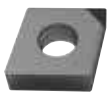
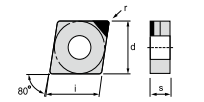
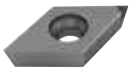
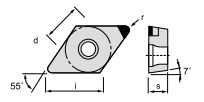
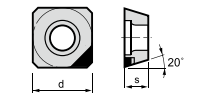
氮化硼刀片
CUBIC BORON NITRIDE INSERTS

KOVIT

ISO 分類							
P	合金鋼 Alloyed Steels						
M	不鏽鋼 Stainless Steels						
K	鑄鐵 Cast Iron			■			
N	鋁及鋁合金 Aluminum&Al						
S	高溫合金 Refractory Alloys						
H	高硬度材 Hard Material	●	■				

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	立方氮化硼 CBN					尺寸 (mm)				圖形 Drawing
		CBN					Size				
		CBN250	CBN300	CBN400			d	i	s	r	
	APGW1604PDER	●					9.525	16.5	4.76	-	
	APGW1604PDFR	●					9.525	16.5	4.76	-	
	APGW1604PDTR	●					9.525	16.5	4.76	-	
	APGW1604PDSR	●					9.525	16.5	4.76	-	
	CCGW060202SN	●					6.35	6.5	2.38	0.2	
	CCGW060204SN	●					6.35	6.5	2.38	0.4	
	CCGW060208SN	●					6.35	6.5	2.38	0.8	
	CCGW09T302SN	●					9.525	9.7	3.97	0.2	
	CCGW09T304SN	●					9.525	9.7	3.97	0.4	
	CCGW09T308SN	●					9.525	9.7	3.97	0.8	
	CCGW120404SN	●					12.7	12.9	4.76	0.4	
	CNGA120404SN	●					12.7	12.9	4.76	0.4	
	CNGA120408SN	●					12.7	12.9	4.76	0.8	
	DCGW070202SN	●					6.35	7.8	2.38	0.2	
	DCGW070204SN	●					6.35	7.8	2.38	0.4	
	DCGW070208SN	●					6.35	7.8	2.38	0.8	
	DCGW11T302SN	●					9.525	11.6	3.97	0.2	
	DCGW11T304SN	●					9.525	11.6	3.97	0.4	
	SEGW1204AFSN	●					12.7	-	4.76	-	
	SEGW1204AFTN	●					12.7	-	4.76	-	
	SEGW1204AFEN	●					12.7	-	4.76	-	
	SEGW1204AFFN	●					12.7	-	4.76	-	

• 長度單位 Unit of Length (mm)

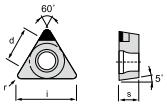
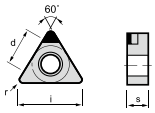
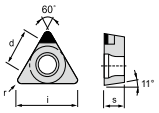
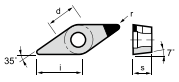
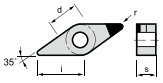
氮化硼刀片
CUBIC BORON NITRIDE INSERTS

KOVIT

ISO 分類							
P	合金鋼 Alloyed Steels						
M	不鏽鋼 Stainless Steels						
K	鑄鐵 Cast Iron			■			
N	鋁及鋁合金 Aluminum&Al						
S	高溫合金 Refractory Alloys						
H	高硬度材 Hard Material	●	■				

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	立方氮化硼 CBN CBN					尺寸 (mm) Size				圖形 Drawing
		CBN250	CBN300	CBN400			d	i	s	r	
	TBGW060104SN	●					3.97	6.4	1.59	0.4	
	TNGA160402SN	●					9.525	16.5	4.76	0.2	
	TNGA160404SN	●					9.525	16.5	4.76	0.4	
	TNGA160408SN	●					9.525	16.5	4.76	0.8	
	TPGW080202SN	●					4.76	8.2	2.38	0.2	
	TPGW080204SN	●					4.76	8.2	2.38	0.4	
	TPGW090202SN	●					5.56	9.6	2.38	0.2	
	TPGW090204SN	●					5.56	9.6	2.38	0.4	
	TPGW110302SN	●					6.35	11	3.18	0.2	
	TPGW110304SN	●					6.35	11	3.18	0.4	
	TPGW110308SN	●					6.35	11	3.18	0.8	
	TPGW16T302SN	●					9.525	16.5	3.97	0.2	
	TPGW16T304SN	●					9.525	16.5	3.97	0.4	
	VCGW110302SN	●					6.35	11	3.18	0.2	
	VCGW110304SN	●					6.35	11	3.18	0.4	
	VCGW160402SN	●					9.525	16.5	4.76	0.2	
	VCGW160404SN	●					9.525	16.5	4.76	0.4	
	VCGW160408SN	●					9.525	16.5	4.76	0.8	
	VNGA160404SN	●					9.525	16.5	4.76	0.4	
	VNGA160408SN	●					9.525	16.5	4.76	0.8	

• 長度單位 Unit of Length (mm)

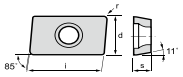
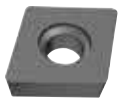
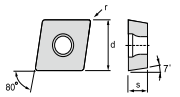
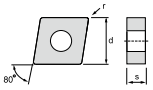
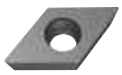
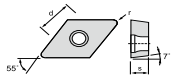
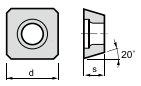
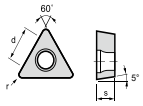
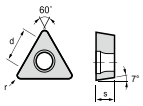
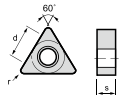
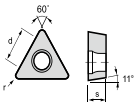
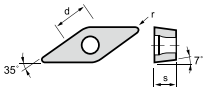
毛胚刀片 BLANK INSERTS

KOVIT

ISO 分類											
	P	合金鋼 Alloyed Steels									
	M	不鏽鋼 Stainless Steels									
	K	鑄鐵 Cast Iron									
	N	鋁及鋁合金 Aluminum&Al									
	S	高溫合金 Refractory Alloys									
	H	高硬度材 Hard Material									

切削狀態 Cutting Condition :

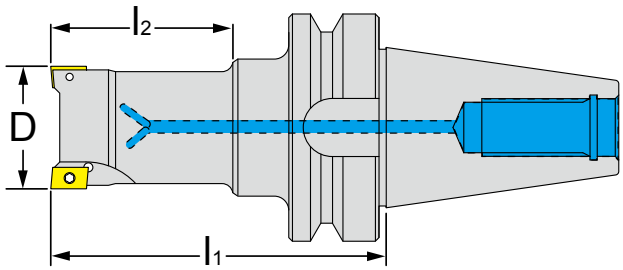
● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	硬質合金 Carbide Alloy HC								尺寸 (mm) Size			圖形 Drawing
		BM								d	i	s	
	APMW1003	●								7.0	10.85	3.58	
	APMW1604	●								9.9	16.8	5.1	
	CCMW0602	●								6.85	-	2.78	
	CCMW09T3	●								9.9	-	4.27	
	CCMW1204	●								13.1	-	5.1	
	CNMW1204	●								13.1	-	5.1	
	DCMW0702	●								6.85	-	2.78	
	DCMW11T3	●								9.9	-	4.27	
	SEMW1204	●								13.1	-	5.1	
	TBMW0601	●								4.27	-	2.0	
	TCMW0902	●								5.96	-	2.78	
	TCMW1102	●								6.75	-	2.78	
	TCMW16T3	●								9.9	-	4.27	
	TNMW1604	●								9.9	-	5.1	
	TPMW0802	●								5.1	-	2.78	
	TPMW0902	●								5.96	-	2.78	
	TPMW1103	●								6.75	-	3.58	
	TPMW16T3	●								9.9	-	4.27	
	VCMW1103	●								6.75	-	3.58	
	VCMW1604	●								9.9	-	5.1	

• 長度單位 Unit of Length (mm)

SBT/MAS 剛體模霸刀桿
SBT/MAS CORNER ROUNGING END MILL

KOVIT



特點 Feature

- 整體式結構
- 剛性增加
- 加工效率提升
- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

-Integrated structure.
-Improved rigidity.
-Advanced efficiency.
-Made of anti-vibration tool steel
-After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	l_1	l_2	D	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
SBT30-MAS16AP10-65-2T-C	65	28	16	2	AP..1003	0.60
SBT30-MAS20AP10-65-3T-C	65	28	20	3	AP..1003	0.56
SBT30-MAS25AP10-65-4T-C	65	33	25	4	AP..1003	0.60
SBT30-MAS32AP10-65-5T-C	65	40	32	5	AP..1003	0.70
SBT40-MAS16AP10-90-2T-C	90	35	16	2	AP..1003	1.27
SBT40-MAS20AP10-90-3T-C	90	40	20	3	AP..1003	1.28
SBT40-MAS25AP10-90-4T-C	90	53	25	4	AP..1003	1.34
SBT40-MAS32AP10-90-5T-C	90	55	32	5	AP..1003	1.40
SBT40-MAS40AP10-90-6T-C	90	60	40	6	AP..1003	1.60

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
AP..1003	M2.5-6.45-3.7-43	T8	1.2

• 長度單位 Unit of Length (mm)

SBT/MAS 剛體模霸刀桿
SBT/MAS CORNER ROUNGING END MILL

KOVIT

Fig1.

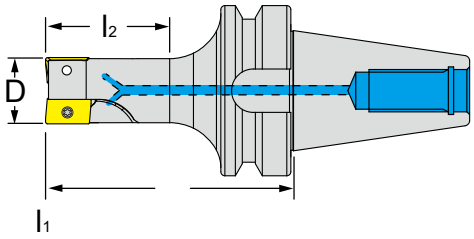
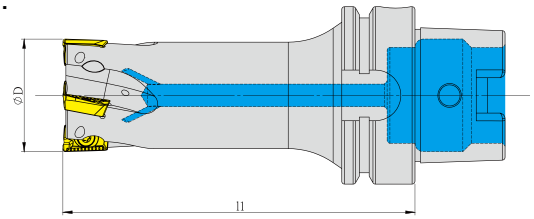


Fig2.



特點 Feature

- 整體式結構
- 剛性增加
- 加工效率提升
- 採用抗震性工具鋼材質
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-Integrated structure.
-Improved rigidity.
-Advanced efficiency.
-Made of anti-vibration tool steel
-After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	l_1	l_2	D	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
SBT40-MAS25AP16-90-2T-C	90	45	25	2	AP..1604	1.34
SBT40-MAS32AP16-90-3T-C	90	45	32	3	AP..1604	1.44
SBT40-MAS40AP16-90-4T-C	90	45	40	4	AP..1604	1.60
SBT50-MAS25AP16-90-2T-C	90	40	25	2	AP..1604	4.02
SBT50-MAS32AP16-90-3T-C	90	40	32	3	AP..1604	4.06
SBT50-MAS40AP16-90-4T-C	90	40	40	4	AP..1604	4.12
HSK63A-MAS25AP16-90-2T-C	90	-	25	2	AP..1604	-
HSK63A-MAS32AP16-90-3T-C	90	-	32	3	AP..1604	-
HSK63A-MAS40AP16-125-4T-C	125	-	40	4	AP..1604	-
HSK100A-MAS25AP16-90-2T-C	90	-	25	2	AP..1604	-
HSK100A-MAS32AP16-90-3T-C	90	-	32	3	AP..1604	-
HSK100A-MAS40AP16-125-4T-C	125	-	40	4	AP..1604	-

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
AP..1604	M4-10-5.7-60	T15	3.0

• 長度單位 Unit of Length (mm)

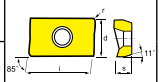
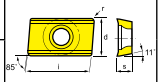
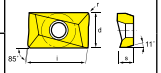
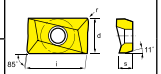
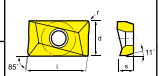
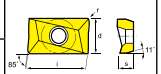
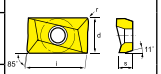
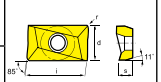
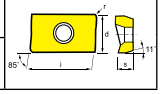
SBT/MAS 剛體模霸刀桿
SBT/MAS CORNER ROUNGING END MILLS

KOVIT

ISO 分類													
	P	合金鋼 Alloyed Steels	○	○		○							
	M	不鏽鋼 Stainless Steels	○			○							
	K	鑄鐵 Cast Iron	○		○								
	N	鋁及鋁合金 Aluminum&Al							■	■	○	■	
	S	高溫合金 Refractory Alloys					○						
	H	高硬度材 Hard Material											

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain						超微粒硬質合金 Micro grain cemented carbide					尺寸 (mm)				圖形 Drawing
		CHF						HF					Size				
		OM4025	OM4025N	RM3130	RM4130	RM535		GH05	OM5005	OM5060	RM5005		d	i	s	r	
	★ APEX100304PDFR-F01								●	●			6.68	10.5	2.38	0.4	
	★ APEX1604PDFR-F01								●	●			9.525	16.4	4.76	-	
	★ APEX160400PDFR-F01								●	●			9.525	16.4	4.76	-	
	★ APEX160404PDFR-F01								●	●			9.525	16.4	4.76	0.4	
	★ APEX160408PDFR-F01								●	●			9.525	16.4	4.76	0.8	
	APEX1604PDFR-701							●					9.525	16.4	4.76	0.2	
	APGT100304PDFR-F04										●		6.68	10.5	2.38	0.4	
	APGT160408PDFR-F02										●		9.525	16.4	4.76	0.8	
	APHT1003PDFR-F03										●		6.68	10.4	3.47	0.8	
	APKT100304PDER-M04				●								6.68	10.5	2.38	0.4	
	APKT1003PDER-M05					●							6.68	10.5	3.47	-	
	APKT1604PDER-M05					●							9.525	16.4	4.76	0.4	
	★ APKT160408-M01	●	●										9.525	16.6	4.76	0.8	
	APKT160408PDER-M02			●	●								9.525	16.4	4.76	0.8	

★ 推薦 Recommended

• 長度單位 Unit of Length (mm)

CHAIN HEADWAY

SBT/MAS 剛體模霸刀桿
SBT/MAS CORNER ROUNGING END MILLS

KOVIT

AP_10.16 切削條件數據表 Cutting Parameter

	被加工材質 Machining Materials	刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切 深 Ap(mm)
P	低合金鋼 Low-Alloy Steels	OM4025	220~300	0.14~0.24	1.0~2.0
		OM4025N	220~300	0.14~0.24	1.0~2.0
		RM4130	60~300	0.10~0.25	1.0~2.0
	合金鋼 Alloyed Steels	OM4025	100~195	0.12~0.20	1.0~2.0
		RM4130	60~300	0.10~0.25	1.0~2.0
M	不鏽鋼 Stainless Steels	OM4025	180~230	0.15~0.35	0.5~1.5
		RM4130	120~160	0.10~0.25	0.5~1.5
K	鑄鐵 Cast Iron	OM4025	200~300	0.06~0.30	1.5~3.0
		RM3130	200~300	0.06~0.30	1.5~3.0
N	鋁合金 Aluminum&Al	OM5005	400~850	0.05~0.30	1.5~3.0
		OM5060	400~850	0.05~0.30	1.5~3.0
		RM5005	400~850	0.05~0.30	1.5~3.0
		GH05	300~700	0.04~0.25	1.5~3.0
S	高溫合金 Refractory Alloys	RM535	100~195	0.12~0.20	1.0~2.0

主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑)

Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速

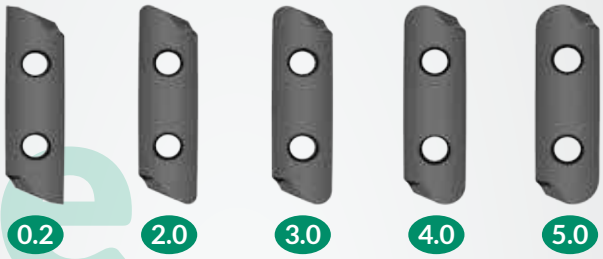
Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

AECX32T3

長刃鋁合金颶風刀片

Long Edge Aluminum Milling Insert



Feature

- 專為鋁合金及非鐵金屬腔體銑削和曲面銑削加工設計。
  Specially designed for aluminum alloy and non-ferrous metal cavity milling and surface milling processing.

- 可進行大切深，粗精加工切削、最大切深可達30mm。
  Larger cutting depth is used for both roughing and finishing.
  Max. cutting depth is 30mm.

- 此刀片提供有5種規格刀尖圓弧半徑
  The insert is available with five different nose radius.

- 刀片採用高仰角切削角度設計、刀片整體加工採全研磨製程
  The insert is fully grinded wtih high elevation cutting angle design.

長刃型颶風刀具系列

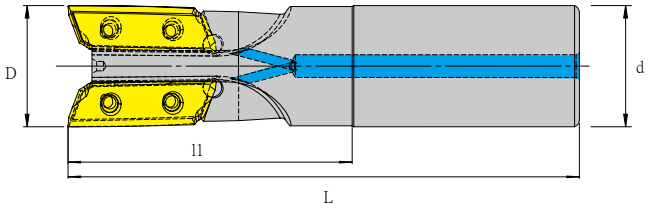
Hurricane Type Milling Cutter Series

- 為了能高速切削加工使用、銑刀具本體設計高剛性及制震功能設計。
  Designed for high rigidity and anti-vibration for high speed machining.

- 銑刀具設計中心出水設計可使排屑順暢並提高進給率。
  Through coolant design makes chip removal easily and increases Feed speed.

HRCN 颶風直柄銑刀
HRCN HURRICANE INDEXABLE MILLING CUTTER

NEW



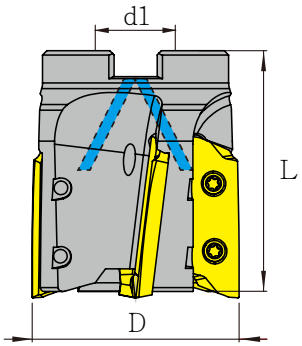
規格 Spec.	L	l_1	D	d	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
HRCN-3232-AE32-135L-2T-C	135	75	32	32	2	AE..32T3	-
HRCN-3332-AE32-135L-2T-C	135	75	33	32	2	AE..32T3	-
HRCN-4032-AE32-135L-2T-C	135	75	40	32	2	AE..32T3	-

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
AE..32T3	M4-8.0-5.0-43	T15	3

HRCN 颶風殼形銑刀
HRCN HURRICANE SHELL MILLING CUTTER

NEW



規格 Spec.	L	d_1	D	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
HRCN-500-FMB22-AE32-4T-C	60	22	50	4	AE..32T3	-
HRCN-630-FMB22-AE32-4T-C	60	22	63	4	AE..32T3	-
HRCN-800-FMB27-AE32-5T-C	70	27	80	5	AE..32T3	-

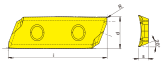
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
AE..32T3	M4-8.0-5.0-43	T15	3

• 長度單位 Unit of Length (mm)

AECX32T3 長刃鋁合金颶風刀片
AECX32T3 LONG EDGE ALUMINUM MILLING INSERT

ISO 分類								切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	P	合金鋼 Alloyed Steels						
	M	不鏽鋼 Stainless Steels						
	K	鑄鐵 Cast Iron						
	N	鋁及鋁合金 Aluminum&Al	■	○				
	S	高溫合金 Refractory Alloys						
	H	高硬度材 Hard Material						

形狀 Shpae	規格 Spec.	超微粒硬質合金 Micro grain cemented carbide					尺寸 (mm)				圖形 Drawing
		HF					Size				
		OM5005	OM5060				d	i	s	r	
	NEW AECX32T302ER-F01	●	●				11.9	37	3.97	0.2	
	NEW AECX32T320ER-F01	●	●				11.9	37	3.97	2	
	NEW AECX32T330ER-F01	●	●				11.9	37	3.97	3	
	NEW AECX32T340ER-F01	●	●				11.9	37	3.97	4	
	NEW AECX32T350ER-F01	●	●				11.9	37	3.97	5	

NEW 新品 New Product

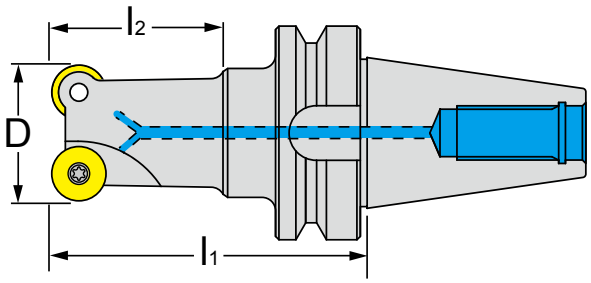
AECX32_ 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 (mm)
N	鋁合金 Aluminum&Al	OM5005	500~1800	0.05~0.25
		OM5060	500~1800	0.05~0.25

• 長度單位 Unit of Length (mm)

BT/STR 剛體模霸刀桿
BT/STR CORNER ROUNGING END MILL

KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel
- After the heat treatment, we will finish the cutter again for better accuracy.

	規格 Spec.	l_1	l_2	D	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
	BT40-STR3.5R16-90L-2T	90	40	16	2	RD..0702	1.29
	BT40-STR3.5R16-120L-2T	120	65	16	2	RD..0702	1.30
●	BT40-STR3.5R20-90L-3T	90	45	20	3	RD..0702	1.32
	BT40-STR3.5R20-120L-3T	120	70	20	3	RD..0702	1.33
●	BT40-STR3.5R25-90L-3T	90	40	25	3	RD..0702	1.36
	BT40-STR3.5R25-120L-3T	120	70	25	3	RD..0702	1.41
	BT40-STR3.5R30-120L-4T	120	85	30	4	RD..0702	1.52
●	BT40-STR5R30-90L-3T	90	55	30	3	RD..1003	1.31
●	BT40-STR5R35-90L-4T	90	60	35	4	RD..1003	1.42
	BT40-STR5R35-120L-4T	120	85	35	4	RD..1003	1.59

●附壓板螺絲 Clamp screw included

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
RD..0702	M2.5-6.45-3.7-43	T8	M3.5-8.0-5.0-60	T15	3.0
RD..1003	M3.5-8.0-5.0-60	T15	M4-8.0-5.7-60	T15	3.0

※ 圓刃端銑刀，其軸向切深與有效刃徑有相對應關係，計算切削數據時，須修正
The axial depth is related to effective diameter on a round tooth milling cutter. Please be aware when calculating cutting parameter.

每刃進給切削公式
Feeding per Flutes

$$f_z = hm \times \sqrt{\frac{D}{Ap}} \times \sqrt{\frac{Dw}{Ap}}$$

平均屑片厚度計算公式
Average chip thickness

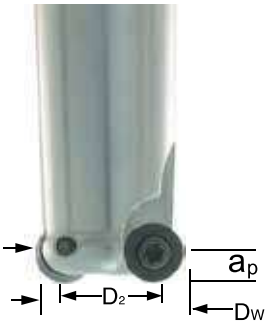
$$hm = \frac{f_z}{\sqrt{\frac{D}{Ap}} \times \sqrt{\frac{Dw}{Ap}}}$$

有效刃徑計算公式
Effective diameter

$$Dw = D_2 + 2 \times \sqrt{r^2 - (r - Ap)^2}$$

where :

Dw = 有效直徑 Effective diameter (mm)
D_2 = 刀具中心距 Centre-to-centre distance of cutter (mm)
r = 刀片半徑 Radius of Insert (mm)
Ap = 切深 Depth(mm)



• 長度單位 Unit of Length (mm)

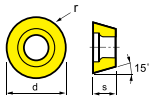
BT/STR 剛體模霸刀桿
BT/STR CORNER ROUNGING END MILL

KOVIT

ISO 分類														
	P	合金鋼 Alloyed Steels	○	○	○									
	M	不鏽鋼 Stainless Steels		○	○									
	K	鑄鐵 Cast Iron												
	N	鋁及鋁合金 Aluminum&Al												
	S	高溫合金 Refractory Alloys												
	H	高硬度材 Hard Material	○											

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層硬質合金 Layer coated carbide alloy HC						鍍層超微粒 Layer coated micro grain CHF						尺寸 (mm) Size				圖形 Drawing
		OM0125	OM1115	OM2115										d	i	s	r	
	RDKW0702MO	●	●	●										7	-	2.38	3.5	
	RDKW1003MO		●	●										10	-	3.18	5	

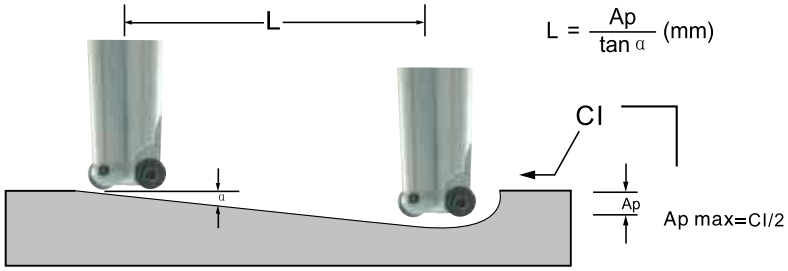
RD_07.10 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	平均屑片厚度 (mm) Average chip thickness	切 深 Ap (mm)
P	低合金鋼 Low-Alloy Steels	OM1115	160~300	0.14~0.40	0.10~0.50
		OM2115	120~250	0.08~0.25	0.10~0.50
	合金鋼 Alloyed Steels	OM1115	160~300	0.14~0.40	0.10~0.50
		OM2115	120~250	0.08~0.25	0.10~0.50
		OM0125	60~220	0.14~0.30	0.10~0.30
M	不鏽鋼 Stainless Steels	OM1115	70~100	0.06~0.10	0.10~0.25
		OM2115	70~100	0.06~0.10	0.10~0.25
H	高硬度材 Hard Material	OM0125	60~110	0.14~0.40	0.05~0.20

▎主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑) Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

▎床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速 Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

最大斜向切削公式 Max. inclined cutting



規格 Spec.	螺旋下刀孔徑 (mm) Tap Drill Size.		最大斜度切削角度 α° Max. inclined cutting angle	最大斜向進刀長度 Max. inclined cutting length
	最小 Min.	最大 Max.		
STR-3.5R16	16	23	13°	15.16
STR-3.5R20	20	27	14.5°	13.53
STR-3.5R25	25	32	10°	19.85
STR-5R25	25	32	10°	19.85
STR-5R30	30	40	14°	20.05
STR-5R35	35	45	14°	20.05

• 長度單位 Unit of Length (mm)

SOM 模組化示意圖 Modular combination

SBT/SOM
螺紋鎖固式刀桿
Screwed End
Mill Holder

直柄C/M螺紋鎖固式
鎢鋼延長桿
C/M Straight Shank
Tungsten Carbide
Extension Shank

CAT/SOM
鎖牙式刀桿
Screwed-on End
Mill Holder

SOM鎖牙式延長桿
SOM Screwed-on End
Mill Extension Shank

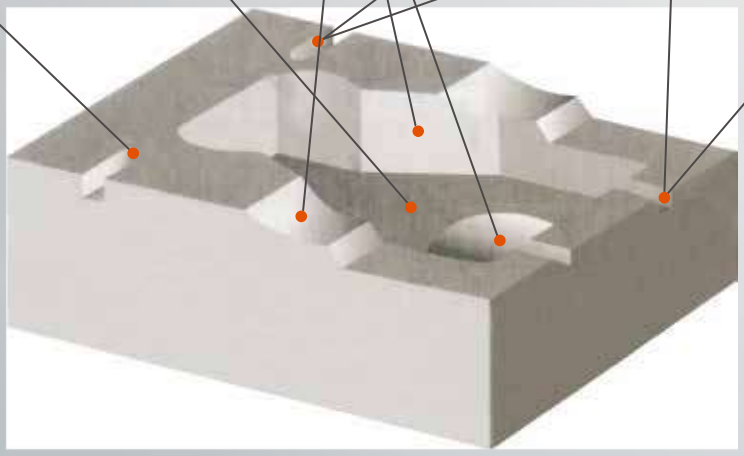
MAS 鎖牙式迷你銑刀
MAS Screwed-on
End Mill Cutter

STR鎖牙式切削刀具
STR Screwed-on
End Mill Cutter

BR鎖牙式球型銑刀
Screwed-on Rounded Corner
End Mill Cutter

NHF 高進給鎖牙銑刀
High Feed Screwed-on
End mill Cutter

HAS鎖牙式大進給切削刀具
Screwed-on High
Speed Mill Cutter



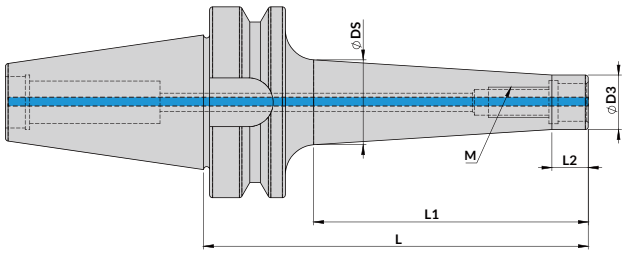
※ 刀桿通孔，利於出水及抗震。

Through-hole design for better water coolant and anti-vibration

SBT/SOM 鎖牙式刀桿
SBT/SOM SCREW-ON END MILL HOLDER

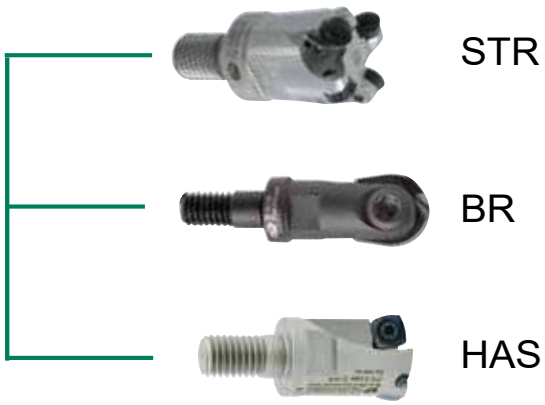
LEMMA

NEW



規格 Spec.	M	Ds	D_3	L	L_1	L_2
SBT40-SOM6-110	M6	25	9.7	110	80	10
SBT40-SOM8-105	M8	30	15	105	75	10
SBT40-SOM10-100	M10	35	18	100	70	10
SBT40-SOM10-130	M10	35	18	130	100	10
SBT40-SOM12-95	M12	40	21	95	65	10
SBT40-SOM12-130	M12	40	21	130	100	10
SBT40-SOM16-90	M16	48	28	90	60	10
SBT40-SOM16-140	M16	48	28	140	110	10
SBT50-SOM12-150	M12	41	21	150	105	30
SBT50-SOM12-200	M12	42.5	21	200	155	30
SBT50-SOM16-150	M16	49	28	150	105	30
SBT50-SOM16-200	M16	50	28	200	155	35

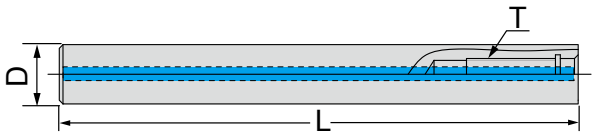
範例 Example



• 長度單位 Unit of Length (mm)

直柄 C/M 螺紋鎖固式鎢鋼延長桿
C/M STRAIGHT TUNGSTEN CARBIDE EXTENSION SHANK

LEMMA



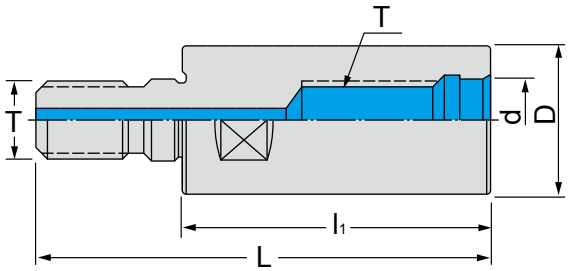
特點 Feature

- 整支通孔，利於出水及抗震

-Through-hole design for better water coolant and anti-vibration.

規格 Spec.	L	D	T	重量 (KGS) Weight
C10-M5-150-C	150	10	M5-0.8P	0.16
C12-M6-100-C	100	12	M6-1.0P	0.16
C12-M6-150-C	150	12	M6-1.0P	0.24
C16-M8-100-C	100	16	M8-1.25P	0.26
C16-M8-150-C	150	16	M8-1.25P	0.57
C16-M8-200-C	200	16	M8-1.25P	0.54
C20-M10-150-C	150	20	M10-1.5P	0.60
C20-M10-200-C	200	20	M10-1.5P	0.85
C25-M12-200-C	200	25	M12-1.75P	1.30
C25-M12-250-C	250	25	M12-1.75P	1.60

SOM 鎖牙式延長桿
SOM SCREW-ON END MILL EXTENSION SHANK



特點 Feature

- 整支通孔利於出水及抗震
- 採用抗震型材質
- 螺紋精度一級牙 4H

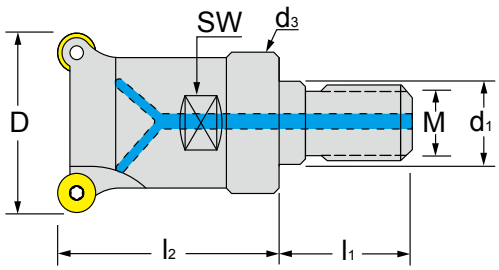
- Through-hole design for better water coolant and anti-vibration.
- Made of anti-vibration material.
- Thread accuracy grade 1, 4H.

規格 Spec.	L	l_1	D	d	T	重量 (KGS) Weight
SOM6-25	42	25	13	6.5	M6-1.0P	0.03
SOM8-32	50	32	15	8.5	M8-1.25P	0.06
SOM10-40	59	40	19	10.5	M10-1.5P	0.09
SOM12-50	73	50	21	12.5	M12-1.75P	0.13
SOM16-60	85	60	25	17	M16-2.0P	0.23

• 長度單位 Unit of Length (mm)

STR 鎖牙式切削刀具
STR SCREW-ON END MILLING CUTTER

KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

	規格 Spec.	l_1	l_2	D	d_1	d_3	M	SW	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
	STR-2.5R12M6-2T	17	22	12	6.5	10	6	8	2	RD..0501	0.03
	STR-3.5R16M8-2T	18	23	16	8.5	13.5	8	12	2	RD..0702	0.05
	STR-3.5R20M10-3T	19	30	20	10.5	18	10	14	3	RD..0702	0.08
●	STR-3.5R25M12-3T	23	35	25	12.5	21	12	17	3	RD..0702	0.12
●	STR-5R25M12-2T	23	35	25	12.5	21	12	17	2	RD..1003	0.11
●	STR-5R30M16-3T	25	42	30	17	26	16	21	3	RD..1003	0.19
●	STR-5R35M16-4T	25	42	35	17	29	16	21	4	RD..1003	0.23

●附壓板螺絲 Clamp screw included

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
RD..0501	M2-3.8-2.68-43	T6	0.6	M2-3.8-2.68-43	T6	0.6
RD..0702	M2.5-6.45-3.7-43	T8	1.2	M3.5-8.0-5.0-60	T15	3.0
RD..1003	M3.5-8.0-5.0-60	T15	3.0	M4-8.0-5.7-60	T15	3.0

每刃進給切削公式
Formula of feeding per flutes

$$f_z = h_m \times \sqrt{\frac{D}{Ap}} \times \sqrt{\frac{D_w}{Ap}}$$

平均屑片厚度計算公式
Formula of average chip thickness

$$h_m = \frac{f_z}{\sqrt{\frac{D}{Ap}} \times \sqrt{\frac{D_w}{Ap}}}$$

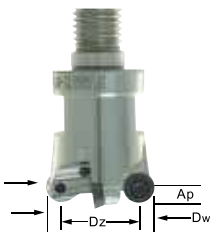
有效刃徑計算公式
Formula of effective diameter

$$D_W = D_2 + 2 \times \sqrt{r^2 - (r - Ap)^2}$$

Dw = 有效直徑 Effective diameter (mm)
D_2 = 刀具中心距 Centre-to-centre distance of cutter (mm)
r = 刀片半徑 Radius of Insert (mm)
Ap = 切深 Depth (mm)

鎖固力矩 Locking torque

螺紋 Screw thread	緊固力矩 Locking N.m	扳手開口度 (mm) Spanner Size
M6	6Nm	SW8
M8	23Nm	SW12
M10	46Nm	SW14
M12	80Nm	SW17
M16	90Nm	SW21
M20	200Nm	SW30
M20	200Nm	SW36



• 長度單位 Unit of Length (mm)

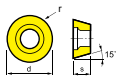
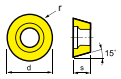
STR 鎖牙式切削刀具
STR SCREW-ON END MILLING CUTTER

KOVIT

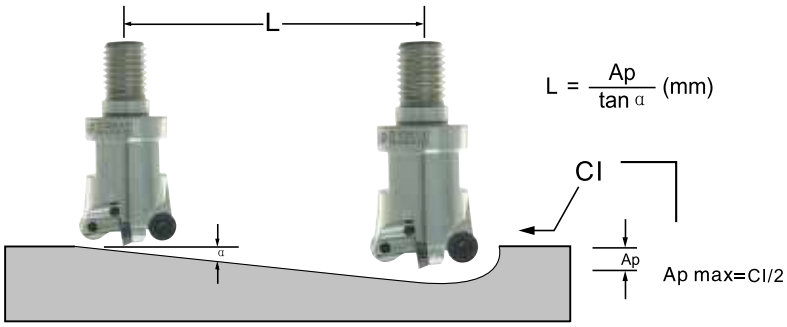
ISO 分類															
P	合金鋼 Alloyed Steels	○	○	○											
M	不鏽鋼 Stainless Steels		○	○											
K	鑄鐵 Cast Iron														
N	鋁及鋁合金 Aluminum&Al								■						
S	高溫合金 Refractory Alloys														
H	高硬度材 Hard Material	○													

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層硬質合金 Carbide alloy							超微粒硬質合金 Micro grain carbide alloy						尺寸 (mm)				圖形 Drawing
		HC							HF						Size				
		OM0125	OM1115	OM2115					OM5005						d	i	s	r	
	RDKW0501MO	●		●											5	-	1.51	2.5	
	RDKW0702MO	●	●	●											7	-	2.38	3.5	
	RDKW1003MO		●	●											10	-	3.18	5	
	RDET1003MOF-F01								●						10	-	3.18	5	

最大斜向切削公式 Max. inclined cutting



規格 Spec.	螺旋下刀孔徑 (mm) Tap Drill Size.		最大斜度切削角度 α° Max. inclined cutting angle	最大斜向進刀長度 Max. inclined length
	最小 Min.	最大 Max.		
STR-2.5R12	12	19	21.5°	8.89
STR-3.5R16	16	23	13°	15.16
STR-3.5R20	20	27	14.5°	13.53
STR-3.5R25	25	32	10°	19.85
STR-5R25	25	32	10°	19.85
STR-5R30	30	40	14°	20.05
STR-5R35	35	45	14°	20.05

RD_05.07.10 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	平均屑片厚度 (mm) Average chip thickness	切 深 Ap (mm)
P	低合金鋼 Low-Alloy Steels	OM1115	160~300	0.14~0.04	0.10~0.50
		OM2115	120~250	0.08~0.25	0.10~0.50
	合金鋼 Alloyed Steels	OM1115	160~300	0.14~0.04	0.10~0.50
		OM2115	120~250	0.08~0.25	0.10~0.50
		OM0125	60~220	0.14~0.30	0.10~0.30
M	不鏽鋼 Stainless Steels	OM1115	70~100	0.06~0.10	0.10~0.25
		OM2115	70~100	0.06~0.10	0.10~0.25
H	高硬度材 Hard Material	OM0125	60~110	0.14~0.40	0.05~0.20

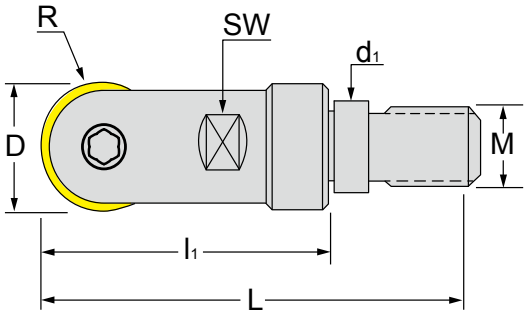
▎主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑) Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

▎床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速 Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

BR 鎖牙式球型銑刀
BR SCREW-ON BALL NOSE MILL CUTTER

KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

-Made of anti-vibration tool steel.
-After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	l_1	D	d_1	R	M / N.m	SW	刀片 Insert	重量 (KGS) Weight
BR-4R08M6	34	20	8	6.5	4	M6 / 10	8	BR08	0.04
BR-5R10M6	36	21	10	6.5	5	M6 / 10	8	BR10	0.05
BR-6R12M6	40	25	12	6.5	6	M6 / 10	8	BR12	0.05
BR-8R16M8	43	26	16	8.5	8	M8 / 23	12	BR16	0.06
BR-10R20M10	51	32	20	10.5	10	M10 / 46	14	BR20	0.09
BR-12.5R25M12	62	40	25	12.5	12.5	M12 / 80	17	BR25	0.06
BR-15R30M16	62	40	30	17	15	M16 / 90	21	BR30	0.26
BR-16R32M16	65	43	32	17	16	M16 / 90	21	BR32	0.29

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
BR08	BR4	T8	1.2
BR10	BR5	T15	3.0
BR12	BR6	T20	5.0
BR16	BR8	T20	5.0
BR20	BR10	T20	5.0
BR25	BR12.5	T30	10.0
BR30	BR15	T30	10.0
BR32	BR16	T30	10.0

• 長度單位 Unit of Length (mm)

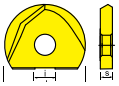
BR 鎖牙式球型銑刀
BR SCREW-ON BALL NOSE MILL CUTTER

KOVIT

ISO 分類															
	P	合金鋼 Alloyed Steels	○	○											
	M	不鏽鋼 Stainless Steels	○	○											
	K	鑄鐵 Cast Iron	○												
	N	鋁及鋁合金 Aluminum&Al								○					
	S	高溫合金 Refractory Alloys													
	H	高硬度材 Hard Material	○												

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain						超微粒硬質合金 Micro grain cemented carbide						尺寸 (mm)				圖形 Drawing
		CHF						HF						Size				
		OM4010	OM4025					OM5005						d	i	s	r	
	BR08S	●	●					●						8	3	2	-	
	BR10S	●	●					●						10	4	2.5	-	
	BR12S	●	●					●						12	5	2.5	-	
	BR16S	●	●					●						16	5	3	-	
	BR20S	●	●					●						20	5	3	-	
	BR25S	●	●					●						25	6	4	-	
	BR30S	●	●					●						30	8	5	-	
	BR32S	●	●					●						32	8	5	-	

BR_08.10.12.16.20.25.30.32 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)
P	低合金鋼 Low-Alloy Steels	OM4010	180~200	0.08~0.20
		OM4025	180~220	0.08~0.19
	合金鋼 Alloyed Steels	OM4010	100~140	0.08~0.12
		OM4025	100~120	0.06~0.12
M	不鏽鋼 Stainless Steels	OM4010	160~200	0.08~0.12
		OM4025	155~190	0.08~0.12
K	鑄鐵 Cast Iron	OM4025	110~143	0.09~0.11
N	鋁合金 Aluminum&Al	OM5005	300~500	0.05~0.30

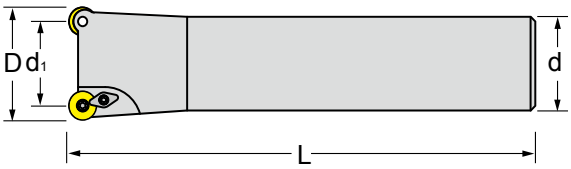
▎主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑) Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

▎床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速 Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

HR 圓刃端銑刀
HR ROUND INSERT END MILLING CUTTER

KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel.
- After heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	D	d	d_1	R	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
HR-4R2020-150L	150	20	20	12	4R	2	RP..0803	0.37
HR-5R2525-150L	150	25	25	15	5R	2	RP..10T3	0.56
HR-5R2525-200L	200	25	25	15	5R	2	RP..10T3	0.76
HR-5R3025-150L	150	30	25	20	5R	2	RP..10T3	0.59
HR-5R3025-200L	200	30	25	20	5R	2	RP..10T3	0.78
HR-5R3532-150L	150	35	32	25	5R	3	RP..10T3	0.92
HR-5R3532-200L	200	35	32	25	5R	3	RP..10T3	1.26
HR-5R3532-300L	300	35	32	25	5R	3	RP..10T3	1.89
HR-6R3225-200L	200	32	25	20	6R	2	RP..1204	0.78
HR-6R3232-200L	200	32	32	20	6R	2	RP..1204	1.21
HR-6 R4032-180L	180	40	32	28	6R	3	RP..1204	1.16
HR-6R4032-230L	230	40	32	28	6R	3	RP..1204	1.48

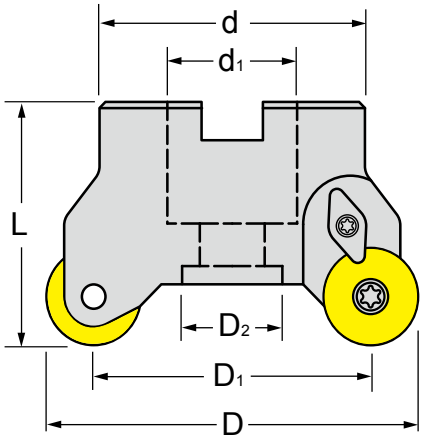
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板螺絲 Clamp Screw	壓板 Clamp	扳手 Wrench	扭力值 (N.m) Torque
RP..0803	M3-8.0-4.4-60	T9	1.4	-	-	T9	1.4
RP..10T3	M4-10-5.0-43	T15	3.0	M3.5-8.0-5.5-60	GR-4R.5R	T15	3.0
RP..1204	M4-10-5.0-43	T15	3.0	M5-11-7.5-60	GR-6R.8R	T20	5.0

• 長度單位 Unit of Length (mm)

HR 圓刃殼型銑刀
HR ROUND INSERT END MILLING CUTTER

KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

-Made of anti-vibration tool steel.
-After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	D	D_1	D_2	d	d_1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
HR-5R50-FMB22-4T	50	50	40	18	40	22	4	RP..10T3	0.41
HR-6R50-FMB22-3T	50	50	38	18	40	22	3	RP..1204	0.44
HR-6R50-FMB22-4T	50	50	38	18	40	22	4	RP..1204	0.41
HR-6R63-FMB22-4T	55	63	51	18	50	22	4	RP..1204	0.66
HR-6R63-FMB22-5T	55	63	51	18	50	22	5	RP..1204	0.67
HR-6R63-5T	55	63	51	19	50	25.4	5	RP..1204	0.63
HR-6R80-FMB27-6T	55	80	68	19	60	27	6	RP..1204	1.22

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板螺絲 Clamp Screw	壓板 Clamp	扳手 Wrench	扭力值 (N.m) Torque
RP..10T3	M4-10-5.0-43	T15	3.0	M3.5-8.0-5.5-60	HR-4R.5R	T15	3.0
RP..1204	M4-10-5.0-43	T15	3.0	M5-11-7.5-60	HR-6R.8R	T20	5.0

每刃進給切削公式
Feeding per Flutes

$$f_z = h_m \times \sqrt{\frac{D}{Ap}} \times \sqrt{\frac{D_w}{Ap}}$$

平均屑片厚度計算公式
Average chip thickness

$$h_m = \frac{f_z}{\sqrt{\frac{D}{Ap}} \times \sqrt{\frac{D_w}{Ap}}}$$

有效刃徑計算公式
Effective diameter

$$D_w = D_2 + 2 \times \sqrt{r^2 - (r - Ap)^2}$$

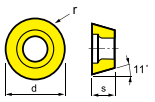
Dw = 有效直徑 Effective diameter (mm)
D_2 = 刀具中心距 Centre-to-centre distance of cutter (mm)
r = 刀片半徑 Radius of Insert (mm)
Ap = 切深 Depth(mm)

• 長度單位 Unit of Length (mm)

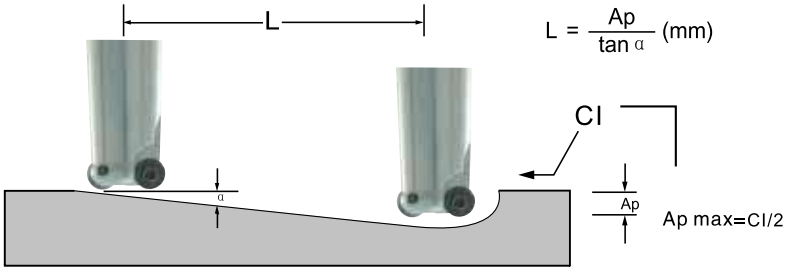
HR 圓刃端銑刀
HR ROUND INSERT END MILLING CUTTER

KOVIT

ISO 分類														切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	P	合金鋼 Alloyed Steels	○			○	○	○						
	M	不鏽鋼 Stainless Steels	○			○	○	○						
	K	鑄鐵 Cast Iron				○	○							
	N	鋁及鋁合金 Aluminum&Al								■				
	S	高溫合金 Refractory Alloys												
	H	高硬度材 Hard Material				○								

形狀 Shape	規格 Spec.	鍍層硬質合金 Carbide alloy				鍍層超微粒 Layer coated micro grain			超微粒硬質合金 Micro grain cemented carbide				尺寸 (mm)				圖形 Drawing
		HW				CHF			HF				Size				
		OM2115				OM4010	OM4025	RM4130	OM5005				d	i	s	r	
	RPET1204MOE-M01					●	●		●				12	-	4.76	6	
	RPMT10T3MON							●					10	-	3.97	5	
	RPMT1204MON							●					12	-	4.76	6	
	RPMT1204MO-M01	●											12		4.76	6	

最大斜向切削公式 Max. inclined cutting



規格 Spec.	螺旋下刀孔徑 (mm) Tap Drill Size.		最大徑向切削角度 α° Max. radial cutting angle	最大斜向進刀長度 Max. inclined cutting length
	最小 Min.	最大 Max.		
HR-4R20	14	20	5.4°	31.74
HR-5R25	17	25	7.85°	39.01
HR-5R30	22	32	7.55°	37.72
HR-5R35	25	35	7.23°	39.16
HR-6R40	40	52	4.15°	82.69
HR-5R50	50	62	4.4°	77.98
HR-6R63	63	75	3.5°	98.10

切削條件數據表 Cutting Parameter

被加工材質 Machining Material		刀片種類 Inserts			
		RP_10		RP_12	
		米速 Vc(m/min)	平均屑片厚度 hm(mm)	米速 Vc(m/min)	平均屑片厚度 hm(mm)
P	低合金鋼 Low-Alloy Steels	180~300	0.10~0.28	180~300	0.12~0.30
	合金鋼 Alloyed Steels	70~195	0.08~0.24	70~195	0.08~0.25
M	不鏽鋼 Stainless Steels	55~100	0.08~0.14	55~100	0.08~0.14
K	鑄鐵 Cast Iron	140~350	0.08~0.24	140~350	0.08~0.25
N	鋁合金 Aluminum&Al	275~1000	0.04~0.12	275~1000	0.04~0.16

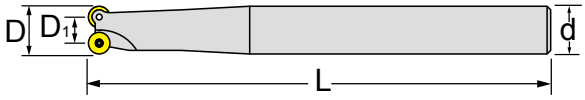
主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑)
Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速
Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

STR 圓刃端銑刀
HR ROUND INSERT END MILLING CUTTER

KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel.
- The tool is pre-hardened from the heat treatment prior to finish cutting for better accuracy consistency

規格 Spec.	L	D	D_1	d	R	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
STR-2.5R1212-108L- 2T	108	12	7	12	2.5R	2	RD..0501	0.10
STR-3.5R1616-150L-2T	150	16	9	16	3.5R	2	RD..0702	0.26
STR-3.5R2020-170L-2T	170	20	13	20	3.5R	2	RD..0702	0.44
STR-3.5R2525-150L-3T	150	25	18	25	3.5R	3	RD..0702	0.57
● STR-5R2525-150L-2T	150	25	15	25	5R	2	RD..1003	0.56
● STR-5R2525-200L-2T	200	25	15	25	5R	2	RD..1003	0.76
● STR-5R3025-150L-3T	150	30	20	25	5R	3	RD..1003	0.58
● STR-5R3025-200L-3T	200	30	20	25	5R	3	RD..1003	0.78

●附壓板螺絲 Clamp screw included

配件表 Accessories

規格 Spec.	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板螺絲 Clamp Screw	壓板扳手 Wrench	扭力值 (N.m) Torque
STR-2.5R1212-108L-2T	RD..0501	M2-3.8-2.68-43	T6	0.6	-	-	-
STR-3.5R1616-150L-2T	RD..0702	M2.5-6.45-3.7-43	T8	1.2	-	-	-
STR-3.5R2020-170L-2T	RD..0702	M2.5-6.45-3.7-43	T8	1.2	M3.5-8.0-5.0-60	T15	3.0
STR-3.5R2525-150L-3T	RD..0702	M2.5-6.45-3.7-43	T8	1.2	M3.5-8.0-5.0-60	T15	3.0
STR-5R2525-150L-2T	RD..1003	M3.5-8.0-5.0-60	T15	3.0	M4-5.0-5.7-60	T15	3.0
STR-5R2525-200L-2T	RD..1003	M3.5-8.0-5.0-60	T15	3.0	M4-5.0-5.7-60	T15	3.0
STR-5R3025-150L-3T	RD..1003	M3.5-8.0-5.0-60	T15	3.0	M4-5.0-5.7-60	T15	3.0
STR-5R3025-200L-3T	RD..1003	M3.5-8.0-5.0-60	T15	3.0	M4-5.0-5.7-60	T15	3.0

每刃進給切削公式
Formula of feeding per Flutes

$$f_z = h_m \times \sqrt{\frac{D}{Ap}} \times \sqrt{\frac{D_w}{Ap}}$$

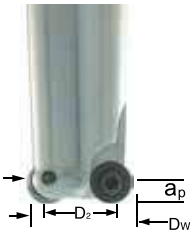
平均屑片厚度計算公式
Formula of average chip thickness

$$h_m = \frac{f_z}{\sqrt{\frac{D}{Ap}} \times \sqrt{\frac{D_w}{Ap}}}$$

有效刃徑計算公式
Formula of effective diameter

$$D_W = D_2 + 2 \times \sqrt{r^2 - (r - Ap)^2}$$

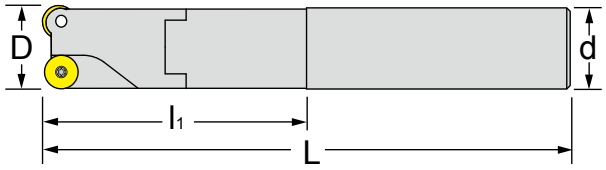
Dw = 有效直徑 Effective diameter (mm)
D_2 = 刀具中心距 Centre-to-centre distance of cutter (mm)
r = 刀片半徑 Radius of Insert (mm)
Ap = 切深 Depth (mm)



• 長度單位 Unit of Length (mm)

CSTR 碳化鎢鋼圓刃銑刀
HR ROUND INSERT CARBIDE MILLING CUTTER

KOVIT



特點 Feature

- CSTR 系列以鎢鋼柄部確保剛性，加以 2.5R 高性能超硬刀片，結合而成高性能低成本的革命性產品
- 細小尺寸設計最適合中小型模具的模穴粗銑
- 阻抗排解力強，穩定性極佳
- 刀片相容性高，使用者適應性強

- The revolutionary CSTR series are a combination of tungsten carbide shank and 2.5R super hard insert which are featured low cost and high efficiency.
- Small size is available for rough milling of small-medium mold cavity.
- High resistance relief and excellent stability.
- Compatible with various inserts. User friendly.

規格 Spec.	L	l_1	D	d	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
CSTR-2.5R1010-85L-2T	85	40	10	10	2	RD..0501	-
CSTR-2.5R1110-110L-2T	110	-	11	10	2	RD..0501	0.14
CSTR-2.5R1212-95L-2T	95	50	12	12	2	RD..0501	0.16
CSTR-2.5R1212-95L-3T	95	50	12	12	3	RD..0501	0.16
CSTR-2.5R1312-125L-2T	125	-	13	12	2	RD..0501	0.20
CSTR-2.5R1312-125L-3T	125	-	13	12	3	RD..0501	0.20
CSTR-3.5R1716-150L-2T	150	-	17	16	2	RD..0702	0.25
CSTR-3.5R1716-200L-2T	200	-	17	16	2	RD..0702	0.60
CSTR-3.5R2120-150L-3T	150	-	21	20	3	RD..0702	0.64
CSTR-3.5R2120-200L-3T	200	-	21	20	3	RD..0702	0.89
CSTR-3.5R2625-150L-4T	150	-	26	25	4	RD..0702	1.70
CSTR-3.5R2625-250L-4T	250	-	26	25	4	RD..0702	1.70
CSTR-5R2120-200L-2T	200	-	21	20	2	RD..1003	0.89
CSTR-5R2625-250L-3T	250	-	26	25	3	RD..1003	1.70

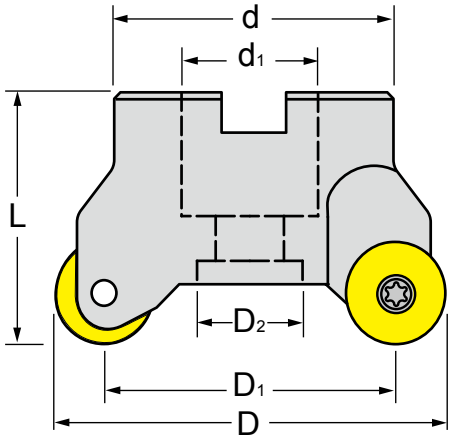
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
RD..0501	M2-3.8-2.68-43	T6	0.6
RD..0702	M2.5-6.45-3.7-43	T8	1.2
RD..1003	M3.5-8.0-5.0-60	T15	3.0

• 長度單位 Unit of Length (mm)

STR 圓刃殼型銑刀
STR ROUND INSERT END MILLING CUTTER

KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	D	D_1	D_2	d	d_1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
STR-5R50-FMB22-5T	50	50	40	18	40	22	5	RD..1003	0.45

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板螺絲 Clamp Screw	壓板扳手 Wrench	扭力值 (N.m) Torque
RD..1003	M3.5-8.0-5.0-60	T15	3.0	M4-8.0-5.7-60	T15	3.0

每刃進給切削公式
Formula of feeding per Flutes

$$f_z = h_m \times \sqrt{\frac{D}{Ap}} \times \sqrt{\frac{D_w}{Ap}}$$

平均屑片厚度計算公式
Formula of average chip thickness

$$h_m = \frac{f_z}{\sqrt{\frac{D}{Ap}} \times \sqrt{\frac{D_w}{Ap}}}$$

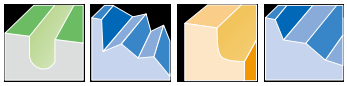
有效刃徑計算公式
Formula of effective diameter

$$D_w = D_2 + 2 \times \sqrt{r^2 - (r - Ap)^2}$$

Dw = 有效直徑 Effective diameter (mm)
D_2 = 刀具中心距 Centre-to-centre distance of cutter (mm)
r = 刀片半徑 Radius of Insert (mm)
Ap = 切深 Depth(mm)

• 長度單位 Unit of Length (mm)

STR 圓刃殼型銑刀
STR ROUND INSERT END MILLING CUTTER



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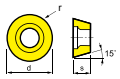
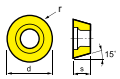
ISO 分類															切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	P	合金鋼 Alloyed Steels	○	○	○										
	M	不鏽鋼 Stainless Steels		○	○										
	K	鑄鐵 Cast Iron													
	N	鋁及鋁合金 Aluminum&Al													
	S	高溫合金 Refractory Alloys													
	H	高硬度材 Hard Material	○												

形狀 Shape	規格 Spec.	鍍層硬質合金 Carbide alloy							超微粒硬質合金 Micro grain carbide alloy						尺寸 (mm)				圖形 Drawing
		HC							HF						Size				
		OM0125	OM1115	OM2115					OM5005						d	i	s	r	
	RDKW0501MO	●		●											5	-	1.51	2.5	
	RDKW0702MO	●	●	●											7	-	2.38	3.5	
	RDKW1003MO		●	●											10	-	3.18	5	
	RDET1003MOF-F01								●						10	-	3.18	5	

RD_05.07.10 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	平均屑片厚度 (mm) Average chip thickness	切 深 Ap (mm)
P	低合金鋼 Low-Alloy Steels	OM1115	160~300	0.14~0.04	0.10~0.50
		OM2115	120~250	0.08~0.25	0.10~0.50
	合金鋼 Alloyed Steels	OM1115	160~300	0.14~0.04	0.10~0.50
		OM2115	120~250	0.08~0.25	0.10~0.50
		OM0125	60~220	0.14~0.30	0.10~0.30
M	不鏽鋼 Stainless Steels	OM1115	70~100	0.06~0.10	0.10~0.25
		OM2115	70~100	0.06~0.10	0.10~0.25
H	高硬度材 Hard Material	OM0125	60~110	0.14~0.40	0.05~0.20

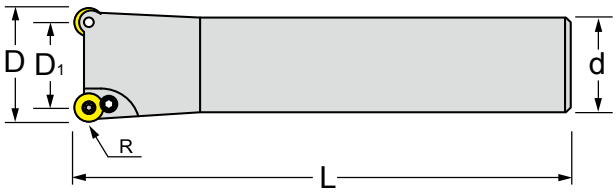
主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑)
Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速
Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

FR 圓刃端銑刀
FR ROUND INSERT END MILLING CUTTER

KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	D	D_1	d	R	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
C25-FR25-150L	150	25	15	25	5R	2	RP..1003	0.55
C25-FR25-180L	180	25	15	25	5R	2	RP..1003	0.67
C25-FR25-250L	250	25	15	25	5R	2	RP..1003	0.95
C25-FR30-150L	150	30	20	25	5R	2	RP..1003	0.59
C25-FR30-200L	200	30	20	25	5R	2	RP..1003	0.79
C25-FR30-250L	250	30	20	25	5R	2	RP..1003	0.98
C25-FR30-300L	300	30	20	25	5R	2	RP..1003	1.20
C32-FR32-200L	200	32	22	32	5R	3	RP..1003	1.18
C32-FR35-120L	120	35	25	32	5R	3	RP..1003	0.72
C32-FR35-150L	150	35	25	32	5R	3	RP..1003	0.91
C32-FR35-200L	200	35	25	32	5R	3	RP..1003	1.25
C32-FR35-250L	250	35	25	32	5R	3	RP..1003	1.55
C32-FR35-300L	300	35	25	32	5R	3	RP..1003	1.88
C32-FR35-350L	350	35	25	32	5R	3	RP..1003	2.18

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板螺絲 Clamp Screw	壓板扳手 Wrench	扭力值 (N.m) Torque
RP..1003	M4-10-5.7-60	T15	3.0	M5-0.8P	T15	3.0

• 長度單位 Unit of Length (mm)

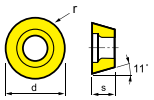
FR 圓刃端銑刀
FR ROUND INSERT END MILLING CUTTER

KOVIT

ISO 分類														
	P	合金鋼 Alloyed Steels	○											
	M	不鏽鋼 Stainless Steels	○											
	K	鑄鐵 Cast Iron												
	N	鋁及鋁合金 Aluminum&Al												
	S	高溫合金 Refractory Alloys												
	H	高硬度材 Hard Material												

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain						超微粒硬質合金 Micro grain cemented carbide						尺寸 (mm)				圖形 Drawing
		CHF						HF						Size				
		RM4130												d	i	s	r	
	RPMW1003MON	●												10	-	3.18	5	

RP_10 切削條件數據表 Cutting Parameter

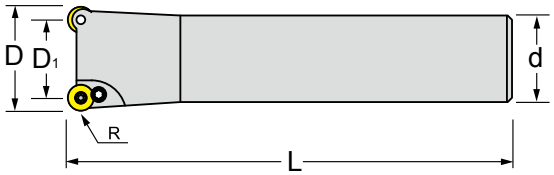
被加工材質 Machining Materials		硬度 HB	刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)
P	合金鋼 Alloyed Steels	HRC30 以下 Below HRC30	RM4130	100~170	0.12~0.40
M	不鏽鋼 Stainless Steels	HB270 以下 Below HB270	RM4130	70~150	0.12~0.40

▎主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑)
Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).
▎床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速
Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

GR 圓刃端銑刀
GR ROUND INSERT END MILLING CUTTER

KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	D	D_1	d	R	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
GR-4R1212-130L	130	12	8	12	4R	1	RD..0802	0.15
GR-4R1616-150L	150	16	8	16	4R	1	RD..0802	0.25
GR-4R1616-200L	200	16	8	16	4R	1	RD..0802	0.34
GR-4R2019-150L	150	20	12	19	4R	2	RD..0802	0.35
GR-4R2019-200L	200	20	12	19	4R	2	RD..0802	0.46
GR-4R2020-150L	150	20	12	20	4R	2	RD..0802	0.37
GR-4R2020-200L	200	20	12	20	4R	2	RD..0802	0.51
GR-5R2525-150L	150	25	15	25	5R	2	RD..10T3	0.55
GR-5R2525-200L	200	25	15	25	5R	2	RD..10T3	0.74
GR-5R2525-250L	250	25	15	25	5R	2	RD..10T3	0.93
GR-5R3025-150L	150	30	20	25	5R	2	RD..10T3	0.55
GR-5R3025-200L	200	30	20	25	5R	2	RD..10T3	0.78
GR-5R3532-150L	150	35	25	32	5R	3	RD..10T3	0.92
GR-5R3532-200L	200	35	25	32	5R	3	RD..10T3	1.25
GR-5R3532-250L	250	35	25	32	5R	3	RD..10T3	1.57
GR-5R3532-300L	300	35	25	32	5R	3	RD..10T3	1.87
GR-5R3532-350L	350	35	25	32	5R	3	RD..10T3	2.24
GR-5R4032-180L	180	40	30	32	5R	3	RD..10T3	1.15
GR-5R4032-230L	230	40	30	32	5R	3	RD..10T3	1.47
GR-8R5032-200L	200	50	34	32	8R	3	RD..1604	1.31

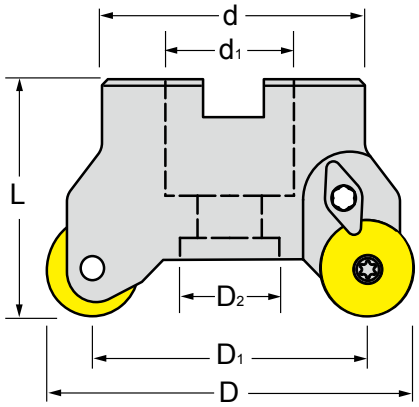
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板螺絲 Clamp Screw	壓板 Clamp	壓板扳手 Wrench	扭力值 (N.m) Torque
RD..0802	M3-6.0-3.7-43	T10	2.0	M3.5-8.0-5.5-60	GR-4R.5R	T15	3.0
RD..10T3	M4-10-5.0-43	T15	3.0	M3.5-8.0-5.5-60	GR-4R.5R	T15	3.0
RD..1604	M5-11-7.5-60	T20	5.0	M5-11-7.5-60	GR-6R.8R	T20	5.0

• 長度單位 Unit of Length (mm)

GR 圓刃殼型銑刀
GR ROUND INSERT END MILLING CUTTER

KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	D	D_1	D_2	d	d_1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
GR-5R50-FMB22	50	50	40	18	40	22	4	RD..10T3	0.42
GR-6R50-FMB22	50	50	38	18	40	22	4	RD..1204	0.29
GR-6R63-FMB22	50	63	51	18	50	22	4	RD..1204	0.54
GR-8R63-FMB22	50	63	47	18	50	22	4	RD..1604	0.62
GR-8R66	50	66	50	19	50	25.4	4	RD..1604	0.61
GR-8R66-FMB22	50	66	50	18	50	22	4	RD..1604	0.65
GR-8R80	55	80	64	19	62	25.4	5	RD..1604	1.07
GR-8R80-FMB27	55	80	64	19	62	27	5	RD..1604	1.06
GR-8R100	55	100	84	42	70	31.75	6	RD..1604	1.63
GR-8R100-FMB32	55	100	84	42	70	32	6	RD..1604	1.62

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板螺絲 Clamp Screw	壓板 Clamp	壓板扳手 Wrench	扭力值 (N.m) Torque
RD..10T3	M4-10-5.0-43	T15	3.0	M3.5-8.0-5.5-60	GR-4R.5R	T15	3.0
RD..1204	M4-9.5-5.5-55	T15	3.0	M5-11-7.5-60	GR-6R.8R	T20	5.0
RD..1604	M5-11-7.5-60	T20	5.0	M5-11-7.5-60	GR-6R.8R	T20	5.0

• 長度單位 Unit of Length (mm)

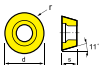
GR 圓刃殼型銑刀
GR ROUND INSERT END MILLING CUTTER

KOVIT

ISO 分類														
	P	合金鋼 Alloyed Steels	○											
	M	不鏽鋼 Stainless Steels	○											
	K	鑄鐵 Cast Iron												
	N	鋁及鋁合金 Aluminum&Al							■	■	■			
	S	高溫合金 Refractory Alloys												
	H	高硬度材 Hard Material												

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain						超微粒硬質合金 Micro grain cemented carbide 硬						尺寸 (mm)				圖形 Drawing
		CHF						HF						Size				
		RM4130						OM5005	OM5060	RM5005				d	i	s	r	
	RDET1604MOF-F01							●	●					16	-	4.76	8	
	RDGT1604MO-F01									●				16	-	4.76	8	
	RDMT0802MOTN	●												8	-	2.38	4	
	RDMT10T3MOTN	●												10	-	3.97	5	
	RDMT1204MOTN	●												12	-	4.76	6	
	RDMT1604MOTN	●												16	-	4.76	8	

被加工材質 Machining Materials		刀片材質 Grade	刀具外徑 (Cutter outer diameter)									
			Ø12mm(4R)		Ø16mm(4R)		Ø20mm(4R)		Ø25mm(5R)		Ø32mm(5R)	
			主軸轉速 S (rpm)	床檯進給 F (mm/min)	主軸轉速 S (rpm)	床檯進給 F (mm/min)	主軸轉速 S (rpm)	床檯進給 F (mm/min)	主軸轉速 S (rpm)	床檯進給 F (mm/min)	主軸轉速 S (rpm)	床檯進給 F (mm/min)
P	低合金鋼 Low-Alloy Steels	RM4130	5,255	525	3,940	1,180	4,380	3,500	3,500	2,794	2,739	3,290
	合金鋼 Alloyed Steel	RM4130	3,795	478	2,847	854	2,629	1,056	2,100	836	1,640	979
M	不鏽鋼 Stainless Steels	RM4130	5,254	524	3,941	1,181	3,489	1,749	2,805	1,408	2,189	1,639
K	鑄鐵 Cast Iron	RM4130	3,795	379	2,846	853	3,146	2,519	2,519	2,013	1,969	2,365

被加工材質 Machining Materials		刀片材質 Grade	刀具外徑 (Cutter outer diameter)									
			Ø40mm(5R)		Ø50mm(5R)		Ø63mm(6R)		Ø66mm(8R)		Ø80mm(8R)	
			主軸轉速 S (rpm)	床檯進給 F (mm/min)	主軸轉速 S (rpm)	床檯進給 F (mm/min)	主軸轉速 S (rpm)	床檯進給 F (mm/min)	主軸轉速 S (rpm)	床檯進給 F (mm/min)	主軸轉速 S (rpm)	床檯進給 F (mm/min)
P	低合金鋼 Low-Alloy Steels	RM4130	2,189	1,970	1,750	2,098	1,386	1,663	1,326	1,591	1,100	1,320
	合金鋼 Alloyed Steel	RM4130	1,310	785	1,056	844	836	668	796	636	660	528
M	不鏽鋼 Stainless Steels	RM4130	1,750	1,050	1,397	1,117	1,111	888	1,061	849	792	633
K	鑄鐵 Cast Iron	RM4130	1,573	1,415	1,265	1,518	1,000	1,201	955	1,147	792	950
N	鋁合金	RM5005	-	-	-	-	-	-	1500	600	1200	600

主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑)
Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速
Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

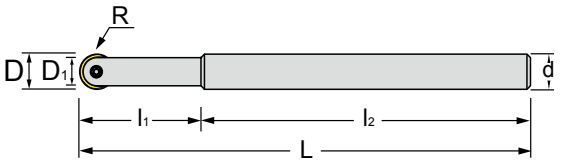
• 長度單位 Unit of Length (mm)

BR 精切削全 R 端銑刀
BR PRECISION BALL NOSE END MILL

KOVIT

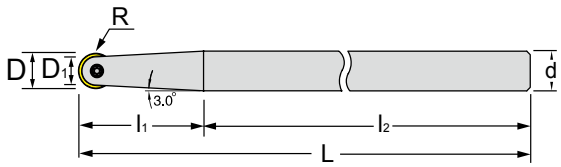
標準型 Standard Type

Fig.1



加長型 Extended Type

Fig.2



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

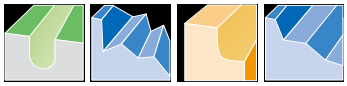
規格 Spec.	L	l_1	l_2	D	D_1	d	R	刀片 Insert	Fig.	重量 (KGS) Weight
C10-BR4-140L	140	30	110	8	7	10	R4	BR08	2	0.10
C10-BR5-130L	130	30	100	10	9	10	R5	BR10	1	0.10
C12-BR5-150L	150	35	115	10	9	12	R5	BR10	2	0.15
C12-BR6-130L	130	32	98	12	10	12	R6	BR12 / LC..	1	0.14
C16-BR6-160L	160	58	128	12	10	16	R6	BR12 / LC..	2	0.25
C16-BR8-150L	150	36	114	16	14	16	R8	BR16	2	0.25
C20-BR8-200L	200	65	135	16	14	20	R8	BR16	2	0.48
C20-BR10-160L	160	45	115	20	18	20	R10	BR20	2	0.39
C25-BR10-250L	250	76	174	20	18	25	R10	BR20	2	0.91
C25-BR12.5-180L	180	45	135	25	23	25	R12.5	BR25	2	0.67
C32-BR12.5-250L	250	98	152	25	23	32	R12.5	BR25	2	1.46
C32-BR16-200L	200	45	155	32	30	32	R16	BR32	2	1.24
C42-BR16-280L	280	98	182	32	30	42	R16	BR32	2	2.66

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
BR08	BR4	T8	1.2
BR10	BR5	T15	3.0
BR12/ LC..	BR6	T20	5.0
BR16.	BR8	T20	5.0
BR20	BR10	T20	5.0
BR25	BR12.5	T30	6.0
BR32	BR16	T30	6.0

• 長度單位 Unit of Length (mm)

BR 精切削全 R 端銑刀
BR PRECISION BALL NOSE END MILL



KOVIT

ISO 分類														
P	合金鋼 Alloyed Steels	○	○											
M	不鏽鋼 Stainless Steels	○	○											
K	鑄鐵 Cast Iron	○	○											
N	鋁及鋁合金 Aluminum&Al							○						
S	高溫合金 Refractory Alloys													
H	高硬度材 Hard Material	○												

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

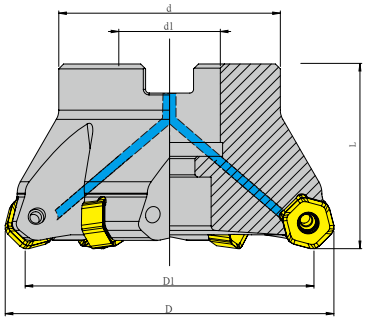
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain CHF						超微粒硬質合金 Micro grain cemented carbide HF						尺寸 (mm) Size				圖形 Drawing
		OM4010	OM4025					OM5005						d	i	s	r	
	BR08S	●	●					●						8	3	2	-	
	BR10S	●	●					●						10	4	2.5	-	
	BR12S	●	●					●						12	5	2.5	-	
	BR16S	●	●					●						16	5	3	-	
	BR20S	●	●					●						20	5	3	-	
	BR25S	●	●					●						25	6	4	-	
	BR30S	●	●					●						30	8	5	-	
	BR32S	●	●					●						32	8	5	-	
	LC1210	●												12	14	2.5	1	
	LC1220	●												12	14	2.5	2	
	LC1230	●												12	14	2.5	3	
	LC1210-F	●												12	14	2.5	1	
	LC1220-F	●												12	14	2.5	2	
	LC1230-F	●												12	14	2.5	3	
	LC1210-RE	●												12	14	2.5	1	
	LC1220-RE	●												12	14	2.5	2	
	LC1230-RE	●												12	14	2.5	3	
	LC1245-CH	●	●											12	14	2.5	-	
	LC1260-CH	●	●											12	14	2.5	-	

LC12.BR08.10.12.16.20.25.32 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)
P	低合金鋼 Low-Alloy Steels	OM4010	180~200	0.08~0.20
		OM4025	180~220	0.08~0.19
	合金鋼 Alloyed Steels	OM4010	100~140	0.08~0.12
		OM4025	100~120	0.06~0.12
M	不鏽鋼 Stainless Steels	OM4010	160~200	0.08~0.12
		OM4025	155~190	0.08~0.12
K	鑄鐵 Cast Iron	OM4025	110~143	0.09~0.11
N	鋁合金 Aluminum&Al	OM5005	300~500	0.05~0.30

• 長度單位 Unit of Length (mm)

NAC45 度負角殼型銑刀
NAC 45°NEGATIVE ANGLE SHELL MILLING CUTTER



NEW

特點 Feature

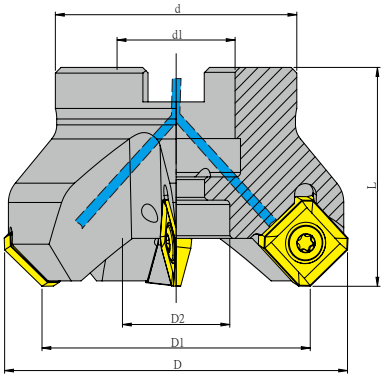
- 採用負角刀片，刀片切削角數增加，降低成本
- 加工方式適合大量移除鐵削

- Negative insert with 12 cutting edges. Effective cost-saving.
- Ideal for a large area of cutting.

規格 Spec.	L	D	D1	d	d1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
NAC45-50-HN06-FMB22-5T-C	40	57	50	45	22	5	HN..0604	0.64
NAC45-63-HN06-FMB22-6T-C	40	72	63	48	22	6	HN..0604	0.80
NAC45-80-HN06-FMB27-7T-C	50	87	80	55	27	7	HN..0604	1.40
NAC45-100-HN06-FMB32-8T-C	50	107	100	73	32	8	HN..0604	2.10
NEW NAC45-125-HN06-FMB40-10T-C	63	134	125	90	40	10	HN..0604	4.14

螺絲 Screw	扳手 Wrench	扭力值 Torque(N.m)
M3-7.0-4.3-43-T9-TIN	T9	1.4Nm

NAC45 度負角殼型銑刀
NAC 45°NEGATIVE ANGLE SHELL MILLING CUTTER



NEW

特點 Feature

- 採用負角刀片，刀片切削角數增加，降低成本
- 加工方式適合大量移除鐵削

- Negative insert with 8 cutting edges. Effective cost-saving.
- Ideal for a large area of cutting.

規格 Spec.	D1	D	L	D2	d	d1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
NAC45-50-SN12-FMB22-4T-C	50	65	40	20	48	22	4	SN..1206	0.57
NAC45-63-SN12-FMB22-6T-C	63	78	40	18	48	22	6	SN..1206	0.78
NAC45-80-SN12-FMB27-7T-C	80	95	50	32	62	27	7	SN..1206	1.39
NAC45-100-SN12-FMB32-8T-C	100	115	50	42	80	32	8	SN..1206	1.76
NAC45-125-SN12-FMB40-10T-C	125	140	63	50	90	40	10	SN..1206	3.5
NAC45-160-SN12-FMB40-12T-C	160	175	63	50	120	40	12	SN..1206	6.62

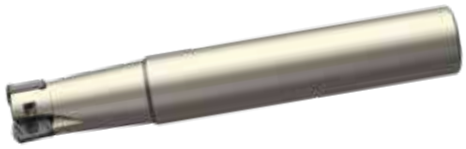
配件表 Accessories

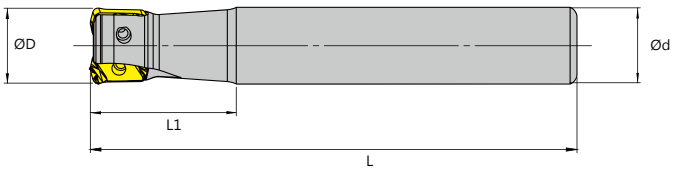
螺絲 Screw	扳手 Wrench	扭力值 Torque(N.m)
M4-10-6.6-R3.8-T15	T15	3.0Nm

• 長度單位 Unit of Length (mm)

NHF 高進給直柄銑刀
NHF HIGH FEED MILLING END MILL

NEW

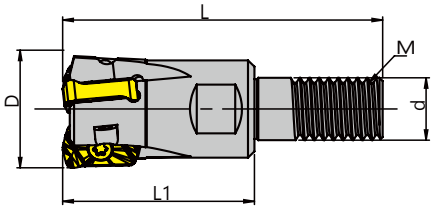




規格 Spec.	L	l_1	D	d	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
NHF-1516LN03-150L	150	30	15	16	2	LNMU0303	-
NHF-1616LN03-150L	150	40	16	16	2		-
NHF-1716LN03-150L	150	30	17	16	2		-
NHF-2020LN03-150L	150	40	20	20	3		-
NHF-2120LN03-150L	150	50	21	20	3		-
NHF-2525LN03-150L	150	60	25	25	4		-
NHF-2625LN03-150L	150	60	26	25	4		-
NHF-2625LN03-200L	200	60	26	25	4		-
NHF-3232LN03-150L	150	45	32	32	5		-
NHF-3532LN03-220L	220	60	35	32	5		-

NHF 高進給鎖牙銑刀
NHF HIGH FEED SCREW-ON MILLING END MILL

NEW

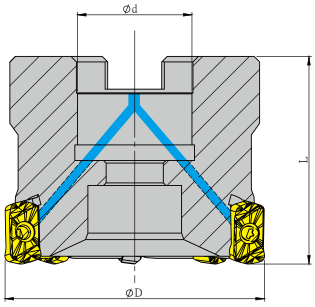


規格 Spec.	L	l_1	D	d	M	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
NHF-17M08-LN03	43	26	17	8.5	M08	2	LNMU0303	-
NHF-21M10-LN03	49	30	21	8.5	M10	3		-
NHF-26M12-LN03	57	35	26	8.5	M12	4		-
NHF-35M16-LN03	66	43	35	8.5	M16	4		-

• 長度單位 Unit of Length (mm)

NHF 高進給殼型銑刀
NHF HIGH FEED FACE MILLING CUTTER

NEW



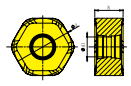
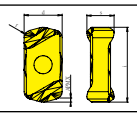
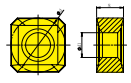
規格 Spec.	D	d	L	刃數 Flutes	重量 (KGS) Weight
NHF-40-FMB16-LN03-C	40	16	40	6	-
NHF-50-FMB22-LN03-C	50	22	50	8	-

配件表 Accessories

螺絲 Screw	扳手 Wrench	扭力值 Torque(N.m)
M2.5-6.45-3.7-43	T8	1.2Nm

負角刀片
NEGATIVE INSERT

ISO 分類												切削狀態 Cutting Condition :
	P	合金鋼 Alloyed Steels	○	○		○	○						● 連續切削 Continuous Cutting
	M	不鏽鋼 Stainless Steels		○	○	○	○						○ 一般切削 General Cutting
	K	鑄鐵 Cast Iron	○	○		○	○						■ 斷續切削 Interrupted Cutting
	N	鋁及鋁合金 Aluminum&Al							○				
	S	高溫合金 Refractory Alloys											
	H	高硬度材 Hard Material		○									

形狀 Shape	規格 Spec.	鍍層超微粒 Layer Coated micro grain						超微粒硬質合金 Micro grain cemented carbide				尺寸 (mm)				圖形 Drawing
		CHF						HF				Size				
		RM1125	OM4025	OM5035	RM4025	RM3130		OM5005				d	i	s	r	
	NEW HNGX0604ANEN-M01		●	●								10.5	-	5.2	-	
	NEW HNGX0604ANFN-F01							●				10.5	-	5.2	-	
	NEW LNMU0303ZER-MJ	●										6	11.9	4.3	1.2	
	NEW SNMU1206ANEN-M01				●	●						12.7	-	6.35	-	

NEW 新品 New Product

• 長度單位 Unit of Length (mm)

負角刀片 NEGATIVE INSERT

LN_03 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)
P	合金鋼 Alloyed Steels	RM1125	150(100~200)	0.7(0.5~1.2)
K	鑄鐵 Cast Iron	RM1125	150(80~250)	0.7(0.5~1.2)

HN_06 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)
P	合金鋼 Alloyed Steels	OM4025	220(150~300)	0.15(0.08~0.25)
M	不鏽鋼 Stainless Steels	OM5035	120(100~200)	0.12(0.08~0.20)
K	鑄鐵 Cast Iron	OM4025	180(130~240)	0.15(0.08~0.25)

SN_12 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)
P	合金鋼 Alloyed Steels	RM4025	220(170~320)	0.20(0.10~0.35)
K	鑄鐵 Cast Iron	RM3130	180(130~240)	0.20(0.10~0.35)

• 長度單位 Unit of Length (mm)

MAS

迷你銑刀
Mini Indexable End Mill

Feature

中心出水 Through Coolant

- 多刃型設計可提高加工效率
  Multi-cutting-edge design improves machining efficiency.

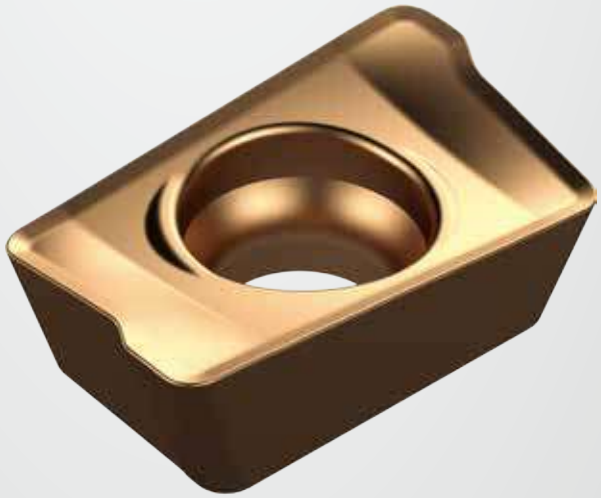
- 刀具材質選用特殊鋼材，增強刀具穩定性
  Made by special alloyed steel to enhance the stability of the cutting tool.

- 尺寸從Ø10~Ø63均有刀具搭配，鎖牙式結構可結合碳化鎢鎖牙延長桿，針對小尺寸及閃避干涉加工使用，適合電子產業及加工產業
  The MAS type cutters are available from 10 to 63 mm. We also have screwed on type structure which can be combined with tungsten carbide extension. They are suitable for small and interference cutting expecially for electronics industries.

APKT060204

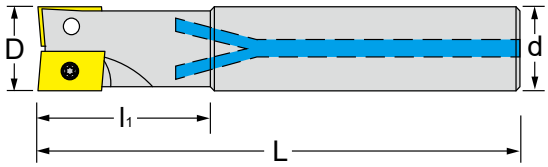
- 刃口強化，低阻力的高精度設計，適合斷續切削
  Low-resistance and high-precision design are good for interrupted cutting.

- 複合塗層，可提高刀片使用壽命
  Composite coating helps to improve insert life.



MAS 迷你銑刀
MAS MINI INDEXABLE END MILL

KOVIT



特點 Feature

- 刀具材質選用特殊鋼材，增強刀具穩定性
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made by special alloyed steel to enhance the stability of the cutting tool.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	l_1	D	d	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
MAS-1008AP06-100L-2T-C	100	15	10	8	2	AP..0602	0.06
MAS-1010AP06-80L-2T-C	80	20	10	10	2	AP..0602	0.06
MAS-1110AP06-80L-2T-C	80	20	11	10	2	AP..0602	0.06
MAS-1210AP06-100L-2T-C	100	20	12	10	2	AP..0602	0.08
MAS-1212AP06-80L-2T-C	80	20	12	12	2	AP..0602	0.08
MAS-1212AP06-80L-3T-C	80	20	12	12	3	AP..0602	0.08
MAS-1412AP06-80L-3T-C	80	20	14	12	3	AP..0602	0.08
MAS-1614AP06-160L-3T-C	160	25	16	14	3	AP..0602	0.2
MAS-1616AP06-120L-3T-C	120	25	16	16	3	AP..0602	0.18
MAS-1616AP06-160L-3T-C	160	25	16	16	3	AP..0602	0.24
MAS-1616AP06-90L-4T-C	90	25	16	16	4	AP..0602	0.14
MAS-1816AP06-90L-4T-C	90	25	18	16	4	AP..0602	0.16
MAS-2018AP06-160L-4T-C	160	30	20	18	4	AP..0602	0.32
MAS-2020AP06-160L-4T-C	160	30	20	20	4	AP..0602	0.38
MAS-2020AP06-100L-5T-C	100	30	20	20	5	AP..0602	0.22
MAS-2120AP06-110L-5T-C	110	30	21	20	5	AP..0602	0.26
MAS-2520AP06-110L-7T-C	110	40	25	20	7	AP..0602	0.28
MAS-2525AP06-120L-7T-C	120	40	25	25	7	AP..0602	0.44
MAS-3225AP06-130L-8T-C	130	45	32	25	8	AP..0602	0.54
MAS-4032AP06-140L-10T-C	140	45	40	32	10	AP..0602	0.94

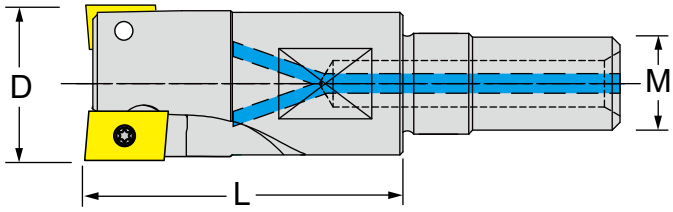
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
AP..0602	M1.8-3.9-2.45-60-TP6-EU	TP6-EU	0.6

• 長度單位 Unit of Length (mm)

MAS 鎖牙式迷你銑刀
MAS SCREW-ON END MILL

KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	D	M	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
NEW MAS-10-M5-AP06-C	20	10	M5	2	AP..0602	0.04
NEW MAS-11-M5-AP06-C	20	11	M5	2	AP..0602	0.04
MAS-10-M6-AP06-C	20	10	M6	2	AP..0602	0.04
MAS-11-M6-AP06-C	20	11	M6	2	AP..0602	0.04
MAS-12-M6-AP06-C	20	12	M6	3	AP..0602	0.04
MAS-13-M6-AP06-C	20	13	M6	3	AP..0602	0.04
MAS-16-M8-AP06-C	25	16	M8	4	AP..0602	0.06
MAS-17-M8-AP06-C	25	17	M8	4	AP..0602	0.06
MAS-20-M10-AP06-C	30	20	M10	5	AP..0602	0.08
MAS-21-M10-AP06-C	30	21	M10	5	AP..0602	0.08
MAS-25-M12-AP06-C	35	25	M12	7	AP..0602	0.14
MAS-26-M12-AP06-C	35	26	M12	7	AP..0602	0.14
MAS-32-M16-AP06-C	43	32	M16	8	AP..0602	0.24
MAS-40-M16-AP06-C	50	40	M16	10	AP..0602	0.36

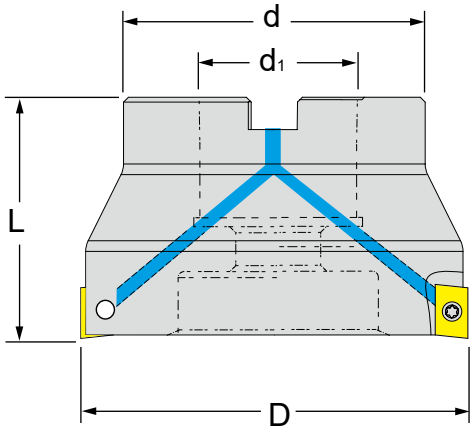
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
AP..0602	M1.8-3.9-2.45-60-TP6-EU	TP6-EU	0.6

• 長度單位 Unit of Length (mm)

BGP 迷你殼型銑刀
BGP FACE MILLING CUTTER

KOVIT



特點 Feature

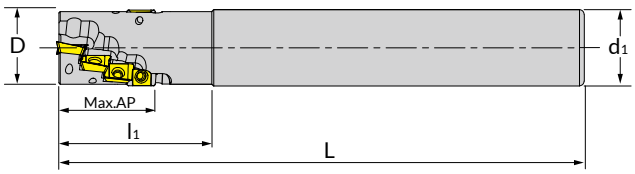
- 刀具材質選用特殊鋼材，增強刀具穩定性
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made by special alloyed steel to enhance the stability of the cutting tool.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	D	d	d1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
BGP-400-FMB16-AP06-10T-C	40	40	38.5	16	10	AP..0602	0.44
BGP-500-FMB22-AP06-12T-C	40	50	45	22	12	AP..0602	0.6
BGP-630-FMB22-AP06-14T-C	40	63	45	22	14	AP..0602	0.88

APE 迷你型粗切削銑刀
APE MINI ROUGH CUTTING END MILL

KOVIT NEW



規格 Spec.	Max. Ap	L	l1	D	d	刃數 T	刀片數量 Insert Qty.	刀片 Insert	重量 (KGS) Weight
APE-1216AP06-10L-2T	10	100	22	12	16	2	4	AP..0602	0.16
APE-1616AP06-15L-3T	15	110	26	16	16	3	9	AP..0602	-
APE-1616AP06-20L-2T	20	110	32	16	16	2	8	AP..0602	0.18
APE-1616AP06-30L-2T	30	110	40	16	16	2	10	AP..0602	0.18
APE-2020AP06-25L-3T	25	120	32	20	20	3	15	AP..0602	0.29

配件表 Accessories

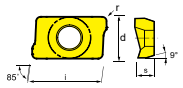
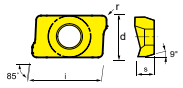
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 Torque (N.m)
AP..0602	M1.8-3.9-2.45-60-TP6-EU	TP6-EU	0.5

• 長度單位 Unit of Length (mm)

MAS 迷你銑刀
MAS MINI END MILL

KOVIT

ISO 分類										切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	P	合金鋼 Alloyed Steels	○							
	M	不鏽鋼 Stainless Steels	○							
	K	鑄鐵 Cast Iron								
	N	鋁及鋁合金 Aluminum&Al					○	○		
	S	高溫合金 Refractory Alloys								
	H	高硬度材 Hard Material								

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain								尺寸 (mm)				圖形 Drawing
		CHF				HF				Size				
		RM4130				RM5005	RM5060			d	i	s	r	
	APKT060204-M02	●								3.7	6.45	2.38	0.4	
	APKT060204-MT					●	●			3.7	6.45	2.38	0.4	

- MT 鋁合金專用 MT: Applicable to Aluminum

適用 BGP&MAS (Suitable for BGP & MAS)

被加工材質 Machining Materials		刀片材質 Materials	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)
P	合金鋼 Alloyed Steels	RM4130	160(70~260)	0.12(0.08~0.16)
M	不鏽鋼 Stainless Steels	RM4130	120(90~140)	0.10(0.08~0.12)
K	鑄鐵 Cast Iron	RM4130	140(100~240)	0.12(0.08~0.16)
N	鋁及鋁合金 Aluminum&Al	RM5005	400(300~800)	0.10(0.05~0.30)
		RM5060		

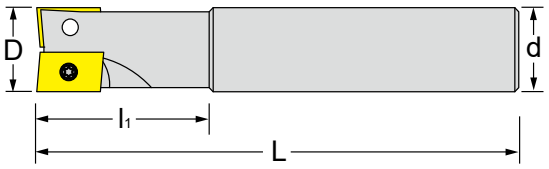
適用 APE (Suitable for APE)

被加工材質 Machining Materials		刀片材質 Materials	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	AE 切幅寬
P	合金鋼 Alloyed Steels	RM4130	80(70-180)	0.10(0.06~0.20)	0.8-1.5
M	不鏽鋼 Stainless Steels	RM4130	70(70-120)	0.08(0.06~0.15)	0.5-1.0
K	鑄鐵 Cast Iron	RM4130	80(70-140)	0.10(0.06~0.20)	1.0-2.0
N	鋁及鋁合金 Aluminum&Al	RM5005	300(250-600)	0.10(0.06~0.30)	1.0-2.0
		RM5060			

• 長度單位 Unit of Length (mm)

MAS 高速銑刀
MAS INDEXABLE HIGH SPEED END MILL

KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	l_1	D	d	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
MAS-1012-100L	100	20	10	12	1	AP..1003	0.09
MAS-1212-100L	100	25	12	12	1	AP..1003	0.09
MAS-1616-120L	120	25	16	16	2	AP..1003	0.18
MAS-1616-160L	160	25	16	16	2	AP..1003	0.24
MAS-1716-120L	120	25	17	16	2	AP..1003	0.30
MAS-1716-180L	180	25	17	16	2	AP..1003	0.30
MAS-2020-120L	120	30	20	20	2	AP..1003	0.28
MAS-2020-150L	150	30	20	20	2	AP..1003	0.36
MAS-2020-200L	200	30	20	20	2	AP..1003	0.49
MAS-2120-150L	150	30	21	20	2	AP..1003	0.38
MAS-2120-200L	200	30	21	20	2	AP..1003	0.60

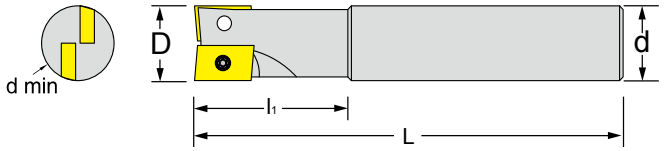
配件表 Accessories

規格 Spec.	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
MAS-1012-100L	APKT1003	M2.5-5.0-3.7-43	T8	1.2
MAS-1212-100L	APKT1003	M2.5-6.45-3.7-43	T8	1.2
MAS-1616-120L	APKT1003	M2.5-5.0-3.7-43	T8	1.2
MAS-1616-160L	APKT1003	M2.5-5.0-3.7-43	T8	1.2
MAS-1716-120L	APKT1003	M2.5-5.0-3.7-43	T8	1.2
MAS-1716-180L	APKT1003	M2.5-5.0-3.7-43	T8	1.2
MAS-2020-120L	APKT1003	M2.5-6.45-3.7-43	T8	1.2
MAS-2020-150L	APKT1003	M2.5-6.45-3.7-43	T8	1.2
MAS-2020-200L	APKT1003	M2.5-6.45-3.7-43	T8	1.2
MAS-2120-150L	APKT1003	M2.5-6.45-3.7-43	T8	1.2
MAS-2120-200L	APKT1003	M2.5-6.45-3.7-43	T8	1.2

• 長度單位 Unit of Length (mm)

MAS 高速銑刀
MAS INDEXABLE HIGH SPEED END MILL

KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

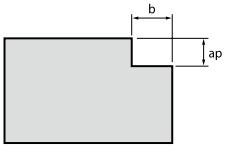
規格 Spec.	L	l_1	D	d	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
MAS-2525-150L	150	40	25	25	2	AP..1604	0.55
MAS-2525-220L	220	40	25	25	2	AP..1604	0.81
MAS-3232-150L	150	45	32	32	2	AP..1604	0.88
MAS-3232-150L	150	45	32	32	3	AP..1604	0.87
MAS-3232-200L	200	45	32	32	2	AP..1604	1.20
MAS-3232-250L	250	45	32	32	2	AP..1604	1.53
MAS-4032-150L	150	45	40	32	4	AP..1604	0.99
MAS-4032-250L	250	45	40	32	4	AP..1604	1.62

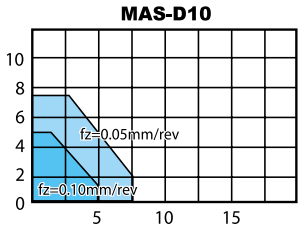
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
AP..1604	M4-10-5.7-60	T15	3.0

肩銑加工 Shoulder milling

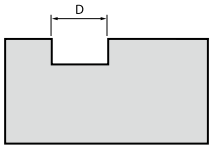
被削材質 Machining material :
S58C(HB220)

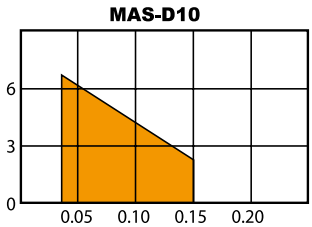




開槽加工 Grooving

被削材質 Machining material :
S58C(HB280)





• 長度單位 Unit of Length (mm)

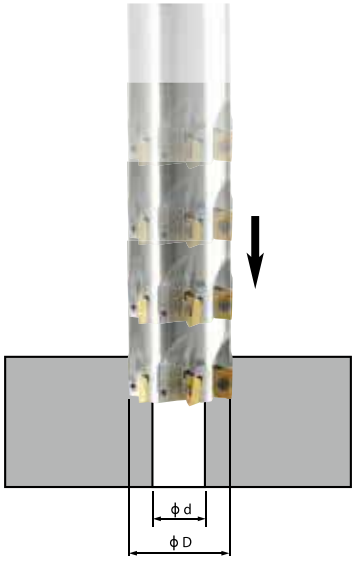
MAS 高速銑刀
MAS INDEXABLE HIGH SPEED END MILL

KOVIT

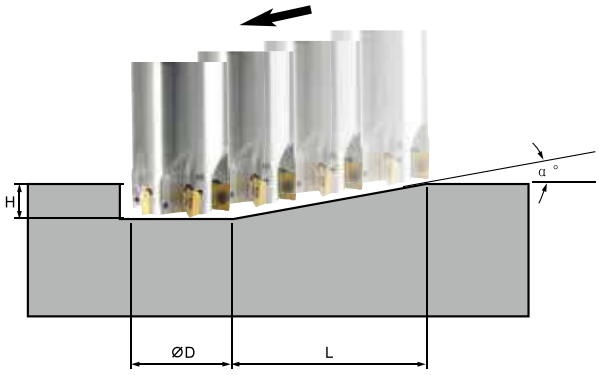
AP_10.16 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切 深 Ap(mm)
P	低合金鋼 Low-Alloy Steels	OM4025	220~300	0.14~0.24	1.0~2.0
		OM4025N	220~300	0.14~0.24	1.0~2.0
		RM4130	60~300	0.10~0.25	1.0~2.0
	合金鋼 Alloyed Steels	OM4025	100~195	0.12~0.20	1.0~2.0
		RM4130	60~300	0.10~0.25	1.0~2.0
M	不鏽鋼 Stainless Steels	OM4025	180~230	0.15~0.35	0.5~1.5
		RM4130	120~160	0.10~0.25	0.5~1.5
K	鑄鐵 Cast Iron	OM4025	200~300	0.06~0.30	1.5~3.0
		RM3130	200~300	0.06~0.30	1.5~3.0
N	鋁合金 Aluminum&Al	OM5005	400~850	0.05~0.30	1.5~3.0
		OM5060	400~850	0.05~0.30	1.5~3.0
		RM5005	400~850	0.05~0.30	1.5~3.0
		GH05	300~700	0.04~0.25	1.5~3.0
S	高溫合金 Refractory Alloys	RM535	25~40	0.01~0.20	1.0~2.0

沉孔頭加工 Countersink hole drilling



斜度銑削加工 Inclined milling



MAS AP_10

規格 Spec.	刀具直徑 Diameter ØD(mm)	下孔徑 Ød(mm)
MAS-1012-100L	10	6
MAS-1212-100L	12	5
MAS-1616-120L	16	5.5
MAS-2020-120L	20	8

MAS AP_16

規格 Spec.	刀具直徑 Diameter ØD(mm)	下孔徑 Ød(mm)
MAS-2525-150L	25	8
MAS-3232-150L	32	15
MAS-4032-150L	40	23

MAS AP_10

規格 Spec.	刀具直徑 Diameter ØD(mm)	最大斜度銑削角度 α° Max. inclined milling angle	L(mm) α° Max
MAS-1012-100L	10	5.0	91.5
MAS-1212-100L	12	32.0	14.4
MAS-1616-120L	16	15.0	33.5
MAS-2020-120L	20	7.5	128.7

MAS AP_16

規格 Spec.	刀具直徑 Diameter ØD(mm)	最大斜度銑削角度 α° Max. inclined milling angle	L(mm) α° Max
MAS-2525-150L	25	11.5	182
MAS-3232-150L	32	5.3	309
MAS-4032-150L	40	4.0	386

• 長度單位 Unit of Length (mm)

BGP 直角殼型平面銑刀
BGP SQUARE SHOULDER MILLING CUTTER

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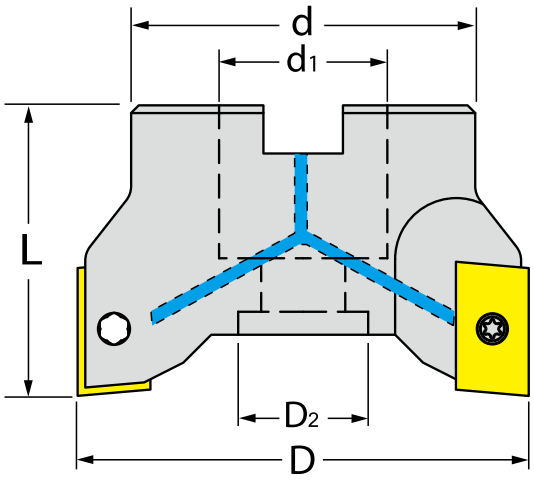


特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

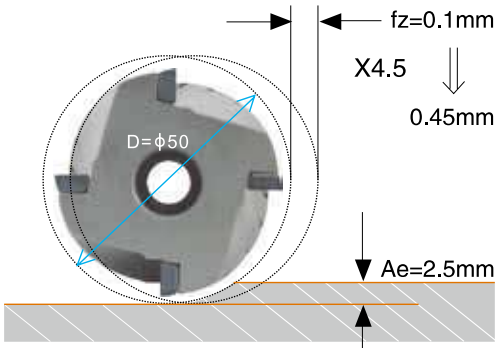
- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

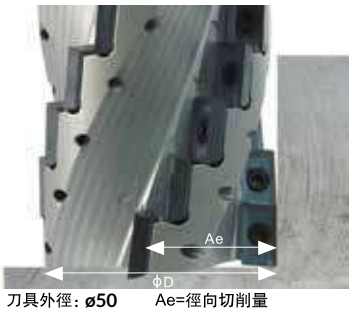
規格 Spec.	L	D	D_2	d	d_1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
BGP-500-FMB22-AP10-7T-C	40	50	18	40	22	7	AP..1003	0.54
BGP-630-FMB22-AP10-9T-C	40	60	18	48	22	9	AP..1003	0.76
BGP-800-FMB27-AP10-11T-C	50	80	32	62	27	11	AP..1003	1.36
BGP-1000-FMB32-AP10-13T-C	50	100	42	78	32	13	AP..1003	2.12
BGP-1250-FMB40-AP10-16T-C	63	125	50	89	40	16	AP..1003	3.66

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
AP..1003	M2.5-6.3-3.7-43-T8-TIN	T8	1.2

範例 Example





刀具外徑: **ø50**　Ae=徑向切削量

刀具外徑 Cutter outer diameter : Ø50
徑向切削量 Radial cutting : 2.5mm(5%)
進給率 × 倍數 Feeding speed x multiple : 4.5
當切削率 Practical cutting speed: Ae/D=100% → fz=0.1mm/rev　Ae/D=5% → ×4.5 → fz=0.45mm/rev

• 長度單位 Unit of Length (mm)

BGP 直角殼型平面銑刀
BGP SQUARE SHOULDER MILLING CUTTER

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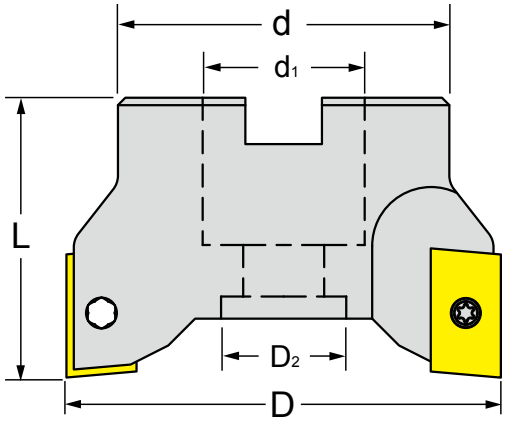

特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	D	D_2	d	d_1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
BGP-500	50	50	19	40	25.4	4	AP..1604	0.42
BGP-500-FMB22	50	50	18	40	22	4	AP..1604	0.46
BGP-630	50	63	19	50	25.4	5	AP..1604	0.72
BGP-630-FMB22	50	63	18	50	22	5	AP..1604	0.76
BGP-800	55	80	42	60	31.75	6	AP..1604	0.94
BGP-800-FMB27	55	80	42	60	27	6	AP..1604	0.99
BGP-1000	55	100	42	60	31.75	8	AP..1604	1.62
BGP-1000-FMB32	55	100	42	60	32	8	AP..1604	1.61
BGP-1250	63	125	60	85	38.1	8	AP..1604	3.09
BGP-1250-FMB40	63	125	60	85	40	8	AP..1604	3.07
BGP-1600	63	160	80	120	50.8	10	AP..1604	4.73
BGP-1600-FMB40	63	160	80	120	40	10	AP..1604	5.61

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
AP..1604	M4-10-5.7-60	T15	3.0

• 長度單位 Unit of Length (mm)

直角銑削刀片
RIGHT ANGLE MILLING INSERT

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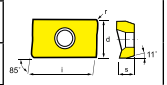
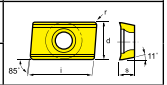
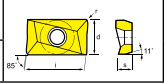
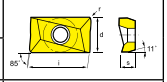
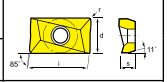
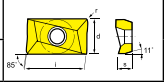
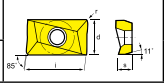
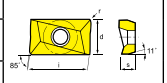
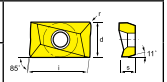
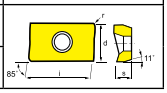
ISO 分類			OM4025	OM4025N	RM3130	RM4130	RM535		GH05	OM5005	OM5060	RM5005	RM5060
	P	合金鋼 Alloyed Steels	○	○		○							
	M	不鏽鋼 Stainless Steels	○			○							
	K	鑄鐵 Cast Iron	○		○								
	N	鋁及鋁合金 Aluminum&Al							■	■	○	■	
	S	高溫合金 Refractory Alloys					○						
	H	高硬度材 Hard Material											

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain CHF						超微粒硬質合金 Micro grain cemented carbide HF					尺寸 (mm) Size				圖形 Drawing
		OM4025	OM4025N	RM3130	RM4130	RM535		GH05	OM5005	OM5060	RM5005	RM5060	d	i	s	r	
	★ APEX100304PDFR-F01								●	●			6.68	10.5	2.38	0.4	
	★ APEX1604PDFR-F01								●	●			9.525	16.4	4.76	-	
	★ APEX160400PDFR-F01								●	●			9.525	16.4	4.76	-	
	★ APEX160404PDFR-F01								●	●			9.525	16.4	4.76	0.4	
	★ APEX160408PDFR-F01								●	●			9.525	16.4	4.76	0.8	
	APEX1604PDFR-701							●					9.525	16.4	4.76	0.2	
	APGT100304PDFR-F04										●		6.68	10.5	2.38	0.4	
	APGT1604PDFR-G2										●		9.525	16.5	4.76	0.8	
	APGT160408PDFR-F02										●		9.525	16.4	4.76	0.8	
	APHT1003PDFR-F03										●		6.68	10.4	3.47	0.8	
	APKT100304PDER-M04				●								6.68	10.5	2.38	0.4	
	APKT1003PDER-M05					●							6.68	10.5	3.47	-	
	APKT1604PDER-M05					●							9.525	16.4	4.76	0.4	
	★ APKT160408-M01	●	●										9.525	16.6	4.76	0.8	
	APKT160408PDER-M02			●	●								9.525	16.4	4.76	0.8	

★推薦 Recommended

• 長度單位 Unit of Length (mm)

直角銑削刀片
RIGHT ANGLE MILLING INSERT

KOVIT

AP_10.16 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切 深 Ap(mm)
P	低合金鋼 Low-Alloy Steels	OM4025	220~300	0.14~0.24	1.0~2.0
		OM4025N	220~300	0.14~0.24	1.0~2.0
		RM4130	60~300	0.10~0.25	1.0~2.0
	合金鋼 Alloyed Steels	OM4025	100~195	0.12~0.20	1.0~2.0
		RM4130	60~300	0.10~0.25	1.0~2.0
M	不鏽鋼 Stainless Steels	OM4025	180~230	0.15~0.35	0.5~1.5
		RM4130	120~160	0.10~0.25	0.5~1.5
K	鑄鐵 Cast Iron	OM4025	200~300	0.06~0.30	1.5~3.0
		RM3130	200~300	0.06~0.30	1.5~3.0
N	鋁合金 Aluminum&Al	OM5005	400~850	0.05~0.30	1.5~3.0
		OM5060	400~850	0.05~0.30	1.5~3.0
		RM5005	400~850	0.05~0.30	1.5~3.0
		GH05	300~700	0.04~0.25	1.5~3.0
S	高溫合金 Refractory Alloys	RM535	25~40	0.10~0.20	1.0~3.0

主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑)
Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).
床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速
Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

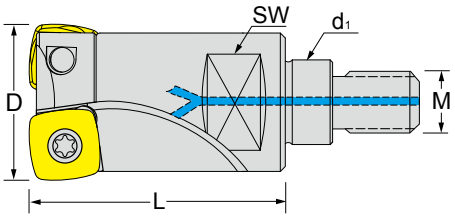
增加切削效率公式 Formula of advancing cutting efficiency

刀具刃徑切寬百分比 Percentage between insert diameter and cutting width	進給率 × 倍數 Feeding speed x Multiple	刀具刃徑切寬百分比 Percentage between insert diameter and cutting width	進給率 × 倍數 Feeding speed x Multiple
1%	10.00	9%	3.30
2%	7.00	10%	3.20
3%	5.80	20%	2.20
4%	5.00	30%	1.80
5%	4.50	40%	1.60
6%	4.00	50%	1.40
7%	3.80	60%	1.30
8%	3.50	70<100%	1.00

• 長度單位 Unit of Length (mm)

HAS 鎖牙式大進給切削刀具
HAS SCREW-ON HIGH SPEED MILLING CUTTER

KOVIT



特點 Feature

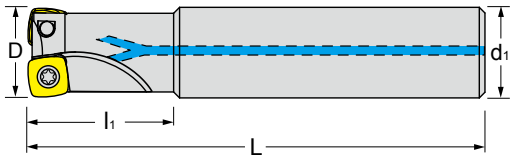
- 切削力以軸向為主，與圓形刀片刀具相比較，刀片及刀具的使用壽命較長
- 可大進給切削工件，減少加工時間
- 刀片可使用四個刃口，有效降低成本

-The cutting force is exerted in the axial direction. Compare with cutters using round inserts, cutters using square inserts are more durable.
-Available for high feeding cutting, and is able to shorten processing time.
-There are 4 edges usable on each insert, effective cost-saving.

規格 Spec.	L	D	d_1	M	SW	鎖固力 (N.m)	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
HAS-1616-M8-SP06-C	25	16	8.5	8	10	25	2	SP..0603	0.04
HAS-2020-M10-SP06-C	35	20	10.5	10	15	40	3	SP..0603	0.07
HAS-2525-M12-SP06-C	35	25	12.5	12	19	60	4	SP..0603	0.10
HAS-3232-M16-SP06-C	43	32	17	16	26	80	5	SP..0603	0.22
HAS-2525-M12-SD09-C	35	25	12.5	12	19	60	2	SD..0904	0.08
HAS-3232-M16-SD09-C	43	32	17	16	26	80	3	SD..0904	0.19
HAS-4040-M16-SD09-C	50	40	17	16	30	80	4	SD..0904	0.39

HAS 直柄式大進給切削刀具
HAS STRAIGHT SHANK HIGH SPEED MILLING CUTTER

KOVIT



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-The cutting force is exerted in the axial direction. Compare with cutters using round inserts, cutters using square inserts are more durable.
-Available for high feeding cutting, and is able to shorten processing time.
-There are 4 edges usable on each insert, effective cost=saving.

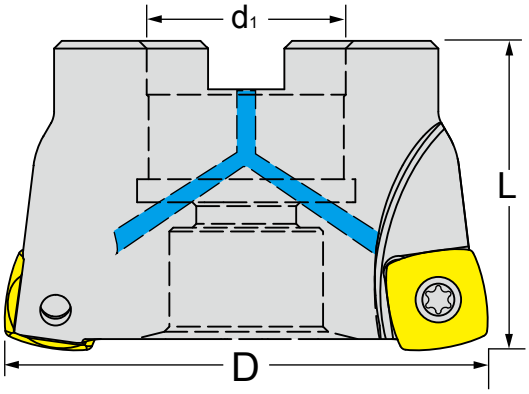
規格 Spec.	L	l_1	D	d_1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
HAS-1616-120L-C	120	25	16	16	2	SP..0603	0.15
HAS-2020-120L-C	120	32	20	20	3	SP..0603	0.24
HAS-2525-150L-C	150	40	25	25	4	SP..0603	0.49
HAS-3232-150L-C	150	40	32	32	5	SP..0603	0.83
HAS-2525-120L-C	120	35	25	25	2	SD..0904	0.42
HAS-2625-120L-C	120	35	26	25	2	SD..0904	0.44
HAS-3232-130L-C	130	40	32	32	3	SD..0904	0.74
HAS-3332-130L-C	130	40	33	32	3	SD..0904	0.76
HAS-4032-170L-C	170	50	40	32	4	SD..0904	1.10

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SP..0603	M2.5-6.3-3.7-43-T8-TIN	T8	1.2
SD..0904	M3.5-10-5.2-43-T15-TIN	T15	3.0

HGP 殼型式大進給切削刀具
HGP SHELL HIGH SPEED MILLING CUTTER

KOVIT



特點 Feature

- 切削力以軸向為主，與圓形刀片刀具相比較，刀片及刀具的使用壽命較長
- 可大進給切削工件，減少加工時間
- 刀片可使用四個刃口，有效降低成本

-The cutting force is exerted in the axial direction. Compare with cutters using round inserts, cutters using square inserts are more durable.
-Available for high feeding cutting, and is able to shorten processing time.
-There are 4 edges usable on each insert, effective cost-saving.

規格 Spec.	L	D	d_1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
HGP-500-FMB22-C	40	50	22	4	SD..1205	0.37
HGP-500-FMA25.4-C	40	50	25.4	4	SD..1205	0.38
HGP-630-FMB22-C	40	63	22	4	SD..1205	0.54
HGP-630-FMA25.4-C	40	63	25.4	4	SD..1205	0.66
HGP-800-FMB27-C	50	80	27	5	SD..1205	1.03
HGP-800-FMA31.75-C	50	80	31.75	5	SD..1205	1.04
HGP-1000-FMB32-C	50	100	32	6	SD..1205	1.54
HGP-1000-FMA31.75-C	50	100	31.75	6	SD..1205	1.54
HGP-1250-FMB40-C	63	125	40	8	SD..1205	3.38
HGP-1250-FMA38.1-C	63	125	38.1	8	SD..1205	3.37

配件表 Accessories

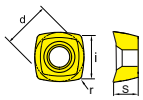
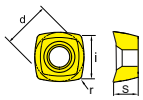
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SD..1205	M4-13-5.2-43-T15-TIN	T15	3.0

• 長度單位 Unit of Length (mm)

HAS/HGP 大進給切削刀具
HAS/HGP HIGH SPEED MILLING CUTTER

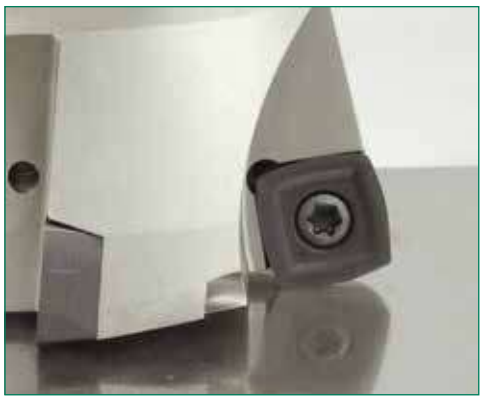
KOVIT

ISO 分類														切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	P	合金鋼 Alloyed Steels	○	○	○									
	M	不鏽鋼 Stainless Steels	○	○	○									
	K	鑄鐵 Cast Iron	○	○	○									
	N	鋁及鋁合金 Aluminum&Al									■			
	S	高溫合金 Refractory Alloys												
	H	高硬度材 Hard Material	○											

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain								超微粒硬質合金 Micro grain cemented carbide				尺寸 (mm)				圖形 Drawing
		CHF								HF				Size				
		OM4010	OM4025	RM4025						OM5005				d	i	s	r	
	SDET090408EDER-M01	●	●											9.52	9.52	4.76	0.8	
	NEW SDMT090408EDER-M04			●										9.52	9.52	4.76	0.8	
	SDET120508ER-M01	●	●											12.7	12.7	5.56	0.8	
	NEW SDMT120508EDER-M04			●										12.7	12.7	5.56	0.8	
	SPET060308ER-M01	●	●							●				7	7	3.18	0.8	
	NEW SPMT060308EDER-M04			●										7	7	3.18	0.8	

NEW 新品 New Product

範例 Example



• 長度單位 Unit of Length (mm)

CHAIN HEADWAY

HAS/HGP 大進給切削刀具
HAS/HGP HIGH SPEED MILLING CUTTER

KOVIT

SP_06/SD_09.12 切削條件數據表 Cutting Parameter

SP..0603

被加工材質 Machining Materials		面銑 Facing			開槽 Slotting			插銑 Plunging		
		切削速度 Speed	每刃進給 Feed	切深 D.O.C.	切削速度 Speed	每刃進給 Feed	切深 D.O.C.	切削速度 Speed	每刃進給 Feed	切寬 W.O.C.
		V_c (m/min)	h_m (mm)	a_p max (mm)	V_c(m/min)	h_m (mm)	a_p max (mm)	V_c(m/min)	f max (mm)	a_e max (mm)
P	低合金鋼 Low-Alloy Steels	107-235	0.2-0.8	0.9	107-235	0.2-0.6	0.9	107-235	0.04-0.15	3
	合金鋼 Alloyed Steels	75-160	0.2-0.8	0.9	75-160	0.2-0.6	0.9	75-160	0.04-0.1	3
M	不鏽鋼 Stainless Steels	115-265	0.15-0.8	0.9	115-265	0.15-0.6	0.9	115-265	0.04-0.12	3
	析出硬化系 Precipitation-Hardening	50-150	0.15-0.8	0.9	50-150	0.15-0.6	0.9	50-150	0.04-0.12	3
K	鑄鐵 Cast Iron	152-335	0.2-0.8	0.9	152-335	0.2-0.6	0.9	152-335	0.04-0.12	3
N	鋁及鋁合金 Aluminum&Al	-	-	-	-	-	-	-	-	-
S	高溫合金 Refractory Alloys	25-60	0.15-0.5	0.9	25-60	0.1-0.4	0.9	25-60	0.04-0.08	3
H	高硬度材質 Hard Material	35-100	0.2-0.5	0.9	35-100	0.2-0.4	0.9	35-100	0.04-0.08	3

SD..0904

被加工材質 Machining Materials		面銑 Facing			開槽 Slotting			插銑 Plunging		
		切削速度 Speed	每刃進給 Feed	切深 D.O.C.	切削速度 Speed	每刃進給 Feed	切深 D.O.C.	切削速度 Speed	每刃進給 Feed	切寬 W.O.C.
		V_c (m/min)	h_m (mm)	a_p max (mm)	V_c(m/min)	h_m (mm)	a_p max (mm)	V_c(m/min)	f max (mm)	a_e max (mm)
P	低合金鋼 Low-Alloy Steels	120-235	0.3-2.0	1.5	120-235	0.3-1.5	1.5	120-235	0.1-0.2	6.0
	合金鋼 Alloyed Steels	70-160	0.3-2.0	1.5	70-160	0.3-1.5	1.5	70-160	0.1-0.16	6.0
M	不鏽鋼 Stainless Steels	115-265	0.2-1.0	1.5	115-265	0.2-0.8	1.5	115-265	0.12-0.16	6.0
	析出硬化系 Precipitation-Hardening	50-100	0.02-0.6	1.5	50-100	0.1-0.4	1.5	50-100	0.05-0.08	6.0
K	鑄鐵 Cast Iron	150-395	0.3-2.0	1.5	150-395	0.3-1.5	1.5	150-395	0.1-0.2	6.0
N	鋁及鋁合金 Aluminum&Al	400-1000	0.3-1.5	1.5	400-1000	0.3-1.0	1.5	400-1000	0.1-0.3	6.0
S	高溫合金 Refractory Alloys	25-60	0.2-0.8	1.5	25-60	0.1-0.5	1.5	25-60	0.05-0.1	6.0
H	高硬度材質 Hard Material	35-100	0.3-1.0	1.5	35-100	0.3-0.8	1.5	35-100	0.08-0.12	6.0

SD..1205

被加工材質 Machining Materials		面銑 Facing			開槽 Slotting			插銑 Plunging		
		切削速度 Speed	每刃進給 Feed	切深 D.O.C.	切削速度 Speed	每刃進給 Feed	切深 D.O.C.	切削速度 Speed	每刃進給 Feed	切寬 W.O.C.
		V_c (m/min)	h_m (mm)	a_p max (mm)	V_c(m/min)	h_m (mm)	a_p max (mm)	V_c(m/min)	f max (mm)	a_e max (mm)
P	低合金鋼 Low-Alloy Steels	120-235	0.3-3.0	2.5	120-235	0.3-2.0	2.0	120-235	0.1-0.25	9.0
	合金鋼 Alloyed Steels	70-160	0.3-3.0	2.5	70-160	0.3-2.0	2.0	70-160	0.1-0.18	9.0
M	不鏽鋼 Stainless Steels	115-265	0.2-1.2	2.5	115-265	0.2-1.0	2.0	115-265	0.12-0.13	9.0
	析出硬化系 Precipitation-Hardening	50-100	0.02-0.7	2.5	50-100	0.1-0.6	2.0	50-100	0.05-0.1	9.0
K	鑄鐵 Cast Iron	150-395	0.3-3.0	2.5	150-395	0.3-2.0	2.0	150-395	0.1-0.25	9.0
N	鋁及鋁合金 Aluminum&Al	400-1000	0.3-1.5	2.5	400-1000	0.3-1.5	2.0	400-1000	0.1-0.4	9.0
S	高溫合金 Refractory Alloys	25-60	0.2-1.0	2.5	25-60	0.1-0.7	2.0	25-60	0.05-0.12	9.0
H	高硬度材質 Hard Material	35-100	0.3-1.5	2.5	35-100	0.3-1.0	2.0	35-100	0.08-0.15	9.0

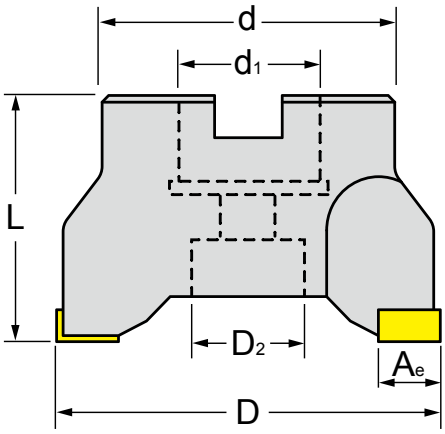
▎主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑)　Spindle Speed=(1000× Cutting speed)÷(3.14×Cutter outer diameter).

▎床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速　Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

MSAE 強力型插銑刀頭
MSAE SQUARE SHOULDER MILLING CUTTER

KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	D	D_2	d	d_1	切幅寬 Ae	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
MSAE-50-FMB22	50	50	18	42	22	11	3	CN..1206	0.47
MSAE-63-FMB22	50	63	18	50	22	14	3	CN..1508	0.75
MSAE-80	55	80	42	60	25.4	14	4	CN..1508	1.05
MSAE-80-FMB27	55	80	42	60	27	14	4	CN..1508	1.03

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
CN..1206	M4-10-5.7-60	T15	3.0
CN..1508	M5-14-7.0-43	T20	5.0

ISO 分類													
	P	合金鋼 Alloyed Steels	○	○									
	M	不鏽鋼 Stainless Steels	○	○									
	K	鑄鐵 Cast Iron	○	○									
	N	鋁及鋁合金 Aluminum&Al											
	S	高溫合金 Refractory Alloys											
	H	高硬度材 Hard Material	○										

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coating ultra-micro CHF										尺寸 (mm) Size				圖形 Drawing
		OM4010	OM4025									d	i	s	r	
	CNEX120612-M01	●	●									12.7	-	6.35	1.2	
	CNEX150812-M01	●	●									15	-	8	1.2	

• 長度單位 Unit of Length (mm)

MSAE 強力型插銑刀頭
MSAE SQUARE SHOULDER MILLING CUTTER

KOVIT

特點 Feature

大進給、大切深，排屑性良好。可做多種加工方式應用。加工範圍可遍及零件加工、模具製造業使用。

High feeding, deep cutting, and smooth chip evacuation. Available for various processing. Could be applied to part processing, mold making.

刀片可承受高進給時所產生的巨大切削阻力。由於容屑槽較大，可供鐵屑暫時停留排出，較不受鐵屑干擾，而產生震動，影響切削效率。

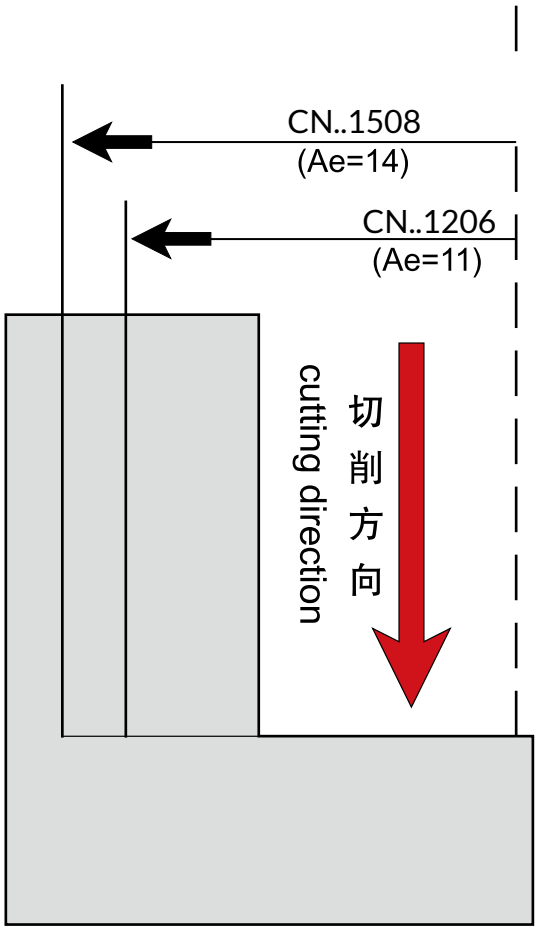
The insert can bear huge cutting resistance during high feeding. With bigger chip breaker which stores chips temporally, the cutter is free of vibration and is high cutting efficiency.

本刀片設計於優越的斷屑能力，及降低切削阻力。並增加刀片刃口強度，有助於重插銑、中插銑及半精加工。

The insert is designed with superior chip breaking, strong flutes and low cutting resistance which is suitable for plunge milling and semi-finishing.

本刀片採用超微粒底材，鍍層 PVD 的 (TiAlSi)N 被覆，可泛用於各種加工材質。

The insert is made of PVD (TiAlSi)N coated micro grain substrate, and is available for processing different materials.



CN_12.15 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)
P	低合金鋼 Low-Alloy Steels	OM4010	90~190	0.10~0.25
		OM4025	80~170	0.08~0.25
	合金鋼 Alloyed Steels	OM4010	70~160	0.08~0.20
		OM4025	70~160	0.08~0.20
M	不鏽鋼 Stainless Steels	OM4010	70~180	0.10~0.20
		OM4025	70~160	0.10~0.18
K	鑄鐵 Cast Iron	OM4025	110~180	0.08~0.25

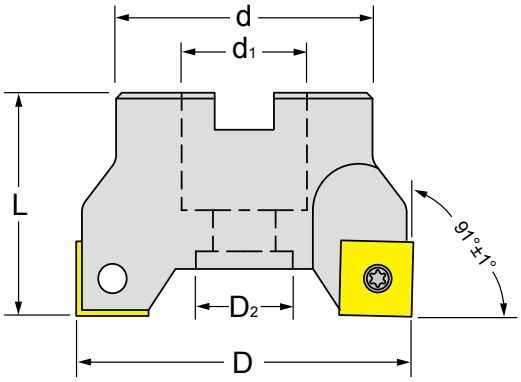
主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑)
Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速
Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

SGP 直角殼型平面銑刀
SGP SQUARE SHOULDER MILLING CUTTER

KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	D	D_2	d	d_1	切幅寬 Ae	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
SGP-50-FMB22	50	50	18	40	22	12	4	SP..1204	0.44
SGP-63	50	63	19	50	25.4	12	5	SP..1204	0.68
SGP-63-FMB22	50	63	18	50	22	12	5	SP..1204	0.71
SGP-80	50	80	32	60	25.4	12	6	SP..1204	0.93
SGP-80-FMB27	50	80	32	60	27	12	6	SP..1204	0.99
SGP-100	55	100	42	70	31.75	12	8	SP..1204	1.71
SGP-100-FMB32	55	100	42	70	32	12	8	SP..1204	1.71
SGP-125-FMB40	63	125	58	90	40	12	8	SP..1204	3.22
SGP-160-FMB40	63	160	58	130	40	12	10	SP..1204	6.22

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SP..1204	M5-10-6.3-43	T20	5.0

可有效使用刀片切削刃，可利用刀刃可達四刃，具有經濟效率的刀片。
4 indexable edges, effective cost-saving..

刀片可與其他粗切削工具互換使用。
Inserts are compatible with other rough cutting tools.

最大切削量可達 10mm，加工範圍為 50~100mm。
Max. cutting amount is up to 10mm, and machining range is from 50mm to 100mm.

可使用在平面銑削與肩部銑削。
Available for face milling and shoulder milling.

• 長度單位 Unit of Length (mm)

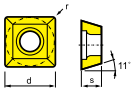
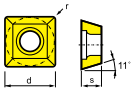
SGP 直角殼型平面銑刀
SGP SQUARE SHOULDER MILLING CUTTER

KOVIT

ISO 分類														
	P	合金鋼 Alloyed Steels	○	○	○									
	M	不鏽鋼 Stainless Steels	○	○	○									
	K	鑄鐵 Cast Iron	○	○	○									
	N	鋁及鋁合金 Aluminum&Al							■					
	S	高溫合金 Refractory Alloys												
	H	高硬度材 Hard Material	○											

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain						超微粒硬質合金 Micro grain cemented carbide						尺寸 (mm)				圖形 Drawing
		CHF						HF						Size				
		OM4010	OM4025	RM4025				OM5005						d	i	s	r	
	SPET120408-M02							●						12.7	-	4.76	0.8	
	SPMT120408-R01			●										12.7	-	4.76	0.8	

SP_12 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切 深 Ap(mm)
P	低合金鋼 Low-Alloy Steels	OM4010	100~220	0.10~0.35	2.0~9.0
		OM4025	100~220	0.10~0.35	2.0~9.0
		RM4025	100~220	0.10~0.35	2.0~9.0
	合金鋼 Alloyed Steels	OM4010	70~120	0.10~0.25	1.0~5.0
		OM4025	70~120	0.10~0.25	1.0~5.0
		RM4025	70~120	0.10~0.25	1.0~5.0
M	不鏽鋼 Stainless Steels	OM4010	130~200	0.12~0.30	3.0~8.0
		OM4025	130~200	0.12~0.30	3.0~8.0
K	鑄鐵 Cast Iron	OM4010	100~210	0.10~0.20	2.0~9.0
		OM4025	100~210	0.10~0.20	2.0~9.0
N	鋁合金 Aluminum&Al	OM5005	450(500~700)	1.2(1.2~1.8)	2.0~9.0

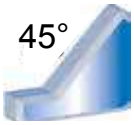
主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑)
Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

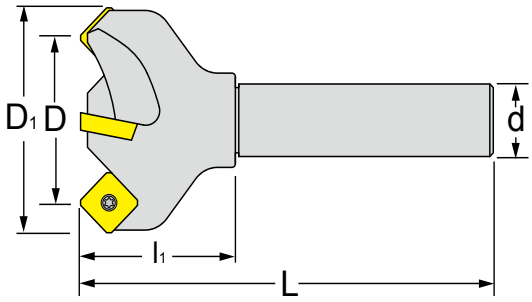
床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速
Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

KE45°高速端銑刀
KE45°HIGH SPEED FACE MILLING CUTTER

KOVIT





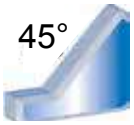
特點 Feature

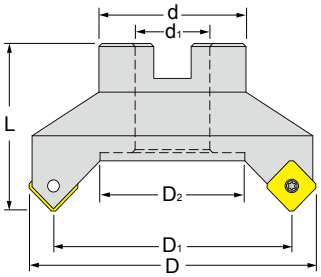
- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	l_1	D	D_1	d	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
C20-KE50	120	45	50	63.7	20	4	SE..1204	0.77
C25-KE50	120	45	50	63.7	25	4	SE..1204	0.85
C32-KE50	120	45	50	63.7	32	4	SE..1204	1.06
C25-KE63	120	45	63	75	25	5	SE..1204	1.14
C32-KE63	120	45	63	75	32	5	SE..1204	1.36

KM45°殼型銑刀
KM45° FACE SHELL MILLING CUTTER





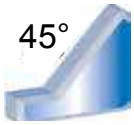
規格 Spec.	L	D	D_1	D_2	d	d_1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
KM-50-FMB22	40	63	50	18	46	22	4	SE..1204	0.52
KM-63	45	76	63	19	48	25.4	5	SE..1204	0.78
KM-63-FMB22	45	76	63	18	48	22	5	SE..1204	0.80
KM-80	50	95	80	45	60	31.75	6	SE..1204	1.15
KM-80-FMB27	50	95	80	44.2	60	27	6	SE..1204	1.21
KM-100	50	114	100	61.8	80	31.75	6	SE..1204	1.83
KM-100-FMB32	50	114	100	61.8	80	32	6	SE..1204	1.81
KM-125	63	140	125	72.1	90	38.1	8	SE..1204	3.07
KM-125-FMB40	63	140	125	72.1	90	40	8	SE..1204	3.04
KM-160	63	175	160	110.9	120	50.8	10	SE..1204	5.05
KM-160-FMB40	63	175	160	110.9	120	40	10	SE..1204	5.35
KM-200	63	215	200	145.9	160	47.625	12	SE..1204	7.62
KM-250	63	265	250	195.8	220	47.625	14	SE..1204	13.3

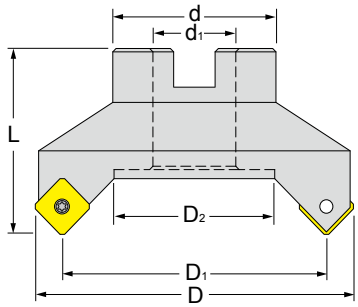
• 長度單位 Unit of Length (mm)

KM45°殼型銑刀
KM45° FACE SHELL MILLING CUTTER

KOVIT

左旋 Counterclockwise





規格 Spec.	L	D	D_1	D_2	d	d_1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
KM-80-FMB27-L	50	95	80	44.2	60	27	6	SE..1204	1.17
KM-80-FMA31.75-L	50	94	80	45	60	31.75	6	SE..1204	0.66
KM-100-FMB32-L	50	114	100	61.8	80	32	6	SE..1204	1.83
KM-125-FMB40-L	63	140	125	72.1	90	40	8	SE..1204	3.07
KM-160-FMB40-L	63	175	160	110.9	120	40	10	SE..1204	5.05

配件表 Accessories

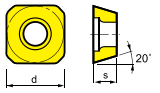
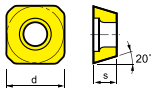
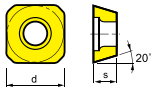
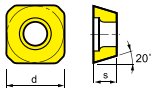
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SE..1204	M5-11-7.0-55	T20	5.0

KM45°殼型銑刀
KM45° FACE SHELL MILLING CUTTER

ISO 分類														
P	合金鋼 Alloyed Steels	○	○					○						
M	不鏽鋼 Stainless Steels	○	○	○										
K	鑄鐵 Cast Iron	○	○											
N	鋁及鋁合金 Aluminum&Al									■	■			
S	高溫合金 Refractory Alloys													
H	高硬度材 Hard Material	○						○						

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coating ultra-micro						瓷金 Cermet		超硬微粒 Ultra-hard microprogram				尺寸 (mm)				圖形 Drawing
		CHF						HT		HF				Size				
		OM4010	OM4025	RM4230				OM1205		GH1	OM5060			d	i	s	r	
	★ SEHT1204AFEN-M01	●	●											12.7	-	4.76	Facet	
	SEHT1204AFFN-M02			●										12.7	-	4.76	Facet	
	SEHT1204AFFN									●	●			12.7	-	4.76	-	
	SEKW1204AFN		●					●						12.7	-	4.76	-	

★ 推薦 Recommended

• 長度單位 Unit of Length (mm)

KM45°殼型銑刀
KM45° FACE SHELL MILLING CUTTER

KOVIT

SE_12 切削條件數據表 Cutting Parameter

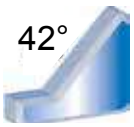
被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切深 Ap(mm)
P	低合金鋼 Low-Alloy Steels	OM4010	260~320	0.20~0.45	1.0~3.0
		OM4025	220~260	0.20~0.45	1.0~3.0
		RM4025	220~260	0.20~0.45	1.0~3.0
	合金鋼 Alloyed Steels	OM1205	100~195	0.05~0.15	1.0~2.0
		OM4010	130~250	0.20~0.35	1.0~3.0
		OM4025	100~195	0.05~0.15	1.0~2.0
		RM4025	100~195	0.20~0.35	1.0~3.0
M	不鏽鋼 Stainless Steels	OM4010	180~220	0.10~0.30	1.0~2.0
		OM4025	140~180	0.10~0.30	1.0~2.0
	析出硬化系 Precipitation-Hardening	OM4010	90~120	0.15~0.20	0.2~1.0
		OM4025	70~85	0.15~0.20	0.2~1.0
K	鑄鐵 Cast Iron	OM4010	160~300	0.12~0.35	1.0~3.0
		OM4025	180~300	0.15~0.35	1.0~3.0
N	鋁合金 Aluminum&Al	OM5060	500~850	0.15~0.35	3.6~6.0
		GH1	275~450	0.15~0.35	3.0~6.0

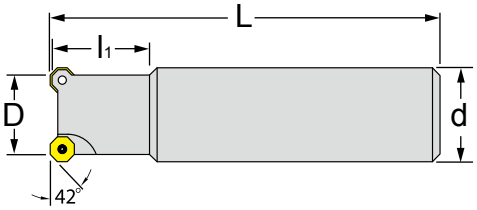
主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑) Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速 Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

SKM 高速八角面銑刀
SKM HIGH SPEED FACE MILLING CUTTER

KOVIT





特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	l_1	D	d	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
SKM-2520-120L	120	40	25	20	2	OD..0404	0.32
SKM-2525-120L	120	40	25	25	2	OD..0404	0.45
SKM-3225-120L	120	40	32	25	3	OD..0404	0.48
SKM-3232-120L	120	40	32	32	3	OD..0404	0.71
SKM-4032-120L	120	50	40	32	4	OD..0404	0.82

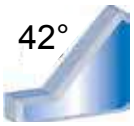
配件表 Accessories

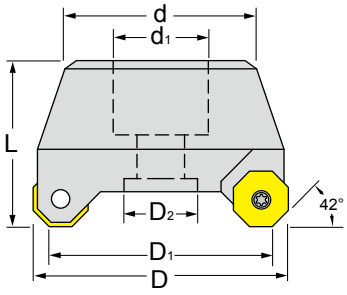
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
OD..0404	M4-10-5.7-60	T15	3.0

• 長度單位 Unit of Length (mm)

SKM 高速八角面殼型銑刀
SKM HIGH SPEED FACE SHELL MILLING CUTTER

KOVIT





特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

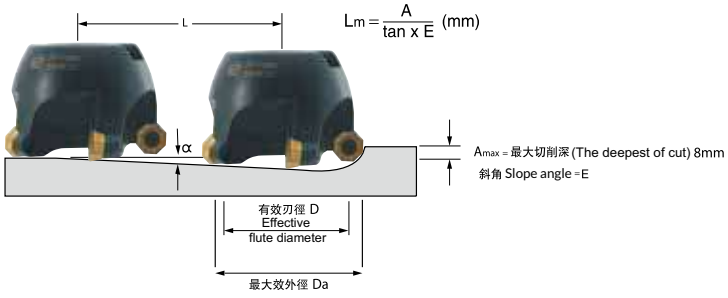
- Made of anti-vibration tool steel
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	D	D_1	D_2	d	d_1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
SKM-50-FMB22	45	58	50	18	42.24	22	4	OD..0404	0.50
SKM-63	45	71	63	19	48.82	25.4	5	OD..0404	0.63
SKM-63-FMB22	45	71	63	18	48.82	22	5	OD..0404	0.67
SKM-80	50	88	80	44	61.78	31.75	6	OD..0404	1.13
SKM-80-FMB27	50	88	80	35	61.78	27	6	OD..0404	1.24
SKM-100	55	108	100	45	70	31.75	7	OD..0404	1.86
SKM-100-FMB32	55	108	100	45	70	32	7	OD..0404	1.86
SKM-125	58	133	125	60	90	38.1	8	OD..0404	3.13
SKM-160	63	168	160	93.81	125	50.8	10	OD..0404	5.83

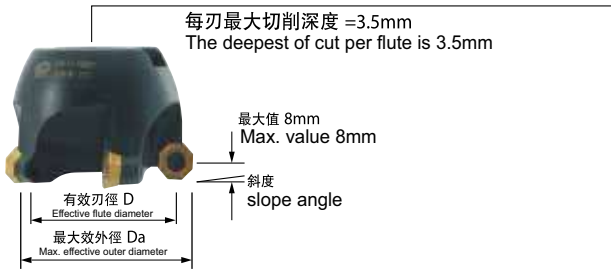
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
OD..0404	M4-10-5.7-60	T15	3.0

直角斜度銑削公式 Inclination angle milling formula :



螺旋斜度銑削公式
Formula to spiral milling



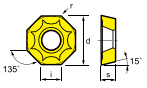
螺旋銑削加工數據 Spiral milling data				
銑削刀具 Milling cutter		螺旋切削直徑 ØSpiral milling cutting diameter		斜度 incline
有效刃徑 D effective flute diamter	最大外徑 Da Max. outer diameter	最小值 D Min.	最大值 D Max.	
Ø50	Ø60	Ø94	Ø118	6.0°
Ø63	Ø73	Ø120	Ø144	4.6°
Ø80	Ø90	Ø154	Ø178	3.3°
Ø100	Ø110	Ø194	Ø218	2.6°
Ø125	Ø135	Ø244	Ø268	2.0°
Ø160	Ø170	Ø314	Ø338	1.5°

• 長度單位 Unit of Length (mm)

SKM 高速八角面銑刀
SKM HIGH SPEED FACE MILLING CUTTER

KOVIT

ISO 分類														切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	P	合金鋼 Alloyed Steels	○											
	M	不鏽鋼 Stainless Steels	○											
	K	鑄鐵 Cast Iron	○											
	N	鋁及鋁合金 Aluminum&Al												
	S	高溫合金 Refractory Alloys												
	H	高硬度材 Hard Material												

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain				硬質合金 Carbide alloy				超微粒硬質合金 Micro grain carbide alloy				尺寸 (mm)				圖形 Drawing
		CHF				HW				HF				Size				
		OM4025												d	i	s	r	
	ODMT040408	●												12.7	4.6	4.76	0.8	

OD_04 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切深 Ap(mm)
P	低合金鋼 Low-Alloy Steels	OM4010	130~330	0.08~0.40	1.0~2.0
		OM4025	130~330	0.08~0.40	1.0~2.0
	合金鋼 Alloyed Steels	OM4025	120~180	0.08~0.35	1.0~2.0
M	不鏽鋼 Stainless Steels	OM4025	120~180	0.15~0.35	1.0~2.0
K	鑄鐵 Cast Iron	OM4025	200~350	0.08~0.35	1.0~2.0

▎主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑)
Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).
▎床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速
Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

SFM 殼型銑刀
SFM FACE MILLING CUTTER

KOVIT

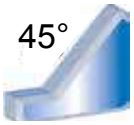


Fig.1

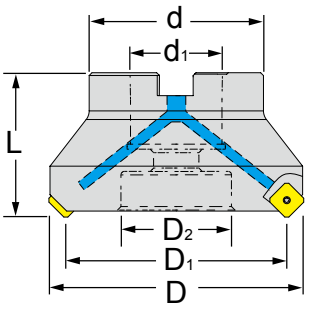
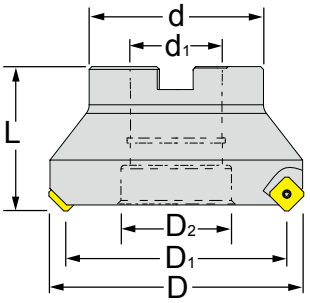


Fig.2



規格 Spec.	L	D	D_1	D_2	d	d_1	刃數 Flutes	刀片 Insert	Fig.	重量 (KGS) Weight
SFM-50-FMB22-C	40	62	50	18	48	22	4	SE..13T3	1	0.64
SFM-50-FMA25.4-C	40	62	50	20	50	25.4	4	SE..13T3	1	0.54
SFM-63-FMB22-C	40	75	63	18	48	22	5	SE..13T3	1	0.70
SFM-63-FMA25.4-C	40	75	63	20	50	25.4	5	SE..13T3	1	0.68
SFM-80-FMB27-C	50	92	80	32	62	27	6	SE..13T3	1	1.28
SFM-80-FMA31.75-C	50	92	80	42	62	31.75	6	SE..13T3	1	1.20
SFM-100-FMB32-C	50	112	100	42	78	32	7	SE..13T3	1	1.98
SFM-100-FMA31.75-C	50	112	100	42	78	31.75	7	SE..13T3	1	2.04
SFM-125-FMB40-C	63	137	125	50	89	40	8	SE..13T3	1	3.57
SFM-125-FMA38.1-C	63	137	125	50	80	38.1	8	SE..13T3	1	3.24
SFM-160-FMB40	63	172	160	50	98	40	10	SE..13T3	2	5.30
SFM-160-FMA50.8	63	172	160	67	98	50.8	10	SE..13T3	2	4.80
SFM-200-FMB60	63	210.4	200	174	138	60	12	SE..13T3	2	6.78
SFM-200-FMA47.625	63	210.4	200	174	138	47.625	12	SE..13T3	2	7.18
SFM-250-FMB60	63	260.4	250	224	138	60	14	SE..13T3	2	10.40
SFM-250-FMA47.625	63	260.4	250	224	138	47.625	14	SE..13T3	2	10.72

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SE..13T3	M3.5-11.7-5.3-60	T15	3.0

• 長度單位 Unit of Length (mm)

SFM 燒結式殼型銑刀
SFM SHRINK-FIT FACE MILLING CUTTER

KOVIT

燒結式 Shrink-Fit

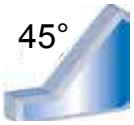


Fig.1

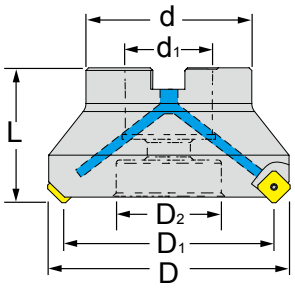
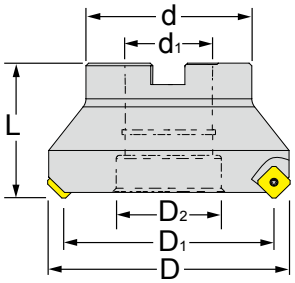


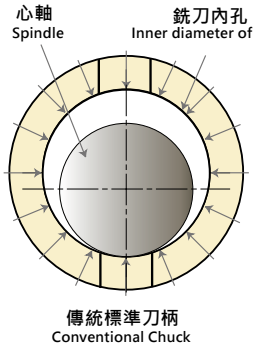
Fig.2

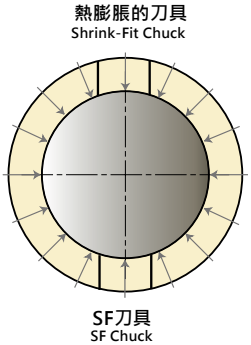


規格 Spec.	L	D	D_1	D_2	d	d_1	刃數 Flutes	刀片 Insert	Fig.	重量 (KGS) Weight
SFM-50-SF-FMB22-C	40	62	50	18	48	22	4	SE..13T3	1	0.64
SFM-50-SF-FMA25.4-C	40	62	50	20	50	25.4	4	SE..13T3	1	0.54
SFM-63-SF-FMB22-C	40	75	63	18	48	22	5	SE..13T3	1	0.70
SFM-63-SF-FMA25.4-C	40	75	63	20	50	25.4	5	SE..13T3	1	0.68
SFM-80-SF-FMB27-C	50	92	80	32	62	27	6	SE..13T3	1	1.28
SFM-80-SF-FMA31.75-C	50	92	80	42	62	31.75	6	SE..13T3	1	1.20
SFM-100-SF-FMB32-C	50	112	100	42	78	32	7	SE..13T3	1	1.98
SFM-100-SF-FMA31.75-C	50	112	100	42	78	31.75	7	SE..13T3	1	2.04
SFM-125-SF-FMB40-C	63	137	125	50	89	40	8	SE..13T3	1	3.57
SFM-125-SF-FMA38.1-C	63	137	125	50	80	38.1	8	SE..13T3	1	3.24
SFM-160-SF-FMB40	63	172	160	50	98	40	10	SE..13T3	2	5.30
SFM-160-SF-FMA50.8	63	172	160	67	98	50.8	10	SE..13T3	2	4.80

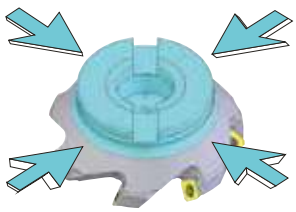
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SE..13T3	M3.5-11.7-5.3-60	T15	3.0





SF刀具原理
SF Tool Principle

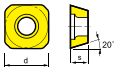
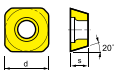


• 長度單位 Unit of Length (mm)

SFM 殼型銑刀
SFM FACE MILLING CUTTER

KOVIT

ISO 分類															切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	P	合金鋼 Alloyed Steels		○											
	M	不鏽鋼 Stainless Steels	○												
	K	鑄鐵 Cast Iron													
	N	鋁及鋁合金 Aluminum&Al								■					
	S	高溫合金 Refractory Alloys	○												
	H	高硬度材 Hard Material													

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain								超微粒硬質合金 Micro grain cemented carbide					尺寸 (mm)				圖形 Drawing
		CHF								HF					Size				
		RM2140	RM4025							RM5005					d	i	s	r	
	SEET13T3AGFN-F01									●					13.4	-	3.97	2.55	
	SEMT13T3AGEN-M02	●	●												13.4	-	3.97	2.55	

SE_13T3 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)
P	低合金鋼 Low-Alloy Steels	RM4025	220~260	0.20~0.45
P	合金鋼 Alloyed Steels	RM4025	220~260	0.20~0.45
M	不鏽鋼 Stainless Steels	RM2140	130~250	0.20~0.35
N	鋁合金 Aluminum&Al	RM5005	500~850	0.15~0.35
S	高溫合金 Refractory Alloys	RM2140	130~250	0.20~0.35

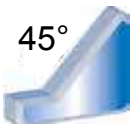
主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑)
Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

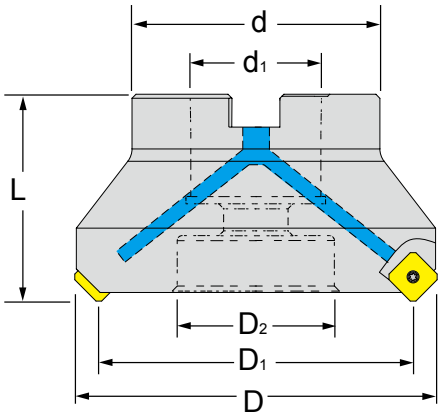
床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速
Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

KFM 殼型銑刀
KFM FACE MILLING CUTTER

KOVIT





規格 Spec.	L	D	D_1	D_2	d	d_1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
KFM-50-FMB22-C	40	62	50	18	48	22	4	SE..1204	0.51
KFM-50-FMA25.4-C	40	62	50	20	50	25.4	4	SE..1204	0.51
KFM-63-FMB22-C	40	75	63	18	48	22	5	SE..1204	0.73
KFM-63-FMA25.4-C	40	75	63	32	50	25.4	5	SE..1204	0.70
KFM-80-FMB27-C	50	92	80	32	62	27	6	SE..1204	1.31
KFM-80-FMA31.75-C	50	92	80	42	62	31.75	6	SE..1204	1.21
KFM-100-FMB32-C	50	112	100	42	78	32	7	SE..1204	2.00
KFM-100-FMA31.75-C	50	112	100	42	78	31.75	7	SE..1204	2.02
KFM-125-FMB40-C	63	137	125	50	89	40	8	SE..1204	3.53
KFM-125-FMA38.1-C	63	137	125	50	80	38.1	8	SE..1204	3.25

配件表 Accessories

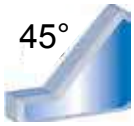
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SE..1204	M5-11-7.0-55	T20	5.0

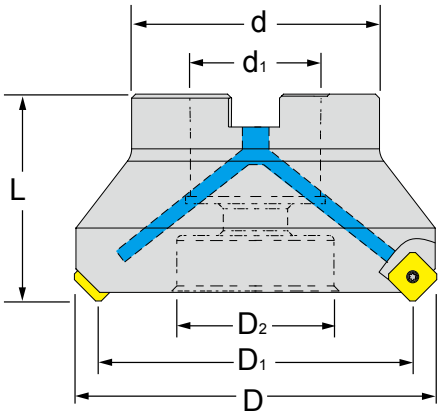
• 長度單位 Unit of Length (mm)

KFM 燒結式殼型銑刀
KFM SHRINK FIT FACE MILLING CUTTER

KOVIT

燒結式 Shrink-Fit

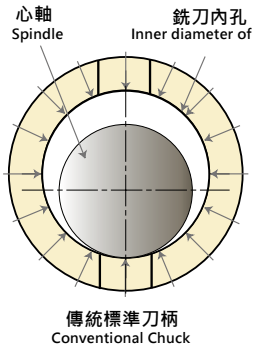


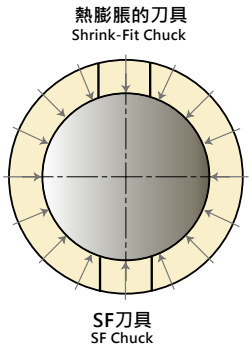


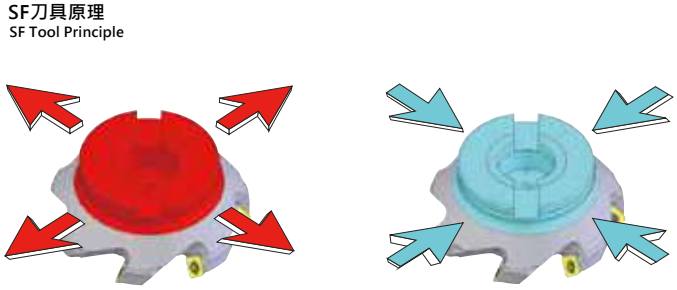
規格 Spec.	L	D	D_1	D_2	d	d_1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
KFM-50-SF-FMB22-C	40	62	50	18	48	22	4	SE..1204	0.51
KFM-50-SF-FMA25.4-C	40	62	50	20	50	25.4	4	SE..1204	0.51
KFM-63-SF-FMB22-C	40	75	63	18	48	22	5	SE..1204	0.73
KFM-63-SF-FMA25.4-C	40	75	63	32	50	25.4	5	SE..1204	0.70
KFM-80-SF-FMB27-C	50	92	80	32	62	27	6	SE..1204	1.31
KFM-80-SF-FMA31.75-C	50	92	80	42	62	31.75	6	SE..1204	1.21
KFM-100-SF-FMB32-C	50	112	100	42	78	32	7	SE..1204	2.00
KFM-100-SF-FMA31.75-C	50	112	100	42	78	31.75	7	SE..1204	2.02
KFM-125-SF-FMB40-C	63	137	125	50	89	40	8	SE..1204	3.53
KFM-125-SF-FMA38.1-C	63	137	125	50	80	38.1	8	SE..1204	3.25

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SE..1204	M5-11-7.0-55	T20	5.0







• 長度單位 Unit of Length (mm)

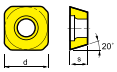
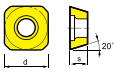
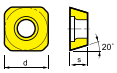
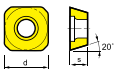
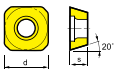
KFM 殼型銑刀
KFM FACE MILLING CUTTER

KOVIT

ISO 分類															
P	合金鋼 Alloyed Steels	○	○	○		●									
M	不鏽鋼 Stainless Steels	○	○	○	○										
K	鑄鐵 Cast Iron	○	○	○											
N	鋁及鋁合金 Aluminum&Al								■	■					
S	高溫合金 Refractory Alloys														
H	高硬度材 Hard Material	○													

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain							超微粒硬質合金 Micro grain cemented carbide						尺寸 (mm)				圖形 Drawing
		CHF							HF						Size				
		OM4010	OM4025	RM4025	RM4230	OM1205			OM5060	GH1					d	i	s	r	
	★ SEHT1204AFEN-M01	●	●												12.7	-	4.76	Facet	
	SEHT1204AFEN-M02				●										12.7	-	4.76	Facet	
	SEHT1204AFFN								●	●					12.7	-	4.76	-	
	SEKT1204AFTN			●											12.7	-	4.76	-	
	SEKW1204AFN		●			●									12.7	-	4.76	-	

★ 推薦 Recommendeded

SE_12 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切深 Ap(mm)
P	低合金鋼 Low-Alloy Steels	OM4010	260~320	0.20~0.45	1.0~3.0
		OM4025	220~260	0.20~0.45	1.0~3.0
		RM4025	220~260	0.20~0.45	1.0~3.0
	合金鋼 Alloyed Steels	OM1205	100~195	0.05~0.15	1.0~2.0
		OM4010	130~250	0.20~0.35	1.0~3.0
		OM4025	100~195	0.20~0.35	1.0~3.0
		RM4025	100~195	0.20~0.35	1.0~3.0
M	不鏽鋼 Stainless Steels	OM4010	180~220	0.10~0.30	1.0~2.0
		OM4025	140~180	0.10~0.30	1.0~2.0
	析出硬化系 Precipitation-Hardening	OM4010	90~120	0.15~0.20	0.2~1.0
		OM4025	70~85	0.15~0.20	0.2~1.0
K	鑄鐵 Cast Iron	OM4010	160~300	0.12~0.35	1.0~3.0
		OM4025	180~300	0.15~0.35	1.0~3.0
N	鋁合金 Aluminum&Al	OM5060	500~850	0.15~0.35	3.6~6.0
		GH1	275~450	0.15~0.35	3.0~6.0

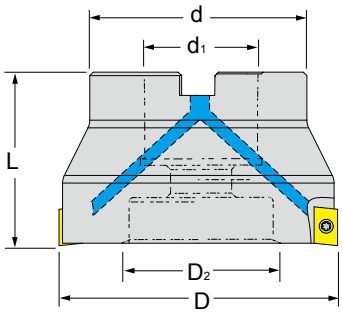
主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑) Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速 Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

IFM 殼型銑刀
IFM FACE MILLING CUTTER

KOVIT

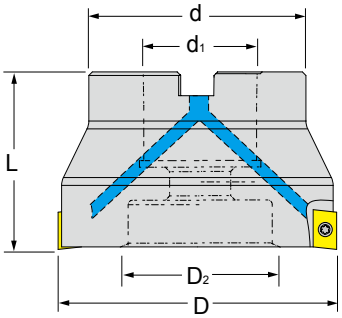


規格 Spec.	L	D	D_2	d	d_1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
IFM-50-FMB22-C	40	50	18	45	22	5	AP..1604	0.43
IFM-63-FMB22-C	40	63	18	48	22	5	AP..1604	0.57
IFM-80-FMB27-C	50	80	32	62	27	6	AP..1604	1.16
IFM-100-FMB32-C	50	100	42	78	32	7	AP..1604	1.90
IFM-125-FMB40-C	63	125	50	89	40	8	AP..1604	3.41

IFM 燒結式殼型銑刀
IFM SHRINK-FIT FACE MILLING CUTTER

KOVIT

燒結式 Shrink-Fit



規格 Spec.	L	D	D_2	d	d_1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
IFM-50-SF-FMB22-C	40	50	18	40	22	5	AP..1604	0.43
IFM-50-SF-FMA25.4-C	40	50	20	48.5	25.4	5	AP..1604	0.42
IFM-63-SF-FMB22-C	40	63	18	48	22	5	AP..1604	0.57
IFM-63-SF-FMA25.4-C	40	63	32	50	25.4	5	AP..1604	1.20
IFM-80-SF-FMB27-C	50	80	32	62	27	6	AP..1604	1.16
IFM-80-SF-FMA31.75-C	50	80	42	62	31.75	6	AP..1604	1.04
IFM-100-SF-FMB32-C	50	100	42	78	32	7	AP..1604	1.90
IFM-100-SF-FMA31.75-C	50	100	42	78	31.75	7	AP..1604	1.91
IFM-125-SF-FMB40-C	63	125	50	89	40	8	AP..1604	3.41
IFM-125-SF-FMA38.1-C	63	125	50	80	38.1	8	AP..1604	3.23

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
AP..1604	M4-10-5.7-60	T15	3.0

• 長度單位 Unit of Length (mm)

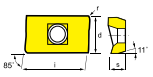
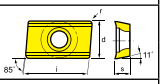
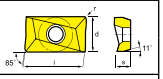
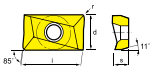
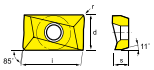
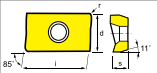
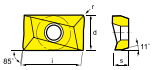
IFM 殼型銑刀
IFM FACE MILLING CUTTER

KOVIT

ISO 分類													
	P	合金鋼 Alloyed Steels	○	○		○							
	M	不鏽鋼 Stainless Steels	○			○							
	K	鑄鐵 Cast Iron	○		○								
	N	鋁及鋁合金 Aluminum&Al							■	■	○	○	
	S	高溫合金 Refractory Alloys					○						
	H	高硬度材 Hard Material											

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain						超微粒硬質合金 Micro grain carbide alloy					尺寸 (mm)				圖形 Drawing
		CHF						HF					Size				
		OM4025	OM4025N	RM3130	RM4130	RM535		GH05	OM5005	OM5060	RM5005		d	i	s	r	
	★ APEX1604PDFR-F01								●	●			9.525	16.4	4.76	-	
	★ APEX160400PDFR-F01								●	●			9.525	16.4	4.76	-	
	★ APEX160404PDFR-F01								●	●			9.525	16.4	4.76	0.4	
	★ APEX160408PDFR-F01								●	●			9.525	16.4	4.76	0.8	
	APEX1604PDFR-701							●					9.525	16.4	4.76	0.2	
	APGT1604PDFR-G2										●		9.525	16.5	4.76	0.8	
	APGT160408PDFR-F02										●		9.525	16.4	4.76	0.8	
	APKT1604PDER-M05					●							9.525	16.4	4.76	0.4	
	APKT160408PDER-M02			●	●								9.525	16.4	4.76	0.8	
	★ APKT160408-M01	●	●										9.525	16.6	4.76	0.8	

★ 推薦 Recommended

AP_16 切削條件數據表 Cutting Parameter

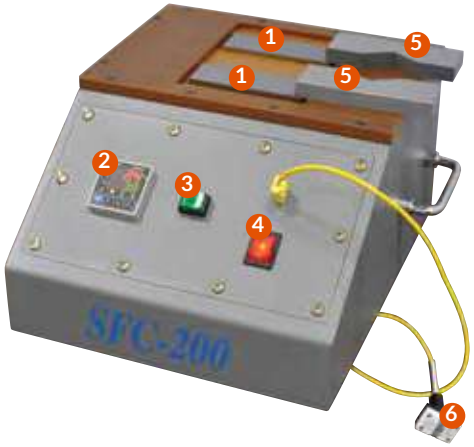
被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切深 Ap(mm)
P	低合金鋼 Low-Alloy Steels	OM4025	120~300	0.15~0.40	3.0~8.0
		OM4025N	120~300	0.15~0.40	3.0~8.0
		RM4130	60~300	0.10~0.25	3.0~8.0
	合金鋼 Alloyed Steels	OM4025	80~180	0.15~0.35	3.0~8.0
		RM4130	60~300	0.10~0.25	3.0~8.0
M	不鏽鋼 Stainless Steels	OM4025	120~160	0.15~0.35	3.0~8.0
		RM4130	120~160	0.10~0.25	3.0~8.0
K	鑄鐵 Cast Iron	OM4025	160~250	0.15~0.30	3.0~8.0
		RM3130	160~250	0.15~0.30	3.0~8.0
N	鋁合金 Aluminum&Al	OM5005	400~1000	0.04~0.20	3.0~8.0
		OM5060	400~1000	0.04~0.20	3.0~8.0
		RM5005	400~1000	0.04~0.20	3.0~8.0
		GH05	300~800	0.04~0.20	3.0~8.0
S	高溫合金 Refractory Alloys	RM535	20~40	0.10~0.20	1.0~3.0

▎主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑) Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

▎床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速 Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

SFC 平面銑刀加熱器
SFC SHRINK-FIT MACHINE



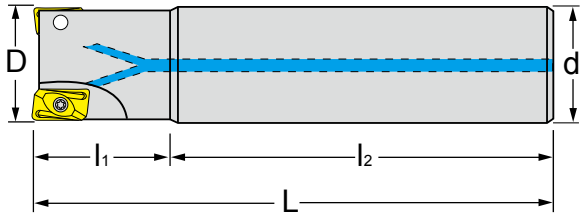
1. 正負兩極面 Positive and negative poles face
2. 微電腦溫度控制器 Microcomputer Temperature Controller
3. 啟動加熱 Start heating
4. 啟動電源 Turn on the power
5. V 型枕 V block
6. 測溫棒 Temperature Stick

規格 **Spec.**	SFC-200
電源 **Voltage**	220V(單相)220V(Single-phase)
輸出電源 **Out put**	15A
機體尺寸 **Uni dimension (mm)**	350(L)x190(W)x400(H)
重量 **Weight (KGS)**	32
冷卻方式 **Cooling system**	氣冷 Gas-cooled
建議使用範圍 **Range**	Ø50~Ø160mm 面銑刀 Ø50~Ø160mm Face milling cutter
加熱時間 **Heating time**	加熱面銑刀到 150℃ ~160℃約 4~6 分鐘 (依平面銑刀大小及形狀而定)。 Heating face milling cutter to 150℃ ~ 160℃ for 4 ~ 6 minutes. (Depending on the size and shape of face milling cutters may be.)
使用刀具種類 **Cutting tool type**	須使用特製捨棄式刀具 Required special type of supplemental cutting tool.
刀具材質 **Tool Material**	特殊合金鋼 Special alloy steel
功能 **Function**	利用加熱原理將平面銑刀內孔膨脹後，並可緊密配合平面銑刀桿。 Using the principle of heating to expand the inner hole to match tightly with the face milling shank.

• 長度單位 Unit of Length (mm)

M104 直角高速銑刀
M104 INDEXABLE SQUARE SHOULDER END MILL

KOVIT

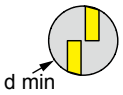


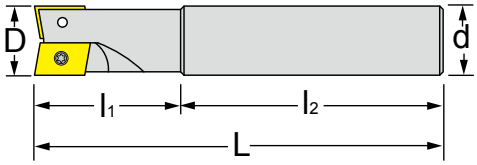
規格 Spec.	D -0.1	d	L	l_1	l_2	刃數 Flutes	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
M104AP1190-1012-100-1T-C	10	12	100	25	75	1	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	0.10
M104AP1190-1212-100-1T-C	12	12	100	30	70	1	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	0.10
M104AP1190-1516-200-2T-C	15	16	200	30	170	2	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	-
M104AP1190-1616-120-2T-C	16	16	120	30	90	2	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	0.17
M104AP1190-1616-160-2T-C	16	16	160	30	130	2	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	0.31
M104AP1190-1716-150-2T-C	17	16	150	30	120	2	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	0.24
M104AP1190-1820-100-2T-C	18	20	100	28	72	2	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	-
M104AP1190-1920-200-2T-C	19	20	200	35	165	2	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	0.34
M104AP1190-2020-120-2T-C	20	20	120	35	85	2	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	0.28
M104AP1190-2020-150-2T-C	20	20	150	35	115	2	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	0.38
M104AP1190-2020-150-3T-C	20	20	150	35	115	3	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	0.34
M104AP1190-2020-200-3T-C	20	20	200	35	165	3	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	0.46
M104AP1190-2120-150-3T-C	21	20	150	35	115	3	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	-
M104AP1190-2220-150-3T-C	22	20	150	35	115	3	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	0.34
M104AP1190-2320-150-3T-C	23	20	150	35	115	3	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	0.50
M104AP1190-2525-150-3T-C	25	25	150	35	115	3	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	-
M104AP1190-2525-150-4T-C	25	25	150	35	115	4	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	-
M104AP1190-2625-150-4T-C	26	25	150	35	115	4	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	0.54
M104AP1190-3032-150-4T-C	30	32	150	45	115	4	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	-
M104AP1190-3132-150-4T-C	31	32	150	45	115	4	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	0.87
M104AP1190-3232-150-5T-C	32	32	150	45	115	5	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	0.86
M104AP1190-3332-150-5T-C	33	32	150	45	115	5	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	0.87
M104AP1190-3532-150-5T-C	35	32	150	45	115	5	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	0.94
M104AP1190-4032-150-6T-C	40	32	150	45	115	6	AP..1135	M2.5-5.5-3.3-60-T8-TIN	T8	1.2	1.04
M104AP1690-2525-150-2T-C	25	25	150	40	110	2	AP..1604	M4-10-5.4-60-T15-TIN	T15	3.0	0.54
M104AP1690-2525-220-2T-C	25	25	220	40	180	2	AP..1604	M4-10-5.4-60-T15-TIN	T15	3.0	0.80
M104AP1690-2525-300-2T-C	25	25	300	40	260	2	AP..1604	M4-10-5.4-60-T15-TIN	T15	3.0	1.11
M104AP1690-2625-150-2T-C	26	25	150	40	110	2	AP..1604	M4-10-5.4-60-T15-TIN	T15	3.0	0.55
M104AP1690-3232-150-3T-C	32	32	150	45	105	3	AP..1604	M4-10-5.4-60-T15-TIN	T15	3.0	0.84
M104AP1690-3232-250-3T-C	32	32	250	45	205	3	AP..1604	M4-10-5.4-60-T15-TIN	T15	3.0	1.54
M104AP1690-3232-300-3T-C	32	32	300	45	255	3	AP..1604	M4-10-5.4-60-T15-TIN	T15	3.0	1.75
M104AP1690-3332-150-3T-C	33	32	150	45	105	3	AP..1604	M4-10-5.4-60-T15-TIN	T15	3.0	0.84
M104AP1690-3532-300-3T-C	35	32	300	45	255	3	AP..1604	M4-10-5.4-60-T15-TIN	T15	3.0	1.82

• 長度單位 Unit of Length (mm)

ASSM 直角高速銑刀
ASSM INDEXABLE SQUARE SHOULDER END MILL

KOVIT



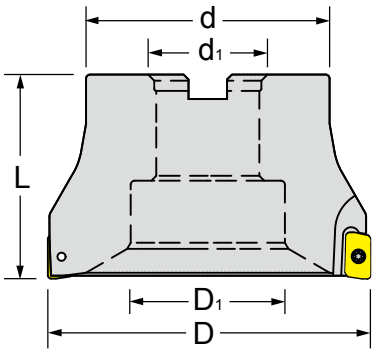


規格 Spec.	L	l_1	l_2	D	d	刃數 Flutes	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
ASSM-1012-100L	100	23	75	10	12	1	AP..1135	M2.5-6.0-3.5-60	T8	1.2	0.09
ASSM-1212-100L	100	30	70	12	12	1	AP..1135	M2.5-6.0-3.5-60	T8	1.2	0.10
ASSM-1615-150L	150	30	120	16	15	2	AP..1135	M2.5-6.0-3.5-60	T8	1.2	0.21
ASSM-1615-200L	200	30	170	16	15	2	AP..1135	M2.5-6.0-3.5-60	T8	1.2	0.28
ASSM-1616-120L	120	30	90	16	16	2	AP..1135	M2.5-6.0-3.5-60	T8	1.2	0.19
ASSM-1616-160L	160	30	130	16	16	2	AP..1135	M2.5-6.0-3.5-60	T8	1.2	0.25
ASSM-1716-150L	150	30	120	17	16	2	AP..1135	M2.5-6.0-3.5-60	T8	1.2	0.26
ASSM-2019-150L	150	35	115	20	19	2	AP..1135	M2.5-6.0-3.5-60	T8	1.2	0.34
ASSM-2019-200L	200	35	165	20	19	2	AP..1135	M2.5-6.0-3.5-60	T8	1.2	0.36
ASSM-2020-120L	120	35	85	20	20	2	AP..1135	M2.5-6.0-3.5-60	T8	1.2	0.30
ASSM-2020-150L	150	35	115	20	20	2	AP..1135	M2.5-6.0-3.5-60	T8	1.2	0.38
ASSM-2020-200L	200	35	165	20	20	2	AP..1135	M2.5-6.0-3.5-60	T8	1.2	0.50
ASSM-2120-150L	150	35	115	21	20	2	AP..1135	M2.5-6.0-3.5-60	T8	1.2	0.38
ASSM-2525-150L	150	40	110	25	25	2	AP..1604	M4-8.0-5.7-60	T15	3.0	0.55
ASSM-2525-220L	220	40	180	25	25	2	AP..1604	M4-8.0-5.7-60	T15	3.0	0.83
ASSM-2525-300L	300	40	260	25	25	2	AP..1604	M4-8.0-5.7-60	T15	3.0	1.13
ASSM-2625-150L	150	40	110	26	25	2	AP..1604	M4-8.0-5.7-60	T15	3.0	0.58
ASSM-3232-150L	150	45	105	32	32	2	AP..1604	M4-10-5.7-60	T15	3.0	0.90
ASSM-3232-250L	250	45	205	32	32	3	AP..1604	M4-10-5.7-60	T15	3.0	1.53
ASSM-3232-300L	300	45	255	32	32	3	AP..1604	M4-10-5.7-60	T15	3.0	1.84
ASSM-3332-150L	150	45	105	33	32	2	AP..1604	M4-10-5.7-60	T15	3.0	0.92
ASSM-3532-200L	200	45	155	35	32	3	AP..1604	M4-10-5.7-60	T15	3.0	1.24
ASSM-3532-250L	250	45	205	35	32	3	AP..1604	M4-10-5.7-60	T15	3.0	1.58
ASSM-3532-300L	300	45	255	35	32	3	AP..1604	M4-10-5.7-60	T15	3.0	1.87

• 長度單位 Unit of Length (mm)

BAP 直角殼型平面銑刀
BAP SQUARE SHOULDER SHELL MILLING CUTTER

KOVIT



規格 Spec.	L	D	D_1	d	d_1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
BAP-500-FMB22-11	40	50	18	40	22	7	AP..1135	0.40
BAP-630-FMB22-11	40	63	18	50	22	8	AP..1135	0.66
BAP-630-FMA25.4-11	40	63	19	50	25.4	8	AP..1135	0.80
BAP-800-FMB27-11	50	80	43	60	27	9	AP..1135	1.20
BAP-800-FMA31.75-11	50	80	43	60	31.75	9	AP..1135	1.20
BAP-1000-FMB32-11	50	100	43	78	32	11	AP..1135	2.08
BAP-1000-FMA31.75-11	50	100	43	78	31.75	11	AP..1135	2.09

配件表 Accessories

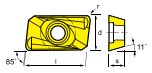
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
AP..1135	M2.5-6.0-3.5-60	T8	1.2

• 長度單位 Unit of Length (mm)

直角銑削刀片
RIGHT ANGLE MILLING INSERT

KOVIT

ISO 分類													切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	P	合金鋼 Alloyed Steels	○	○									
	M	不鏽鋼 Stainless Steels	○										
	K	鑄鐵 Cast Iron											
	N	鋁及鋁合金 Aluminum&Al											
	S	高溫合金 Refractory Alloys											
	H	高硬度材 Hard Material		○									

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain										尺寸 (mm)				圖形 Drawing
		CHF										Size				
		RM4130	RM4110									d	i	s	r	
	APMT113508PDER-M04	●	●									6.35	11	3.5	0.8	
	APMT1135PDER-M04	●										6.35	11	3.5	0.4	
	APMT1604PDER-M04	●	●									9.525	16.5	4.76	0.8	

AP_11.16 切削條件數據表 Cutting Parameter

被加工材質 machining Material		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)
P	低合金鋼 Low-Alloy Steels	RM4130	80~370	0.08~0.35
P	合金鋼 Alloyed Steels	RM4130	60~250	0.10~0.25
P	合金鋼 Alloyed Steels	RM4110	100~160	0.07~0.15
M	不鏽鋼 Stainless Steels	RM4130	110~180	0.10~0.25
H	高硬度材質 Hard Material	RM4110	100~150	0.05~0.15

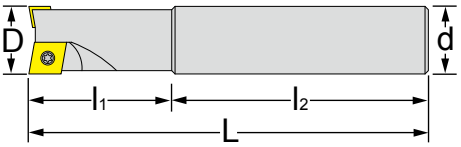
主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑)
Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速
Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

DDM 鑽銑共用型銑刀
DDM DRILLING END MILL CUTTER

KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

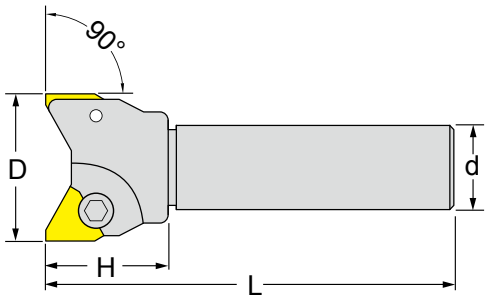
- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	l_1	l_2	D	d	刃數 Flutes	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
C10-DDM10-130L	130	30	100	10	10	1	CC..0602	M2.5-5.5-3.35-60	T8	1.2	0.09
C12-DDM12-120L	120	30	90	12	12	1	CP..0802	M2.5-5.5-3.35-60	T8	1.2	0.11
C12-DDM12-150L	150	40	110	12	12	1	CP..0802	M2.5-5.5-3.35-60	T8	1.2	0.14
C16-DDM16-120L	120	30	90	16	16	2	CC..0602 CP..0802	M2.5-5.5-3.35-60 M2.5-5.5-3.35-60	T8	1.2	0.19
C16-DDM16-175L	175	40	135	16	16	2			T8	1.2	0.27
C20-DDM20-120L	120	30	90	20	20	2	CC..0602 CP..0902	M2.5-5.5-3.35-60 M3.5-6.0-5.0-60	T8 T15	1.2 3.0	0.31
C20-DDM20-185L	185	50	135	20	20	2					0.46
C25-DDM25-150L	150	40	110	25	25	2	CP..0903 CP..1203	M4-8.75-5.6-60	T15	3.0	0.55
C25-DDM25-220L	220	70	150	25	25	2		M4-8.75-5.6-60	T15	3.0	0.82
C25-DDM25-300L	300	170	130	25	25	2		M4-8.75-5.6-60	T15	3.0	1.14
C32-DDM25-300L	300	170	130	25	32	2		M4-8.75-5.6-60	T15	3.0	1.58
C32-DDM32-150L	150	40	110	32	32	2	CP..1204 CP..1604	M5-11-7.5-60	T20	5.0	0.86
C32-DDM32-250L	250	80	170	32	32	2		M5-11-7.5-60	T20	5.0	1.50
C32-DDM32-300L	300	80	220	32	32	2		M5-11-7.5-60	T20	5.0	1.85
C32-DDM32-350L	350	80	270	32	32	2		M5-11-7.5-60	T20	5.0	2.18
C32-DDM40-170L	170	50	120	40	32	2	CP..1604 CP..1904	M5-11-7.5-60 M6-12-8.4-60	T20 T25	5.0 7.5	1.09
C32-DDM40-250L	250	50	200	40	32	2					1.63

• 長度單位 Unit of Length (mm)

SKE 90°捨棄式直角銑刀
SKE 90° INDEXABLE SQUARE SHOULDER MILLING CUTTER

KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	D	d	H	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
SKE-2020	90	20	20	30	2	TP..1102	0.21
SKE-2025	100	25	20	30	2	TP..1102	0.26
SKE-2030	100	30	20	30	2	TP..1603	0.27
SKE-2035	100	35	20	40	2	TP..1603	0.32
SKE-2535	105	35	25	40	2	TP..1603	0.43
SKE-3235	110	35	32	40	2	TP..1603	0.64
SKE-2040	110	40	20	40	3	TP..1603	0.39
SKE-2540	110	40	25	40	3	TP..1603	0.48
SKE-3240	115	40	32	40	3	TP..1603	0.70
SKE-2045	105	45	20	40	3	TP..1603	0.48
SKE-2050	105	50	20	40	3	TP..1603	0.52
SKE-2550	110	50	25	40	3	TP..1603	0.63
SKE-3250	115	50	32	40	3	TP..1603	0.84
SKE-3263	125	63	32	45	3	TP..2204	1.20

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
TP..1102	M5-0.8P	T15	3.0
TP..1103	M5-0.8P	T15	3.0
TP..1603	M6-0.75P	PL4	5.0
TP..2204	M8-1.0P	PL5	6.0

• 長度單位 Unit of Length (mm)

SKE 90°捨棄式直角銑刀
SKE 90° INDEXABLE SQUARE SHOULDER MILLING CUTTER

KOVIT

ISO 分類																切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	P	合金鋼 Alloyed Steels	○	○												
	M	不鏽鋼 Stainless Steels														
	K	鑄鐵 Cast Iron			○											
	N	鋁及鋁合金 Aluminum&Al														
	S	高溫合金 Refractory Alloys														
	H	高硬度材 Hard Material														

形狀 Shape	規格 Spec.	硬質合金 Carbide alloy HW												尺寸 (mm) Size				圖形 Drawing
		TSP20	TSP25	TSK10										d	i	s	r	
	TPKN1603PDR		●	●										9.525	-	3.18	-	
	TPKN2204PDR	●		●										12.7	-	4.76	-	
	TPMN160308		●	●										9.525	-	3.18	0.8	
	TPMN220412	●		●										12.7	-	4.76	1.2	

TP_16.22 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)
P	低合金鋼 Low-Alloy Steels	TSP20	125~200	0.1~0.3
		TSP25	125~200	0.1~0.3
	合金鋼 Alloyed Steels	TSP20	50~100	0.1~0.2
		TSP25	50~100	0.1~0.2
K	鑄鐵 Cast Iron	TSK10	80~120	0.1~0.3

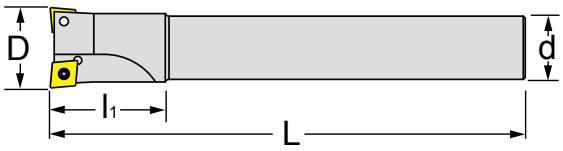
主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑)
Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速
Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

ATB 固定式粗搪刀
ATB FIXED ROUGH BORING BAR

KOVIT



規格 Spec.	L	l_1	D	d	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
ATB-1216-120L	120	30	11.7	16	1	CC..060202(D+0.1) CC..060204(D) CC..060208(D-0.2)	0.18
ATB-1316-120L	120	30	12.7	16	1		0.18
ATB-1416-120L	120	30	13.7	16	1		0.18
ATB-1516-120L	120	30	14.7	16	1		0.18
ATB-1616-120L	120	30	15.7	16	2		0.18
ATB-1716-120L	120	30	16.7	16	2		0.18
ATB-1816-120L	120	30	17.7	16	2		0.19
ATB-1916-120L	120	30	18.7	16	2		0.19
ATB-2016-120L	120	30	19.7	16	2		0.19
ATB-2216-120L	120	30	21.7	16	2		0.19
ATB-2420-130L	130	30	23.7	20	2		0.32
ATB-2520-130L	130	30	24.7	20	2		0.34
ATB-2620-130L	130	30	25.7	20	2	CC..09T302(D+0.1) CC..09T304(D) CC..09T308(D-0.2)	0.33
ATB-2720-130L	130	30	26.7	20	2		0.34
ATB-2820-130L	130	30	27.7	20	2		0.35
ATB-3025-160L	160	40	29.7	25	2		0.62
ATB-3525-160L	160	40	34.7	25	2		0.65
ATB-4025-160L	160	40	39.7	25	2		0.69
ATB-4232-200L	200	45	41.7	32	2		1.29
ATB-4532-200L	200	45	44.7	32	2		1.28
ATB-4832-200L	200	45	47.7	32	2		1.33
ATB-5032-200L	200	45	49.7	32	2		1.35
ATB-5532-200L	200	45	54.7	32	2		1.50

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
CC..060202(D+0.1)	M2.5-6.45-3.7-43	T8	1.2
CC..060204(D)	M2.5-6.45-3.7-43	T8	1.2
CC..060208(D-0.2)	M2.5-6.45-3.7-43	T8	1.2
CC..09T302(D+0.1)	M4-10-5.7-60	T15	3.0
CC..09T304(D)	M4-10-5.7-60	T15	3.0
CC..09T308(D-0.2)	M4-10-5.7-60	T15	3.0

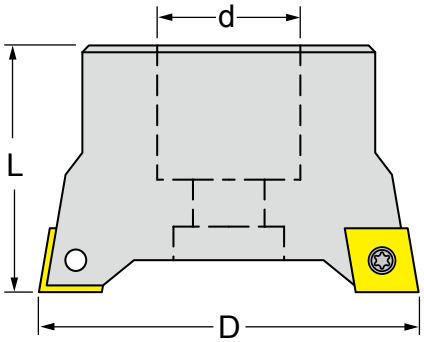
D 尺寸會隨著刀片 R 角改變，尺寸跟著改變 D varies with R angle on insert.

< 例 > ATB-2016-120L
D=19.7
使用刀片為 CC..060202 時，D=19.8
04 時，D=19.7
08 時，D=19.5

(Example) If using inserts with corner radius 02, D=19.8
04,D=19.8
08,D=19.5

• 長度單位 Unit of Length (mm)

ATB 固定式粗搪刀
ATB FIXED ROUGH BORING BAR



規格 Spec.	L	D	d	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
ATB45-FMB22	50	44.8	22	2	CC..09T3	0.55
ATB50-FMB22	50	49.8	22	2	CC..09T3	0.59
ATB55-FMB22	50	54.8	22	2	CC..09T3	-
ATB60-FMB22	50	59.8	22	2	CC..09T3	0.63
ATB60-FMA25.4	50	59.8	25.4	2	CC..09T3	0.63
ATB65-FMA25.4	50	64.8	25.4	2	CC..09T3	0.69
ATB70-FMA25.4	50	69.8	25.4	2	CC..09T3	0.75
ATB75-FMA25.4	50	74.8	25.4	2	CC..09T3	-
ATB80-FMA25.4	50	79.8	25.4	2	CC..09T3	0.80
ATB85-FMA25.4	50	84.8	25.4	2	CC..09T3	0.85
ATB90-FMA25.4	50	89.8	25.4	2	CC..09T3	1.00
ATB95-FMA25.4	50	94.8	25.4	2	CC..09T3	1.15
ATB100-FMA25.4	50	99.8	25.4	2	CC..09T3	1.30
ATB105-FMA31.75	50	104.8	31.75	2	CC..09T3	1.30
ATB110-FMA31.75	50	109.8	31.75	2	CC..09T3	1.40
ATB115-FMA31.75	50	114.8	31.75	2	CC..09T3	1.50
ATB120-FMA31.75	50	119.8	31.75	2	CC..09T3	1.62
ATB125-FMA31.75	50	124.8	31.75	2	CC..09T3	1.73
ATB130-FMA31.75	50	129.8	31.75	2	CC..09T3	1.85

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
CC..09T3	M4-10-5.7-60	T15	3.0

D 尺寸會隨著刀片 R 角改變，尺寸跟著改變 D varies with R angle on insert.

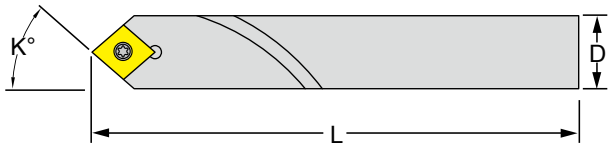
< 例 > ATB-60-FMB22
D=59.7
使用刀片為 CC..09T302 時，D=59.7
04 時，D=59.6
08 時，D=59.4

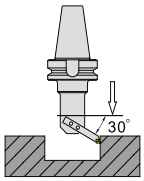
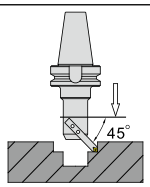
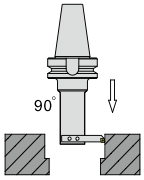
(Example) If using inserts with corner radius 02, D=59.7
04,D=59.6
08,D=59.4

• 長度單位 Unit of Length (mm)

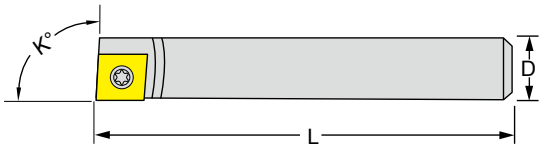
CBS 替換式搪孔刀柄
CBS INTERCHANGEABLE BORING CUTTER

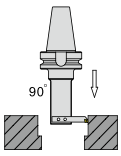
KOVIT



	規格 Spec.	L	D	K°	刀片 Insert	重量 (KGS) Weight
	CBS-308	55	8	30°	CC..0602	0.04
	CBS-310	65	10	30°	CC..0602	0.06
	CBS-313	80	13	30°	CC..09T3	0.12
	CBS-316	120	16	30°	CC..09T3	0.25
	CBS-319	140	19	30°	CC..1204	0.41
	CBS-408	55	8	45°	CC..0602	0.04
	CBS-410	65	10	45°	CC..0602	0.06
	CBS-413	80	13	45°	CC..09T3	0.12
	CBS-416	120	16	45°	CC..09T3	0.26
	CBS-419	140	19	45°	CC..1204	0.40
	CBS-908	55	8	90°	CC..0602	0.04
	CBS-910	65	10	90°	CC..0602	0.06
	CBS-913	80	13	90°	CC..09T3	0.12
	CBS-916	120	16	90°	CC..09T3	0.27
	CBS-919	140	19	90°	CC..1204	0.41

左旋
Counter clockwise



	規格 Spec.	L	D	K°	刀片 Insert	重量 (KGS) Weight
	CBS-908L	55	8	90°	CC..0602	0.04
	CBS-910L	65	10	90°	CC..0602	0.06
	CBS-913L	80	13	90°	CC..09T3	0.12
	CBS-916L	120	16	90°	CC..09T3	0.27
	CBS-919L	140	19	90°	CC..1204	0.42

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
CC..0602	M2.5-6.0-3.5-60	T8	1.2
CC..09T3	M4-10-5.7-60	T15	3.0
CC..1204	M5-11-7.5-60	T20	5.0

• 長度單位 Unit of Length (mm)

ATB、CBS 搪孔刀片
ATB&CBS BORING INSERTS

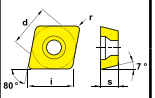
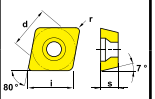
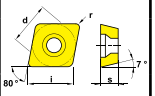
KOVIT

※ 不同刀片 R 角會改變尺寸 Different corner radius of inserts will change the size.

ISO 分類												
	P	合金鋼 Alloyed Steels	○				○					
	M	不鏽鋼 Stainless Steels	○									
	K	鑄鐵 Cast Iron										
	N	鋁及鋁合金 Aluminum&Al							■			
	S	高溫合金 Refractory Alloys										
	H	高硬度材 Hard Material					○					

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

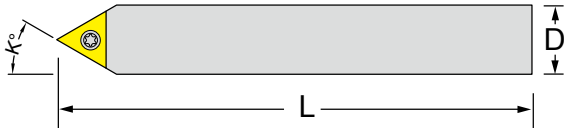
形狀 Shape	規格 Spec.	鍍層硬質合金 Carbide alloy				瓷金鍍層 Cermet coated		超微粒硬質合金 Micro grain carbide alloy				尺寸 (mm) Size				圖形 Drawing
		CVD						HF								
		RM4035				RM1205		RM5005				d	i	s	r	
	CCGT060202-NK							●				6.35	6.5	2.38	0.2	
	CCGT060204-NK							●				6.35	6.5	2.38	0.4	
	CCGT060208-NK							●				6.35	6.5	2.38	0.8	
	CCGT09T304-NK							●				9.525	9.7	3.97	0.4	
	CCGT09T308-NK							●				9.525	9.7	3.97	0.8	
	CCGT120404-NK							●				12.7	12.9	4.76	0.4	
	CCGT120408-NK							●				12.7	12.9	4.76	0.8	
	NEW CCMT060204N-M01					●						6.35	6.4	2.38	0.4	
	NEW CCMT09T304N-M01					●						9.525	9.7	3.97	0.4	
	NEW CCMT09T308N-M01					●						9.525	9.7	3.97	0.8	
	★ NEW CCMT060202N-F01	●										6.35	6.4	2.38	0.2	
	★ NEW CCMT060204N-F01	●										6.35	6.4	2.38	0.4	
	★ NEW CCMT09T304N-F01	●										9.525	9.7	3.97	0.4	
	★ NEW CCMT09T308N-F01	●										9.525	9.7	3.97	0.8	
	★ NEW CCMT120404N-F01	●										12.7	12.9	4.76	0.4	
	★ NEW CCMT120408N-F01	●										12.7	12.9	4.76	0.8	

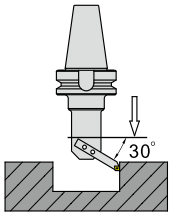
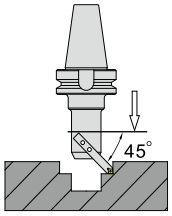
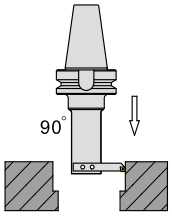
★ 推薦 Recommended NEW 新品 New Product

• 長度單位 Unit of Length (mm)

SBS 替換式搪孔刀柄
SBS INTERCHANGEABLE BORING CUTTER

KOVIT



	規格 Spec.	L	D	角度 Angle	刀片 Insert	重量 (KGS) Weight
	SBS-308	55	8	30°	TP..0902	0.04
	SBS-310	65	10	30°	TP..0902	0.06
	SBS-313	80	13	30°	TP..1103	0.11
	SBS-316	120	16	30°	TP..1103	0.24
	SBS-319	140	19	30°	TP..1603	0.40
	SBS-325	150	25	30°	TP..1603	0.74
	SBS-408	55	8	45°	TP..0902	0.04
	SBS-410	65	10	45°	TP..0902	0.06
	SBS-413	80	13	45°	TP..1103	0.11
	SBS-416	120	16	45°	TP..1103	0.26
	SBS-419	140	19	45°	TP..1603	0.41
	SBS-425	150	25	45°	TP..1603	0.72
	SBS-908	55	8	90°	TP..0902	0.04
	SBS-910	65	10	90°	TP..0902	0.06
	SBS-913	80	13	90°	TP..1103	0.11
	SBS-916	120	16	90°	TP..1103	0.25
	SBS-919	140	19	90°	TP..1603	0.42
	SBS-925	150	25	90°	TP..1603	0.74

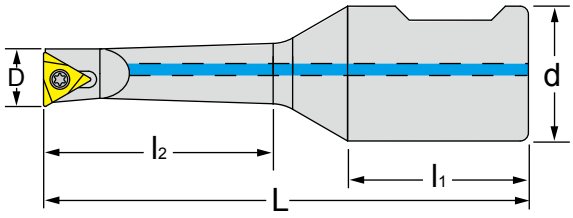
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
TP..0902	M2.5-6.0-3.5-60	T8	1.2
TP..1103	M3-8.0-4.0-43	T9	1.4
TP..1603	M4-10-5.0-43	T15	3.0

• 長度單位 Unit of Length (mm)

BR 替換式搪孔刀柄
BR INTERCHANGEABLE BORING CUTTER

KOVIT



特點 Feature

- 可使用於 HBOR 精搪孔頭上
- 附中心出水孔

- Available to install in HBOR boring head.
- With through coolant hole.

規格 Spec.	ØD 搪孔範圍 Boring Range		L	l_1	l_2	D	d	刀片 Insert	重量 (KGS) Weight
	Min.	Max.							
BR1606-21-C	6	9	56	22	21	6	16	WB..0601	0.04
BR1608-28-C	8	11	58	22	28	8	16	TB..0601	0.04
BR1610-35-C	10	13	64	22	35	10	16	TB..0601	0.05
BR1612-42-C	12	15	69	22	42	12	16	TP..0902	0.06
BR1614-50-C	14	17	76	22	50	14	16	TP..0902	0.07
BR1616-60-C	16	20	87	22	60	16	16	TP..0902	0.09
BR1620-65-C	20	24	90	22	65	20	16	TP..1103	0.11
BR1624-68-C	24	28	93	22	68	24	16	TP..1103	0.12

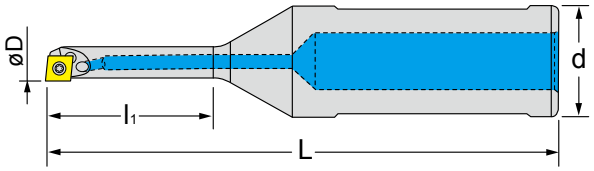
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
WB..0601	M2-3.8-2.68-43	T6	0.6
TB..0601	M2-5.0-2.7-60	T6	0.6
TP..0902	M2.5-6.0-3.5-60	T8	1.2
TP..1103	M3-8.0-4.0-43	T9	1.4

• 長度單位 Unit of Length (mm)

CBJ 替換式搪孔刀柄
CBJ INTERCHANGEABLE BORING CUTTER

KOVIT



特點 Feature

- 可使用於 HBOR 及 SBJ16 精搪孔頭上
- 附中心出水孔

- Available to install in HBOR/SBJ boring head.
- With through coolant hole.

規格 Spec.	ØD 搪孔範圍 Boring Range		L	l_1	d	刀片 Insert	重量 (KGS) Weight
	Min.	Max.					
CBJ-1606-24-C	6	9	73	24	16	CC..03S1	0.09
CBJ-1608-32 -C	8	11	78	32	16	CC..04T0	0.09
CBJ-1610-40-C	10	13	86	40	16	CC..0602	0.10
CBJ-1612-53-C	12	17	99	53	16	CC..0602	0.10
CBJ-1616-68-C	16	21	114	68	16	CC..0602	0.15
CBJ-1620-83-C	20	26	122	83	16	CC..09T3	0.19
CBJ-1625-90-C	25	32	129	90	16	CC..09T3	0.20
CBJ-1630-90-C	30	40	129	90	16	CC..09T3	0.28
CBJ-1640-90-C	40	50	129	90	16	CC..09T3	0.40

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
CC..03S1	M1.8-4.0-2.5-54	T6	0.6
CC..04T0	M2.2-4.7-3.1-60	T7	0.9
CC..0602	M2.5-6.0-3.5-60	T8	1.2
CC..09T3	M4-8.0-5.7-60	T9	1.4

• 長度單位 Unit of Length (mm)

SBJ-10 替換式搪孔刀柄
SBJ-10 INTERCHANGEABLE BORING CUTTER

KOVIT

Fig.1

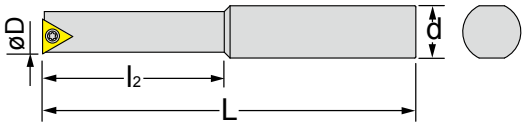
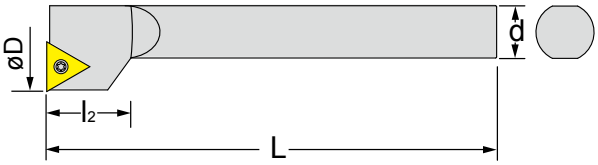


Fig.2



規格 Spec.	øD 搪孔範圍 Boring Range		D	d	L	l_2	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
	Min.	Max.										
SBJ-1008-32	8	10	8	10	64	32	TB..0601	M2-5.0-2.7-60	T6	0.6	1	0.06
SBJ-1010-40	10	12	10	10	77	40	TB..0601	M2-5.0-2.7-60	T6	0.6	1	0.06
SBJ-1012-45	12	16	12	10	77	22	TP..0902	M2.5-6.0-3.5-60	T8	1.2	2	0.08
SBJ-1016-45	16	20	16	10	77	20	TP..0902	M2.5-6.0-3.5-60	T8	1.2	2	0.08
SBJ-1020-45	20	25	20	10	77	22.7	TP..0902	M2.5-6.0-3.5-60	T8	1.2	2	0.08

SBJ-12 替換式搪孔刀柄
SBJ-12 INTERCHANGEABLE BORING CUTTER

KOVIT

Fig.1

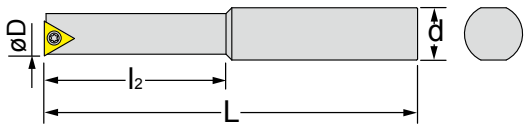
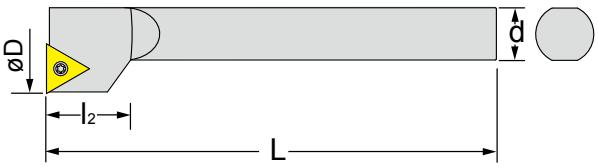


Fig.2

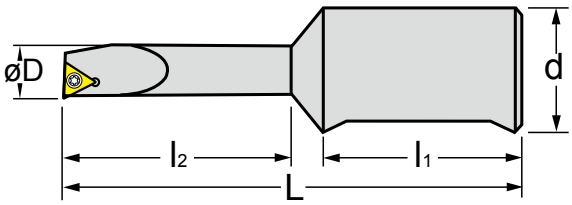


規格 Spec.	øD 搪孔範圍 Boring Range		D	d	L	l_2	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
	Min.	Max.										
SBJ-1208-32	8	10	8	12	64	32	TB..0601	M2-5.0-2.7-60	T6	0.6	1	0.08
SBJ-1210-40	10	12	10	12	72	40	TB..0601	M2-5.0-2.7-60	T6	0.6	1	0.08
SBJ-1212-45	12	16	12	12	77	45	TP..0902	M2.5-6.0-3.5-60	T8	1.2	1	0.08
SBJ-1216-45	16	20	16	12	77	20	TP..0902	M2.5-6.0-3.5-60	T8	1.2	2	0.10
SBJ-1220-45	20	25	20	12	77	23	TP..0902	M2.5-6.0-3.5-60	T8	1.2	2	0.08

• 長度單位 Unit of Length (mm)

SBJ-16 替換式搪孔刀柄
SBJ-16 INTERCHANGEABLE BORING CUTTER

KOVIT



規格 Spec.	øD 搪孔範圍 Boring Range		D	d	L	l_1	l_2	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
	Min.	Max.										
SBJ-1606-24	6	9	6	16	-	32	24	WB..0601	M2-3.8-2.68-43	T6	0.6	0.09
SBJ-1608-32	8	11	8	16	74	32	32	TB..0601	M2-5.0-2.7-60	T6	0.6	0.09
SBJ-1608-40	8	11	8	16	82	32	40	TB..0601	M2-5.0-2.7-60	T6	0.6	0.07
SBJ-1610-40	10	13	10	16	75	32	40	TB..0601	M2-5.0-2.7-60	T6	0.6	0.09
SBJ-1610-50	10	13	10	16	85	32	50	TB..0601	M2-5.0-2.7-60	T6	0.6	0.08
SBJ-1612-53	12	17	12	16	85	32	53	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.10
SBJ-1612-65	12	17	12	16	97	32	65	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.12
SBJ-1616-68	16	21	16	16	100	32	68	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.15
SBJ-1616-85	16	21	16	16	117	32	85	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.16
SBJ-1620-83	20	26	20	16	115	32	83	TP..1103	M3-8.0-4.0-43	T9	1.4	0.23
SBJ-1620-105	20	26	20	16	137	32	105	TP..1103	M3-8.0-4.0-43	T9	1.4	0.25
SBJ-1625-90	25	32	25	16	122	32	90	TP..1103	M3-8.0-4.0-43	T9	1.4	0.25
SBJ-1630-90	30	40	30	16	122	32	90	TP..1103	M3-8.0-4.0-43	T9	1.4	0.29
SBJ-1640-90	40	50	40	16	122	32	90	TP..1103	M3-8.0-4.0-43	T9	1.4	0.30

SBJ-20 替換式搪孔刀柄
SBJ-20 INTERCHANGEABLE BORING CUTTER

KOVIT

Fig.1

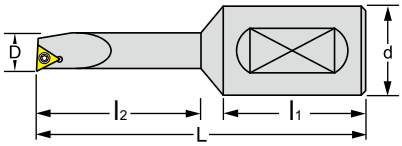
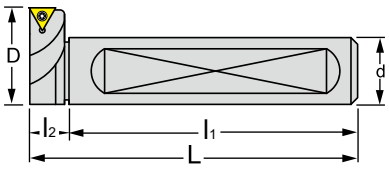


Fig.2



規格 Spec.	øD 搪孔範圍 Boring Range		D	d	L	l_1	l_2	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
	Min.	Max.											
SBJ-2008-32	8	11	8	20	76	32	44	TB..0601	M2-5.0-2.7-60	T6	0.6	1	0.12
SBJ-2010-40	10	13	10	20	76	32	44	TB..0601	M2-5.0-2.7-60	T6	0.6	1	0.10
SBJ-2012-53	12	17	12	20	85	32	53	TP..0902	M2.5-6.0-3.5-60	T8	1.2	1	0.13
SBJ-2016-68	16	21	16	20	100	32	68	TP..0902	M2.5-6.0-3.5-60	T8	1.2	1	0.18
SBJ-2020-83	20	26	20	20	115	32	83	TP..1103	M3-8.0-4.0-43	T9	1.4	1	0.25
SBJ-2025-96	25	135	25	20	135	32	96	TP..1103	M3-8.0-4.0-43	T9	1.4	1	0.30
SBJ-2030-115	30	140	30	20	158	32	115	TP..1103	M3-8.0-4.0-43	T9	1.4	1	0.59
SBJ-L20-20	280		28	20	97	83.5	13.5	TP..1103	M3-8.0-4.0-43	T9	1.4	2	0.28

• 長度單位 Unit of Length (mm)

SBJ 搪孔刀柄套裝組
SBJ BORING CUTTER SET

KOVIT

Fig.1

Fig.2

Fig.3

Fig.4

規格 Spec.	內容物 Contents						Fig.	重量 (KGS) Weight
	刀具 Tools	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	數量 Qty		
CSBJ16-C D×5-SET	CSBJ-1605-28-C	CCGT03S104L-F RM4015(10 片)	M1.8-4.0-2.5-54	T6K	0.6	1	1	2.16
	CSBJ-1606-30-C							
	CSBJ-1608-40-C	TBGT060104L RM4030 (10 片)	M2-5.0-2.7-60					
	CSBJ-1610-50-C							
	CSBJ-1612-60-C	TPGT090204L RM4030 (10 片)	M2.5-6.0-3.5-60	T8K	1.2			
	CSBJ-1614-70-C							
	CSBJ-1616-80-C	TPGT110304L RM4030 (10 片)	M3-8.0-4.0-43	T9K	1.4			
	CSBJ-1618-90-C							

規格 Spec.	內容物 Contents						Fig.	重量 (KGS) Weight
	刀具 Tools	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	數量 Qty		
CSBJ16-C D×6-SET	CSBJ-1605-34-C	CCGT03S104L-F RM4015(10 片)	M1.8-4.0-2.5-54	T6K	0.6	1	2	2.16
	CSBJ-1606-36-C							
	CSBJ-1608-48-C	TBGT060104L RM4030(10 片)	M2-5.0-2.7-60					
	CSBJ-1610-60-C							
	CSBJ-1612-72-C	TPGT090204L RM4030 (10 片)	M2.5-6.0-3.5-60	T8K	1.2			
	CSBJ-1614-84-C							
	CSBJ-1616-96-C	TPGT110304L RM4030 (10 片)	M3-8.0-4.0-43	T9K	1.4			
	CSBJ-1618-108-C							

規格 Spec.	內容物 Contents						Fig.	重量 (KGS) Weight
	刀具 Tools	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	數量 Qty		
CCBJ16-C D×5-SET	CSBJ-1605-28-C	CCGT03S104L-F RM4015(10 片)	M1.8-4.0-2.5-54	T6K	0.6	1	3	2.16
	CSBJ-1606-30-C							
	CCBJ-1608-40-C							
	CCBJ-1610-50-C	CCMT060204-M01 RM4035(10 片)	M2.5-6.0-3.5-60	T8K	1.2			
	CCBJ-1612-60-C							
	CCBJ-1614-70-C	CCMT09T304-M01 RM4035(10 片)	M4-8.0-5.7-60	T15K	3.0			
	CCBJ-1616-80-C							
	CCBJ-1618-90-C							

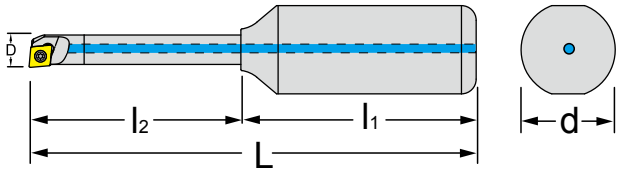
規格 Spec.	內容物 Contents						Fig.	重量 (KGS) Weight
	刀具 Tools	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	數量 Qty		
CCBJ16-C D×6-SET	CSBJ-1605-34-C	CCGT03S104L-F RM4015(10 片)	M1.8-4.0-2.5-54	T6K	0.6	1	4	3.2
	CSBJ-1606-36-C							
	CCBJ-1608-48-C							
	CCBJ-1610-60-C	CCMT060204-M01 RM4035(10 片)	M2.5-6.0-3.5-60	T8K	1.2			
	CCBJ-1612-72-C							
	CCBJ-1614-84-C	CCMT09T304-M01 RM4035(10 片)	M4-8.0-5.7-60	T15K	3.0			
	CCBJ-1616-96-C							
	CCBJ-1618-108-C							

• 長度單位 Unit of Length (mm)

CCBJ/CSBJ-16 鎢鋼替換式搪孔刀柄
CCBJ/CSBJ-16 INTERCHANGEABLE CARBIDE BORING CUTTER

PAT.NO: M370451

KOVIT



特點 Feature

- 使用碳化鎢鋼材質，加工深度可達直徑的數倍
- 高剛性，延長使用刀片壽命
- 抗震性佳，加工後搪孔尺寸穩定

- Tungsten carbide material applied. Working depth could be up to times of cutter diameter.
- High rigidity, extended life.
- Excellent vibration resistance, machining maintain accurate boring size.

D×5

規格 Spec.	L	l1	l2	D	d	搪孔範圍 Boring Range	刀片 Insert	重量 (KGS) Weight
CSBJ-1605-28-C	68	40	28	5.6	16	5.6-8	CC..03S1	0.06
CSBJ-1606-30-C	70	40	30	6	16	6-9	CC..03S1	0.07
CCBJ-1608-40-C	80	40	40	8	16	8-11	CC..03S1	0.07
CCBJ-1610-50-C	90	40	50	10	16	10-13	CC..0602	0.10
CCBJ-1612-60-C	100	40	60	12	16	12-15	CC..0602	0.13
CCBJ-1614-70-C	110	40	70	14	16	14-17	CC..09T3	0.18
CCBJ-1616-80-C	120	40	80	16	16	16-19	CC..09T3	0.25
CCBJ-1618-90-C	130	-	-	18	16	18-21	CC..09T3	0.33

D×6

規格 Spec.	L	l1	l2	D	d	搪孔範圍 Boring Range	刀片 Insert	重量 (KGS) Weight
CSBJ-1605-34-C	74	40	34	5.6	16	5.6-8	CC..03S1	0.06
CSBJ-1606-36-C	76	40	36	6	16	6-9	CC..03S1	0.07
CCBJ-1608-48-C	88	40	48	8	16	8-11	CC..03S1	0.08
CCBJ-1610-60-C	100	40	60	10	16	10-13	CC..0602	0.10
CCBJ-1612-72-C	112	40	72	12	16	12-15	CC..0602	0.15
CCBJ-1614-84-C	124	40	84	14	16	14-17	CC..09T3	0.20
CCBJ-1616-96-C	136	40	96	16	16	16-19	CC..09T3	0.28
CCBJ-1618-108-C	148	-	-	18	16	18-21	CC..09T3	0.38

配件表 Accessories

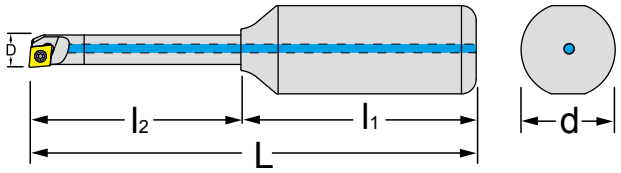
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
CC..03S1	M1.8-4.0-2.5-54	T6	0.6
CC..0602	M2.5-6.0-3.5-60	T8	1.2
CC..09T3	M4-8.0-5.7-60	T15	3.0

• 長度單位 Unit of Length (mm)

CSBJ-16 鎢鋼替換式搪孔刀柄
CSBJ-16 INTERCHANGEABLE TUNGSTEN CARBIDE BORING CUTTER

PAT.NO: M370451

KOVIT



特點 Feature

- 使用碳化鎢鋼材質，加工深度可達直徑的數倍
- 高剛性，延長使用刀片壽命
- 抗震性佳，加工後搪孔尺寸穩定

-Tungsten carbide material applied. Working depth could be up to times of cutter diameter.
- High rigidity, extended life.
- Excellent vibration resistance, machining maintain accurate boring size.

D×5

規格 Spec.	L	l_1	l_2	D	d	搪孔範圍 Boring Range	刀 片 Insert	重 量 (KGS) Weight
CSBJ-1605-28-C	68	40	28	5.6	16	5.6-8	CC..03S1	0.06
CSBJ-1606-30-C	70	40	30	6	16	6-9	CC..03S1	0.07
CSBJ-1608-40-C	80	40	40	8	16	8-11	TB..0601	0.07
CSBJ-1610-50-C	90	40	50	10	16	10-13	TB..0601	0.10
CSBJ-1612-60-C	100	40	60	12	16	12-15	TP..0902	0.13
CSBJ-1614-70-C	110	40	70	14	16	14-17	TP..0902	0.18
CSBJ-1616-80-C	120	40	80	16	16	16-19	TP..1103	0.25
CSBJ-1618-90-C	130	-	-	18	16	18-21	TP..1103	0.33

D×6

規格 Spec.	L	l_1	l_2	D	d	搪孔範圍 Boring Range	刀 片 Insert	重 量 (KGS) Weight
CSBJ-1605-34-C	74	40	34	5.6	16	5.6-8	CC..03S1	0.06
CSBJ-1606-36-C	76	40	36	6	16	6-9	CC..03S1	0.07
CSBJ-1608-48-C	88	40	48	8	16	8-11	TB..0601	0.08
CSBJ-1610-60-C	100	40	60	10	16	10-13	TB..0601	0.10
CSBJ-1612-72-C	112	40	72	12	16	12-15	TP..0902	0.15
CSBJ-1614-84-C	124	40	84	14	16	14-17	TP..0902	0.20
CSBJ-1616-96-C	136	40	96	16	16	16-19	TP..1103	0.28
CSBJ-1618-108-C	148	-	-	18	16	18-21	TP..1103	0.38

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
CC..03S1	M1.8-4.0-2.5-54	T6	0.6
TB..0601	M2-5.0-2.7-60	T6	0.6
TP..0902	M2.5-6.0-3.5-60	T8	1.2
TP..1103	M3-8.0-4.0-43	T9	1.4

• 長度單位 Unit of Length (mm)

CSBJ-20 鎢鋼替換式搪孔刀柄
CSBJ-20 INTERCHANGEABLE CARBIDE BORING CUTTER

PAT.NO: M370451

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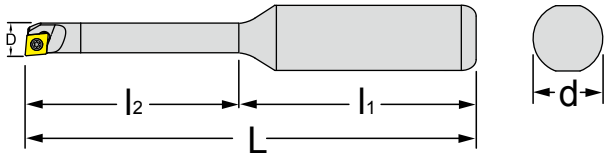


特點 Feature

- 使用碳化鎢鋼材質，加工深度可達直徑的數倍
- 高剛性，延長使用刀片壽命
- 抗震性佳，加工後搪孔尺寸穩定

-Tungsten carbide material applied. Working depth could be up to times of cutter diameter.
- High rigidity, extended life.
- Excellent vibration resistance, machining maintain accurate boring size.

D×5

規格 Spec.	L	l_1	l_2	D	d	搪孔範圍 Boring Range	刀 片 Insert	重 量 (KGS) Weight
CSBJ-2005-28	68	40	28	5.6	20	5.6-8	CC..03S1	0.12
CSBJ-2006-30	70	40	30	6	20	6-9	CC..03S1	0.13
CSBJ-2008-40	80	40	40	8	20	8-11	TB..0601	0.13
CSBJ-2010-50	90	40	50	10	20	10-13	TB..0601	0.16
CSBJ-2012-60	100	40	60	12	20	12-15	TP..0902	0.19
CSBJ-2014-70	110	40	70	14	20	14-17	TP..0902	0.24
CSBJ-2016-80	120	40	80	16	20	16-19	TP..1103	0.31
CSBJ-2018-90	130	40	90	18	20	18-21	TP..1103	0.39
CSBJ-2020-100	140	40	100	20	20	20-26	TP..1103	0.42
CSBJ-2025-125	165	-	-	25	20	25-31	TP..1103	0.72
CSBJ-2030-150	190	-	-	30	20	31-37	TP..1103	0.86

D×6

規格 Spec.	L	l_1	l_2	D	d	搪孔範圍 Boring Range	刀 片 Insert	重 量 (KGS) Weight
CSBJ-2005-34	74	40	34	5.6	20	5.6-8	CC..03S1	0.12
CSBJ-2006-36	76	40	36	6	20	6-9	CC..03S1	0.13
CSBJ-2008-48	88	40	48	8	20	8-11	TB..0601	0.13
CSBJ-2010-60	100	40	60	10	20	10-13	TB..0601	0.16
CSBJ-2012-72	112	40	72	12	20	12-15	TP..0902	0.20
CSBJ-2014-84	124	40	84	14	20	14-17	TP..0902	0.27
CSBJ-2016-96	136	40	96	16	20	16-19	TP..1103	0.35
CSBJ-2018-108	148	40	108	18	20	18-21	TP..1103	0.44
CSBJ-2020-120	160	40	120	20	20	20-26	TP..1103	0.48
CSBJ-2025-150	190	-	-	25	20	25-31	TP..1103	0.84
CSBJ-2030-180	220	-	-	30	20	31-37	TP..1103	0.99

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
CC..03S1	M1.8-4.0-2.5-54	T6	0.6
TB..0601	M2-5.0-2.7-60	T6	0.6
TP..0902	M2.5-6.0-3.5-60	T8	1.2
TP..1103	M3-8.0-4.0-43	T9	1.4

• 長度單位 Unit of Length (mm)

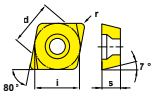
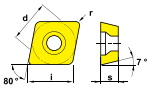
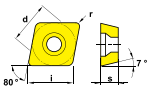
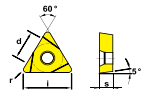
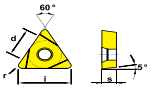
搪孔系列刀片
BORING SERIES INSERT

KOVIT

ISO 分類													
	P	合金鋼 Alloyed Steels	○	○	○			○					
	M	不鏽鋼 Stainless Steels	○										
	K	鑄鐵 Cast Iron											
	N	鋁及鋁合金 Aluminum&Al									○		
	S	高溫合金 Refractory Alloys											
	H	高硬度材 Hard Material						○					

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain					瓷金 Cermet coated			超微粒硬質合金 Micro grain carbide alloy			尺寸 (mm)				圖形 Drawing
		CHF					HT			HF			Size				
		RM4015	RM4030	RM4035			RM1205			RM5005			d	i	s	r	
	CCGT03S102L-F	●											3.57	-	1.39	0.2	
	CCGT03S104L-F	●											3.57	-	1.39	0.4	
	NEW CCMT060204N-M01						●						6.35	6.4	2.38	0.4	
	NEW CCMT09T304N-M01						●						9.525	9.7	3.97	0.4	
	NEW CCMT09T308N-M01						●						9.525	9.7	3.97	0.8	
	★ NEW CCMT060202N-F01			●									6.35	6.4	2.38	0.2	
	★ NEW CCMT060204N-F01			●									6.35	6.4	2.38	0.4	
	★ NEW CCMT09T304N-F01			●									9.525	9.7	3.97	0.4	
	★ NEW CCMT09T308N-F01			●									9.525	9.7	3.97	0.8	
	★ NEW CCMT120404N-F01			●									12.7	12.9	4.76	0.4	
	★ NEW CCMT120408N-F01			●									12.7	12.9	4.76	0.8	
	TBGT060102L-F01		●				●			●			3.97	6.4	1.59	0.2	
	TBGT060104L-F01		●				●			●			3.97	6.4	1.59	0.4	
	TPGT080202L-F01		●				●			●			4.76	8.2	2.38	0.2	
	TPGT080204L-F01		●				●			●			4.76	8.2	2.38	0.4	
	TPGT090202L-F01		●				●			●			5.56	9.6	2.38	0.2	
	TPGT090204L-F01		●				●			●			5.56	9.6	2.38	0.4	
	TPGT110302L-F01		●				●			●			6.35	11	3.18	0.2	
	TPGT110304L-F01		●				●			●			6.35	11	3.18	0.4	

★ 推薦 Recommended NEW 新品 New Product

• 長度單位 Unit of Length (mm)

AMC 殼式粗切削端銑刀
AMC SHELL TYPE ROUGH CUTTING END MILL

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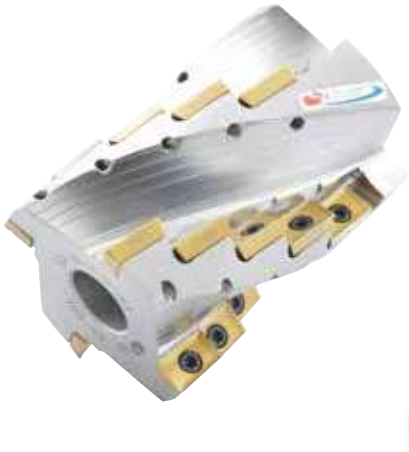

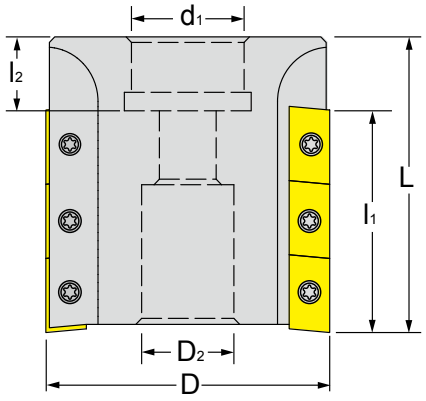

特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	l_1	l_2	D	D_2	d_1	刃數 Flutes	刀片數 Insert Qty.	刀片 Insert	重量 (KGS) Weight
AMC-50-45L-FMB22	64	45	31	50	18	22	3	9	AP..1604	0.51
AMC-63-45L-FMA25.4	64	45	-	63	19	25.4	4	12	AP..1604	1.03
AMC-63-68L-FMA25.4	90	68	42	63	19	25.4	4	20	AP..1604	1.19
AMC-63-68L-FMA31.75	90	68	-	63	26	31.75	4	20	AP..1604	0.92

配件表 Accessories

規格 Spec.	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	華司螺絲 Screw	小頭華司 Screw
AMC-50-45L-FMB22	AP..1604	M4-10-5.7-60	T15	3.0	AMC-M10-1.5P-50L	-
AMC-63-45L-FMA25.4	AP..1604	M4-10-5.7-60	T15	3.0	AMC-1/2-12W-2L	-
AMC-63-68L-FMA25.4	AP..1604	M4-10-5.7-60	T15	3.0	AMC-1/2-12W-2L	-
AMC-63-68L-FMA31.75	AP..1604	M4-10-5.7-60	T15	3.0	AMC-1/2-12W-2-1/2L	D25.2-19-16L

範例 Example

• 長度單位 Unit of Length (mm)

AMC 殼式粗切削端銑刀
AMC SHELL TYPE ROUGH CUTTING END MILL

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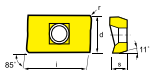
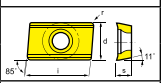
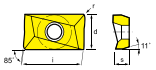
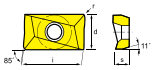
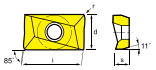
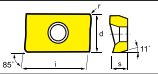
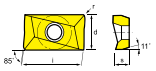
ISO 分類			OM4025	OM4025N	RM3130	RM4130	RM535		GH05	OM5005	OM5060	RM5005	
	P	合金鋼 Alloyed Steels	○	○		○							
	M	不鏽鋼 Stainless Steels	○			○							
	K	鑄鐵 Cast Iron	○		○								
	N	鋁及鋁合金 Aluminum&Al							■	■	○	○	
	S	高溫合金 Refractory Alloys					○						
	H	高硬度材 Hard Material											

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain CHF						超微粒硬質合金 Micro grain carbide alloy HF					尺寸 (mm) Size				圖形 Drawing
		OM4025	OM4025N	RM3130	RM4130	RM535		GH05	OM5005	OM5060	RM5005		d	i	s	r	
	★ APEX1604PDFR-F01								●	●			9.525	16.4	4.76	-	
	★ APEX160400PDFR-F01								●	●			9.525	16.4	4.76	-	
	★ APEX160404PDFR-F01								●	●			9.525	16.4	4.76	0.4	
	★ APEX160408PDFR-F01								●	●			9.525	16.4	4.76	0.8	
	APEX1604PDFR-701							●					9.525	16.4	4.76	0.2	
	APGT1604PDFR-G2										●		9.525	16.5	4.76	0.8	
	APGT160408PDFR-F02										●		9.525	16.4	4.76	0.8	
	APKT1604PDER-M05					●							9.525	16.4	4.76	0.4	
	APKT160408PDER-M02			●	●								9.525	16.4	4.76	0.8	
	★ APKT160408-M01	●	●										9.525	16.6	4.76	0.8	

★ 推薦 Recommended

AP_16 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切深 Ap(mm)
P	低合金鋼 Low-Alloy Steels	OM4025	120~300	0.15~0.40	3.0~8.0
		OM4025N	120~300	0.15~0.40	3.0~8.0
		RM4130	60~300	0.10~0.25	3.0~8.0
	合金鋼 Alloyed Steels	OM4025	80~180	0.15~0.35	3.0~8.0
		RM4130	60~300	0.10~0.25	3.0~8.0
M	不鏽鋼 Stainless Steels	OM4025	120~160	0.15~0.35	3.0~8.0
		RM4130	120~160	0.10~0.25	3.0~8.0
K	鑄鐵 Cast Iron	OM4025	160~250	0.15~0.30	3.0~8.0
		RM3130	160~250	0.15~0.30	3.0~8.0
N	鋁合金 Aluminum&Al	OM5005	400~1000	0.04~0.20	3.0~8.0
		OM5060	400~1000	0.04~0.20	3.0~8.0
		RM5005	400~1000	0.04~0.20	3.0~8.0
		GH05	300~800	0.04~0.20	3.0~8.0
S	高溫合金 Refractory Alloys	RM535	80~180	0.15~0.35	3.0~8.0

主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑) Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速 Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

PMC 殼式粗切削端銑刀
PMC SHELL TYPE ROUGH CUTTING END MILL

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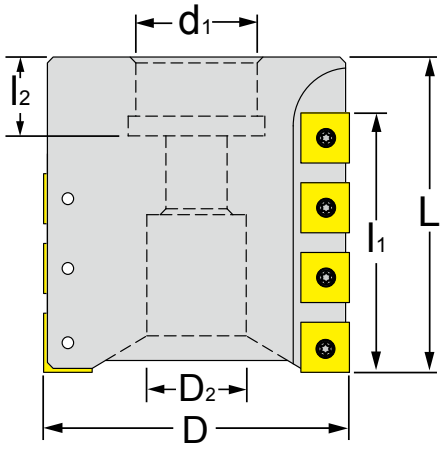


特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

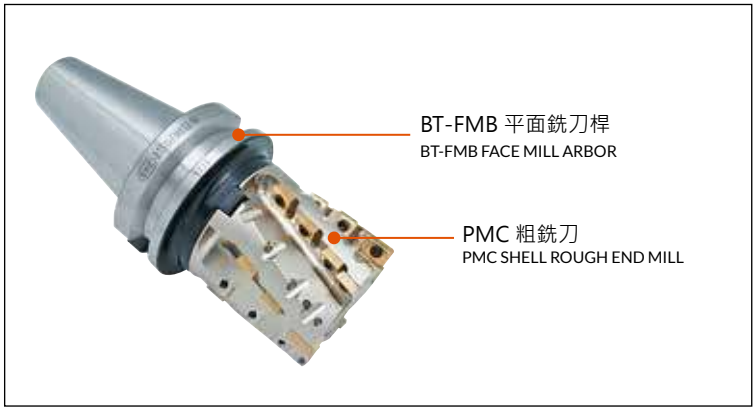
- Made of anti-vibration tool steel
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	l_1	l_2	D	D_2	d_1	刃數 Flutes	刀片 Insert	刀片數 Insert Qty.	刀片 Insert	刀片數 Insert Qty.	重量 (KGS) Weight
PMC-80-67L	80	67	42	80	26	31.75	6	LP..1504	3	SP..1204	18	1.92
PMC-80-67L-FMB32	80	67	42	80	26	32	6	LP..1504	3	SP..1204	18	1.92
PMC-100-77L-FMB40	100	77	-	100	48	40	8	LP..1504	4	SP..1204	28	3.82

配件表 Accessories

規格 Spec.	刀片 Insert	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	華司螺絲 Screw	小頭華司 Screw
PMC-80-67L	LP..1504	SP..1204	M5-11-6.4-43	T20	5.0	PMC-1/2-12W-2-1/2L	D25.2-19-16L
PMC-80-67L-FMB32	LP..1504	SP..1204	M5-11-6.4-43	T20	5.0	PMC-M12-1.75P-50L	D25.2-19-16L
PMC-100-77L-FMB40	LP..1504	SP..1204	M5-11-6.4-43	T20	5.0	PMC-M16-2.0P-80L	-

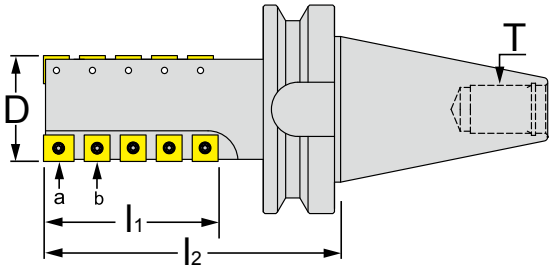
範例 Example



• 長度單位 Unit of Length (mm)

BMC 粗切削端銑刀
BMC ROUGH CUTTING END MILL

KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

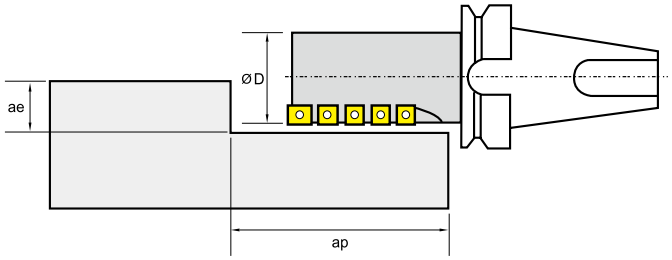
- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	l_1	l_2	D	T	刃數 Flutes	刀片 Insert Qty. LP..1504 (a)	刀片數量 Insert Qty. SP..1204 (b)	重量 (KGS) Weight
NT50-BMC50-77L	77	123.2	50	1"-8W	4	2	14	4.21
NT50-BMC63-87L	87	133.2	63	1"-8W	4	2	16	5.19
BT50-BMC50-77L	77	144	50	M24-3.0P	4	2	14	5.08
BT50-BMC50-97L	97	166	50	M24-3.0P	4	2	18	5.48
BT50-BMC63-87L	87	156	63	M24-3.0P	4	2	16	5.90
BT50-BMC63-107L	107	176	63	M24-3.0P	4	2	20	6.48

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
LP..1504	M5-11-6.4-43	T20K	5.0
SP..1204	M5-11-6.4-43	T20K	5.0

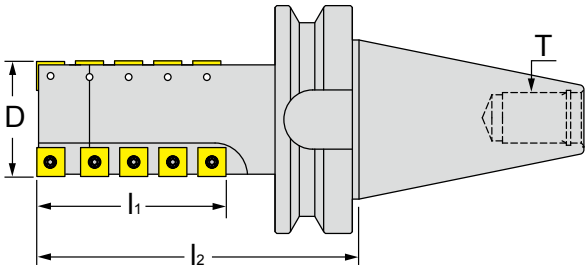
軸向切削量 (Ap) Depth of cut in axial direction		徑向切削量 (Ae) Depth of cut in radial direction
Ap≦1D	→	(ae/D)≦0.5
1D＜Ap≦1.5D	→	(ae/D)≦0.25
1.5D＜Ap≦2D	→	(ae/D)≦0.1



• 長度單位 Unit of Length (mm)

BT/CBMC 替換式粗切削銑刀
BT/CBMC INDEXABLE ROUGH CUTTING END MILL

KOVIT



特點 Feature

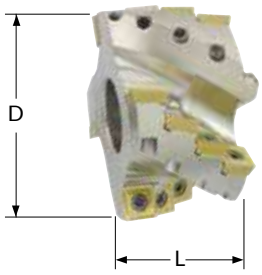
- 如切削損壞時，前端刀頭可更換粗銑刀，降低成本

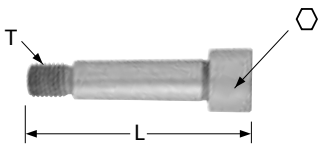
-The front cutting head is replaceable, effective cost-saving.

規格 Spec.	l1	l2	D	T	刃數 Flutes	刀片 Insert	刀片數量 Insert Qty.	重量 (KGS) Weight
BT50-CBMC63-200L	200	285	63	M24-3.0P	3	SP..1204	57	7.40
BT50-CBMC63-260L	260	345	63	M24-3.0P	3	SP..1204	75	8.10
BT50-CBMC80-200L	200	285	80	M24-3.0P	4	SP..1204	76	10.0

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SP..1204	M5-10-6.3-43	T20K	5.0





規格 Spec.	L	D	刃數 Flutes	刀片數量 Insert Qty.	重量 (KGS) Weight
CBMC63-42L	42	63	3	12	0.60
CBMC80-42L	42	80	4	16	1.00

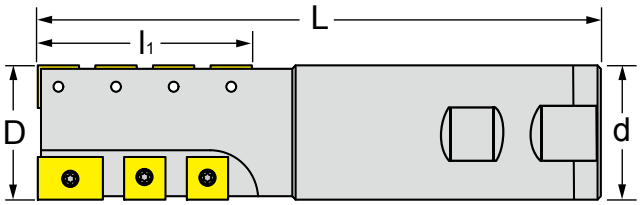
規格 Specificaion	L	T	⬡ Wrench	重量 (KGS) Weight
CBMC63-M16-83L	83	M16	10	0.14
CBMC80-M16-93L	93	M16	12	0.20

範例 Example

• 長度單位 Unit of Length (mm)

SPE 粗切削銑刀
SPE ROUGH CUTTING END MILL

KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

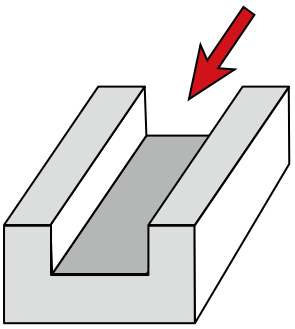
- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	l_1	D	d	刃數 Flutes	刀片 Insert	刀片數量 Insert Qty.	刀片 Insert	刀片數量 Insert Qty.	重量 (KGS) Weight
SPE-40-56L-2T	173	56	40	42	2	LP..1504	1	SP..1204	5	1.45
SPE-40-50L-4T	155	64	40	32	4	AP..1503	2	SD..0903	16	0.92
SPE-50-97L-4T	224	97	50	50.8	4	LP..1504	2	SP..1204	18	2.69
SPE-50-158L-4T	284	158	50	50.8	4	LP..1504	2	SP..1204	30	3.15

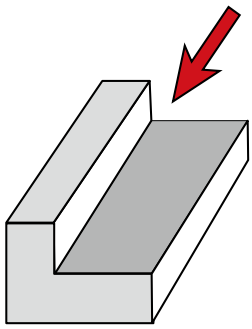
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
LP..1504	M5-11-6.4-43	T20	5.0
AP..1503	M4-10-5.0-43	T15	3.0
SD..0903	M4-10-5.0-43	T15	3.0
SP..1204	M5-11-6.4-43	T20	5.0

最大切削深度 .12mm
Max. Ap. 12mm



開 槽
Slotting



側邊加工
Shoulder milling

• 長度單位 Unit of Length (mm)

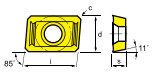
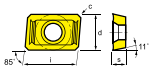
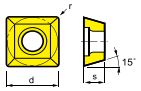
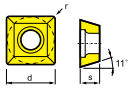
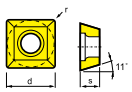
粗切削銑刀 ROUGH CUTTING END MILL

KOVIT

ISO 分類														
	P	合金鋼 Alloyed Steels	○	○	○									
	M	不鏽鋼 Stainless Steels	○	○										
	K	鑄鐵 Cast Iron	○											
	N	鋁及鋁合金 Aluminum&Al								■				
	S	高溫合金 Refractory Alloys												
	H	高硬度材 Hard Material	○											

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain CHF							超微粒硬質合金 Micro grain cemented carbide HF					尺寸 (mm) Size				圖形 Drawing
		OM4010	OM4025	RM4025					OM5005					d	i	s	r	
	APMT1503-R01	●	●											9.52	15	3.18	0.8	
	LPMT1504-R01		●											12.7	15.88	4.76	-	
	SDMT090308-R01	●	●											9.52	-	3.18	0.8	
	SPET120408-M02								●					12.7	-	4.76	0.8	
	SPMT120408-R01			●										12.7	-	4.76	0.8	

AP_15.SP_12.SD_09.LP_15 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		加工型態 Processing Type	刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)
P	低合金鋼 Low-Alloy Steels	開槽 Slotting	OM4010	90~120	0.05~0.10
		側邊加工 Side Milling		110~140	0.08~0.13
		開槽 Slotting	OM4025	90~110	0.05~0.10
		側邊加工 Side Milling		110~130	0.08~0.13
		開槽 Slotting	RM4025	90~110	0.05~0.10
		側邊加工 Side Milling		110~130	0.08~0.13
	合金鋼 Alloyed Steels	開槽 Slotting	OM4010	70~100	0.05~0.10
		側邊加工 Side Milling		90~120	0.06~0.15
		開槽 Slotting	OM4025	70~90	0.05~0.10
		側邊加工 Side Milling		90~110	0.06~0.15
		開槽 Slotting	RM4025	70~90	0.05~0.10
		側邊加工 Side Milling		90~110	0.06~0.15
M	不鏽鋼 Stainless Steels	側邊加工 Side Milling	OM4010	130~190	0.06~0.15
			OM4025	130~170	0.06~0.15
K	鑄鐵 Cast Iron	開槽 Slotting	OM4025	70~90	0.18~0.12
		側邊加工 Side Milling		90~150	0.10~0.15
N	鋁合金 Aluminum&Al	開槽 Slotting	OM5005	450(500~700)	1.2(1.2~1.8)
		側邊加工 Side Milling			

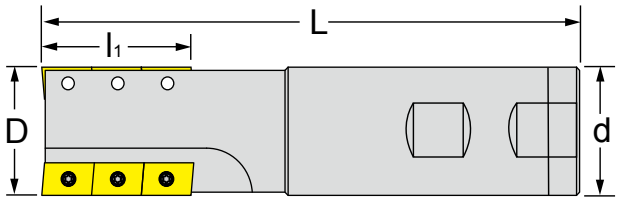
▎主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑) Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

▎床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速 Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

APE 粗切削銑刀
APE ROUGH CUTTING END MILL

KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

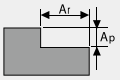
- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	l1	D	d	刃數 Flutes	刀片數量 Insert Qty.	刀片 Insert	重量 (KGS) Weight
APE-2020-28L-2T	107	28	20	20	2	5	AP..1003	0.23
APE-2525-37L-2T	125	37	25	25	2	8	AP..1003	0.41
APE-3232-46L-3T	135	46	32	32	3	15	AP..1003	0.70

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
AP..1003	M2.5-6.45-3.7-43	T8	1.2

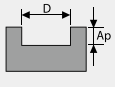
側邊加工 SHOULDER MILLING



Ap	Ar	每刃進給 f (mm/rev) 0.08	0.12	0.1
9	8	-	1.0	1.0
	16	-	1.5	1.8
18	8	1.5	1.8	2.0
	16	2.0	2.5	2.8
27	8	2.0	2.5	2.8
	16	3.0	3.8	4.0
		kW		

Ap	Ar	每刃進給 f (mm/rev) 0.15	0.20
25	10	3.0	3.5
	15	3.8	4.5
	20	4.5	-
40	10	4.0	5.0
	15	5.0	6.0
	20	6.0	-
		kW	

開槽加工 SLOTTING

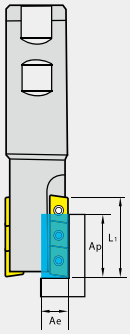


D	Ap	每刃進給 f (mm/rev) 0.08	0.12	0.1
20-25	9	1.8	2.2	2.5
	18	3.2	4.0	4.5
	27	-	5.5	5.8
		kW		

D	Ap	每刃進給 f (mm/rev) 0.10	0.15	0.20
32	20	4.4	5.5	6.8
	30	5.8	7.8	9.2
	40	7.8	10	-
		kW		

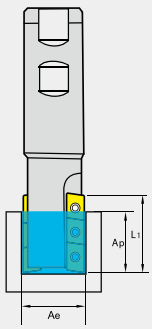
側銑加工 PROFILE MILLING

d1	ap
Ø 20	22
Ø 25	30
Ø 32	37
Ø 40	44

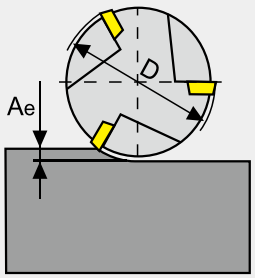


開槽加工 SLOTTING

d1	ap
Ø 20	14
Ø 25	18
Ø 32	23
Ø 40	27



ae / D	correct feed rate
0.1	2.2×fz
0.2	1.4×fz
0.5	1.0×fz
0.7	0.8×fz
1.0	0.7×fz

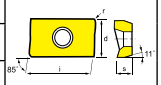
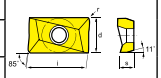
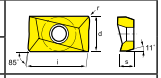
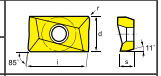
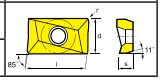


• 長度單位 Unit of Length (mm)

APE 粗切削銑刀
APE ROUGH CUTTING END MILL

KOVIT

ISO 分類														切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	P	合金鋼 Alloyed Steels	○											
	M	不鏽鋼 Stainless Steels	○											
	K	鑄鐵 Cast Iron												
	N	鋁及鋁合金 Aluminum&Al							■	○	○			
	S	高溫合金 Refractory Alloys		○										
	H	高硬度材 Hard Material												

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain						超微粒硬質合金 Micro grain carbide alloy					尺寸 (mm)				圖形 Drawing
		CHF						HF					Size				
		RM4130	RM535					OM5005	OM5060	RM5005			d	i	s	r	
	★ APEX100304PDFR-F01							●	●				6.68	10.5	2.38	0.4	
	APGT100304PDFR-F04									●			6.68	10.5	2.38	0.4	
	APHT1003PDFR-F03									●			6.68	10.4	3.47	0.8	
	APKT100304PDER-M04	●											6.68	10.5	2.38	0.4	
	APKT1003PDER-M05		●										6.68	10.5	3.47	-	

★ 推薦 Recommended

AP_10 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切 深 Ap(mm)
P	低合金鋼 Low-Alloy Steels	RM4130	60~300	0.10~0.25	1.0~2.0
	合金鋼 Alloyed Steels	RM4130	60~300	0.10~0.25	1.0~2.0
M	不鏽鋼 Stainless Steels	RM4130	120~160	0.10~0.25	0.5~1.5
N	鋁合金 Aluminum&Al	OM5005	400~850	0.05~0.30	1.5~3.0
		OM5060	400~850	0.05~0.30	1.5~3.0
		RM5005	400~850	0.05~0.30	1.5~3.0
S	高溫合金 Refractory Alloys	RM535	25~40	0.10~0.20	0.8~1.5

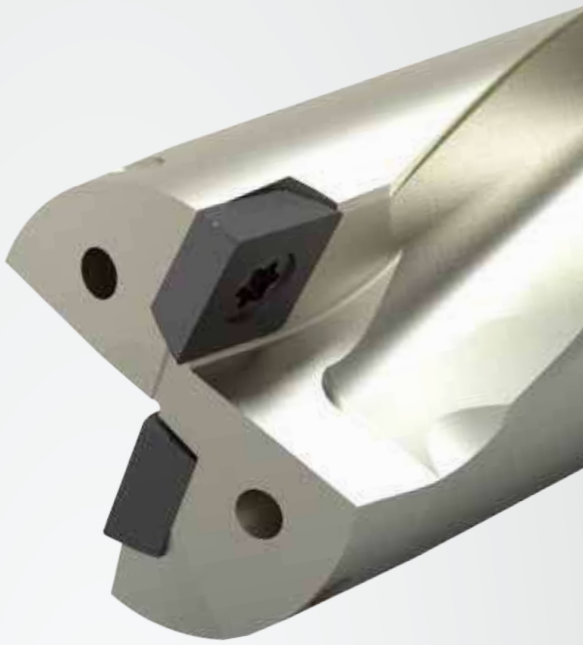
▎主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑)　Spindle Speed=(1000× Cutting speed)÷(3.14×Cutter outer diameter).

▎床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速　Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

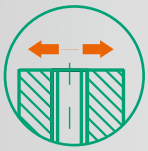
• 長度單位 Unit of Length (mm)

TSD多孔類型加工

TSD VARIETY OF HOLE TYPES MACHINING



斜面孔
Oblique Face



擴孔
Enlarge Hole

交叉孔
Cross Hole

半邊孔
Half Hole

套孔
Target Drills

凹面孔
Concave Face

High Speed Drill

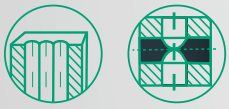
⚠ 注意事項 Tips

可用於粗加工除料或不規則表面鑽孔，無需預加工小孔，但表面傾斜角度不超過6度

Drilling irregular surface slope angle must be within 6° with no spot drill needed.

在進刀和退刀時，降低進給率30%~50%

Reduce 30% to 50% feed speed during engage and retract.

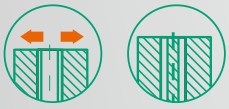


層板堆疊加工時，間隙應小於0.2mm

Gap b/w layers must be within 0.2mm when drilling stacking layer.

板材有變形及彎曲時，仍可進行加工作業

Available for drilling irregular or bending plates.



正確的使用切削液的壓力值，有助於鐵屑的排出，及降低刀具振動，和提高刀具壽命

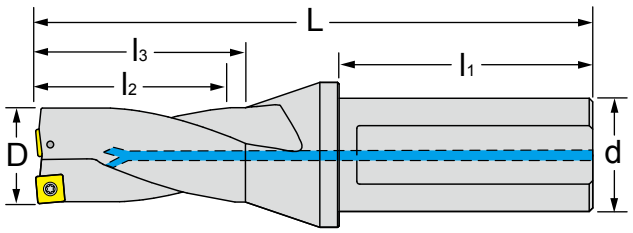
Correctly adjust the exact pressures of coolant can provide you stable operation and extended cutter life.

Feature

TSD 四角刀片快速鑽頭 (2 倍長)
TSD SQUARE INSERT HIGH SPEED DRILL

KOVIT

Dx2



特點 Feature

- 刀片使用四個刃口，可有效降低成本
- 刀片採四角型和內刃皆使用相同刀片，庫存容易管理，成本降低
- 同一刀片的使用可預防安裝錯誤和有效降低刀具損壞

- 4 edges are usable on 1 insert, effective cost-saving.
- Both inner and outer flutes use the same type of square inserts, which is easy for stock management, prevent mis-assembly and reduce cutter damaging.

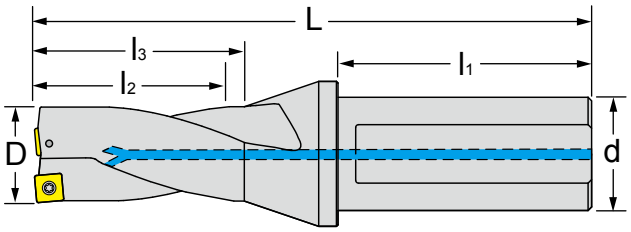
規格 Spec.	L	l1	l2	l3	D	d	刀片 Insert	重量 (KGS) Weight
NEWC20-TSD12-24L	96	50	24	29	12	20	SO..0402	0.18
C25-TSD13-26L	106	56	26	31	13	25	SP..0502	0.32
C25-TSD14-28L	108	56	28	33	14	25	SP..0502	0.33
C25-TSD15-30L	110	56	30	35	15	25	SP..0502	0.33
C25-TSD16-32L	114	56	32	37	16	25	SP..0602	0.34
C25-TSD17-34L	116	56	34	39	17	25	SP..0602	0.35
C25-TSD18-36L	118	56	36	41	18	25	SP..0602	0.36
C25-TSD19-38L	120	56	38	43	19	25	SP..0602	0.37
C25-TSD20-40L	122	56	40	45	20	25	SP..0602	0.38
C25-TSD21-42L	124	56	42	47	21	25	SP..0602	0.39
C25-TSD22-44L	126	56	44	49	22	25	SP..07T3	0.60
C32-TSD23-46L	134	60	46	51	23	32	SP..07T3	0.61
C32-TSD24-48L	136	60	48	53	24	32	SP..07T3	0.61
C32-TSD25-50L	138	60	50	55	25	32	SP..07T3	0.64
C32-TSD26-52L	140	60	52	57	26	32	SP..07T3	0.66
C32-TSD27-54L	142	60	54	59	27	32	SP..07T3	0.67
C32-TSD28-56L	146	60	56	61	28	32	SP..0904	0.68
C32-TSD29-58L	148	60	58	63	29	32	SP..0904	0.72
C32-TSD30-60L	150	60	60	65	30	32	SP..0904	0.74
C32-TSD31-62L	152	60	62	67	31	32	SP..0904	0.76
C32-TSD32-64L	154	60	64	69	32	32	SP..0904	0.78
C32-TSD33-66L	156	60	66	71	33	32	SP..0904	0.80
C32-TSD34-68L	158	60	68	73	34	32	SP..1104	0.82
C32-TSD35-70L	160	60	70	75	35	32	SP..1104	0.84
C32-TSD36-72L	162	60	72	77	36	32	SP..1104	0.86
C32-TSD37-74L	164	60	74	79	37	32	SP..1104	0.88
C32-TSD38-76L	166	60	76	81	38	32	SP..1104	0.93
C32-TSD39-78L	168	60	78	83	39	32	SP..1104	0.94
C40-TSD40-80L	184	70	80	85	40	40	SP..1104	1.40
C40-TSD41-82L	186	70	82	87	41	40	SP..1104	1.38
C40-TSD42-84L	188	70	84	89	42	40	SP..1405	1.42
C40-TSD43-86L	190	70	86	91	43	40	SP..1405	1.44
C40-TSD44-88L	192	70	88	93	44	40	SP..1405	1.51
C40-TSD45-90L	194	70	90	95	45	40	SP..1405	1.57
C40-TSD46-92L	196	70	92	97	46	40	SP..1405	1.61
C40-TSD47-94L	198	70	94	99	47	40	SP..1405	1.66
C40-TSD48-96L	200	70	96	101	48	40	SP..1405	1.71
C40-TSD49-98L	202	70	98	103	49	40	SP..1405	1.77
C40-TSD50-100L	204	70	100	102	50	40	SP..1405	1.81

• 長度單位 Unit of Length (mm)

TSD 四角刀片快速鑽頭 (2 倍點數)
TSD SQUARE INSERT HIGH SPEED DRILL

KOVIT

Dx2 0.5 Type



特點 Feature

- 刀片使用四個刃口，可有效降低成本
- 刀片採四角型和內刃皆使用相同刀片，庫存容易管理，成本降低
- 同一刀片的使用可預防安裝錯誤和有效降低刀具損壞

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規格 Spec.	L	l_1	l_2	l_3	D	d	刀片 Insert	重量 (KGS) Weight
NEWC20-TSD12.5-25L	96	50	25	30	12.5	20	SO..0402	0.18
C25-TSD13.5-27L	107	56	27	32	13.5	25	SP..0502	0.33
C25-TSD14.5-29L	109	56	29	34	14.5	25	SP..0502	0.33
C25-TSD15.5-31L	113	56	31	36	15.5	25	SP..0602	0.34
C25-TSD16.5-33L	115	56	33	38	16.5	25	SP..0602	0.35
C25-TSD17.5-35L	117	56	35	40	17.5	25	SP..0602	0.36
C25-TSD18.5-37L	119	56	37	42	18.5	25	SP..0602	0.36
C25-TSD19.5-39L	121	56	39	44	19.5	25	SP..0602	0.37
C25-TSD20.5-41L	123	56	41	46	20.5	25	SP..0602	0.38
C25-TSD21.5-43L	125	56	43	48	21.5	25	SP..0602	0.39

配件表 Accessories

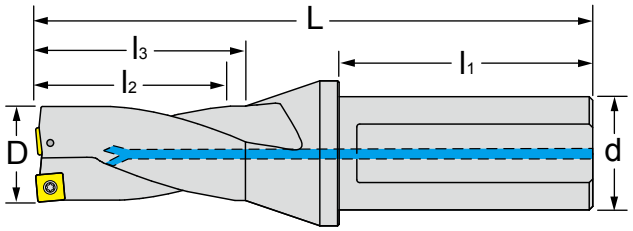
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SO..0402	M2-4.3-2.7-60-T6-TIN	T6	0.6
SP..0502	M2-4.3-2.7-60-T6-TIN	T6	0.6
SP..0602	M2.2-5.2-3.1-60-T7-TIN	T7	0.9
SP..07T3	M2.5-6.33-3.5-48-T8-TIN	T8	1.2
SP..0904	M3.5-8.4-5.0-60-T10-TIN	T10	2.0
SP..1104	M4-9.35-5.65-60-T15-TIN	T15	3.0
SP..1405	M5-12.8-7.0-60-T20-TIN	T20	5.0

• 長度單位 Unit of Length (mm)

TSD 四角刀片快速鑽頭 (3 倍長)
TSD SQUARE INSERT HIGH SPEED DRILL

KOVIT

Dx3



特點 Feature

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- 刀片採四角型和內刃皆使用相同刀片，庫存容易管理，成本降低
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規格 Spec.	L	l1	l2	l3	D	d	刀片 Insert	重量 (KGS) Weight
NEWC20-TSD12-36L	108	50	36	40	12	20	SO..0402	0.21
C20-TSD13-39L	111	50	39	44	13	20	SP..0502	0.20
C20-TSD14-42L	114	50	42	47	14	20	SP..0502	0.18
C20-TSD15-45L	117	50	45	50	15	20	SP..0502	0.21
C25-TSD16-48L	130	56	48	53	16	25	SP..0602	0.31
C25-TSD17-51L	133	56	51	56	17	25	SP..0602	0.32
C25-TSD18-54L	136	56	54	59	18	25	SP..0602	0.34
C25-TSD19-57L	139	56	57	62	19	25	SP..0602	0.35
C25-TSD20-60L	142	56	60	65	20	25	SP..0602	0.37
C25-TSD21-63L	145	56	63	68	21	25	SP..0602	0.38
C25-TSD22-66L	148	56	66	71	22	25	SP..07T3	0.39
C25-TSD23-69L	157	60	69	74	23	25	SP..07T3	0.44
C25-TSD24-72L	160	60	72	77	24	25	SP..07T3	0.44
C25-TSD25-75L	163	60	75	80	25	25	SP..07T3	0.46
C32-TSD23-69L	157	60	69	74	23	32	SP..07T3	0.66
C32-TSD24-72L	160	60	72	77	24	32	SP..07T3	0.67
C32-TSD25-75L	163	60	75	80	25	32	SP..07T3	0.72
C32-TSD26-78L	166	60	78	83	26	32	SP..07T3	0.73
C32-TSD27-81L	169	60	81	86	27	32	SP..07T3	0.75
C32-TSD28-84L	174	60	84	89	28	32	SP..0904	0.78
C32-TSD29-87L	177	60	87	92	29	32	SP..0904	0.81

配件表 Accessories

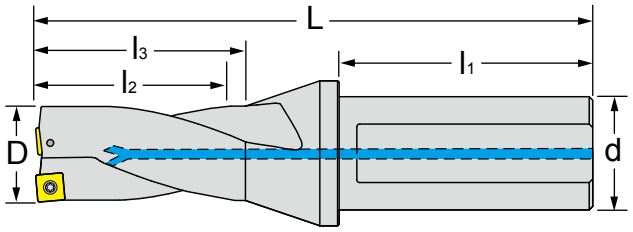
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SO..0402	M2-4.3-2.7-60-T6-TIN	T6	0.6
SP..0502	M2-4.3-2.7-60-T6-TIN	T6	0.6
SP..0602	M2.2-5.2-3.1-60-T7-TIN	T7	0.9
SP..07T3	M2.5-6.33-3.5-48-T8-TIN	T8	1.2
SP..0904	M3.5-8.4-5.0-60-T10-TIN	T10	2.0
SP..1104	M4-9.35-5.65-60-T15-TIN	T15	3.0
SP..1405	M5-12.8-7.0-60-T20-TIN	T20	5.0

• 長度單位 Unit of Length (mm)

TSD 四角刀片快速鑽頭 (3 倍長)
TSD SQUARE INSERT HIGH SPEED DRILL

KOVIT

Dx3



特點 Feature

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規格 Spec.	L	l_1	l_2	l_3	D	d	刀片 Insert	重量 (KGS) Weight
C32-TSD30-90L	180	60	90	95	30	32	SP..0904	0.83
C32-TSD31-93L	183	60	93	98	31	32	SP..0904	0.88
C32-TSD32-96L	186	60	96	101	32	32	SP..0904	0.90
C32-TSD33-99L	189	60	99	104	33	32	SP..0904	0.93
C32-TSD34-102L	192	60	102	107	34	32	SP..1104	0.98
C32-TSD35-105L	195	60	105	110	35	32	SP..1104	0.99
C32-TSD36-108L	198	60	108	113	36	32	SP..1104	1.09
C32-TSD37-111L	201	60	111	116	37	32	SP..1104	1.08
C32-TSD38-114L	204	60	114	119	38	32	SP..1104	1.12
C32-TSD39-117L	207	60	117	122	39	32	SP..1104	1.22
C40-TSD40-120L	224	70	120	125	40	40	SP..1104	1.74
C40-TSD41-123L	227	70	123	128	41	40	SP..1104	1.79
C40-TSD42-126L	230	70	126	131	42	40	SP..1405	1.62
C40-TSD43-129L	233	70	129	134	43	40	SP..1405	1.70
C40-TSD44-132L	236	70	132	137	44	40	SP..1405	1.75
C40-TSD45-135L	239	70	135	140	45	40	SP..1405	1.84
C40-TSD46-138L	242	70	138	143	46	40	SP..1405	1.92
C40-TSD47-141L	245	70	141	146	47	40	SP..1405	1.97
C40-TSD48-144L	248	70	144	149	48	40	SP..1405	2.06
C40-TSD49-147L	251	70	147	152	49	40	SP..1405	2.12
C40-TSD50-150L	254	70	150	155	50	40	SP..1405	2.22

配件表 Accessories

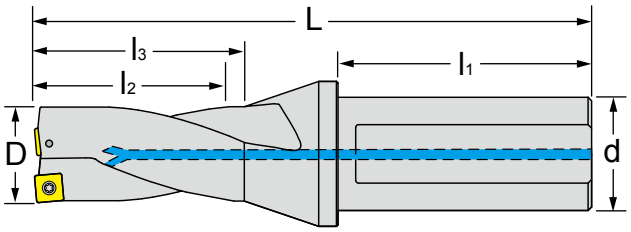
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SO..0402	M2-4.3-2.7-60-T6-TIN	T6	0.6
SP..0904	M3.5-8.4-5.0-60-T10-TIN	T10	2.0
SP..1104	M4-9.35-5.65-60-T15-TIN	T15	3.0
SP..1405	M5-12.8-7.0-60-T20-TIN	T20	5.0

• 長度單位 Unit of Length (mm)

TSD 四角刀片快速鑽頭 (3 倍點數)
TSD SQUARE INSERT HIGH SPEED DRILL

KOVIT

Dx3 0.5 Type



特點 Feature

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- 刀片採四角型和內刃皆使用相同刀片，庫存容易管理，成本降低
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規格 Spec.	L	l_1	l_2	l_3	D	d	刀片 Insert	重量 (KGS) Weight
NEWC20-TSD12.5-37.5L	109	50	37.5	42.5	12.5	20	SO..0402	0.24
C20-TSD13.5-40.5L	112.5	50	40.5	45.5	13.5	20	SP..0502	0.18
C20-TSD14.5-43.5L	115.5	50	43.5	48.5	14.5	20	SP..0502	0.21
C25-TSD15.5-46.5L	128.5	56	46.5	51.5	15.5	25	SP..0602	0.32
C25-TSD16.5-49.5L	131.5	56	49.5	54.5	16.5	25	SP..0602	0.33
C25-TSD17.5-52.5L	134.5	56	52.5	57.5	17.5	25	SP..0602	0.33
C25-TSD18.5-55.5L	137.5	56	55.5	60.5	18.5	25	SP..0602	0.35
C25-TSD19.5-58.5L	140.5	56	58.5	63.5	19.5	25	SP..0602	0.38
C25-TSD20.5-61.5L	143.5	56	61.5	66.5	20.5	25	SP..0602	0.38
C25-TSD21.5-64.5L	146.5	56	64.5	69.5	21.5	25	SP..0602	0.40
C32-TSD22.5-67.5L	155.5	60	67.5	72.5	22.5	32	SP..07T3	0.65
C32-TSD23.5-70.5L	158.5	60	70.5	75.5	23.5	32	SP..07T3	0.66
C32-TSD24.5-73.5L	161.5	60	73.5	78.5	24.5	32	SP..07T3	0.71
C32-TSD25.5-76.5L	164.5	60	76.5	81.5	25.5	32	SP..07T3	0.72
C32-TSD26.5-79.5L	167.5	60	79.5	84.5	26.5	32	SP..07T3	0.75
C32-TSD27.5-82.5L	170.5	60	82.5	87.5	27.5	32	SP..07T3	0.76
C32-TSD28.5-85.5L	175.5	60	85.5	90.5	28.5	32	SP..0904	0.80
C32-TSD29.5-88.5L	178.5	60	88.5	93.5	29.5	32	SP..0904	0.82
C32-TSD30.5-91.5L	181.5	60	91.5	96.5	30.5	32	SP..0904	0.87
C32-TSD31.5-94.5L	184.5	60	94.5	99.5	31.5	32	SP..0904	0.89
C32-TSD32.5-97.5L	187.5	60	97.5	102.5	32.5	32	SP..0904	0.92
C32-TSD33.5-100.5L	190.5	60	100.5	105.5	33.5	32	SP..0904	0.96

配件表 Accessories

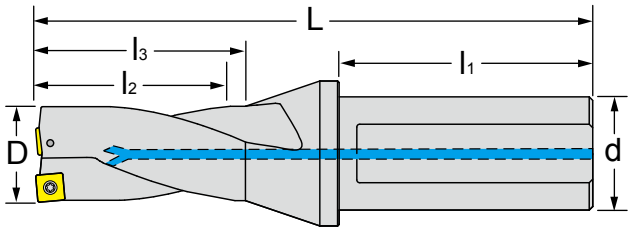
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SO..0402	M2-4.3-2.7-60-T6-TIN	T6	0.6
SP..0502	M2-4.3-2.7-60-T6-TIN	T6	0.6
SP..0602	M2.2-5.2-3.1-60-T7-TIN	T7	0.9
SP..07T3	M2.5-6.33-3.5-48-T8-TIN	T8	1.2
SP..0904	M3.5-8.4-5.0-60-T10-TIN	T10	2.0
SP..1104	M4-9.35-5.65-60-T15-TIN	T15	3.0
SP..1405	M5-12.8-7.0-60-T20-TIN	T20	5.0

• 長度單位 Unit of Length (mm)

TSD 四角刀片快速鑽頭 (4 倍長)
TSD SQUARE INSERT HIGH SPEED DRILL

KOVIT

Dx4



特點 Feature

- 刀片使用四個刃口，可有效降低成本
- 刀片採四角型和內刃皆使用相同刀片，庫存容易管理，成本降低
- 同一刀片的使用可預防安裝錯誤和有效降低刀具損壞

- 4 edges are usable on 1 insert, effective cost-saving.
- Both inner and outer flutes use the same type of square inserts, which is easy for stock management, prevent mis-assembly and reduce cutter damaging.

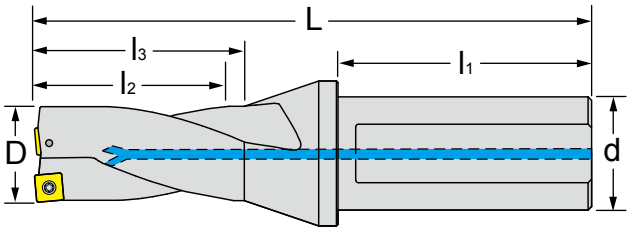
規格 Spec.	L	l_1	l_2	l_3	D	d	刀片 Insert	重量 (KGS) Weight
C25-TSD13-52L	132	56	52	57	13	25	SP..0502	0.34
C25-TSD14-56L	136	56	56	61	14	25	SP..0502	0.34
C25-TSD15-60L	140	56	60	65	15	25	SP..0502	0.36
C25-TSD16-64L	146	56	64	69	16	25	SP..0602	0.37
C25-TSD17-68L	150	56	68	73	17	25	SP..0602	0.38
C25-TSD18-72L	154	56	72	77	18	25	SP..0602	0.40
C25-TSD19-76L	158	56	76	81	19	25	SP..0602	0.41
C25-TSD20-80L	162	56	80	85	20	25	SP..0602	0.43
C25-TSD21-84L	166	56	84	89	21	25	SP..0602	0.45
C25-TSD22-88L	170	56	88	93	22	25	SP..07T3	0.67
C32-TSD23-92L	180	60	92	97	23	32	SP..07T3	0.69
C32-TSD24-96L	184	60	96	101	24	32	SP..07T3	0.71
C32-TSD25-100L	188	60	100	105	25	32	SP..07T3	0.74
C32-TSD26-104L	192	60	104	109	26	32	SP..07T3	0.77
C32-TSD27-108L	196	60	108	113	27	32	SP..07T3	0.81
C32-TSD28-112L	202	60	112	117	28	32	SP..0904	0.86
C32-TSD29-116L	206	60	116	121	29	32	SP..0904	0.88
C32-TSD30-120L	210	60	120	125	30	32	SP..0904	0.94
C32-TSD31-124L	214	60	124	129	31	32	SP..0904	0.96
C32-TSD32-128L	218	60	128	133	32	32	SP..0904	1.01
C32-TSD33-132L	222	60	132	137	33	32	SP..0904	1.06
C32-TSD34-136L	226	60	136	141	34	32	SP..1104	1.07
C32-TSD35-140L	230	60	140	145	35	32	SP..1104	1.12
C32-TSD36-144L	234	60	144	149	36	32	SP..1104	1.15
C32-TSD37-148L	238	60	148	153	37	32	SP..1104	1.21
C32-TSD38-152L	242	60	152	157	38	32	SP..1104	1.24
C32-TSD39-156L	246	60	156	161	39	32	SP..1104	1.33

• 長度單位 Unit of Length (mm)

TSD 四角刀片快速鑽頭 (4 倍長)
TSD SQUARE INSERT HIGH SPEED DRILL

KOVIT

Dx4



特點 Feature

- 刀片使用四個刃口，可有效降低成本
- 刀片採四角型和內刃皆使用相同刀片，庫存容易管理，成本降低
- 同一刀片的使用可預防安裝錯誤和有效降低刀具損壞

- 4 edges are usable on 1 insert, effective cost-saving.
- Both inner and outer flutes use the same type of square inserts, which is easy for stock management, prevent mis-assembly and reduce cutter damaging.

規格 Spec.	L	l_1	l_2	l_3	D	d	刀片 Insert	重量 (KGS) Weight
C40-TSD40-160L	264	70	160	165	40	40	SP..1104	1.80
C40-TSD41-164L	268	70	164	169	41	40	SP..1104	1.81
C40-TSD42-168L	272	70	168	173	42	40	SP..1405	1.83
C40-TSD43-172L	276	70	172	177	43	40	SP..1405	1.93
C40-TSD44-176L	280	70	176	181	44	40	SP..1405	2.00
C40-TSD45-180L	284	70	180	185	45	40	SP..1405	2.13
C40-TSD46-184L	288	70	184	189	46	40	SP..1405	2.20
C40-TSD47-188L	292	70	188	193	47	40	SP..1405	2.28
C40-TSD48-192L	296	70	192	197	48	40	SP..1405	2.38
C40-TSD49-196L	300	70	196	201	49	40	SP..1405	2.48
C40-TSD50-200L	304	70	200	205	50	40	SP..1405	2.61

配件表 Accessories

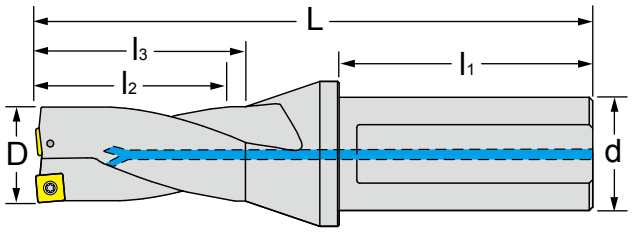
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SP..0502	M2-4.3-2.7-60-T6-TIN	T6	0.6
SP..0602	M2.2-5.2-3.1-60-T7-TIN	T7	0.9
SP..07T3	M2.5-6.33-3.5-48-T8-TIN	T8	1.2
SP..0904	M3.5-8.4-5.0-60-T10-TIN	T10	2.0
SP..1104	M4-9.35-5.65-60-T15-TIN	T15	3.0
SP..1405	M5-12.8-7.0-60-T20-TIN	T20	5.0

• 長度單位 Unit of Length (mm)

TSD 四角刀片快速鑽頭 (5 倍長)
TSD SQUARE INSERT HIGH SPEED DRILL

KOVIT

Dx5



特點 Feature

- 刀片使用四個刃口，可有效降低成本
- 刀片採四角型和內刃皆使用相同刀片，庫存容易管理，成本降低
- 同一刀片的使用可預防安裝錯誤和有效降低刀具損壞

- 4 edges are usable on 1 insert, effective cost-saving.
- Both inner and outer flutes use the same type of square inserts, which is easy for stock management, prevent mis-assembly and reduce cutter damaging.

規格 Spec.	L	l1	l2	l3	D	d	刀片 Insert	重量 (KGS) Weight
C25-TSD16-80L	162	56	80	85	16	25	SP..0602	0.38
C25-TSD17-85L	167	56	85	90	17	25	SP..0602	0.40
C25-TSD18-90L	172	56	90	95	18	25	SP..0602	0.42
C25-TSD19-95L	177	56	95	100	19	25	SP..0602	0.44
C25-TSD20-100L	182	56	100	105	20	25	SP..0602	0.46
C25-TSD21-105L	187	56	105	110	21	25	SP..0602	0.49
C25-TSD22-110L	192	56	110	115	22	25	SP..07T3	0.50
C32-TSD23-115L	203	60	115	120	23	32	SP..07T3	0.75
C32-TSD24-120L	208	60	120	125	24	32	SP..07T3	0.77
C32-TSD25-125L	213	60	125	130	25	32	SP..07T3	0.80
C32-TSD26-130L	218	60	130	135	26	32	SP..07T3	0.83
C32-TSD27-135L	223	60	135	140	27	32	SP..07T3	0.87
C32-TSD28-140L	230	60	140	145	28	32	SP..0904	0.93
C32-TSD29-145L	235	60	145	150	29	32	SP..0904	0.97
C32-TSD30-150L	240	60	150	155	30	32	SP..0904	1.01
C32-TSD31-155L	245	60	155	160	31	32	SP..0904	1.06
C32-TSD32-160L	250	60	160	165	32	32	SP..0904	1.11
C32-TSD33-165L	255	60	165	170	33	32	SP..0904	1.17
C32-TSD34-170L	260	60	170	175	34	32	SP..1104	1.20
C32-TSD35-175L	265	60	175	180	35	32	SP..1104	1.26
C32-TSD36-180L	270	60	180	185	36	32	SP..1104	1.31
C32-TSD37-185L	275	60	185	190	37	32	SP..1104	1.36
C32-TSD38-190L	280	60	190	195	38	32	SP..1104	1.45
C32-TSD39-195L	285	60	195	200	39	32	SP..1104	1.51
C40-TSD40-200L	304	70	200	205	40	40	SP..1104	2.20
C40-TSD41-205L	309	70	205	210	41	40	SP..1104	2.40

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SP..0602	M2.2-5.2-3.1-60-T7-TIN	T7	0.9
SP..07T3	M2.5-6.33-3.5-48-T8-TIN	T8	1.2
SP..0904	M3.5-8.4-5.0-60-T10-TIN	T10	2.0
SP..1104	M4-9.35-5.65-60-T15-TIN	T15	3.0
SP..1405	M5-12.8-7.0-60-T20-TIN	T20	5.0

• 長度單位 Unit of Length (mm)

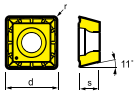
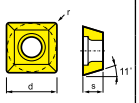
TSD 四角刀片快速鑽頭
TSD SQUARE INSERT HIGH SPEED DRILL

KOVIT

ISO 分類														
	P	合金鋼 Alloyed Steels	○		○	○								
	M	不鏽鋼 Stainless Steels	○		○									
	K	鑄鐵 Cast Iron		○										
	N	鋁及鋁合金 Aluminum&Al							■	■				
	S	高溫合金 Refractory Alloys												
	H	高硬度材 Hard Material												

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain						超微粒硬質合金 Micro grain cemented carbide						尺寸 (mm)				圖形 Drawing
		CHF						HF						Size				
		RM4025	RM3130	RM4030	OM4025			RM5005	RM5060					d	i	s	r	
	SPGT050204-M02			●					●					5	-	2.38	0.4	
	SPGT060204-M02			●					●					6	-	2.38	0.4	
	SPGT07T308-M02			●					●					7.94	-	3.97	0.8	
	SPGT090408-M02			●					●					9.8	-	4.3	0.8	
	SPGT110408-M02			●					●					11.5	-	4.76	0.8	
	SPGT140512-M02			●					●					14.3	-	5.2	1.2	
	★ SPMT050204-M03	●	●											5	-	2.38	0.4	
	★ SPMT060204-M03	●	●											6	-	2.38	0.4	
	★ SPMT07T308-M03	●	●											7.94	-	3.97	0.8	
	★ SPMT090408-M03	●	●											9.8	-	4.3	0.8	
	★ SPMT110408-M03	●	●											11.5	-	4.76	0.8	
	★ SPMT140512-M03	●	●											14.3	-	5.2	1.2	
	★ SPMT050204-MT							●	●					5	-	2.38	0.4	
	★ SPMT060204-MT							●	●					6	-	2.38	0.4	
	★ SPMT07T308-MT							●	●					7.94	-	3.97	0.8	
	★ SPMT090408-MT							●	●					9.8	-	4.3	0.8	
	★ SPMT110408-MT							●	●					11.5	-	4.76	0.8	
	★ SPMT140512-MT							●	●					14.3	-	5.2	1.2	
	NEW SOMT040204				●									4.6	-	2.0	0.4	

★ 推薦 Recommended

SP_05.06.07.09.11.14/SO_04 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	進給率 (mm/rev)				
				ø12-ø12.5	ø13-ø15	ø16-ø22	ø23-ø33	ø34-ø41	ø42-ø50
P	低合金鋼 Low-Alloy Steels	RM4025	180~260		0.06~0.12	0.06~0.10	0.06~0.12	0.12~0.24	0.12~0.25
		RM4030	180~260		0.06~0.12	0.06~0.10	0.06~0.12	0.12~0.24	0.12~0.25
	合金鋼 Alloyed Steels	RM4025	140~200		0.05~0.08	0.08~0.15	0.10~0.18	0.08~0.15	0.10~0.18
		RM4030	140~200		0.05~0.08	0.08~0.15	0.10~0.18	0.08~0.15	0.10~0.18
		OM4025	120~160	0.05~0.08					
M	不鏽鋼 Stainless Steels	RM4025	120~180		0.05~0.10	0.06~0.12	0.08~0.15	0.10~0.17	0.12~0.20
		RM4030	120~180		0.05~0.10	0.06~0.12	0.08~0.15	0.10~0.17	0.12~0.20
K	鑄鐵 Cast Iron	RM3130	120~180		0.05~0.10	0.06~0.12	0.08~0.15	0.10~0.17	0.12~0.20
		OM4025	80~120	0.04~0.08					
N	鋁合金 Aluminum&Al	RM5005	338~380		0.06~0.14	0.08~0.18	0.12~0.22	0.14~0.25	0.14~0.28
		RM5060	338~380		0.06~0.14	0.08~0.18	0.12~0.22	0.14~0.25	0.14~0.28

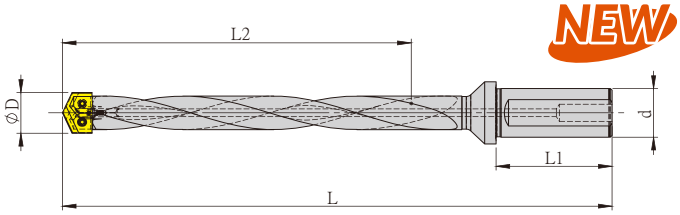
• 長度單位 Unit of Length (mm)

ZSD 側固式鏟形鑽頭 (7 倍長)
ZSD SIDE FIXED SPIRAL FLUTE SPADE DRILL

KOVIT

NEW

Dx7

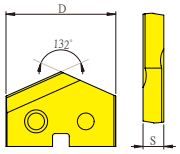


規格 Spec.	D	d	L	L1	L2	刀片	板手	螺絲
C20-ZSD1315-105L	13-15	20	190	50	105	SDZ13~SDZ15	T8	M2.5-5.5-3.3-60-T8-TIN
C20-ZSD1517-120L	15-17	20		50	120	SDZ15~SDZ17	T8	M2.5-5.5-3.3-60-T8-TIN
C25-ZSD1821-150L	18-21	25	244	55	150	SDZ18~SDZ21	T9	M3-8.0-4.4-60/M3-7.5-4.2-53
C25-ZSD2224-170L	22-24	25	265	55	170	SDZ22~SDZ24	T9	M3-8.0-4.4-60/M3-7.5-4.2-53
C32-ZSD2529-205L	25-29	32	305	60	205	SDZ25~SDZ29	T15	M4-8.75-5.6-60/M4-9.0-5.4-60
C32-ZSD3034-240L	30-34	32	340	60	240	SDZ30~SDZ34	T15	M4-8.75-5.6-60/M4-9.0-5.4-60

ISO 分類						
P	合金鋼 Alloyed Steels	○	○			
M	不鏽鋼 Stainless Steels	○	○			
K	鑄鐵 Cast Iron	○				
N	鋁及鋁合金 Aluminum&Al					
S	高溫合金 Refractory Alloys					
H	高硬度材 Hard Material					

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain CHF					尺寸 (mm) Size				圖形 Drawing
		OM4025	RM3125				d	i	s	r	
	NEW SDZ13003	●	●				13	-	3.18	-	
	NEW SDZ14003	●	●				14	-	3.18	-	
	NEW SDZ15003	●	●				15	-	3.18	-	
	NEW SDZ16003	●	●				16	-	3.18	-	
	NEW SDZ17003	●	●				17	-	3.18	-	
	NEW SDZ180T3	●	●				18	-	3.97	-	
	NEW SDZ190T3	●	●				19	-	3.97	-	
	NEW SDZ200T3	●	●				20	-	3.97	-	
	NEW SDZ210T3	●	●				21	-	3.97	-	
	NEW SDZ220T3	●	●				22	-	3.97	-	
	NEW SDZ230T3	●	●				23	-	3.97	-	
	NEW SDZ240T3	●	●				24	-	3.97	-	
	NEW SDZ25004	●	●				25	-	4.76	-	
	NEW SDZ26004	●	●				26	-	4.76	-	
	NEW SDZ27004	●	●				27	-	4.76	-	
	NEW SDZ28004	●	●				28	-	4.76	-	
	NEW SDZ29004	●	●				29	-	4.76	-	
	NEW SDZ30004	●	●				30	-	4.76	-	
	NEW SDZ31004	●	●				31	-	4.76	-	
	NEW SDZ32004	●	●				32	-	4.76	-	
	NEW SDZ33004	●	●				33	-	4.76	-	
	NEW SDZ34004	●	●				34	-	4.76	-	

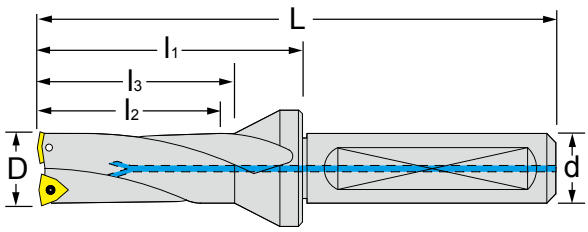
NEW 新品 New Product

• 長度單位 Unit of Length (mm)

SD 捨棄式快速鑽頭 (2 倍長)
SD INDEXABLE HIGH SPEED DRILL

KOVIT

Dx2



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

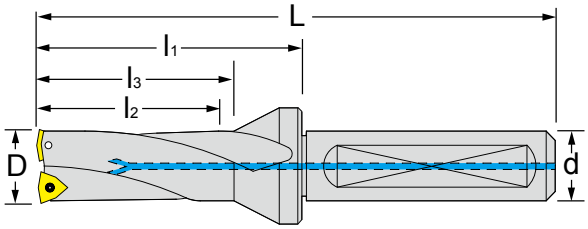
規格 Spec.	L	l_1	l_2	l_3	D	d	刀片 Insert	重量 (KGS) Weight
C25-SD16-32L	119	63	32	35	16	25	WC..0302	0.38
C25-SD17-34L	120	64	34	37	17	25	WC..0302	0.38
C25-SD18-36L	122	66	36	39	18	25	WC..0302	0.39
C25-SD19-38L	124	68	38	41	19	25	WC..0302	0.40
C25-SD20-40L	126	70	40	43	20	25	WC..0302	0.41
C25-SD21-42L	128	72	42	45	21	25	WC..0402	0.43
C32-SD22-44L	136	76	44	47	22	32	WC..0402	0.62
C32-SD23-46L	138	78	46	49	23	32	WC..0402	0.64
C32-SD24-48L	141	81	48	51	24	32	WC..0402	0.66
C32-SD25-50L	142	82	50	53	25	32	WC..0402	0.66
C32-SD26-52L	144	84	52	55	26	32	WC..0503	0.68
C32-SD27-54L	146	86	54	57	27	32	WC..0503	0.69
C32-SD28-56L	148	88	56	59	28	32	WC..0503	0.72
C32-SD29-58L	150	90	58	61	29	32	WC..0503	0.73
C32-SD30-60L	152	92	60	63	30	32	WC..0503	0.75
C32-SD31-62L	154	94	62	65	31	32	WC..06T3	0.76
C32-SD32-64L	156	96	64	67	32	32	WC..06T3	0.78
C32-SD33-66L	159	99	66	70	33	32	WC..06T3	0.82
C32-SD34-68L	160	100	68	71	34	32	WC..06T3	0.83
C32-SD35-70L	162	102	70	73	35	32	WC..06T3	0.84
C32-SD36-72L	164	104	72	75	36	32	WC..06T3	0.88
C32-SD37-74L	166	106	74	77	37	32	WC..06T3	0.92
C32-SD38-76L	168	108	76	79	38	32	WC..06T3	0.94
C32-SD39-78L	170	110	78	81	39	32	WC..06T3	0.97
C40-SD40-80L	185	115	80	83	40	40	WC..06T3	1.47
C40-SD41-82L	187	117	82	85	41	40	WC..06T3	1.49
C40-SD42-84L	189	119	84	87	42	40	WC..0804	1.55
C40-SD43-86L	191	121	86	89	43	40	WC..0804	1.56
C40-SD44-88L	194	124	88	91	44	40	WC..0804	1.63
C40-SD45-90L	195	125	90	93	45	40	WC..0804	1.65
C40-SD46-92L	197	127	92	95	46	40	WC..0804	1.79
C40-SD47-94L	199	129	94	97	47	40	WC..0804	1.84
C40-SD48-96L	201	131	96	99	48	40	WC..0804	1.76
C40-SD49-98L	202	132	98	101	49	40	WC..0804	1.87
C40-SD50-100L	204	134	100	103	50	40	WC..0804	1.93
C40-SD51-102L	206	136	102	105	51	40	WC..0804	1.19
C40-SD52-104L	208	138	104	107	52	40	WC..0804	0.20
C40-SD53-106L	210	140	106	109	53	40	WC..0804	0.20
C40-SD54-108L	212	142	108	111	54	40	WC..0804	2.08
C40-SD55-110L	215	145	110	113	55	40	WC..0804	2.20
C40-SD56-112L	217	147	112	115	56	40	WC..0804	2.30
C40-SD57-114L	219	149	114	117	57	40	WC..0804	2.40
C40-SD58-116L	221	151	116	119	58	40	WC..0804	2.45
C40-SD59-118L	223	153	118	121	59	40	WC..0804	2.70

• 長度單位 Unit of Length (mm)

SD 捨棄式快速鑽頭 (3 倍點數)
SD INDEXABLE HIGH SPEED DRILL

KOVIT

Dx3 0.5 Type



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	l_1	l_2	l_3	D	d	刀片 Insert	重量 (KGS) Weight
C25-SD16.5-48L	134	78	48	51	16.5	25	WC..0302	0.39
C25-SD17.5-51L	133	77	51	54	17.5	25	WC..0302	0.41
C25-SD18.5-54L	140	84	54	57	18.5	25	WC..0302	0.42
C25-SD19.5-57L	143	87	57	60	19.5	25	WC..0302	0.43
C25-SD20.5-60L	145	89	60	63	20.5	25	WC..0302	0.45
C25-SD21.5-63L	148	92	63	66	21.5	25	WC..0402	0.46
C32-SD22.5-66L	155	95	66	69	22.5	32	WC..0402	0.66
C32-SD23.5-69L	160	100	69	72	23.5	32	WC..0402	0.66
C32-SD24.5-72L	164	104	72	75	24.5	32	WC..0402	0.70
C32-SD25.5-75L	167	107	75	78	25.5	32	WC..0402	0.73

配件表 Accessories

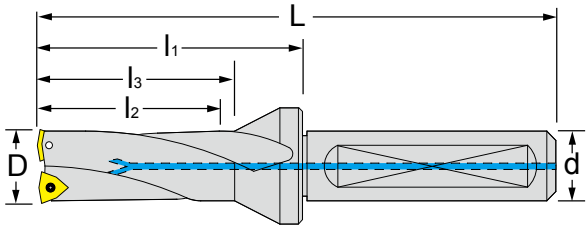
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
WC..0302	M2.5-5.5-3.35-60	T8	1.2
WC..0402	M2.5-6.0-3.5-60	T8	1.2
WC..0503	M3-8.0-4.4-60	T9	1.4
WC..06T3	M3.5-8.0-5.0-60	T15	3.0
WC..0804	M4-10-5.7-60	T15	3.0

• 長度單位 Unit of Length (mm)

SD 捨棄式快速鑽頭 (3 倍長)
SD INDEXABLE HIGH SPEED DRILL

KOVIT

Dx3



特點 Feature

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規格 Spec.	L	l_1	l_2	l_3	D	d	刀片 Insert	重量 (KGS) Weight
C25-SD16-48L	134	78	48	51	16	25	WC..0302	0.39
C25-SD17-51L	137	81	51	54	17	25	WC..0302	0.40
C25-SD18-54L	140	84	54	57	18	25	WC..0302	0.41
C25-SD19-57L	143	87	57	60	19	25	WC..0302	0.43
C25-SD20-60L	146	90	60	63	20	25	WC..0302	0.44
C25-SD21-63L	149	93	63	66	21	25	WC..0402	0.45
C32-SD22-66L	158	98	66	69	22	32	WC..0402	0.66
C32-SD23-69L	161	101	69	72	23	32	WC..0402	0.69
C32-SD24-72L	164	104	72	75	24	32	WC..0402	0.69
C32-SD25-75L	167	107	75	78	25	32	WC..0402	0.72
C32-SD26-78L	170	110	78	81	26	32	WC..0503	0.73
C32-SD27-81L	173	113	81	84	27	32	WC..0503	0.76
C32-SD28-84L	176	116	84	87	28	32	WC..0503	0.79
C32-SD29-87L	179	119	87	90	29	32	WC..0503	0.81
C32-SD30-90L	182	122	90	93	30	32	WC..0503	0.82
C32-SD31-93L	185	125	93	96	31	32	WC..06T3	0.86
C32-SD32-96L	188	128	96	99	32	32	WC..06T3	0.88
C32-SD33-99L	191	131	99	102	33	32	WC..06T3	0.92
C32-SD34-102L	194	134	102	105	34	32	WC..06T3	0.95
C32-SD35-105L	197	137	105	108	35	32	WC..06T3	1.00
C32-SD36-108L	200	140	108	111	36	32	WC..06T3	1.04
C32-SD37-111L	203	143	111	114	37	32	WC..06T3	1.11
C32-SD38-114L	206	146	114	117	38	32	WC..06T3	1.12
C32-SD39-117L	209	149	117	120	39	32	WC..06T3	1.18

配件表 Accessories

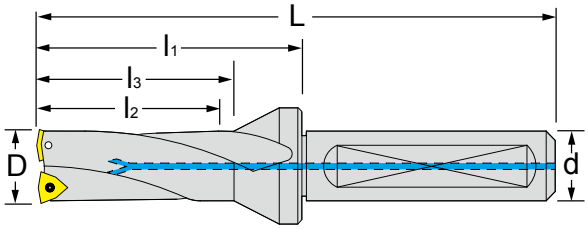
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
WC..0302	M2.5-5.5-3.35-60	T8	1.2
WC..0402	M2.5-6.0-3.5-60	T8	1.2
WC..0503	M3-8.0-4.4-60	T9	1.4
WC..06T3	M3.5-8.0-5.0-60	T15	3.0
WC..0804	M4-10-5.7-60	T15	3.0

• 長度單位 Unit of Length (mm)

SD 捨棄式快速鑽頭 (3 倍長)
SD INDEXABLE HIGH SPEED DRILL

KOVIT

Dx3



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	l_1	l_2	l_3	D	d	刀片 Insert	重量 (KGS) Weight
C40-SD40-120L	225	155	120	123	40	40	WC..06T3	1.64
C40-SD41-123L	228	158	123	126	41	40	WC..06T3	1.73
C40-SD42-126L	231	161	126	129	42	40	WC..0804	1.78
C40-SD43-129L	234	164	129	132	43	40	WC..0804	1.82
C40-SD44-132L	238	168	132	135	44	40	WC..0804	1.84
C40-SD45-135L	240	170	135	138	45	40	WC..0804	1.96
C40-SD46-138L	243	173	138	141	46	40	WC..0804	1.97
C40-SD47-141L	246	176	141	144	47	40	WC..0804	2.38
C40-SD48-144L	249	179	144	147	48	40	WC..0804	2.11
C40-SD49-147L	252	182	147	150	49	40	WC..0804	2.25
C40-SD50-150L	254	184	150	153	50	40	WC..0804	2.28
C40-SD51-153L	257	187	153	156	51	40	WC..0804	2.40
C40-SD52-156L	260	190	156	159	52	40	WC..0804	2.42
C40-SD53-159L	263	193	159	162	53	40	WC..0804	2.49
C40-SD54-162L	266	196	162	165	54	40	WC..0804	2.63
C40-SD55-165L	270	200	165	168	55	40	WC..0804	2.85
C40-SD56-168L	273	203	168	171	56	40	WC..0804	2.92
C40-SD57-171L	275	205	171	174	57	40	WC..0804	3.01
C40-SD58-174L	279	209	174	177	58	40	WC..0804	3.19
C40-SD59-177L	282	212	177	180	59	40	WC..0804	3.21
C40-SD60-180L	285	215	180	183	60	40	WC..0804	3.41

配件表 Accessories

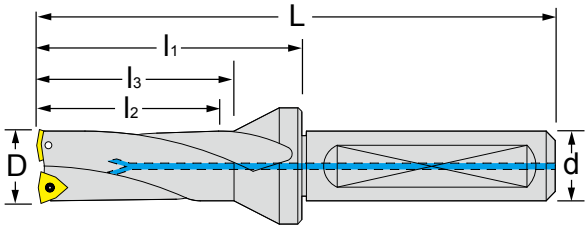
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
WC..06T3	M3.5-8.0-5.0-60	T15	3.0
WC..0804	M4-10-5.7-60	T15	3.0

• 長度單位 Unit of Length (mm)

SD 捨棄式快速鑽頭 (4 倍長)
SD INDEXABLE HIGH SPEED DRILL

KOVIT

Dx4



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	l1	l2	l3	D	d	刀片 Insert	重量 (KGS) Weight
C25-SD16-64L	150	94	64	67	16	25	WC..0302	0.39
C25-SD17-68L	154	98	68	71	17	25	WC..0302	0.42
C25-SD18-72L	158	102	72	75	18	25	WC..0302	0.44
C25-SD19-76L	162	106	76	79	19	25	WC..0302	0.44
C25-SD20-80L	166	110	80	83	20	25	WC..0302	0.47
C25-SD21-84L	170	114	84	87	21	25	WC..0402	0.48
C32-SD22-88L	180	120	88	91	22	32	WC..0402	0.69
C32-SD23-92L	184	124	92	95	23	32	WC..0402	0.71
C32-SD24-96L	188	128	96	99	24	32	WC..0402	0.74
C32-SD25-100L	192	132	100	103	25	32	WC..0402	0.78
C32-SD26-104L	196	136	104	107	26	32	WC..0503	0.80
C32-SD27-108L	200	140	108	111	27	32	WC..0503	0.82
C32-SD28-112L	204	144	112	115	28	32	WC..0503	0.84
C32-SD29-116L	208	148	116	119	29	32	WC..0503	0.89
C32-SD30-120L	212	152	120	123	30	32	WC..0503	0.94
C32-SD31-124L	216	156	124	127	31	32	WC..06T3	0.95
C32-SD32-128L	220	160	128	131	32	32	WC..06T3	1.04
C32-SD33-132L	224	164	132	135	33	32	WC..06T3	1.07
C32-SD34-136L	228	168	136	139	34	32	WC..06T3	1.08
C32-SD35-140L	232	172	140	143	35	32	WC..06T3	1.18
C32-SD39-156L	248	188	156	159	39	32	WC..06T3	1.36
C40-SD41-164L	269	199	164	167	41	40	WC..06T3	1.89
C40-SD44-176L	282	212	176	179	44	40	WC..0804	2.18
C40-SD47-188L	293	223	188	191	47	40	WC..0804	2.28
C40-SD49-196L	301	231	196	199	49	40	WC..0804	2.63
C40-SD54-216L	320	250	216	219	54	40	WC..0804	3.22
C40-SD59-236L	341	271	236	239	59	40	WC..0804	3.75

配件表 Accessories

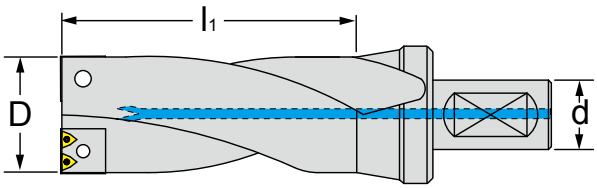
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
WC..0302	M2.5-5.5-3.35-60	T8	1.2
WC..0402	M2.5-6.0-3.5-60	T8	1.2
WC..0503	M3-8.0-4.4-60	T9	1.4
WC..06T3	M3.5-8.0-5.0-60	T15	3.0
WC..0804	M4-10-5.7-60	T15	3.0

• 長度單位 Unit of Length (mm)

CSD 大孔徑快速鑽頭
CSD LARGE DIAMETER HIGH SPEED DRILL

KOVIT

加工直徑 Cutting Dia.: Ø61~Ø80



配件表 Accessories

- 可利用更換刀片座方式就可讓刀具直徑加大
- 有效降低購刀成本
- 鋼性的設計大幅提高了加工效率

- Replaceable insert holder for larger diameter.
- Effective cost-saving.
- Enhanced rigidity improves cutting efficiency.

規格 Spec.	l_1	D	d	內刃 Inner Edge	外刃 Outter Edge	鑽孔範圍 Range	鎖固螺絲 Lock Screw	刀片 Insert	重量 (KGS) Weight
C40-CSD6161-195L	195	61	40	ICSD6165	OCSD61	Ø 61 ~ Ø 65mm	BH-M8-20	WC..06T3	6.05
C40-CSD6162-195L	195	62	40	ICSD6165	OCSD62	Ø 61 ~ Ø 65mm	BH-M8-20	WC..06T3	6.09
C40-CSD6163-195L	195	63	40	ICSD6165	OCSD63	Ø 61 ~ Ø 65mm	BH-M8-20	WC..06T3	6.11
C40-CSD6164-195L	195	64	40	ICSD6165	OCSD64	Ø 61 ~ Ø 65mm	BH-M8-20	WC..06T3	6.13
C40-CSD6165-195L	195	65	40	ICSD6165	OCSD65	Ø 61 ~ Ø 65mm	BH-M8-20	WC..06T3	5.90
C40-CSD6666-210L	210	66	40	ICSD6670	OCSD66	Ø 66 ~ Ø 70mm	BH-M8-20	WC..06T3	7.42
C40-CSD6667-210L	210	67	40	ICSD6670	OCSD67	Ø 66 ~ Ø 70mm	BH-M8-20	WC..06T3	7.42
C40-CSD6668-210L	210	68	40	ICSD6670	OCSD68	Ø 66 ~ Ø 70mm	BH-M8-20	WC..06T3	7.44
C40-CSD6669-210L	210	69	40	ICSD6670	OCSD69	Ø 66 ~ Ø 70mm	BH-M8-20	WC..06T3	7.46
C40-CSD6670-210L	210	70	40	ICSD6670	OCSD70	Ø 66 ~ Ø 70mm	BH-M8-20	WC..06T3	7.50
C40-CSD7171-225L	225	71	40	ICSD7175	OCSD71	Ø 71 ~ Ø 75mm	BH-M8-20	WC..06T3	7.62
C40-CSD7172-225L	225	72	40	ICSD7175	OCSD72	Ø 71 ~ Ø 75mm	BH-M8-20	WC..06T3	7.62
C40-CSD7173-225L	225	73	40	ICSD7175	OCSD73	Ø 71 ~ Ø 75mm	BH-M8-20	WC..06T3	7.63
C40-CSD7174-225L	225	74	40	ICSD7175	OCSD74	Ø 71 ~ Ø 75mm	BH-M8-20	WC..06T3	7.64
C40-CSD7175-225L	225	75	40	ICSD7175	OCSD75	Ø 71 ~ Ø 75mm	BH-M8-20	WC..06T3	7.65
C40-CSD7676-240L	240	76	40	ICSD7680	OCSD76	Ø 76 ~ Ø 80mm	BH-M8-22	WC..06T3	6.49
C40-CSD7677-240L	240	77	40	ICSD7680	OCSD77	Ø 76 ~ Ø 80mm	BH-M8-22	WC..06T3	8.80
C40-CSD7678-240L	240	75	40	ICSD7680	OCSD78	Ø 76 ~ Ø 80mm	BH-M8-22	WC..06T3	8.82
C40-CSD7679-240L	240	79	40	ICSD7680	OCSD79	Ø 76 ~ Ø 80mm	BH-M8-22	WC..06T3	8.84
C40-CSD7680-240L	240	80	40	ICSD7680	OCSD80	Ø 76 ~ Ø 80mm	BH-M8-22	WC..06T3	8.84

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	扳手 Wrench
WC..06T3	M3.5-8.0-5.0-60	T15K	3.0	PT5

• 長度單位 Unit of Length (mm)

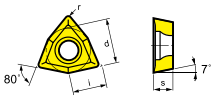
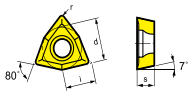
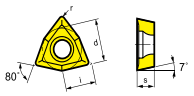
SD 捨棄式快速鑽頭
SD INDEXABLE HIGH SPEED DRILL

KOVIT

ISO 分類										
P	合金鋼 Alloyed Steels		○	○						
M	不鏽鋼 Stainless Steels									
K	鑄鐵 Cast Iron			○						
N	鋁及鋁合金 Aluminum&Al	○								
S	高溫合金 Refractory Alloys									
H	高硬度材 Hard Material									

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	超微粒硬質合金 Micro grain cemented carbide HF									尺寸 (mm) Size				圖形 Drawing
		GH05	PTE30	OM4025							d	i	s	r	
	WCKT030208	●									5.56	3.8	2.38	0.8	
	WCKT040208	●									6.35	4.3	2.38	0.8	
	WCKT050308	●									7.94	5.4	3.18	0.8	
	WCKT06T308	●									9.525	6.5	3.97	0.8	
	WCKT080408	●									12.7	8.7	4.76	0.8	
	WCMX030208-M01		●								5.56	3.8	2.38	0.8	
	WCMT040208-M01		●								6.35	4.3	2.38	0.8	
	WCMT050308-M01		●								7.94	5.4	3.18	0.8	
	WCMT06T308-M01		●								9.525	6.5	3.97	0.8	
	WCMX080412-M01		●								12.7	8.7	4.76	1.2	
	WCMX030208-M02			●							5.56	3.8	2.38	0.8	
	WCMT040208-M02			●							6.35	4.3	2.38	0.8	
	WCMT050308-M02			●							7.94	5.4	3.18	0.8	
	WCMT06T308-M02			●							9.525	6.5	3.97	0.8	
	WCMX080412-M02			●							12.7	8.7	4.76	1.2	

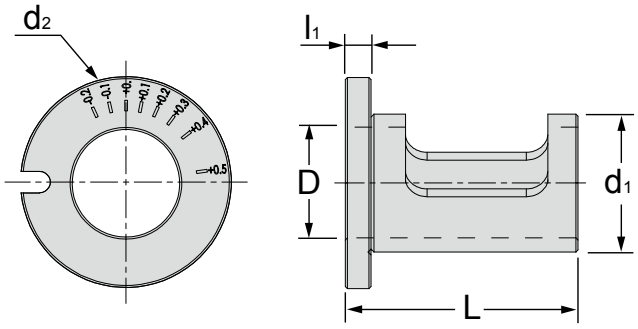
WC_03.04.05.06.08 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	進給率 (mm/rev) ø20 以下	ø20~ø25 以下	ø25~ø45 以下	ø45 以下
P	低合金鋼 Low-Alloy Steels	PET30	100~200	0.05~0.12	0.06~0.15	0.08~0.17	0.10~0.20
		OM4025					
	合金鋼 Alloyed Steels	PET30	80-160	0.05~0.12	0.06~0.15	0.08~0.17	0.10~0.20
		OM4025					
M	不鏽鋼 Stainless Steels	PET30	70-140	0.05~0.12	0.06~0.12	0.08~0.15	0.10~0.20
K	鑄鐵 Cast Iron	PET30	70-180	0.06~0.10	0.08~0.15	0.08~0.20	0.10~0.30
		OM4025					
N	鋁合金 Aluminum&Al	GH05	150~250	0.05~0.10	0.10~0.20	0.12~0.23	0.20~0.30

• 長度單位 Unit of Length (mm)

EC 偏心套筒
EC CENTRIC SLEEVE

KOVIT



特點 Feature

- 通過調整直徑範圍來調整加工徑

- To adjust a drilling diameter by adjusting diameter range either enlarging or reducing.

規格 Spec.	L	l1	D	d1	d2	銑床加工徑調整可能範圍 Milling Machine Adjustment	車床中心高調整範圍 Lathe Machine Adjustment	重量 (KGS) Weight
EC-2532-48	54	6	25	32	49	-0.2~+0.5	-0.15~+0.2	0.14
EC-3240-53	59	6	32	40	58	-0.2~+0.5	-0.15~+0.2	0.20

銑床鑽孔徑尺寸調整
Adjust the drill hole diameter for milling process

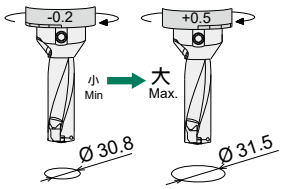
1. 請自行註記一個基準點當作基準，對準偏心套筒外緣刻度做調整。（請參照圖1)
   Please mark an index as a datum by yourself and make an adjustment per the scale on the eccentric sleeve.(see diagram 1)
2. 要擴大加工孔徑時，偏心套筒向(+)方向旋轉，要縮小加工孔徑時，偏心套筒向(-)方向旋轉。
   Rotate in direction of (+) to enlarge the diameter of cutting hole.
   Rotate in direction of (-) to smaller the diameter of cutting hole.
3. 旋轉偏心套筒時，請使用Ø3~Ø5 mm 調整圓棒插入偏心套筒外緣上的切槽溝，即可旋轉調整偏心套筒。
   Please use adjustable round bar of Ø3~Ø5mm which inserted into the slot for rotating the eccentric sleeve.
4. 使用側固刀桿的「A側固螺絲」，以偏心套筒的切槽開口處，對準螺絲鎖固，「B側固螺絲」則輕輕鎖緊即可。（請參照圖2)
   Set screw for side A of chuck: fasten screw at the slot opening area of eccentric sleeve.
   Set screw for side B of chuck: slightly screw is enough (see diagram 2)

⚠ 請注意 Cautions:

一、不可以使用筒夾固定軸把
Do not use the fixed shaft of collet.
二、套筒上的刻度為標準值
Take the scale on sleeve as a standard index.
三、調整後檢查實際加工徑
Check the actual cutting diameter after adjustment.
四、根據中心高的調整，孔徑會改變
Hole diameter varies with per adjustment of center height.
五、建議調整中心高後，再檢查孔徑
Double check the hole diameter per recommended adjustment of center height.

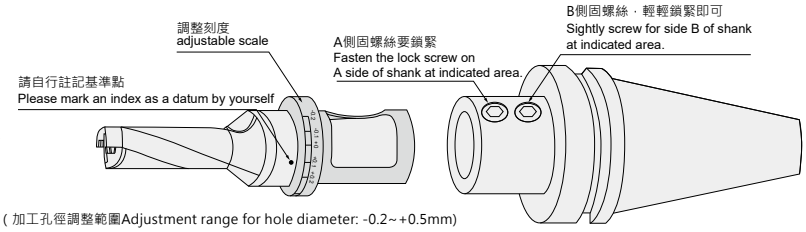
銑床加工徑調整
Adjust machining diameter for milling process

例：Ø31mm鑽頭 Drill head



加工徑調整範圍(mm)
Adjustable range for cutting diameter

調整範圍
-0.2~+0.5



（加工孔徑調整範圍Adjustment range for hole diameter: -0.2~+0.5mm)

圖1 Drawing 1　　圖2 Drawing 2

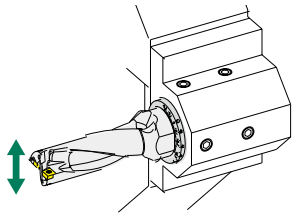
車床中心高調整
Adjust center height of lathe

車床的問題，大多是由中心高偏移引起的。
若孔端面中心殘留有直徑約0.5mm的芯核，則中心高是合適的，以下情況中，
有必要調整中心高：1. 沒有殘留芯核 2.芯核直徑大於1mm。
The lathe issue mostly caused by the high offset of center height.
The center height is appropriate if there remains 0.5mm diameter of core on the end side of hole.
Required center height adjustment for the following condition:
1. No core remained 2. Core diameter larger than 1mm.

調整方法
Adjustment methods.

(1) 使偏心套筒外緣端面刻度(車床用)對準鑽頭外緣上的切削液孔插銷中央
(2) 如沒有芯核，向(+)方向旋轉偏心套筒；當芯核直徑大於1mm時，向(-)方向旋轉偏心套筒
(3) 旋轉偏心套筒時，請使用Ø3~Ø5 mm 調整圓棒插入偏心套筒外緣上的切槽溝，即可旋轉調整偏心套筒。
(4) 用車床上的刀把固定螺絲時，以偏心套筒的切槽開口處，直接固定鑽頭
(1) Align the scale of eccentric sleeve (for lathe use) to the center of pin hole for coolant (drill head outside).
(2) Rotate in direction of "+" if no core exist. Rotate in direction of "-" if the core diameter is more than 1mm.
(3) Please use adjustable round bar of Ø3~Ø5mm which inserted into the slot for rotating the eccentric sleeve.
(4) When using the shank to fix the set screw, directly lock the drill head on the slot opening of eccentric sleeve.

中心高調整-車床加工用
Adjust center height for lathe machining



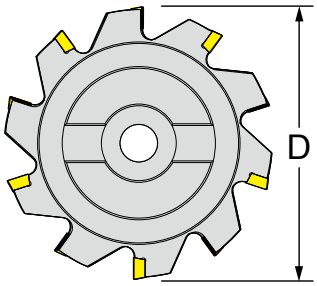
中心高調整範圍(mm)
Adjustable range for center height

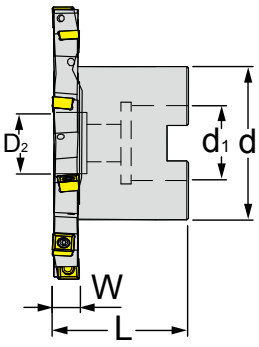
調整範圍
-0.15~+0.2

• 長度單位 Unit of Length (mm)

FDC 捨棄式側銑刀
FDC INDEXABLE SIDE DISC CUTTER

KOVIT





特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變
- 刀片使用四個刃口，可有效降低成本

- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.
- 4 edges usable, effective cost-saving.

規格 Spec.	L	D	D_2	d	d_1	W	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
FDC-80-08B22	40	80	18	45	22	8	8	SP..0602	0.73
FDC-100-08B27	40	100	19	50	27	8	10	SP..0602	0.96
FDC-100-10B27	40	100	19	50	27	10	10	SP..0602	1.03
FDC-100-14B27	40	100	19	50	27	14	10	SP..0903	1.02
FDC-125-10B32	45	125	43	70	32	10	12	SP..0602	1.70
FDC-125-12B32	45	125	43	70	32	12	12	SP..0903	1.70
FDC-160-12B40	50	160	50	80	40	12	14	SP..0903	2.70
FDC-200-12B40	50	200	50	90	40	12	16	SP..0903	4.00
FDC-125-16B32	45	125	43	70	32	16	10	SP..1204	1.80
FDC-160-16B40	50	160	50	80	40	16	12	SP..1204	2.90
FDC-160-18B40	50	160	50	80	40	18	12	SP..1204	2.90
FDC-200-16B40	50	200	50	90	40	16	14	SP..1204	4.50
FDC-200-18B40	50	200	50	90	40	18	14	SP..1204	4.90
FDC-200-20B40	50	200	50	90	40	20	14	SP..1204	5.19

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SP..0602	M2.2-5.2-3.1-60-T7-TIN	T7	0.9
SP..0903	M4-10-5.7-60	T15	3.0
SP..1204	M5-11-6.4-43	T20	5.0

• 長度單位 Unit of Length (mm)

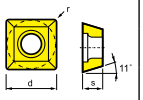
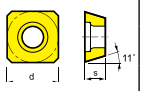
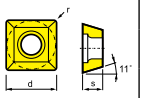
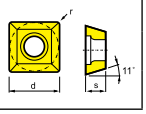
FDC 捨棄式側銑刀
FDC INDEXABLE SIDE DISC CUTTER

KOVIT

ISO 分類														
P	合金鋼 Alloyed Steels	○	○	○										
M	不鏽鋼 Stainless Steels	○	○											
K	鑄鐵 Cast Iron	○	○											
N	鋁及鋁合金 Aluminum&Al							■						
S	高溫合金 Refractory Alloys													
H	高硬度材 Hard Material	○												

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain						超微粒硬質合金 Micro grain cemented carbide						尺寸 (mm)				圖形 Drawing
		CHF						HF						Size				
		OM4010	OM4025	RM4025	RM3130			OM5005						d	i	s	r	
	SPMT060204-M01			●	●									6	-	2.38	0.4	
	SPMT090308-M01			●										9.525	-	3.18	0.8	
	SPMW090304	●	●											9.525	-	3.18	0.4	
	SPET120408-M02							●						12.7	-	4.76	0.8	
	SPMT120408-R01			●										12.7	-	4.76	0.8	

SP_06.09.12 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切 深 Ap(mm)
P	低合金鋼 Low-Alloy Steels	OM4010	100~220	0.10~0.35	2.0~9.0
		OM4025	100~220	0.10~0.35	2.0~9.0
		RM4025	100~220	0.10~0.35	2.0~9.0
	合金鋼 Alloyed Steels	OM4010	70~120	0.10~0.25	1.0~5.0
		OM4025	70~120	0.10~0.25	1.0~5.0
		RM4025	70~120	0.10~0.25	1.0~5.0
M	不鏽鋼 Stainless Steels	OM4010	130~200	0.12~0.30	3.0~8.0
		OM4025	130~200	0.12~0.30	3.0~8.0
K	鑄鐵 Cast Iron	OM4025	100~210	0.10~0.20	2.0~9.0
		RM3130	100~210	0.10~0.20	2.0~9.0
N	鋁合金 Aluminum&Al	OM5005	300(250~450)	0.2(0.15~0.35)	2.0~9.0

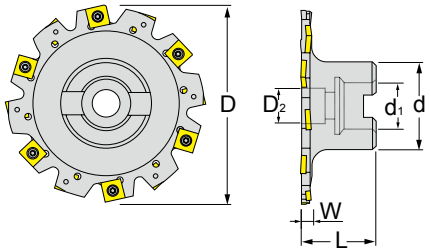
▎主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑) Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

▎床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速 Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

GDC 捨棄式側銑刀
GDC INDEXABLE SIDE DISC CUTTER

KOVIT



規格 Spec.	L	D	D2	d	d1	W	刃數 Flutes	刀 片 Insert	重量 (KGS) Weight
GDC-80-04B22	40	80	28	45	22	4	10	SN..1102	0.50
GDC-80-05B22	40	80	28	45	22	5	10	SN..1103	0.50
GDC-80-06B22	40	80	28	45	22	6	8	SN..1203	0.55
GDC-80-07B22	40	80	28	45	22	7	9	SN..1203	0.57
GDC-80-08B22	40	80	28	45	22	8	9	SN..1203	0.70
GDC-80-09B22	40	80	28	45	22	9	8	SN..1205	0.60
GDC-80-10B22	40	80	28	45	22	10	8	SN..1205	0.62
GDC-80-12B22	40	80	28	45	22	12	8	SN..1207	0.66
GDC-80-14B22	40	80	28	45	22	14	9	SN..1207	0.70
GDC-100-04B27	40	100	33	50	27	4	12	SN..1102	0.74
GDC-100-05B27	40	100	33	50	27	5	12	SN..1103	0.70
GDC-100-06B27	40	100	33	50	27	6	10	SN..1203	0.73
GDC-100-07B27	40	100	33	50	27	7	9	SN..1203	0.76
GDC-100-08B27	40	100	33	50	27	8	9	SN..1203	0.80
GDC-100-09B27	40	100	33	50	27	9	10	SN..1205	0.82
GDC-100-10B27	40	100	33	50	27	10	10	SN..1205	0.86
GDC-100-12B27	40	100	33	50	27	12	10	SN..1207	0.90
GDC-100-14B27	40	100	33	50	27	14	9	SN..1207	0.98
GDC-125-04B32	45	125	43	70	32	4	14	SN..1102	1.30
GDC-125-05B32	45	125	43	70	32	5	14	SN..1103	1.40
GDC-125-06B32	45	125	43	70	32	6	12	SN..1203	1.40
GDC-125-07B32	45	125	43	70	32	7	12	SN..1203	1.45
GDC-125-08B32	45	125	43	70	32	8	12	SN..1203	1.45
GDC-125-09B32	45	125	43	70	32	9	12	SN..1205	1.58
GDC-125-10B32	45	125	43	70	32	10	12	SN..1205	1.58
GDC-125-12B32	45	125	43	70	32	12	12	SN..1207	1.65
GDC-125-14B32	45	125	43	70	32	14	12	SN..1207	1.76
GDC-160-06B40	50	160	50	90	40	6	16	SN..1203	2.60
GDC-160-07B40	50	160	50	90	40	7	15	SN..1203	2.60
GDC-160-08B40	50	160	50	90	40	8	15	SN..1203	2.80
GDC-160-09B40	50	160	50	90	40	9	16	SN..1205	2.80
GDC-160-10B40	50	160	50	90	40	10	16	SN..1205	2.90
GDC-160-12B40	50	160	50	90	40	12	16	SN..1207	3.08
GDC-160-14B40	50	160	50	90	40	14	15	SN..1207	0.23

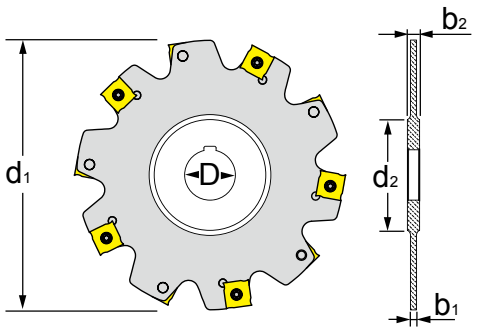
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SN..1102	M3-3.5-5.0-90	T7	0.9
SN..1103	M3-4.3-5.0-90	T7	0.9
SN..1203	M4-5.0-6.2-90	T15	3.0
SN..1205	M4-8.2-6.2-90	T15	3.0
SN..1207	M4-11-6.2-90-T15-TIN	T15	3.0

• 長度單位 Unit of Length (mm)

SDC 捨棄式側銑刀
SDC INDEXABLE SIDE DISC CUTTER

KOVIT



規格 Spec.	D	d_1	d_2	b_1	b_2	刃數 Flutes	刀 片 Insert	重量 (KGS) Weight
SDC-100-04A25.4	25.4	100	41	4	12	12	SN..1102	0.38
SDC-100-05A25.4	25.4	100	41	5	12	12	SN..1103	0.44
SDC-100-06A25.4	25.4	100	41	6	12	10	SN..1203	0.45
SDC-100-07A25.4	25.4	100	41	7	12	9	SN..1203	0.49
SDC-100-08A25.4	25.4	100	41	8	12	9	SN..1203	0.54
SDC-100-10A25.4	25.4	100	41	10	12	10	SN..1205	0.59
SDC-100-11A25.4	25.4	100	41	11	12	10	SN..1207	0.62
SDC-100-12A25.4	25.4	100	41	12	12	10	SN..1207	0.66
SDC-100-14A25.4	25.4	100	41	14	16	9	SN..1207	0.77
SDC-125-04A25.4	25.4	125	41	4	12	14	SN..1102	0.58
SDC-125-05A25.4	25.4	125	41	5	12	14	SN..1103	0.63
SDC-125-06A25.4	25.4	125	41	6	12	12	SN..1203	0.69
SDC-125-07A25.4	25.4	125	41	7	12	12	SN..1203	0.75
SDC-125-08A25.4	25.4	125	41	8	12	12	SN..1203	0.81
SDC-125-09A25.4	25.4	125	41	9	12	12	SN..1205	0.86
SDC-125-10A25.4	25.4	125	41	10	12	12	SN..1205	0.94
SDC-125-12A25.4	25.4	125	41	12	12	12	SN..1207	1.05
SDC-125-14A25.4	25.4	125	41	14	16	12	SN..1207	1.20
SDC-160-06A25.4	25.4	160	41	6	12	16	SN..1203	1.04
SDC-160-07A25.4	25.4	160	41	7	12	15	SN..1203	1.17
SDC-160-08A25.4	25.4	160	41	8	12	15	SN..1203	1.26
SDC-160-09A25.4	25.4	160	41	9	12	16	SN..1205	1.35
SDC-160-10A25.4	25.4	160	41	10	12	16	SN..1205	1.48
SDC-160-12A25.4	25.4	160	41	12	12	16	SN..1207	1.74
SDC-160-14A25.4	25.4	160	41	14	16	15	SN..1207	1.99

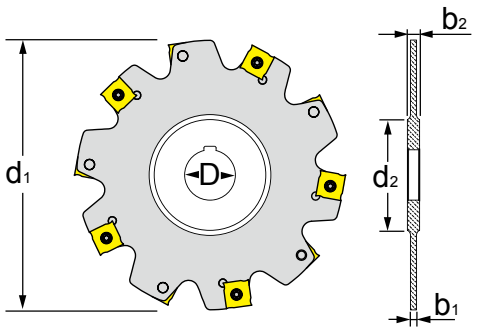
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SN..1102	M3-3.5-5.0-90	T7	0.9
SN..1103	M3-4.3-5.0-90	T7	0.9
SN..1203	M4-5.0-6.2-90	T15	3.0
SN..1205	M4-8.2-6.2-90	T15	3.0
SN..1207	M4-11-6.2-90-T15-TIN	T15	3.0

• 長度單位 Unit of Length (mm)

SDC 捨棄式側銑刀
SDC INDEXABLE SIDE DISC CUTTER

KOVIT



規格 Spec.	D	d_1	d_2	b_1	b_2	刃數 Flutes	刀 片 Insert	重量 (KGS) Weight
SDC-63-04B22	22	63	34	4	8	8	SN..1102	0.27
SDC-63-05B22	22	63	34	5	8	8	SN..1103	0.28
SDC-63-06B22	22	63	34	6	8	6	SN..1203	0.28
SDC-80-04B22	22	80	34	4	8	10	SN..1102	0.31
SDC-80-05B22	22	80	34	5	8	10	SN..1103	0.33
SDC-80-06B22	22	80	34	6	8	8	SN..1203	0.35
SDC-100-04B27	27	100	41	4	12	12	SN..1102	0.38
SDC-100-05B27	27	100	41	5	12	12	SN..1103	0.44
SDC-100-06B27	27	100	41	6	12	10	SN..1203	0.45
SDC-100-07B27	27	100	41	7	12	9	SN..1203	0.49
SDC-100-08B27	27	100	41	8	12	9	SN..1203	0.54
SDC-100-10B27	27	100	41	10	12	10	SN..1205	0.59
SDC-100-12B27	27	100	41	12	12	10	SN..1207	0.70
SDC-100-14B27	27	100	41	14	14	9	SN..1207	0.70
SDC-125-04B32	32	125	47	4	12	14	SN..1102	0.58
SDC-125-05B32	32	125	47	5	12	14	SN..1103	0.63
SDC-125-06B32	32	125	47	6	12	12	SN..1203	0.69
SDC-125-07B32	32	125	47	7	12	12	SN..1203	0.75
SDC-125-08B32	32	125	47	8	12	12	SN..1203	0.81
SDC-125-09B32	32	125	47	9	12	12	SN..1205	0.86
SDC-125-10B32	32	125	47	10	12	12	SN..1205	0.94
SDC-125-12B32	32	125	47	12	12	12	SN..1207	1.05
SDC-125-14B32	32	125	47	14	14	12	SN..1207	1.20

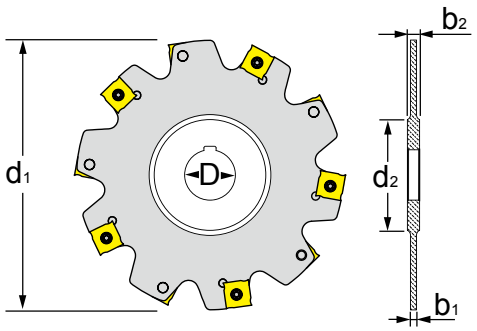
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SN..1102	M3-3.5-5.0-90	T7	0.9
SN..1103	M3-4.3-5.0-90	T7	0.9
SN..1203	M4-5.0-6.2-90	T15	3.0
SN..1205	M4-8.2-6.2-90	T15	3.0
SN..1207	M4-11-6.2-90-T15-TIN	T15	3.0

• 長度單位 Unit of Length (mm)

SDC 捨棄式側銑刀
SDC INDEXABLE SIDE DISC CUTTER

KOVIT

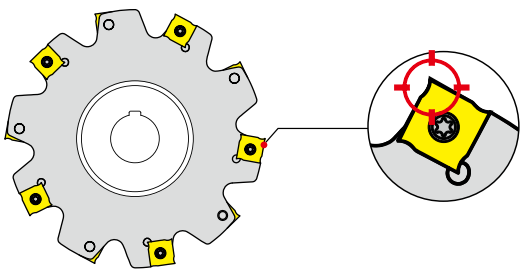


規格 Spec.	D	d_1	d_2	b_1	b_2	刃數 Flutes	刀 片 Insert	重量 (KGS) Weight
SDC-160-06B40	40	160	55	6	12	16	SN..1203	1.04
SDC-160-07B40	40	160	55	7	12	15	SN..1203	1.17
SDC-160-08B40	40	160	55	8	12	15	SN..1203	1.26
SDC-160-09B40	40	160	55	9	12	16	SN..1205	1.35
SDC-160-10B40	40	160	55	10	12	16	SN..1205	1.48
SDC-160-12B40	40	160	55	12	12	16	SN..1207	1.74
SDC-160-14B40	40	160	55	14	12	15	SN..1207	1.99
SDC-200-06B50	50	200	69	6	12	18	SN..1203	-
SDC-200-08B50	50	200	69	8	12	18	SN..1203	-
SDC-200-10B50	50	200	69	10	12	18	SN..1205	-
SDC-200-12B50	50	200	69	12	12	18	SN..1207	-
SDC-200-14B50	50	200	69	14	14	18	SN..1207	3.20
SDC-250-08B50	50	250	69	8	12	24	SN..1203	4.30
SDC-250-10B50	50	250	69	10	12	24	SN..1205	4.30
SDC-250-12B50	50	250	69	12	12	24	SN..1207	4.50
SDC-250-14B50	50	250	69	14	14	24	SN..1207	4.50

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SN..1203	M4-5.0-6.2-90	T15	3.0
SN..1205	M4-8.2-6.2-90	T15	3.0
SN..1207	M4-11-6.2-90-T15-TIN	T15	3.0

⚠ 請注意! Cautions!



刀片安裝時，需留意刀尖方向
(如圖示紅色準心)

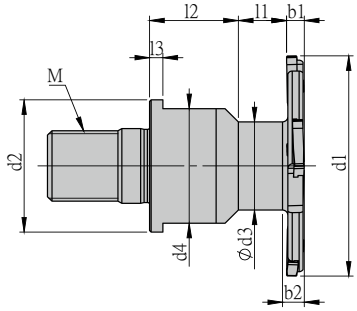
When installing inserts, need to notice the direction of the nose. (red aim point of drawing)

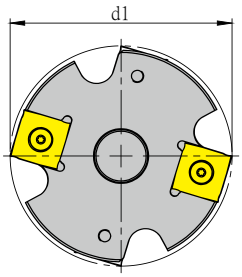
• 長度單位 Unit of Length (mm)

SDC 鎖牙式小徑側銑刀
SDC INDEXABLE SIDE DISC CUTTER FOR SMALL DIAMETER

KOVIT

NEW





特點 Feature

- 小徑專用，可搭配鎢鋼延長桿加長使用

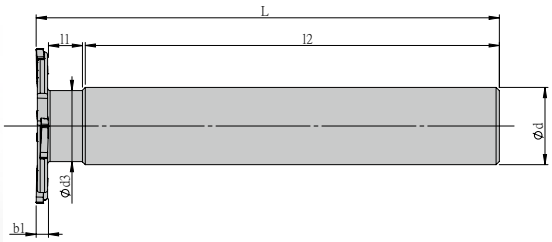
- Designed for small diameters, and be able to work with the carbide extension shank.

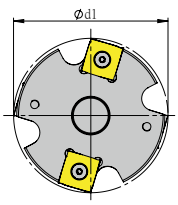
規格 Spec.	d1	d2	d3	d4	b1	b2	l1	l2	l3	M	刃數 Flutes	刀 片 Insert
SDC-40-04M10	40	18.5	14	16	4	4.9	8.3	10.7	3	M10	4	SNFX1102
SDC-40-05M10	40	18.5	14	16	5	5.9	8.3	10.7	3	M10	4	SNFX1103
SDC-50-04M12	50	23	16	18	4	4.9	11	13	3	M12	6	SNFX1102
SDC-50-05M12	50	23	16	18	5	5.9	11	13	3	M12	6	SNFX1103
SDC-50-06M12	50	23	16	18	6	6.9	11	13	3	M12	4	SNFX1203

- 搭配 SOM 鎖牙式延長桿 B000

SDC 直柄小徑側銑刀
SDC INDEXABLE SIDE DISC CUTTER FOR SMALL DIAMETER

NEW





規格 Spec.	d1	d	d3	b1	L	l1	l2	刃數 Flutes	刀 片 Insert
SDC-04-5025-150	50	25	23	4	150	11	134	4	SNFX1102
SDC-05-5025-150	50	25	23	5	150	10	134	4	SNFX1103
SDC-04-6332-150	63	32	33	4	150	17	148	4	SNFX1102

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SN..1102	M3-3.5-5.0-90	T7	0.9

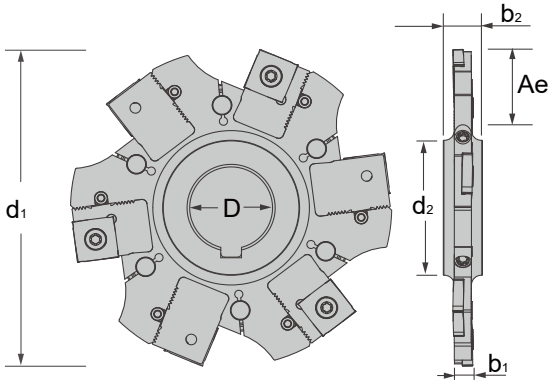
• 長度單位 Unit of Length (mm)

ASDC 可調式側銑刀
ASDC ADJUSTABLE SIDE DISC CUTTER

KOVIT

專利號 PAT.NO M574526(TW)　專利號 PAT.NO ZL 2018 2 1953076.6(CN)

NEW



規格 Spec.	D	d1	d2	b1	b2	切寬 Ae	刃數 Flutes	刀片座 Insert Seat	刀片 Insert	重量 (KGS) Weight
ASDC-100-0608A25.4-6T-SN1203	25.4	100	41	6~8	12	25	6	ASDC-CA0608-SN1203-R ASDC-CA0608-SN1203-L	SN..1203	0.27
ASDC-100-0810A25.4-6T-SN1205	25.4	100	41	8~10	12	25	6	ASDC-CA0810-SN1205-R ASDC-CA0810-SN1205-L	SN..1205	-
ASDC-100-1012A25.4-6T-SN1207	25.4	100	41	10~12	12	25	6	ASDC-CA1012-SN1207-R ASDC-CA1012-SN1207-L	SN..1207	-
ASDC-100-1214A25.4-6T-SN1207	25.4	100	41	12~14	16	25	6	ASDC-CA1214-SN1207-R ASDC-CA1214-SN1207-L	SN..1207	-
ASDC-125-0608A25.4-8T-SN1203	25.4	125	41	6~8	12	25	8	ASDC-CA0608-SN1203-R ASDC-CA0608-SN1203-L	SN..1203	-
ASDC-125-0810A25.4-8T-SN1205	25.4	125	41	8~10	12	35	8	ASDC-CA0810-SN1205-R ASDC-CA0810-SN1205-L	SN..1205	-
ASDC-125-1012A25.4-8T-SN1207	25.4	125	41	10~12	12	35	8	ASDC-CA1012-SN1207-R ASDC-CA1012-SN1207-L	SN..1207	-
ASDC-125-1214A25.4-8T-SN1207	25.4	125	41	12~14	16	35	8	ASDC-CA1214-SN1207-R ASDC-CA1214-SN1207-L	SN..1207	-
ASDC-160-0608A25.4-10T-SN1203	25.4	160	41	6~8	12	45	10	ASDC-CA0608-SN1203-R ASDC-CA0608-SN1203-L	SN..1203	-
ASDC-160-0810A25.4-10T-SN1205	25.4	160	41	8~10	12	45	10	ASDC-CA0810-SN1205-R ASDC-CA0810-SN1205-L	SN..1205	-
ASDC-160-1012A25.4-10T-SN1207	25.4	160	41	10~12	12	45	10	ASDC-CA1012-SN1207-R ASDC-CA1012-SN1207-L	SN..1207	-
ASDC-160-1214A25.4-10T-SN1207	25.4	160	41	12~14	16	45	10	ASDC-CA1214-SN1207-R ASDC-CA1214-SN1207-L	SN..1207	-

- 搭配 BT/SCA 側銑刀桿 B000、SBT/SCA 側銑刀桿 B000

範例 Example

利用調整螺絲來進行切槽尺寸的調整
Use the adjustable lock screw to fine-tune the groove size.

刀片座排齒設計，可增加接合穩定性
Insert seat tooth design for junction stability.

微調尺寸6~8mm（微調範圍2mm）
Adjustable size 6~8mm.
(Adjustable range 2mm)

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 Torque
SN..1203	M4-5.0-6.2-90	T15	3.0 N.m
SN..1205	M4-8.2-6.2-90	T15	3.0 N.m
SN..1207	M4-11-6.2-90-T15-TIN	T15	3.0 N.m

• 長度單位 Unit of Length (mm)

SDC 捨棄式側銑刀
SDC INDEXABLE SIDE DISC CUTTER

KOVIT

ISO 分類														
P	合金鋼 Alloyed Steels	○	○											
M	不鏽鋼 Stainless Steels	○	○											
K	鑄鐵 Cast Iron	○	○											
N	鋁及鋁合金 Aluminum&Al								■					
S	高溫合金 Refractory Alloys													
H	高硬度材 Hard Material	○												

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain CHF							超微粒硬質合金 Micro grain cemented carbide HF					尺寸 (mm) Size				圖形 Drawing
		OM4010	OM4025						OM5005					d	i	s	r	
	SNFX1102	●	●						●					11	-	2.3	-	
	SNFX1103	●	●						●					11	-	2.7	-	
	SNFX1203	●	●						●					12.7	-	3.2	-	
	SNFX1205	●	●						●					12.7	-	5.4	-	
	SNFX1207	●	●						●					12.7	-	7	-	
	NEW SNFX120305	●	●						●					12.7	-	3.2	0.5	
	NEW SNFX120310	●	●						●					12.7	-	3.2	1	
	NEW SNFX120315	●	●						●					12.7	-	3.2	1.5	
	NEW SNFX120505	●	●						●					12.7	-	5.4	0.5	
	NEW SNFX120510	●	●						●					12.7	-	5.4	1	
	NEW SNFX120515	●	●						●					12.7	-	5.4	1.5	
	NEW SNFX120516	●	●						●					12.7	-	5.4	1.6	
	NEW SNFX120705	●	●						●					12.7	-	7	0.5	
	NEW SNFX120710	●	●						●					12.7	-	7	1	
	NEW SNFX120715	●	●						●					12.7	-	7	1.5	

NEW 新品 New Product

有效屑片厚度計算公式
Formula of average chip thickness

$$f_z = \sqrt{\frac{D}{Ap}} \times f \qquad 0.11 = \sqrt{\frac{D}{Ap}} \times f \qquad 0.31 = f$$

D= 有效外徑 Effective outer diameter
f= 每刃進給量 Feed per flutes
Ap= 切深 Depth
hm= 有效屑片厚度 Effective chip thickness

SN_11.12 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 (mm)
P	合金鋼 Alloyed Steels	OM4010	90~250	0.08(0.06~0.12)
		OM4025	90~230	0.08(0.06~0.12)
M	不鏽鋼 Stainless Steels	OM4010	55~110	0.06(0.06~0.12)
		OM4025	55~100	0.06(0.06~0.12)
K	鑄鐵 Cast Iron	OM4025	110~275	0.08(0.06~0.12)
N	鋁合金 Aluminum&Al	OM5005	500~700	0.15(0.15~0.17)

主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑) Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

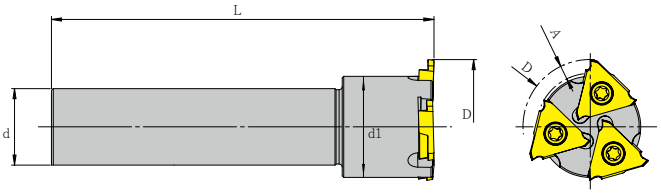
床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速 Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

TGC 捨棄式槽銑刀
TGC INDEXABLE GROOVE MILLING CUTTER

NEW

範例 Example



特點 Feature

- 適用於槽型銑削
- 多切削刃，有效提升效率
- 適用加工 O 型環槽

-Used for groove milling applications.
-Multiple cutting edges for efficient machining.
-Suitable for processing O-ring grooves.

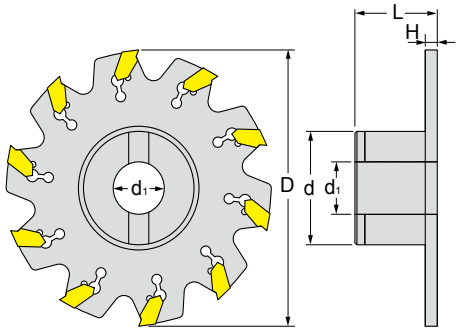
規格 Spec.	D	A	L	d	d_1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
TGC-4020-125	40	2	125	20	30	3	TGAL 4125-4400	0.43
TGC-4420-125	44	3	125	20	34	3		0.5

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 Torque
TGAL 4125-4400	M5-11-7.0-55	T20	6.5

TDC 捨棄式側銑刀
TDC INDEXABLE SIDE DISC CUTTER

NEW



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

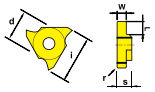
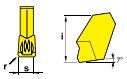
- Made of vibration resistance tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	D	d	d_1	H	切深 Ae	刃數 Flutes	刀片 Insert	扳手 Wrench	重量 (KGS) Weight
NEW TDC-75-03B22	40	75	42	22	3	13	6	TGTN3	DW-70	0.50
NEW TDC-100-03B22	40	100			3	25	8	TGTN3		0.75
NEW TDC-125-03B22	40	125			3	38	10	TGTN3		0.90
TDC-75-03B22	40	75	50		3	12.5	8	TGTN3		0.60
TDC-75-04B22					4			TGTN4		0.51
TDC-100-03B22	50	100			3	25	10	TGTN3		0.79
TDC-100-04B22					4			TGTN4		0.81
TDC-125-03B22		125			3	37.5	12	TGTN3		1.20
TDC-125-04B22					4			TGTN4		2.03

• 長度單位 Unit of Length (mm)

TGC 捨棄式槽銑刀
TGC INDEXABLE GROOVE MILLING CUTTER

ISO 分類												
P	合金鋼 Alloyed Steels	○	○	○								切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
M	不鏽鋼 Stainless Steels	○	○									
K	鑄鐵 Cast Iron	○	○									
N	鋁及鋁合金 Aluminum&Al					■						
S	高溫合金 Refractory Alloys											
H	高硬度材 Hard Material	○										

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain				超微粒硬質合金 Micro grain cemented carbide				尺寸 (mm)						圖形 Drawing
		CHF				HF				Size						
		OM4010	OM4025	RM4025		OM5005				W	L	d	i	s	r	
	TGAL4125	●	●							1.25	1.2	12.70	17.59	4.76	0.20	
	TGAL4150	●	●							1.50	3	12.70	17.59	4.76	0.20	
	TGAL4175	●	●							1.75	3	12.70	17.59	4.76	0.20	
	TGAL4200	●	●							2.00	3	12.70	17.59	4.76	0.20	
	TGAL4235	●	●							2.35	3	12.70	17.59	4.76	0.20	
	TGAL4250	●	●							2.50	4.5	12.70	17.59	4.76	0.30	
	TGAL4300	●	●							3.00	4.5	12.70	17.59	4.76	0.30	
	TGAL4350	●	●							3.50	4.5	12.70	17.59	4.76	0.30	
	TGAL4400	●	●							4.00	4.5	12.70	17.59	4.76	0.40	
	TGTN3	●	●	●		●						-	11.3	3.1	0.2	
	TGTN4	●	●			●						-	11.3	4.1	0.25	

TG_41.42.43.44 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		切削速度 Vc(m/min)	切槽每刃進給 (mm)			
			W=0.5~1.2	W=1.25~2.25	W=2.3~3.25	W=4~4.5
P	合金鋼 Alloyed Steels	80~160	0.03~0.08	0.04~0.09	0.05~0.1	0.05~0.12
M	不鏽鋼 Stainless Steels	60~130	0.03~0.07	0.04~0.08	0.05~0.09	0.05~0.1
K	鑄鐵 Cast Iron	80~300	0.03~0.08	0.04~0.09	0.05~0.1	0.05~0.12
H	高硬度材 Hard Material	80~120	-	0.02~0.05	0.03~0.07	-

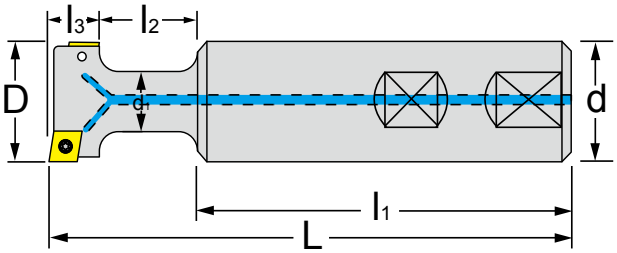
TGTN_3.4 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 (mm)
P	合金鋼 Alloyed Steel	OM4010	90~250	0.08(0.06~0.12)
		OM4025	90~230	0.08(0.06~0.12)
M	不鏽鋼 Stainless Steels	OM4010	55~110	0.06(0.06~0.12)
		OM4025	55~100	0.06(0.06~0.12)
K	鑄鐵 Cast Iron	OM4025	110~275	0.08(0.06~0.12)
N	鋁合金 Aluminum&Al	OM5005	500~700	0.15(0.15~0.17)

• 長度單位 Unit of Length (mm)

ATS T 型槽端銑刀
ATS T-SLOTS END MILL

KOVIT



特點 Feature

- 採用抗震性工具鋼材質，中心出水
- 整體預硬後，再行精修，避免二次處理所產生應變

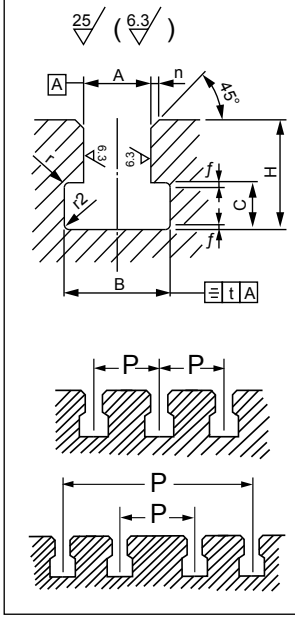
- Made of anti-vibration tool steel with through coolant.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	l_1	l_2	l_3	D	d	d_1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
ATS-25-11	112	80	21	11	25	25	12.5	2	CC..0602	0.35
ATS-32-14	120	77	30	14	32	32	16	4	CC..0803	0.55
ATS-40-18	130	80	32	18	40	32	20	4	CC..09T3	0.67
ATS-50-22	140	80	39	22	50	32	26	4	CC..1204	0.77

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
CC..0602	M2.5-6.0-3.5-60	T8	1.2
CC..0803	M3-8.0-4.0-43	T9	1.4
CC..09T3	M4-10-5.7-60	T15	3.0
CC..1204	M5-11-7.5-60	T20	5.0

JIS B 0952-1987
JIS B 0953-1987



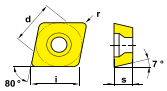
公稱尺寸	A 基準尺寸	A 容許差 1級 H8	A 容許差 2級 H12	A 容許差 3級 H14	A 容許差 4級	B 基準尺寸	B 容許差	C 基準尺寸	C 容許差	H 最大值	H 最小值	參考 n 最大	參考 f 最大	JIS B 0953 槽間隔 p
5	5	+0.018 0	+0.12 0	-	-	10	+1 0	3	+0.5 0	10	8	1	0.6	20、25、32
6	6					11	+1.5 0	5	+1 0	13	11			25、32、40
8	8	+0.022 0	+0.15 0	-	-	14.5		7		18	15			32、40、50
10	10					16	+2 0			21	17			40、50、63
12	12	+0.027 0	+0.18 0	+0.43 0	+2.7 0	19		8		25	20			50、63、80
14	14					23		9	+2 0	28	23	1.6		63、80、100
18	18					30		12		36	30		1	80、100、125
22	22	+0.033 0	+0.21 0	+0.52 0	+3.3 0	37	+3 0	16		45	38			100、125、160
28	28					46	+4 0	20		56	48			125、160、200
36	36	+0.039 0	+0.25 0	+0.62 0	+0.39 0	56		25	+3 0	71	61	2		160、200、250
42	42					68		32		85	74		1.6	200、250、320
48	48					80	+5 0	36	+4 0	95	84		2	250、320、400
54	54	+0.046 0	+0.30 0	+0.74 0		90		40		106	94			320、400、500

• 長度單位 Unit of Length (mm)

ATS T 型槽端銑刀
ATS T-SLOTS END MILL

KOVIT

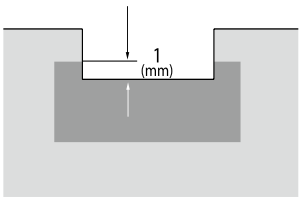
ISO 分類										
	P	合金鋼 Alloyed Steels	○							切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	M	不鏽鋼 Stainless Steels								
	K	鑄鐵 Cast Iron								
	N	鋁及鋁合金 Aluminum&Al								
	S	高溫合金 Refractory Alloys								
	H	高硬度材 Hard Material								

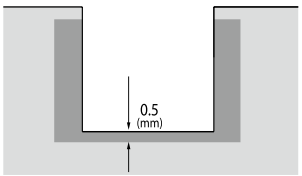
形狀 Shape	規格 Spec.	鍍層硬質合金 Carbide alloy CVD RM4035								尺寸 (mm) Size d	i	s	r	圖形 Drawing
	★ NEW CCMT060202N-F01	●								6.35	6.4	2.38	0.2	
	★ NEW CCMT060204N-F01	●								6.35	6.4	2.38	0.4	
	★ NEW CCMT09T304N-F01	●								9.525	9.7	3.97	0.4	
	★ NEW CCMT09T308N-F01	●								9.525	9.7	3.97	0.8	
	★ NEW CCMT120404N-F01	●								12.7	12.9	4.76	0.4	
	★ NEW CCMT120408N-F01	●								12.7	12.9	4.76	0.8	

★ 推薦 Recommended NEW 新品 New Product

※ 注意事項 Cautions:

一、溝槽加工須注意排屑問題，必要時須以噴霧裝置排出切屑
Removing the metal chips by mist cooler if necessary.
二、本 T 型刀附出水孔易於排屑。
With coolant hole, benefit for chip release.
三、本 T 型設計為粗切削，如須要求尺寸精度，須另行精修。
Designed for roughing. Additional fine cutting is required if necessary.
四、特殊規格可接受訂製。
Customized products are available.





CC_06.08.09.12 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		切削速度 Vc(m/min)	每刃進給 fz(mm/rev)
P	合金鋼 Alloyed Steel	180~220	0.08~0.12

▎主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑) Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

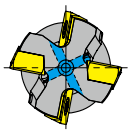
▎床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速 Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

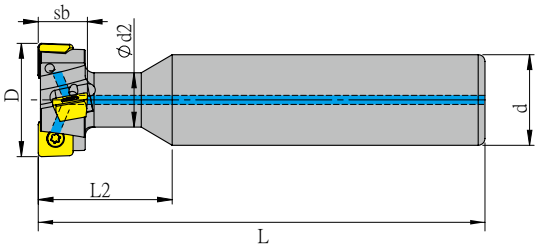
• 長度單位 Unit of Length (mm)

BTS/T 形槽端銑刀
BTS T-SLOTS END MILL

KOVIT

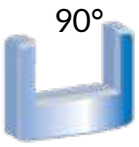
NEW





特點 Feature

- 採用抗震性工具鋼材質，中心出水
- 整體預硬後，再行精修，避免二次處理所產生應變



- Made of anti-vibration tool steel with through coolant.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	D	sb	d2	L2	L	d	t	刀片 Insert	重量 (KGS) Weight
BTS-1916-SP05-08	19	8	9.5	25	120	16	4	SP..0502	0.20
BTS-2116-SP06-09	21	9	11	27	120	16	4	SP..0602	0.20
BTS-2520-SP07-11	25	11	12	30	120	20	4	SP..07T3	-
BTS-3225-SP07-11	32	11	23	30	150	25	4	SP..07T3	-
BTS-3225-SP09-14	32	14	17	39	150	25	4	SP..0904	0.50
BTS-3525-SP09-14	35	14	20	39	150	25	4	SP..0904	-
BTS-4025-SP11-18	40	18	21	49	150	25	4	SP..1104	0.56
BTS-5032-SP14-22	50	22	27	61	150	32	4	SP..1405	0.92
BTS-5525-SP07-11	55	11	20	40	180	25	6	SP..07T3	0.76
BTS-6025-SP09-15	60	15	25	40	180	25	6	SP..0904	0.90
BTS-6032-SP14-15	60	25	32	55	180	32	4	SP..1405	-

配件表 Accessories

刀片 Insert	板手 Wrench	螺絲 Screw	扭力值 (N.m) Torque
SP..0502	T6	M2-4.3-2.7-60-T6-TIN	0.6
SP..0602	T7	M2.2-5.2-3.1-60-T7-TIN	0.9
SP..07T3	T8	M2.5-6.33-3.5-48-T8-TIN	1.2
SP..0904	T10	M3.5-8.4-5.0-60-T10-TIN	2.0
SP..1104	T15	M4-9.35-5.65-60-T15-TIN	3.0
SP..1405	T20	M5-12.8-7.0-60-T20-TIN	5.0

• 長度單位 Unit of Length (mm)

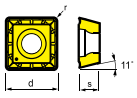
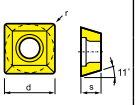
BTS/T 形槽端銑刀
BTS T-SLOTS END MILL

KOVIT

ISO 分類														
P	合金鋼 Alloyed Steels	○		○										
M	不鏽鋼 Stainless Steels	○		○										
K	鑄鐵 Cast Iron		○											
N	鋁及鋁合金 Aluminum&Al							■	■					
S	高溫合金 Refractory Alloys													
H	高硬度材 Hard Material													

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain						超微粒硬質合金 Micro grain cemented carbide						尺寸 (mm)				圖形 Drawing
		CHF						HF						Size				
		RM4025	RM3130	RM4030				RM5005	RM5060					d	i	s	r	
	SPGT050204-M02			●					●					5	-	2.38	0.4	
	SPGT060204-M02			●					●					6	-	2.38	0.4	
	SPGT07T308-M02			●					●					7.94	-	3.97	0.8	
	SPGT090408-M02			●					●					9.8	-	4.3	0.8	
	SPGT110408-M02			●					●					11.5	-	4.76	0.8	
	SPGT140512-M02			●					●					14.3	-	5.2	1.2	
	★ SPMT050204-M03	●	●											5	-	2.38	0.4	
	★ SPMT060204-M03	●	●											6	-	2.38	0.4	
	★ SPMT07T308-M03	●	●											7.94	-	3.97	0.8	
	★ SPMT090408-M03	●	●											9.8	-	4.3	0.8	
	★ SPMT110408-M03	●	●											11.5	-	4.76	0.8	
	★ SPMT140512-M03	●	●											14.3	-	5.2	1.2	
	★ SPMT050204-MT							●	●					5	-	2.38	0.4	
	★ SPMT060204-MT							●	●					6	-	2.38	0.4	
	★ SPMT07T308-MT							●	●					7.94	-	3.97	0.8	
	★ SPMT090408-MT							●	●					9.8	-	4.3	0.8	
	★ SPMT110408-MT							●	●					11.5	-	4.76	0.8	
	★ SPMT140512-MT							●	●					14.3	-	5.2	1.2	

★ 推薦 Recommended

SP_05.06.07.09.11.14 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)
P 合金鋼 Alloyed Steel	130~200	0.08~0.12
K 鑄鐵 Cast Iron	110~230	0.07~0.01
N 鋁及鋁合金 Aluminum&Al	180~600	0.12~0.15

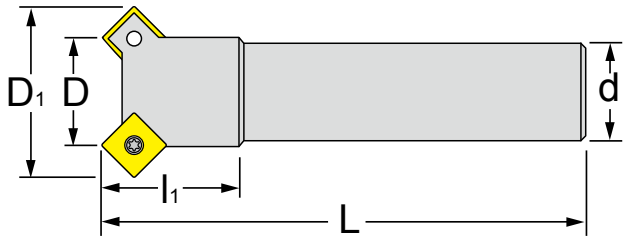
▎主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑) Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

▎床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速 Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

SPK 45°內外倒角刀
SPK 45°INTERNAL AND EXTERNAL CHAMFER END MILL

KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	l_1	D	D_1	d	角度 Angle	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
C20-SPK25-150L	150	38	25	37.6	20	45°	2	SP..0903	0.43
C20-SPK30-150L	150	38	30	42	20	45°	2	SP..0903	0.45

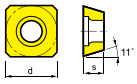
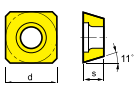
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SP..0903	M4-10-5.7-60	T15	3.0

ISO 分類														
	P	合金鋼 Alloyed Steels	○	○	○									
	M	不鏽鋼 Stainless Steels	○	○	○									
	K	鑄鐵 Cast Iron	○	○	○									
	N	鋁及鋁合金 Aluminum&Al												
	S	高溫合金 Refractory Alloys												
	H	高硬度材 Hard Material	○											

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain										尺寸 (mm)				圖形 Drawing
		CHF										Size				
		OM4010	OM4025	RM4025								d	i	s	r	
	SPMT090308-M01			●								9.8	-	3.18	0.8	
	SPMW090304	●	●									9.525	-	3.18	0.4	

• 長度單位 Unit of Length (mm)

SPK 45°內外倒角刀
SPK 45°INTERNAL AND EXTERNAL CHAMFER END MILL

倒角刀具 Chamfering Cutter: SPK

刀具柄徑 Diameter : Ø25.Ø30

SP_09 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切 深 Ap(mm)
P	低合金鋼 Low-Alloy Steels	OM4010	100~220	0.10~0.35	2.0~9.0
		OM4025	100~220	0.10~0.35	2.0~9.0
	合金鋼 Alloyed Steels	OM4010	70~120	0.10~0.25	1.0~5.0
		OM4025	70~120	0.10~0.25	1.0~5.0
M	不鏽鋼 Stainless Steels	OM4010	130~200	0.12~0.30	3.0~8.0
		OM4025	130~200	0.12~0.30	3.0~8.0
K	鑄鐵 Cast Iron	OM4025	100~210	0.10~0.20	2.0~9.0

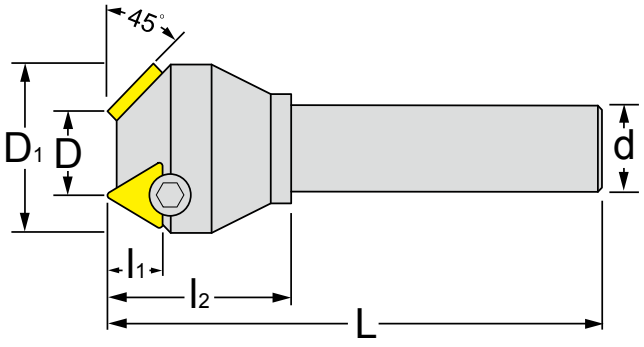
主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑)
Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速
Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

SSE 45°倒角刀
SSE 45° CHAMFER END MILL

KOVIT



規格 Spec.	L	l_1	l_2	D	D_1	d	刃數 Flutes	角度 Angle	刀片 Insert	重量 (KGS) Weight
45°-SSE-32	115	10	40	12.2	32	20	2	45°	TP..1603	0.36
45°-SSE-50	125	15	50	22.9	50	32	3	45°	TP..2204	0.88
45°-SSE-63	145	15	50	36.5	63	32	3	45°	TP..2204	1.32

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
TP..1603	M6-0.75P	P4	5.0
TP..2204	M8-1.0P	P5	6.0

ISO 分類																
	P	合金鋼 Alloyed Steels	○	○												
	M	不鏽鋼 Stainless Steels														
	K	鑄鐵 Cast Iron			○											
	N	鋁及鋁合金 Aluminum&Al														
	S	高溫合金 Refractory Alloys														
	H	高硬度材 Hard Material														

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	硬質合金 Carbide alloy HW TSP20	TSP25	TSK10										尺寸 (mm) Size d	i	s	r	圖形 Drawing
	TPKN1603PDR		●	●										9.525	-	3.18	-	
	TPKN2204PDR	●		●										12.7	-	4.76	-	
	TPMN160308		●	●										9.525	-	3.18	0.8	
	TPMN220412	●		●										12.7	-	4.76	1.2	

• 長度單位 Unit of Length (mm)

SSP倒角刀

- 可作倒角，V槽切削，45°定位倒角刀亦可作刻字及當定位鑽使用
- 刀具及刀片特殊設計，於定位鑽及V槽切削時刀片可避免干涉
- 使用一般銑床、CNC銑床、CNC車床

- Chamfering, v-grooving, the 45° spot drill can be used for carving and spot-drilling.
- Clerance angle negates interference between the insert/cutting tool and the workpiece during v-grooving and spot-drilling.
- Could be applied on milling machine, CNC milling machine and CNC lathe.

Feature

5 in 1

內孔倒角
Inner hole chamfering

V槽切削
V-grooving

定位鑽
Spotting

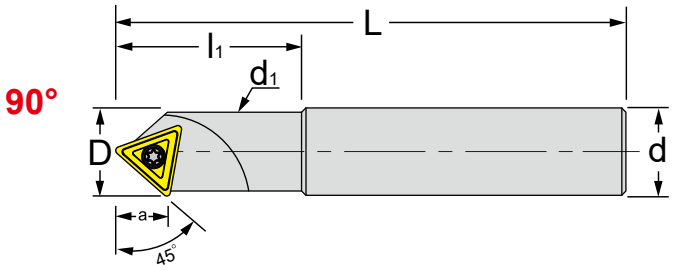
刻字
Carving

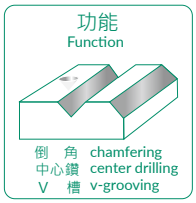
倒角
Chamfering

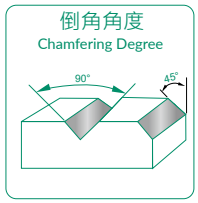
Chamfer Cutter

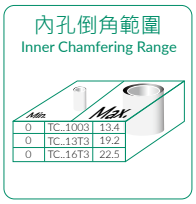
SSP 45°定位倒角刀
SSP 45° INDEXABLE SPOT & CHAMFER MILLING CUTTER

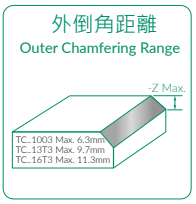
KOVIT











規格 Spec.	L	l1	D	d	d1	a	功能 Function	刀片 Insert	重量 (KGS) Weight
SSP-1212-105L	105	26	13.4	12	11.8	6.05	倒角 / 定位 (04R 角) Chamfering/Spotting	TC..1003	0.12
SSP-1616-110L	110	30	19.2	16	14	9.7	倒角 / 定位 (04R 角) Chamfering/Spotting	TC..13T3	0.18
SSP-2012-100L	100	35	22.5	12	19	11.3	倒角 / 定位 (08R 角) Chamfering/Spotting	TC..16T3	0.16
SSP-2020-130L	130	50	22.5	20	19	11.3	倒角 / 定位 (08R 角) Chamfering/Spotting	TC..16T3	0.31

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
TC..1003	M2.5-5.0-3.7-43	T8	1.2
TC..13T3	M3.5-8.0-5.0-60	T15	3.0
TC..16T3	M4-10-5.0-43	T15	3.0

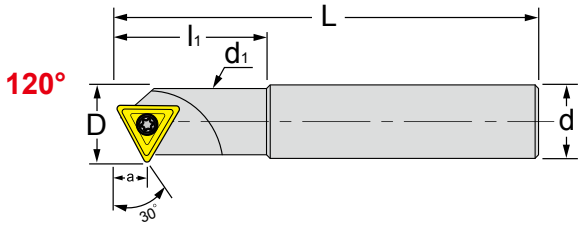
※ 定位鑽使用注意事項 Cautions of spot drilling:

- 銑床加工 : 刀具偏擺精度不能過大 (0.02mm 以內) Milling: runout must be within 0.02mm.
- 車床加工 : 刀片須與刀塔上下進給平行 Turning: Insert must be parallel to turret when vertical feeding.

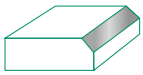
• 長度單位 Unit of Length (mm)

SSP 30°倒角刀
SSP 30°INDEXABLE CHAMFER MILLING CUTTER

KOVIT

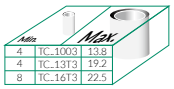


功能 Function

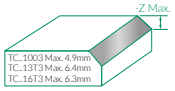


倒 角 chamfering

內孔倒角範圍 Chamfering Range



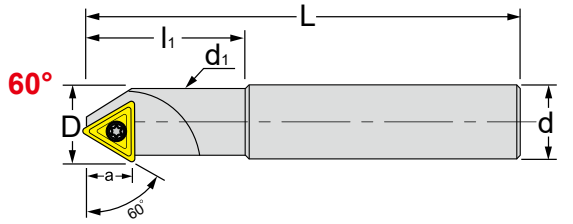
外倒角距離 Outside Chamfering Range



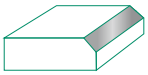
規格 Spec.	L	l1	D	d	d1	a	功能 Function	刀片 Insert	重量 (KGS) Weight
SSP-1212-105L-TC10-30	105	26	13.8	12	11.8	4.6	倒角 Chamfering	TC..1003	0.12
SSP-1616-110L-TC13-30	110	30	19.2	16	14	6.5	倒角 Chamfering	TC..13T3	0.18
SSP-2020-130L-TC16-30	130	50	22.5	20	19	7.6	倒角 Chamfering	TC..16T3	0.32

SSP 60°倒角刀
SSP 60°INDEXABLE CHAMFER MILLING CUTTER

KOVIT

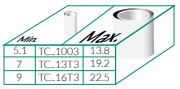


功能 Function

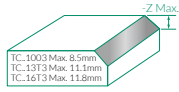


倒 角 chamfering

內孔倒角範圍 Chamfering Range



外倒角距離 Outside Chamfering Range



規格 Spec.	L	l1	D	d	d1	a	功能 Function	刀片 Insert	重量 (KGS) Weight
SSP-1212-105L-TC10-60	105	26	13.8	12	11.8	8.5	倒角 Chamfering	TC..1003	0.12
SSP-1616-110L-TC13-60	110	30	19.2	16	14	11.16	倒角 Chamfering	TC..13T3	0.18
SSP-2020-130L-TC16-60	130	50	22.5	20	19	11.83	倒角 Chamfering	TC..16T3	0.32

配件表 Accessories

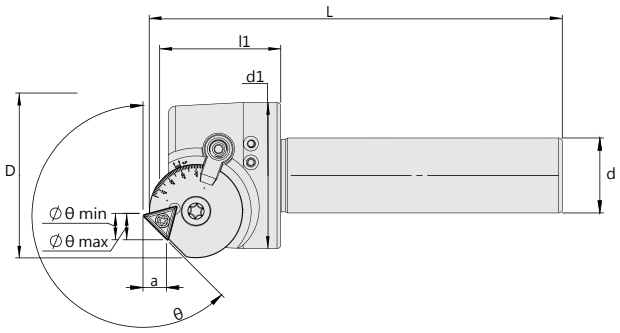
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
TC..1003	M2.5-5.0-3.7-43	T8	1.2
TC..13T3	M3.5-8.0-5.0-60	T15	3.0
TC..16T3	M4-10-5.0-43	T15	3.0

• 長度單位 Unit of Length (mm)

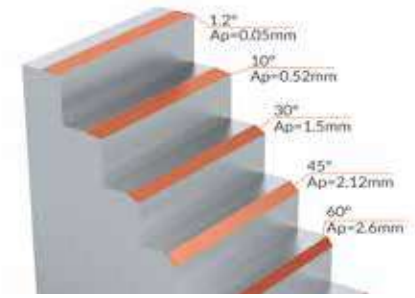
AAC 可調式倒角刀
AAC ADJUSTABLE ANGLE CHAMFERING CUTTER

KOVIT

NEW



範例 Example



* 刀桿 Tool holder：BT40-LHC20-58
* 刀具 Cutter Tool：AAC-4020-110L-TC10
* 刀片 Insert：TCEX100304E-AR OM4025(1pcs)
* 工件材質 Material：S50C
* (V):100m/min
* (S)：1600rpm
* (f)：150mm/rev
* (F)：0.06mm/min
* (Ap)：3mm
* (Ae)：2.12mm

規格 Spec.	L	l1	D	d	d1	a	θ	刀片座 Insert Seat	刀片 Insert	重量 (KGS) Weight
AAC-4020-110L-TC10	105	30	41	20	39	0.005~9.29	0.1°~89.9°	AAC-TC10	TC..1003	0.36

配件表 Accessories

壓塊 Clamp	壓塊螺絲 Clamp Screw	扳手 Wrench	扭力值 Torque	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 Torque
MC515	MS520	PL2.5	5.0	TC..1003	M2.5-5.0-3.7-43	T8	1.2

圖示 Fig.					
名稱 Name	壓塊螺絲 Clamp Screw	壓塊 Clamp	微調渦桿 Adjustable Screw	固定螺絲 Fixed Screw	止付螺絲 Screw
規格 Spec.	MS520	MC515	AAC-M5-28L	AAC-M6-5L	M3-5L
功能 Function	固定刀片座 Fix The Insert Seat	固定刀片座 Fix The Insert Seat	調整刀片座 Adjust The Insert Seat	鎖固渦桿 Lock The Worm Gear	固定微調渦桿 Fix The Adjustable Worm Gear

圖示 Fig.					
名稱 Name	圓柱梢 Cylindrical pin	螺絲 Screw	螺絲 Screw	扳手 Wrench	扳手 Wrench
規格 Spec.	AAC-2.5-4.5L	M5-12.5-7.5(BR8)	M2.5-5.0-3.7-43	T8、T10、T20	PL2.5
功能 Function	固定微調渦桿 Fix The Adjustable Screw	固定刀片座 Fix The Insert Seat	固定刀片 Fix The Insert	鎖固刀片 & 刀片座 Lock The Insert & Insert Seat	調整尺寸精度 Adjust The Size Accuracy

• 長度單位 Unit of Length (mm)

AAC 可調式倒角刀（套裝一支組）
AAC ADJUSTABLE ANGLE CHAMFERING CUTTER SET (1PC/SET)

KOVIT

範例 Example

NEW

規格 Spec.	內容物 Contents							重量 (KGS) Weight
	刀具 Tools	刀片座 Insert seat	刀片 Insert	螺絲 Screw	扳手 Wrench	數位角度規 Digital Protractor	數量 Qty	
AAC-4020-110L-TC10-SET	AAC-4020-110L	AAC-TC10	TCEX100304E-AR OM4025(1pcs)	1. MS520 壓塊螺絲 *1pcs (clamp screw) 2. AAC-M6-5L 固定螺絲 *1pcs (fixed screw) 3. AAC-M5-28L 微調渦桿 *1pcs (adjustable worm gear) 4. M5-12.5-7.5(BR8) 螺絲 *1pcs (screw) 5. M2.5-5.0-3.7-43 刀片螺絲 *1pcs (insert screw) 6. M3-5L 止付螺絲 *2pcs (set screw) 7. AAC-2.5-4.5L 圓柱梢 *2pcs (Cylindrical pin) 8. MC515 壓塊 *1pcs (clamp)	T8 T10 T20 PL2.5	LM-DP60	1	-

• 長度單位 Unit of Length (mm)

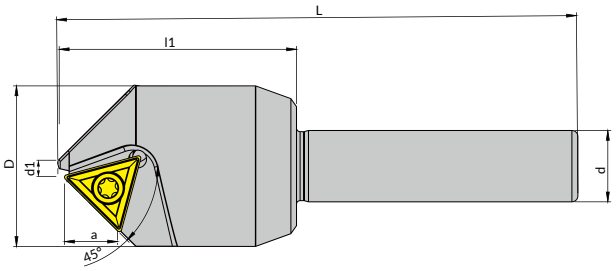
MDC 鑽床倒角刀
MDC MANUAL DEBURRING & CHAMFERING CUTTER

JP PAT. NO: 3232165
TW PAT. NO: I762161
CN PAT. NO: ZL 2021 2 017 5668.5

KOVIT

NEW

內孔倒角範圍 Chamfer Range Ø4.5 - Ø21



特點 Feature

- 適用機台：鑽床、CNC 銑床、旋臂鑽床、傳統銑床
- 萬用夾持柄徑 Ø12
- 刀片可提供出色的倒角表面

- Suitable Machines: Drilling Machine, CNC Milling Machine, Conventional Milling Machine
- Shank diameter Ø12.
- Excellent chamfering surface.

規格 Spec.	L	l1	D	d	d1	a	內孔倒角範圍 Inner Chamfer Range	功能 Features	刀片 Insert	重量 (KGS) Weight
MDC-2212-85L-TC13	85	38	22	12	4	8	Ø4.5 - Ø21	倒角 Chamfering	TC..13T3..-CR	0.36

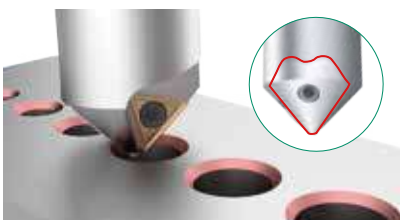
規格 Spec.	內容物 Contents			
	刀具 Tool	刀片 Insert	螺絲 Screw	扳手 Wrench
MDC-2212-85L-TC13-SET	MDC-2212-85L-TC13	TC..13T3..-CR RM535(2pcs)	M3.5-6.0-5.0-60 M4-8.0-5.0-43	T15

配件表 Accessories

圖示 Fig.					
名稱 Name	刀片 Insert	支撐導塊 Support Guide Pad	螺絲 Screw	螺絲 Screw	扳手 Wrench
規格 Spec.	TC..13T3..-CR	MDC-SGP	M3.5-6.0-5.0-60	M4-8.0-5.0-43	T15
功能 Function	切削 Cutting	引導加工 Guide The Cutter	鎖固刀片 Lock Insret	鎖固支撐導塊 Lock Support Guide Pad	鎖固螺絲 Fasten Screws

下孔徑 Hole Diameter Size	轉速 n(rpm)			
	鋼 Steel	不鏽鋼 Stainless Steel	鑄鐵 Cast Iron	鋁合金 Aluminum Alloy
Ø4.5	600	550	850	1150
Ø12	450	350	550	750
Ø16	350	250	450	550
Ø18	250	250	450	450

範例 Example



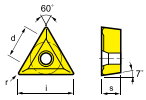
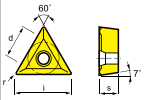
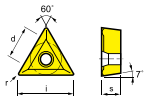
- 支撐導塊消除了顫動，易於操作
- Support guide pad eliminates chatter, enables easy operation.

• 長度單位 Unit of Length (mm)

銑削刀片 MILLING INSERTS

KOVIT

ISO 分類																切削狀態 Cutting Condition :
	P	合金鋼 Alloyed Steels	○	○												● 連續切削 Continuous Cutting
	M	不鏽鋼 Stainless Steels	○	○	○											○ 一般切削 General Cutting
	K	鑄鐵 Cast Iron	○	○												■ 斷續切削 Interrupted Cutting
	N	鋁及鋁合金 Aluminum&Al								■	■					
	S	高溫合金 Refractory Alloys			○											
	H	高硬度材 Hard Material	○													

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain CHF							超微粒硬質合金 Micro grain cemented carbide HF						尺寸 (mm) Size				圖形 Drawing
		OM4010	OM4025	RM535					OM5005	OM5060					d	i	s	r	
	TCEX100302E-FR	●	●						●	●					5.8	10	3.18	0.2	
	★ TCEX100304E-FR	●	●						●	●					5.8	10	3.18	0.4	
	TCEX100302E-AR	●	●												5.8	10	3.18	0.2	
	TCEX100304E-AR	●	●												5.8	10	3.18	0.4	
	NEW TCEX100304E-MR			●											5.8	10	3.18	0.4	
	TCEX13T302E-FR	●	●						●	●					7.94	13.4	3.97	0.2	
	★ TCEX13T304E-FR	●	●						●	●					7.94	13.4	3.97	0.4	
	TCEX13T302E-AR	●	●												7.94	13.4	3.97	0.2	
	TCEX13T304E-AR	●	●												7.94	13.4	3.97	0.4	
	NEW TCEX13T304E-MR			●											7.94	13.4	3.97	0.4	
	NEW TCEX13T304E-CR			●											7.94	13.4	3.97	0.4	
	TCEX16T304E-FR	●	●						●	●					9.52	16.5	3.97	0.4	
	★ TCEX16T308E-FR	●	●						●	●					9.52	16.5	3.97	0.8	
	TCMX16T304E-AR	●	●												9.52	16.5	3.97	0.4	
	TCMX16T308E-AR	●	●												9.52	16.5	3.97	0.8	
	NEW TCEX16T308E-MR			●											9.52	16.5	3.97	0.8	

- MR 鈦合金專用 MR: Applicable to Titanium - CR 鑽床倒角刀專用 CR: Applicable to Deburring And Chamfering Cutter
★ 推薦 Recommended NEW 新品 New Product

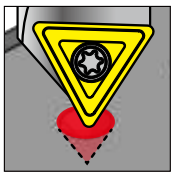
-TC..10/TC..13，02R 角刀片為「倒角功能」專用
-TC..16，04 刀片為「倒角功能」專用

- TC..10/TC..13 → 02 radius can only use for chamfering.
- TC..16 → 04 radius can only use for chamfering.

- 規格末編碼帶 FR 刀片為銳角刀片 Suffix FR model designates a sharp cutting edge.insert.

• 長度單位 Unit of Length (mm)

TC_10.13.16 切削條件數據表 Cutting Parameter

加工型態 Processing Type	被加工材質 Machining Materials		刀片材質 Materials	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切深 Ap(mm)
	P	低合金鋼 Low-Alloy Steels	OM4010	220~290	0.05~0.12	1.0~11.0
			OM4025	220~260	0.03~0.06	0.5~3.0
		合金鋼 Alloy Steels	OM4010	80~150	0.05~0.12	1.0~11.0
			OM4025	100~150	0.03~0.06	0.5~3.0
	M	不鏽鋼 Stainless Steels	OM4010	90~200	0.05~0.12	1.0~11.0
			OM4025	90~180	0.01~0.05	0.5~3.0
	K	鑄鐵 Cast Iron	OM4025	70~130	0.05~0.12	1.0~11.0
	N	鋁合金 Aluminum&Al	OM5005	400~2000	0.06~0.08	0.5~3.0

加工型態 Processing Type	被加工材質 Machining Materials		刀片材質 Materials	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切深 Ap(mm)
	P	低合金鋼 Low-Alloy Steels	OM4010	220~290	0.01~0.03	0.05~1.0
			OM4025	220~260	0.01~0.03	0.05~1.0
		合金鋼 Alloy Steels	OM4010	80~150	0.01~0.03	0.05~1.0
			OM4025	100~150	0.01~0.03	0.05~1.0
	M	不鏽鋼 Stainless Steels	OM4010	90~200	0.01~0.03	0.05~1.0
			OM4025	90~180	0.01~0.03	0.05~1.0
	K	鑄鐵 Cast Iron	OM4025	70~130	0.03~0.06	0.05~2.0
	N	鋁合金 Aluminum&Al	OM5005	400~2000	0.03~0.06	0.05~3.0

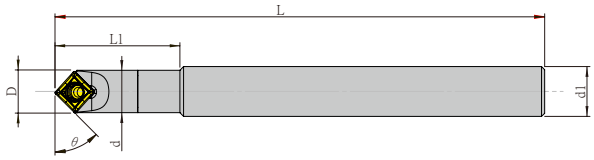
加工型態 Processing Type	被加工材質 Machining Materials		刀片材質 Materials	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切深 Ap(mm)
	P	低合金鋼 Low-Alloy Steels	OM4010	220~290	0.03~0.06	1.3~3.0
			OM4025	220~290	0.03~0.06	0.1~3.0
		合金鋼 Alloy Steels	OM4010	100~120	0.03~0.06	0.1~3.0
			OM4025	100~150	0.03~0.06	1.3~3.0
	M	不鏽鋼 Stainless Steels	OM4010	90~160	0.03~0.06	0.1~3.0
			OM4025	140~160	0.03~0.06	0.1~3.0
	K	鑄鐵 Cast Iron	OM4025	70~160	0.05~0.08	0.1~5.0
	N	鋁合金 Aluminum&Al	OM5005	400~1200	0.05~0.1	0.1~6.0

加工型態 Processing Type	被加工材質 Machining Materials		刀片材質 Materials	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切深 Ap(mm)
	P	低合金鋼 Low-Alloy Steels	OM4010	220~290	0.05~0.12	1.0~11.0
			OM4025	220~260	0.05~0.12	0.5~3.0
		合金鋼 Alloy Steels	OM4010	100~150	0.03~0.1	1.0~11.0
			OM4025	100~150	0.03~0.1	0.5~3.0
	M	不鏽鋼 Stainless Steels	OM4010	90~180	0.05~0.12	1.0~11.0
			OM4025	140~180	0.03~0.06	0.5~3.0
	K	鑄鐵 Cast Iron	OM4025	70~120	0.05~0.12	1.0~11.0
	N	鋁合金 Aluminum&Al	OM5005	400~750	0.05~0.12	0.5~3.0

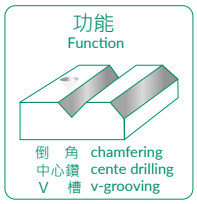
• 長度單位 Unit of Length (mm)

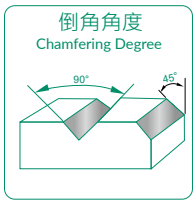
MSP 小徑倒角刀
MSP MINI-CHAMFERING END MILL

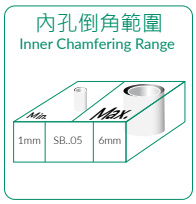
KOVIT

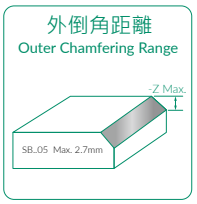


NEW









特點 Feature

- 尺寸小，減少干涉

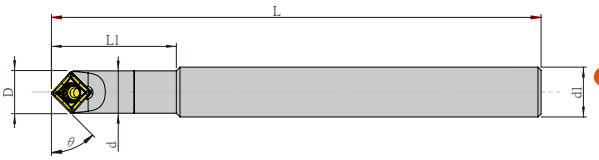
- The slim design reduces interference while machining.

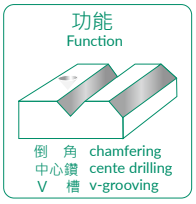
規格 Spec.	D	d1	d	L1	L	θ	刃數 T	刀片 Insert	螺絲 Screw	扳手
MSP-0708-80L-SB05	7.2	8	6.8	20	80	45	1	SBGT050202	M2-4.3-2.7-60-T6-TIN	T6

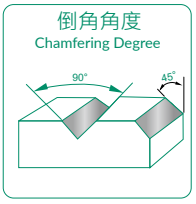
CMSP 碳化鎢鋼小徑倒角刀
CMSP CARBIDE STEEL MINI-CHAMFERING END MILL

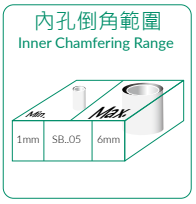
KOVIT

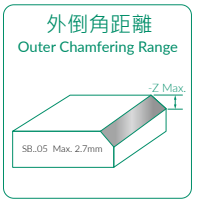
NEW











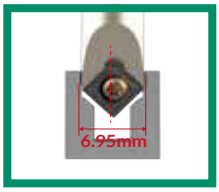
特點 Feature

- 尺寸小，減少干涉
- 使用碳化鎢鋼材質，增加剛性

- The slim design reduces interference while machining.
- Made of tungsten carbide material for higher rigidity.

規格 Spec.	D	d1	d	L1	L	θ	刃數 T	刀片 Insert	螺絲 Screw	扳手 Wrench
CMSP-0708-100L-SB05	7.2	8	6.8	20	100	45	1	SBGT050202	M2-4.3-2.7-60-T6-TIN	T6

範例 Example



定位鑽
Spot Drilling

倒角
Chamfering

刻字
Caring/Engraving

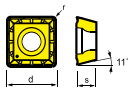
V 槽切削
V-Grooving

• 長度單位 Unit of Length (mm)

MSP 小徑倒角刀
MSP MINI-CHAMFERING END MILL

KOVIT

ISO 分類														切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	P	合金鋼 Alloyed Steels	○	○										
	M	不鏽鋼 Stainless Steels		○										
	K	鑄鐵 Cast Iron		○										
	N	鋁及鋁合金 Aluminum&Al								■				
	S	高溫合金 Refractory Alloys												
	H	高硬度材 Hard Material												

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain							超微粒硬質合金 Micro grain cemented carbide				尺寸 (mm)				圖形 Drawing
		CHF							HF				Size				
		OM4025	OM4125						OM5005				d	i	s	r	
	NEW SBGT050202-F01	●	●						●				4.85	-	2	0.2	

NEW 新品 New Product

SP_05 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	進給率 (mm/rev) ø13-ø15
P	低合金鋼 Low-Alloy Steels	OM4025	100~150	0.03~0.06
	合金鋼 Alloyed Steels	RM4125	100~150	0.03~0.06
M	不鏽鋼 Stainless Steels	OM4125	90~150	0.01~0.05
K	鑄鐵 Cast Iron	OM4025	70~130	0.05~0.10
		OM4125	70~130	0.05~0.10

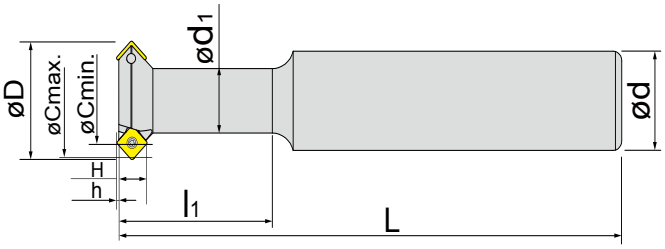
主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑)
Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速
Feeding Speed(mm/min)= Feed per Flute× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

M405 內外倒角刀
M405 INNER-OUTER CHAMFER MILLING CUTTER

KOVIT



特點 Feature

- 多刃數的設計可增加進給率
- 倒角時，較不易起毛邊，並可作上下倒角加工

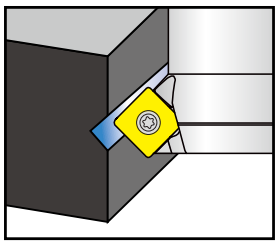
- Multi edges for high feeding speed and extended insert life.
- Free of burrs when chamfering. Available for inner and outer chamfering.

規格 Spec.	L	l1	ØD	Ød	Ød1	ØC		H	h	角度 Angle	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
						Min.	Max.						
M405SP0545-091512-120-2T	120	20	15.7	12	8	9.9	15.3	6.57	0.12	45°	2	SP..0502	0.14
M405SP0545-131916-150-3T	150	30	19.7	16	12.8	13.6	19.3	6.66	0.12	45°	3	SP..0502	0.26
M405SP0545-172320-150-4T	150	35	23.7	20	13	17.7	23.3	5.98	0.12	45°	4	SP..0502	0.36
M405SP0745-202920-150-3T	150	40	29.9	20	17.2	20.3	29.6	10.4	0.15	45°	3	SP..07T3	0.38
M405SP0745-273625-150-3T	150	40	36.9	25	20	27.5	36.3	10.1	0.2	45°	3	SP..07T3	0.58
M405SP0745-344325-150-4T	150	40	43.9	25	20	34.5	43.5	10.1	0.2	45°	4	SP..07T3	0.60
M405SP0745-415025-150-4T	150	40	50.9	25	20	41.2	50.3	10.4	0.12	45°	4	SP..07T3	0.66

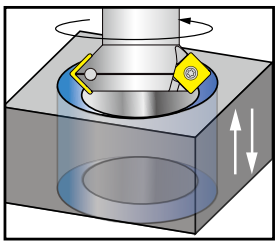
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SP..0502	M2-4.3-2.7-60-T6-TIN	T6	0.6
SP..07T3	M2.5-6.33-3.5-48-T8-TIN	T8	1.2

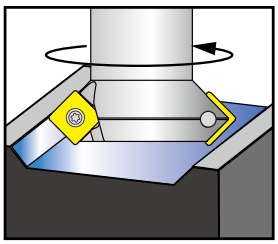
範例 Example



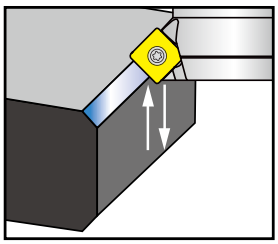
V 槽加工
V-Grooving



上下孔倒角加工
Hole Chamfering



凹槽加工
Pocket Machining



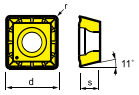
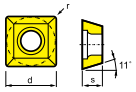
上下外邊倒角加工
Inner Chamfering

• 長度單位 Unit of Length (mm)

M405 內外倒角刀
M405 INNER-OUTER CHAMFER MILLING CUTTER

KOVIT

ISO 分類														切削狀態 Cutting Condition :
	P	合金鋼 Alloyed Steels	○											● 連續切削 Continuous Cutting
	M	不鏽鋼 Stainless Steels	○											○ 一般切削 General Cutting
	K	鑄鐵 Cast Iron	○	○	○									■ 斷續切削 Interrupted Cutting
	N	鋁及鋁合金 Aluminum&Al								■	■			
	S	高溫合金 Refractory Alloys												
	H	高硬度材 Hard Material												

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain							超微粒硬質合金 Micro grain cemented carbide				尺寸 (mm)				圖形 Drawing
		CHF							HF				Size				
		RM4025	RM4125	RM3130	RM4030				RM5060	OM5005			d	i	s	r	
	SPGT050204-M02				●				●				5	-	2.38	0.4	
	SPGT07T308-M02				●				●				7.94	-	3.97	0.8	
	★ SPMT050204-M03	●		●									5	-	2.38	0.4	
	★ SPMT07T308-M03	●		●									7.94	-	3.97	0.8	

★ 推薦 Recommended NEW 新品 New Product

SP_05.07 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	進給率 (mm/rev)				
				ø13-ø15	ø16-ø22	ø23-ø33	ø34-ø41	ø42-ø50
P	低合金鋼 Low-Alloy Steels	RM4025	180~260	0.06~0.12	0.06~0.10	0.06~0.12	0.12~0.24	0.12~0.25
		RM4030	180~260	0.06~0.12	0.06~0.10	0.06~0.12	0.12~0.24	0.12~0.25
	合金鋼 Alloyed Steels	RM4025	140~200	0.05~0.08	0.08~0.15	0.10~0.18	0.08~0.15	0.10~0.18
		RM4030	140~200	0.05~0.08	0.08~0.15	0.10~0.18	0.08~0.15	0.10~0.18
M	不鏽鋼 Stainless Steels	RM4030	120~180	0.05~0.10	0.06~0.12	0.08~0.15	0.10~0.17	0.12~0.20
K	鑄鐵 Cast Iron	RM3130	120~180	0.05~0.10	0.06~0.12	0.08~0.15	0.10~0.17	0.12~0.20
N	鋁合金 Aluminum&Al	RM5060	338~380	0.06~0.14	0.08~0.18	0.12~0.22	0.14~0.25	0.14~0.28

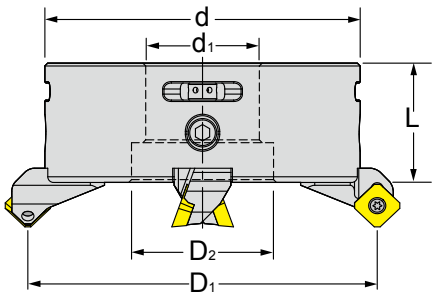
主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑)
Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).

床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速
Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

ACM 鋁合金替換式刀頭
ACM ALUMINUM CHANGEABLE MILLING CUTTER

PAT.NO: M373784
ZL 200920267811.2



特點 Feature

- 刀具結合方式採取內包覆式，可降低切削高速迴轉所產生的風阻現象，進而提高切削效率
- 刀具與刀頭定位方式為方型緊配，利於刀具定位
- 利用精密電腦程式計算使其輕量化，減少刀具與刀頭重量
- 刀頭材料採用特殊鋁合金，可提高剛性

- Insert-embedded design reduce wind resistance, improve cutting efficiency.
- Close fit between insert holder and cutter. Insert holder can be well positioned.
- Light weight, reduced weight on insert holder and cutter.
- Made of specific aluminum alloy, enhanced high rigidity.

規格 Spec.	L	D1	D2	d	d1	刃數 Flutes 標準 Standard	刃數 Flutes 選配 Option	刀座 Insert Seat	螺絲 Screw	淨量 (KGS) Weight	重量 (KGS) Weight
ACM-80-FMB22-S	42	80	18	66	22	4	-		SH-M6-20	0.62	2.60
ACM-80-FMA25.4-S	42	80	20	66	25.4	4	-		SH-M6-20	0.64	2.90
ACM-100-FMB22-S	42	100	18	86	22	4	-		SH-M6-25	-	2.86
ACM-100-FMA25.4-S	42	100	20	86	25.4	4	-		SH-M6-25	0.90	2.80
ACM-125-FMB32-S	42	125	42	111	32	4	-		SH-M6-25	-	3.62
ACM-125-FMA31.75-S	42	125	42	111	31.75	4	-		SH-M6-25	1.16	3.15
ACM-160-FMB40-S	42	160	50	146	40	4	4		SH-M6-25	1.74	3.79
ACM-160-FMA38.1-S	42	160	46	146	38.1	4	4	ACM-SE12	SH-M6-25	1.76	3.60
ACM-200-FS60F-S	45	200	60	186	60	4	4	ACM-AP16	SH-M6-25	2.52	6.62
ACM-200-FMA38.1-S	45	200	48	186	38.1	4	4	ACM-RP12	SH-M6-25	2.50	7.03
ACM-200-FMA47.625-S	45	200	47.625	186	47.625	4	4	ACM-SE12T3	SH-M6-25	2.56	6.44
ACM-250-FS60F-S	47	250	60	236	60	4	8		SH-M6-25	3.86	8.40
ACM-250-FMA38.1-S	47	250	48	236	38.1	4	8		SH-M6-25	4.06	8.26
ACM-250-FMA47.625-S	47	250	47.625	236	47.625	4	8		SH-M6-25	4.00	7.92
ACM-315-FS60F-S	47	315	60	301	60	4	12		SH-M6-25	6.32	10.35
ACM-315-FMA38.1-S	47	315	48	301	38.1	4	12		SH-M6-25	-	10.24
ACM-315-FMA47.625-S	47	315	47.625	301	47.62	4	12		SH-M6-25	6.32	10.80
ACM-400-FMA47.625	47	400	47.625	386	47.625	4	12		SH-M6-25	10.10	21.76

● S- 為雙微調 S: dual micro-adjustment

配件表 Accessories

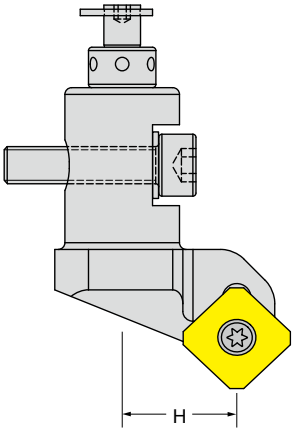
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SE..1204 SE..12T3 AP..1604 RP..1204	SH-M6-20	P5	6.0
	SH-M6-25	P5	6.0

• 長度單位 Unit of Length (mm)

ACM 鋁合金替換式刀座
ACM ALUMINUM CHANGEABLE INSERT SEAT

PAT.NO: M366440
ZL 200920155950.6

KOVIT



卡式刀座 Cartridges

規格 Spec.	H	刀片 Insert	重量 (KGS) Weight
ACM-SE12-S	-	SE..1204	0.11
ACM-SE12-A-S	-3	SE..1204	0.11
ACM-SE12-B-S	+3	SE..1204	0.11
ACM-SE12-C-S	-2	SE..1204	0.11
ACM-SE12-D-S	+2	SE..1204	0.11
ACM-SE12-E-S	-1	SE..1204	0.11
ACM-SE12-F-S	+1	SE..1204	0.11
ACM-SE12-L-S(左旋)	-	SE..1204	0.11
ACM-AP16-S	-	AP..1604	0.13
ACM-RP12-S	-	RP..1204	0.13
ACM-SE12T3-S	-	SE..12T3	-

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SE..1204	M5-11-7.0-55	T20	5.0
AP..1604	M4-10-5.7-60	T15	3.0
RP..1204	M4-10-5.0-43	T15	3.0
SE..12T3	M3.5-11.7-5.3-60	T15	3.0

標準配件 Standard package

圖示 Fig.							
名稱 Name	調整螺絲 Adjust Screw	側固螺絲 Fixed Screw	G 型扣環 G-Type Ring	墊片 Shim	調整扳手 Adjust Wrench	PL 型扳手 PL-Type Wrench	PL 型扳手 PL-Type Wrench
規格 Spec.	AD-M6	M6-20	GTW-6.7	W-0.5	ADW-2	PL3	PL5
功能 Function	調整刀具高度 Adjust cutter height	鎖固卡式刀座 Fix cartridge	固定調整螺絲 Fix adjust screw	迫緊螺絲 Fasten screw	調整卡式刀座 Adjust cartridge	調整卡式刀座 Adjust cartridge	鎖固扳手 Fasten

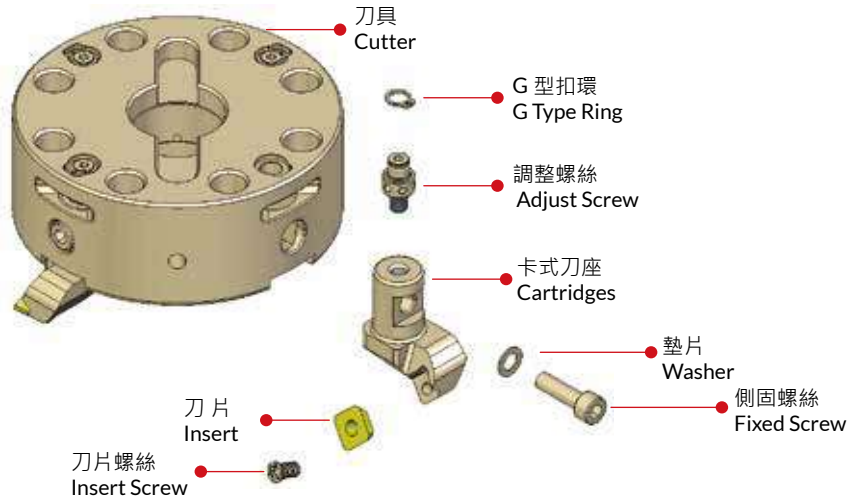
選配特別附件 Optional

圖示 Fig.	
名稱 Name	彈簧鉗 Spring Pliers
規格 Spec.	F-26
功能 Function	安裝 G 型扣環 Assemble G Type Ring

• 長度單位 Unit of Length (mm)

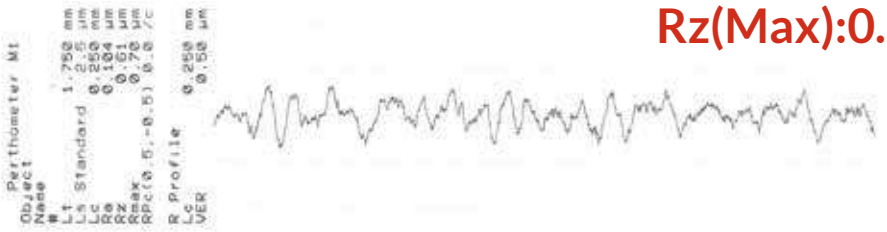
ACM 鋁合金替換式刀頭
ACM ALUMINUM CHANGEABLE MILLING CUTTER

KOVIT



範例 Example

加工型態：	精加工切削
加工機械：	立式 M/C
錐度種類：	BT40
加工材料：	si10~si12% 鋁合金
刀具規格：	ACM125-FMA31.75
刀片材質：	SEET1204AFFN-F01 PMG
線速度：	V=1500m/min
轉速：	S=3800rpm
床檯進給：	F=4000mm/min
每刃進給：	f=0.25rev
切深：	Ap=0.1mm
冷卻方式：	Water



Rz(Max):0.61um Ra0.10um

調整使用說明 Alignment Operation:

以最高刃為基準，將其餘刃微調高度同最高刃，可使切削加工表面粗糙度符合需求。步驟如下：

To let the roughness of machined surface meet the requirement, make a micro-adjustment for each blade at same height.Each step as follows :

1. 用量錶量測每刃高度，以最高刃 為基準，將量錶歸零。Use dial indicator to measure each insert height. Zero the dial indicator at 12 on the basis of the highest insert.

2. 使用 P5 扳手，鬆開其他刃固定螺絲。Use the spanner of P5 to loosen the fixed screw for other insert.

3. 使用調整扳手往 ⊕ 的方向微調高度，若調整刃高過高，則使用調整扳手往 ⊖ 的方向微調高度。Use the spanner to make a micro-adjustment at the direction of ⊕ . If adjust the insert height over then, please adjust at the direction of ⊖

4. 待其刃高同最高刃，使用 P5 扳手鎖緊調整螺絲，須再量測一次刃高，查看量錶指針是否指向零，若指針沒有指向零，則重覆上述動作。
When all inserts are at the same height, use the spanner of P5 to lock tightenly the screws. After that, measure again each insert height. And check if the dial indicator is zero. If no, please repeat above action.

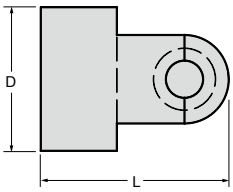
5. 待刃高皆同高時，則調整完畢。
Each blade at the same height represents the alignment is ok.

▲ 鋁合金替換式刀頭除了在側邊調整外，也可在上面進行調整，若刀具已上主軸，可不用將刀具從主軸拆卸，即可檢測調整。
Except for side-alignment,you can also adjust from the top. No need to disassemble the cutter head from the machine spindle, just check the each insert.

• 長度單位 Unit of Length (mm)

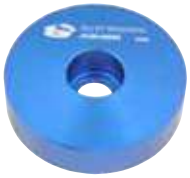
ACM 鋁合金替換式刀頭
ACM ALUMINUM CHANGEABLE MILLING CUTTER

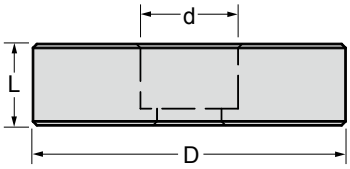
KOVIT



ACM 轉換鍵 Conversion Key

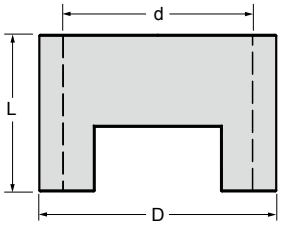
規格 Spec.	L	D	重量 (KGS) Weight
ACM-16.1-25.4	33.35	25.4	0.11





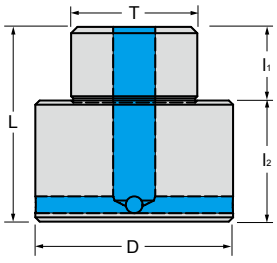
ACM 鋁合金墊圈 Aluminum Washers

規格 Spec.	L	D	d	重量 (KGS) Weight
ACM-AW80	20.5	80	25	0.25



ACM 轉換套 Conversion Kits

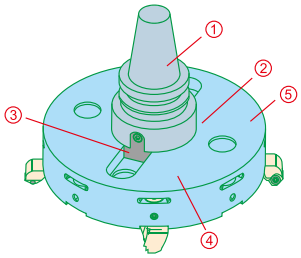
規格 Spec.	L	D	d	重量 (KGS) Weight
ACM-38.1-47.625	31.5	47.625	38.1	0.04



ACM 給水螺帽 Water Screw

規格 Spec.	L	l_1	l_2	D	T	重量 (KGS) Weight
ACM-WS47	46.4	18	29	47	M24-2.0	0.3

ACM 組合圖 Assembly Drawing

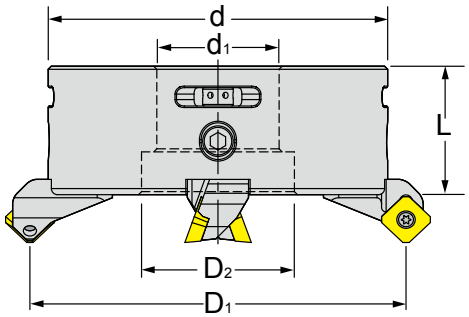


NO	零件 Part
1	BT40-FMA38.10-60
2	ACM-38.1-47.625
3	ACM-16.1-25.4
4	ACM-AW80
5	ACM-250-FMA47.625

• 長度單位 Unit of Length (mm)

SCM 合金鋼替換式刀頭
SCM ALLOY STEEL CHANGEABLE MILLING CUTTER

KOVIT



特點 Feature

- 刀具結合方式採取內包覆式，可降低切削高速迴轉所產生的風阻現象，進而提高切削效率
- 刀具與刀頭定位方式為方型緊配，利於刀具定位
- 利用精密電腦程式計算，減少刀具與刀頭重量輕量化
- 刀頭材料採用特殊合金鋼，可提高剛性

- Insert-embedded design, wind resistance can be reduced.
- Close fit between cartridge and cutter. Cartridge can be well positioned.
- Light weight, reduced weight on cartridge and cutter.
- Cutters are made of specific alloy steel, high rigidity.

規格 Spec.	L	D_1	D_2	d	d_1	刃數 Flutes 標準 Standard	刃數 Flutes 選配 Option	刀座 Insert Seat	螺絲 Screw	淨量 (KGS) Weight	重量 (KGS) Weight
SCM-80-FMB22-S	42	80	18	66	22	4	-	ACM-SE12 ACM-AP16 ACM-RP12	SH-M6-20	1.06	2.96
SCM-80-FMA25.4-S	42	80	20	66	25.4	4	-		SH-M6-20	1.02	3.00
SCM-100-FMB22-S	42	100	18	86	22	4	-		SH-M6-25	1.76	3.72
SCM-100-FMA25.4-S	42	100	20	86	25.4	4	-		SH-M6-25	1.74	4.15
SCM-125-FMB32-S	42	125	42	111	32	4	-		SH-M6-25	2.60	4.56
SCM-125-FMA31.75-S	42	125	42	111	31.75	4	-		SH-M6-25	2.52	4.86
SCM-160-FMB40-S	42	160	50	146	40	4	4		SH-M6-25	4.12	6.09
SCM-160-FMA38.1-S	42	160	46	146	38.1	4	4		SH-M6-25	4.20	6.45
SCM-200-FS60F-S	45	200	60	186	60	4	4		SH-M6-25	6.06	10.50
SCM-200-FMA38.1-S	45	200	48	186	38.1	4	4		SH-M6-25	6.46	10.40
SCM-200-FMA47.625-S	45	200	47.625	186	47.625	4	4		SH-M6-25	6.43	14.60
SCM-250-FS60F-S	47	250	60	236	60	4	8		SH-M6-25	10.54	14.50
SCM-250-FMA38.1-S	47	250	48	236	38.1	4	8		SH-M6-25	10.98	14.70
SCM-250-FMA47.625-S	47	250	47.625	236	47.625	4	8		SH-M6-25	10.70	14.66

● S- 為雙微調 S: dual micro-adjustment

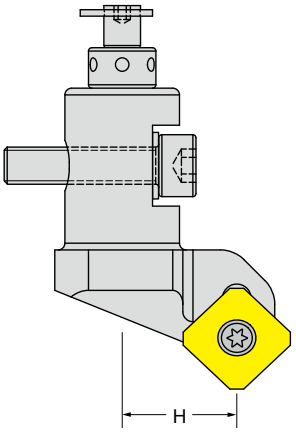
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SE..1204 SE..12T3 AP..1604 RP..1204	SH-M6-20	P5	6.0
	SH-M6-25	P5	6.0

• 長度單位 Unit of Length (mm)

SCM 合金鋼替換式刀頭
SCM ALLOY STEEL CHANGEABLE MILLING CUTTER

KOVIT



卡式刀座 Cartridges

	規格 Spec.	H	刀片 Insert	重量 (KGS) Weight
	ACM-SE12-S	-	SE..1204	0.11
●	ACM-SE12-A-S	-3	SE..1204	0.11
●	ACM-SE12-B-S	+3	SE..1204	0.11
●	ACM-SE12-C-S	-2	SE..1204	0.11
●	ACM-SE12-D-S	+2	SE..1204	0.11
●	ACM-SE12-E-S	-1	SE..1204	0.11
●	ACM-SE12-F-S	+1	SE..1204	0.11
	ACM-SE12-L-S(左旋)	-	SE..1204	0.11
	ACM-AP16-S	-	AP..1604	0.13
	ACM-RP12-S	-	RP..1204	0.13
●	ACM-SE12T3-S	-	SE..12T3	-

● - 按訂單生產 -produced order by order.

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SE..1204	M5-11-7.0-55	T20	5.0
AP..1604	M4-10-5.7-60	T15	3.0
RP..1204	M4-10-5.0-43	T15	3.0
SE..12T3	M3.5-11.7-5.3-60	T15	3.0

標準配件 Standard package

圖示 Fig.								圖示 Fig.	
名稱 Name	調整螺絲 Adjust Screw	側固螺絲 Fixed Screw	G 型扣環 G-Type Ring	墊片 Shim	調整扳手 Adjust Wrench	PL 型扳手 PL-Type Wrench	PL 型扳手 PL-Type Wrench	名稱 Name	彈簧鉗 Spring Pliers
規格 Spec.	AD-M6	M6-20	GTW-6.7	W-0.5	ADW-2	PL3	PL5	規格 Spec.	F-26
功能 Function	調整刀具高度 Adjust cutter height	鎖固卡式刀座 Fix cartridge	固定調整螺絲 Fix adjust screw	迫緊螺絲 Fasten screw	調整卡式刀座 Adjust cartridge	調整卡式刀座 Adjust cartridge	鎖固扳手 Fasten	功能 Function	安裝 G 型扣環 Assemble G Type Ring

選配特別附件 Optional

• 長度單位 Unit of Length (mm)

SCM 合金鋼替換式刀頭
SCM ALLOY STEEL CHANGEABLE MILLING CUTTER

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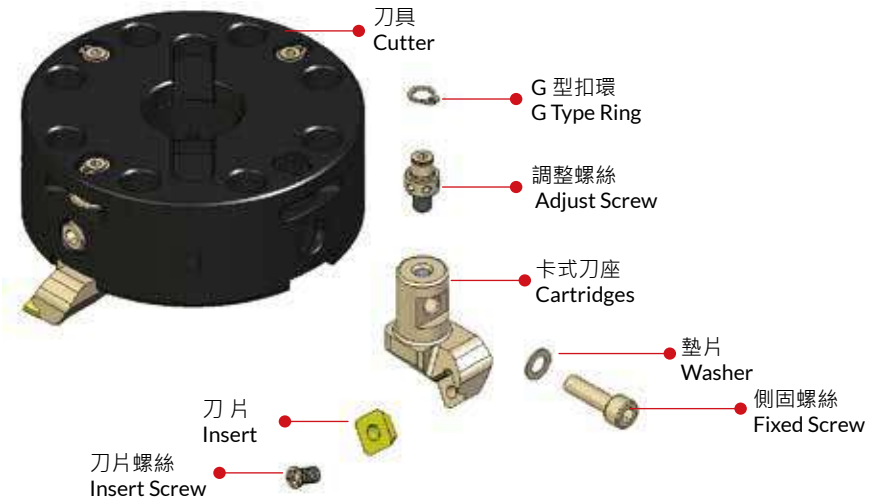


調整使用說明 Alignment Operation:

以最高刃為基準，將其餘刃微調高度同最高刃，可使切削加工表面粗糙度符合需求。步驟如下：

To let the roughness of machined surface meet the requirement, make a micro-adjustment for each blade at same height.Each step as follows :

1. 用量錶量測每刃高度，以最高刃為基準，將量錶歸零。Use dial indicator to measure each insert height. Zero the dial indicator at 12 on the basis of the highest insert.

2. 使用 P5 扳手，鬆開其他刃固定螺絲。Use the spanner of P5 to loosen the fixed screw for other insert.

3. 使用調整扳手往 ⊕ 的方向微調高度，若調整刃高過高，則使用調整扳手往 ⊖ 的方向微調高度。Use the spanner to make a micro-adjustment at the direction of ⊕ . If adjust the insert height over then, please adjust at the direction of ⊖

4. 待其刃高同最高刃，使用 P5 扳手鎖緊調整螺絲，須再量測一次刃高，查看量錶指針是否指向零，若指針沒有指向零，則重覆上述動作。
When all inserts are at the same height, use the spanner of P5 to lock tightenly the screws. After that, measure again each insert height. And check if the dial indicator is zero. If no, please repeat above action.

5. 待刃高皆同高時，則調整完畢。
Each blade at the same height represents the alignment is ok.

▲ 合金鋼替換式刀頭除了在側邊調整外，也可在上面進行調整，若刀具已上主軸，可不用將刀具從主軸拆卸，即可檢測調整。
Except for side-alignment,you can also adjust from the top. No need to disassemble the cutter head from the machine spindle, just check the each insert.

• 長度單位 Unit of Length (mm)

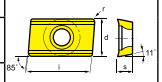
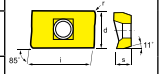
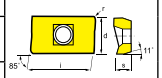
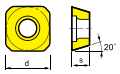
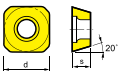
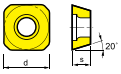
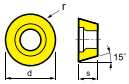
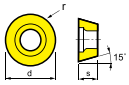
ACM 鋁合金 &SCM 合金鋼替換式刀頭
ACM ALUMINUM & SCM ALLOY STEEL CHANGEABLE MILLING CUTTER

KOVIT

ISO 分類													
P	合金鋼 Alloyed Steels				○								
M	不鏽鋼 Stainless Steels				○								
K	鑄鐵 Cast Iron												
N	鋁及鋁合金 Aluminum&Al	○	●	■				■	■	○	○	■	
S	高溫合金 Refractory Alloys												
H	高硬度材 Hard Material												

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	聚晶鑽石 Polycrystalline diamond			鍍層硬質合金 Carbide alloy			超硬微粒 Ultra-hard microprogram					尺寸 (mm) Size				圖形 Drawing
		DP			HC			HF									
		PCD	PCD020	PCD100	OM2115			GH1	GH05	OM5005	OM5060	RM5005	d	i	s	r	
	APEX1604PDFR-701								●				9.525	16.4	4.76	0.2	
	APEX1604PDFR-F01									●	●		9.525	16.4	4.76	-	
	APEX160400PDFR-F01									●	●		9.525	16.4	4.76	-	
	APEX160404PDFR-F01									●	●		9.525	16.4	4.76	0.4	
	APEX160408PDFR-F01									●	●		9.525	16.4	4.76	0.8	
	APGW160404PDFR-F01		●	●									9.525	16.5	4.76	-	
	APGW1604PDFR-F01		●	●									9.525	16.5	4.76	-	
	SEET13T3AGFN-F01											●	13.4	-	3.97	2.55	
	SEHT1204AFFN							●			●		12.7	-	4.76	-	
	SEGW120404AFFN-F01		●	●									12.7	-	4.76	-	
	SEGW1204AFFN-F01		●	●									12.7	-	4.76	-	
	RPET1204MOE-M01									●			12	-	4.76	6	
	RDMT1204MO-M01				●								12	-	4.76	6	

• 長度單位 Unit of Length (mm)

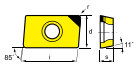
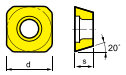
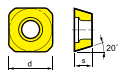
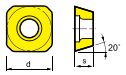
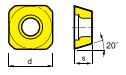
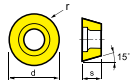
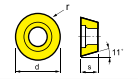
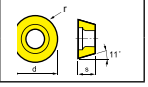
ACM 鋁合金 &SCM 合金鋼替換式刀頭
ACM ALUMINUM & SCM ALLOY STEEL CHANGEABLE MILLING CUTTER

KOVIT

ISO 分類												
	P	合金鋼 Alloyed Steels			○	○	○	○	○		●	○
	M	不鏽鋼 Stainless Steels			○	○	○	○	○	○		○
	K	鑄鐵 Cast Iron		○	○	○		○				
	N	鋁及鋁合金 Aluminum&Al										
	S	高溫合金 Refractory Alloys										
	H	高硬度材 Hard Material	●		○							

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	氮化硼 BN		鍍層超微粒 Layer coating ultra-micro						瓷金 Cermet	鍍層硬質合 Carbide alloy	尺寸 (mm)				圖形 Drawing
		BN		CHF						HF	HC	Size				
		CBN250	CBN500	OM4010	OM4025	RM2140	RM4125	RM4130	OM4230	OM1205	OM2115	d	i	s	r	
	APGW1604PDER	●										9.525	16.5	4.76	-	
	APGW1604PDFR	●										9.525	16.5	4.76	-	
	APGW1604PDTR	●										9.525	16.5	4.76	-	
	APGW1604PDSR	●										9.525	16.5	4.76	-	
	SEGW1204AFSN	●										12.7	-	4.76	-	
	SEGW1204AFTN	●										12.7	-	4.76	-	
	SEGW1204AFEN	●										12.7	-	4.76	-	
	SEGW1204AFFN	●										12.7	-	4.76	-	
	★ SEHT1204AFEN-M01			●	●							12.7	-	4.76	Facet	
	SEHT1204AFFN-M02								●			12.7	-	4.76	Facet	
	SEKW1204AFN				●					●		12.7	-	4.76	-	
	SEMT13T3AGEN-M02					●	●									
	RPET1204MOE-M01			●	●							12	-	4.76	6	
	RPMT1204MO-M01										●	12	-	4.76	6	
	RPMT1204MON							●				12	-	4.76	6	

★ 推薦 Recommended

• 長度單位 Unit of Length (mm)

ACM 鋁合金 &SCM 合金鋼替換式刀頭
ACM ALUMINUM & SCM ALLOY STEEL CHANGEABLE MILLING CUTTER

KOVIT

AP_16 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切深 Ap(mm)
P	低合金鋼 Low-Alloy Steels	OM4025	120~300	0.15~0.40	3.0~8.0
		OM4025N	120~300	0.15~0.40	3.0~8.0
		RM4130	60~300	0.10~0.25	3.0~8.0
	合金鋼 Alloyed Steels	OM4025	80~180	0.15~0.35	3.0~8.0
		RM4130	60~300	0.10~0.25	3.0~8.0
M	不鏽鋼 Stainless Steels	OM4025	120~160	0.15~0.35	3.0~8.0
		RM4130	120~160	0.10~0.25	3.0~8.0
K	鑄鐵 Cast Iron	OM4025	160~250	0.15~0.30	3.0~8.0
		RM3130	160~250	0.15~0.30	3.0~8.0
N	鋁合金 Aluminum&Al	OM5005	400~1000	0.04~0.20	3.0~8.0
		OM5060	400~1000	0.04~0.20	3.0~8.0
		RM5005	400~1000	0.04~0.20	3.0~8.0
		GH05	300~800	0.04~0.20	3.0~8.0
		PCD100	1200~2000	0.04~0.20	0.5~1.0
S	高溫合金 Refractory Alloys	RM535	20~40	0.10~0.20	1.0~3.0

SE_12 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切深 Ap(mm)
P	低合金鋼 Low-Alloy Steels	OM4010	260~320	0.20~0.45	1.0~3.0
		OM4025	220~260	0.20~0.45	1.0~3.0
		RM4025	220~260	0.20~0.45	1.0~3.0
	合金鋼 Alloyed Steels	OM1205	100~195	0.05~0.15	1.0~2.0
		OM4010	130~250	0.20~0.35	1.0~3.0
		OM4025	100~195	0.20~0.35	1.0~3.0
		RM4025	100~195	0.20~0.35	1.0~3.0
M	不鏽鋼 Stainless Steels	OM4010	180~220	0.10~0.30	1.0~2.0
		OM4025	140~180	0.10~0.30	1.0~2.0
	析出硬化系 Precipitation-Hardening	OM4010	90~120	0.15~0.20	0.2~1.0
		OM4025	70~85	0.15~0.20	0.2~1.0
K	鑄鐵 Cast Iron	OM4010	160~300	0.12~0.35	1.0~3.0
		OM4025	180~300	0.15~0.35	1.0~3.0
		CBN500	700~1500	0.06~0.10	0.1~0.2
N	鋁合金 Aluminum&Al	OM5060	500~850	0.15~0.35	3.6~6.0
		GH1	275~450	0.15~0.35	3.0~6.0
		PCD100	1000~2000	0.06~0.10	0.05~0.1
S	高溫合金 Refractory Alloys	CBN250	700~1500	0.05~0.10	0.10~0.50

• 長度單位 Unit of Length (mm)

RP_12 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切深 Ap(mm)
P	低合金鋼 Low-Alloy Steels	OM4010	220~300	0.08~0.16	0.1~6.0
		OM4025	180~220	0.08~0.16	0.1~6.0
		RM4130	200~240	0.08~0.16	0.1~6.0
	合金鋼 Alloyed Steel	OM4010	100~200	0.08~0.16	0.1~6.0
		OM4025	120~140	0.08~0.16	0.1~6.0
		RM4130	140~160	0.08~0.16	0.1~6.0
M	不鏽鋼 Stainless Steels	OM4010	80~140	0.08~0.14	0.1~3.0
		RM4130	100~140	0.08~0.14	0.1~3.0
K	鑄鐵 Cast Iron	OM4025	220~350	0.08~0.25	0.1~6.0
N	鋁合金 Aluminum&Al	OM5005	700~1000	0.06~0.12	0.1~6.0

主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑)
Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).
床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速
Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

HCMII 鋁合金密齒型銑刀頭

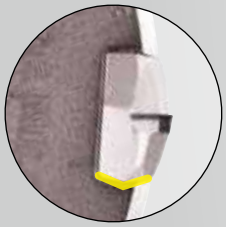
HCMII ALUMINUM CHANGEABLE MILLING CUTTER

Feature

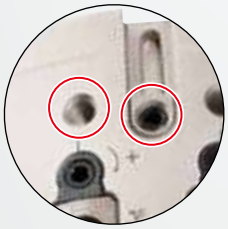
台灣精品 2018
TAIWAN EXCELLENCE

- 輕量化鋁合金本體
  Light-weight aluminum body.
- 刀座V槽定位設計，讓加工更穩定
  V-groove positioning for superior stability.
- 軸向動平衡及出水結構設計
  Axial dynamic balance and through-hole coolant system.
- 可進行μ級調整
  Adjustable for micrometer.

Aluminum



刀座V槽定位設計，可避免高速切削下所產生的震動，讓加工更穩定
V-groove positioning provide superior stability.



利用移動槽中的質量以改變質量所在的平面，藉以減少刀桿與刀頭結合處的力矩，提升刀頭動平衡等級
Special radial and axial dynamic balance adjustments for improving the cutter's dynamic balance.

利用雙圓形的設計，有效吸收刀具切削時所產生的後推力，讓加工表面粗糙度更加細緻
Adjustable wedge with circular arc design provide better surface finish.

ECO Friendly

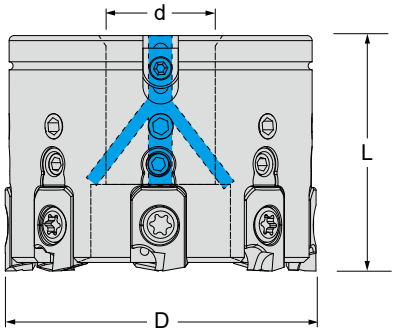
免研磨 達鏡面 重環保 愛地球
Grind free Reach mirror Environmental & earth protection

Milling Cutter

HCM 鋁合金密齒型替換式刀頭
HCM ALUMINUM CHANGEABLE MILLING CUTTER

TW PAT. NO: I573644
CN PAT. NO: ZL 201610285384.5

台灣精品 2018 TAIWAN EXCELLENCE



特點 Feature

- 輕量化鋁合金本體
- 刀座 V 槽定位設計，讓加工更穩定
- 可進行 μ 級調整
- 軸向動平衡及出水結構設計

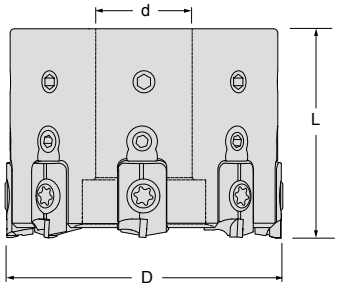
-Lightweight aluminum body.
-V- groove positioning design and results to stable process.
-μ grade can be adjusted.
-Axial dynamic balance and through-tool coolant system.

規格 Spec.	D	L	d	刃數 T	建議最高轉速 Spindle speed n max	淨重 (KGS) Weight	重量 (KGS) Weight
HCM-50-FMB16-6T-AB-C	50	48	16	6	max. 33000rpm	0.20	1.26
HCM-63-FMB22-8T-AB-C	63	48	22	8	max. 33000rpm	0.30	1.40
HCM-80-FMB27-10T-AB-C	80	50	27	10	max. 33000rpm	0.48	1.60
HCM-100-FMB32-14T-AB-C	100	50	32	14	max. 29500rpm	0.81	2.02
HCM-125-FMB40-18T-AB-C	125	63	40	18	max. 25500rpm	1.88	3.68

HCM 鋁合金密齒型替換式刀頭
HCM ALUMINUM CHANGEABLE MILLING CUTTER

TW PAT. NO: M502518
TW PAT. NO: M502519
CN PAT. NO: ZL 2015 2 012 5603.4
CN PAT. NO: ZL 2015 2 012 5605.3
DE PAT. NO: Nr.20 2015 102 712
DE PAT. NO: Nr.20 2015 102 713

台灣精品 2016 TAIWAN EXCELLENCE



特點 Feature

- 輕量化鋁合金本體
- 刀座 V 槽定位設計，讓加工更穩定
- 可進行 μ 級調整

- Lightweight aluminum body.
- V- groove positioning design and results to stable process.
- μ grade can be adjusted.

規格 Spec.	D	L	d	刃數 T	建議最高轉速 Spindle speed n max	淨重 (KGS) Weight	重量 (KGS) Weight
HCM-160-FMB40-24T	160	63	40	24	max. 22200rpm	2.48	6.65
HCM-200-FS60F-28T	200	63	60	28	max. 18100rpm	3.42	7.56
HCM-250-FS60F-36T	250	63	60	36	max. 14500rpm	6.50	10.58
HCM-315-FS60F-46T	315	80	60	46	max. 11500rpm	12.44	16.60
HCM-400-FS60F-58T	400	80	60	58	max. 9000rpm	20.76	28.22

• 長度單位 Unit of Length (mm)

HCM 刀片座
HCM INSERT SEAT

KOVIT

聚晶 PCD

立方氮化硼 CBN

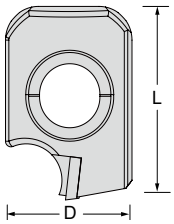


Fig.1

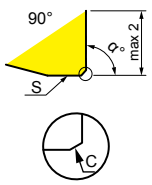


Fig.2

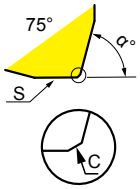
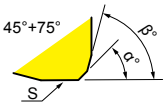


Fig.3

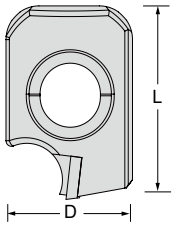


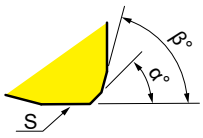
適合刀具 Cutting Tool	規格 Spec.	聚晶鑽石 Polycrystalline Diamond DP			立方氮化硼 CBN CBN			尺寸 (mm) Size						最大切深 Cutting Max. mm	Fig.
		PCD			CBN250			L	D	α°	β°	S	C	AP	
HCM	ACMQ1711PAFR	●			●			17	11	90°	-	1.2	0.15	2	1
	ACMQ1711EAFR	●			●			17	11	75°	-	1.2	0.15	2	2
	ACMQ1711AAFR	●			●			17	11	45°	75°	1.2	-	1.13	3

※ 如有特殊角度需求，請與我司聯繫 If have the special angle need, please contact us.

聚晶 PCD

立方氮化硼 CBN



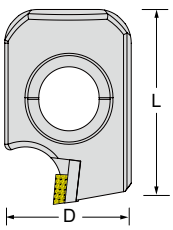


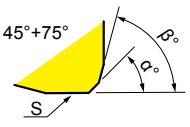
修光刃刀片 Wiper inserts :

適合刀具 Cutting Tool	規格 Spec.	聚晶鑽石 Polycrystalline Diamond DP			立方氮化硼 CBN CBN			尺寸 (mm) Size						最大切深 Cutting Max. mm
		PCD			CBN250			L	D	α°	β°	r	C	AP
HCM	ACMQ1711AAFR-R300	●			●			17	11	45°	75°	300	-	2
	ACMQ1711AAFR-R500	●			●			17	11	45°	75°	500	-	1.13

※ 如有特殊角度需求，請與我司聯繫 If have the special angle need, please contact us.

單晶 MD





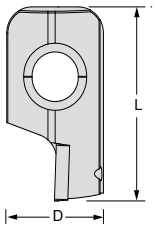
單晶刀片 Single crystal diamond :

適合刀具 Cutting Tool	規格 Spec.	單晶鑽石 Single crystal diamond MD					尺寸 (mm) Size						最大切深 Cutting Max. mm
		MD100					L	D	α°	β°	S	C	AP
HCM	ACMQ1711ACFR	●					17	11	45°	75°	1.2	-	1.13

• 長度單位 Unit of Length (mm)

HCM 捨棄式刀片座
HCM INDEXABLE INSERT SEAT

KOVIT

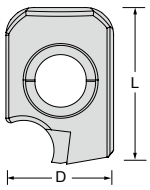


規格 Spec.	L	D	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
ACMQ1711-TB06	22.13	11	TB..0601	M2-5.0-2.7-60	T6	0.6	0.02

※ 可自行搭配刀片材質 Can collocation insert material.

HCM 刀片基座
HCM INSERT BASE SEAT

KOVIT



規格 Spec.	L	D	重量 (KGS) Weight
ACMQ1711-AS	17	11	0.02

※ 可用於刀頭配重或自行焊接各項材質 Can be used for weight or self-welding head of the material.

標準配件 Standard Accessories:

圖示 Fig.					
規格 Spec.	HCM-AW-8L	M8-1.25P-M5-0.8P-10L	M5-13.3-7.0-60-T25	M5-0.5P-LH-RH-17-P2.5	M5-0.8P-10L
名稱 Name	調整楔塊 wedge adjustment	牙套 Flutes sleeve	刀片座螺絲 insert holder screw	雙頭螺絲 both headed screw	動平衡螺絲 balance screw
功能 Function	調整尺寸精度 Dimension accuracy adjustment	調整尺寸精度 Dimension accuracy adjustment	鎖固刀座 fix the holder	固定調整楔塊 fix the wedge	平衡配重 mass-balance weight
圖示 Fig.					
規格 Spec.	TW-80-SB	BIT-T25-50L	PT2.5	T25	
名稱 Name	TW 扭力起子 TW torque driver	50mm 起子頭 50mm bits torx	T 型扳手 T-type wrench	L 型星型扳手 L-type wrench	
功能 Function	鎖固螺絲 lock screws				

• 長度單位 Unit of Length (mm)

HCM 切削技術資料 - 如何正確選擇刀具
HCM TECHNICAL INFO -HOW TO CHOOSE A CUTTER

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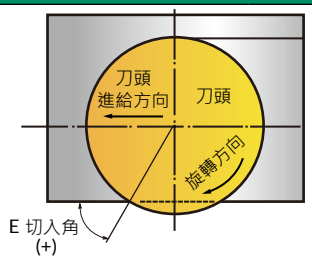
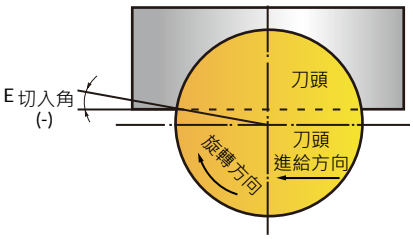
1 依工件寬度搭配面銑刀具直徑
According to the width of the workpiece with the face milling cutter diameter

形式 Form





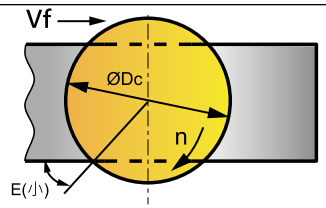
說明 Description

零件材質 Part material	刀具直徑 Cutter Diameter		選擇適當刃數 Choice suitable Flutes	
	E 建議的切入角 E The Recommendeded cut-in angle	建議刀具直徑與工件寬度比 Recommendeded tool diameter to workpiece width ratio	按直徑 (mm) 計算 Calculated by diameter (mm)	結果 esult
鋁合金 Aluminum	+40°以上	5:3	$\left(\frac{4}{100} \sim \frac{6}{100}\right)$ x ØD	多則易變形；少則易起毛邊 More easily deformed; from less easy to flash

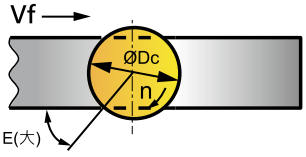
2 咬合角和刀具壽命
Bite angle and tool life

形式 Form

咬合角與銑刀尺寸的關係
Relation to Cutter Diameter

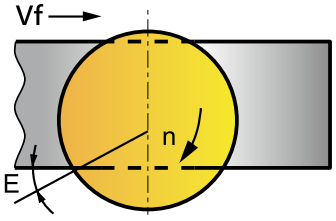


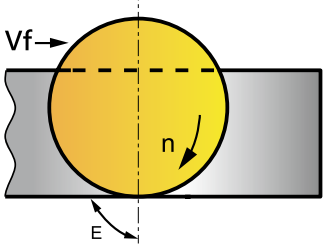
銑刀直徑（大）



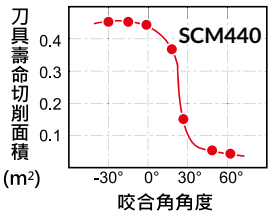
銑刀直徑（小）

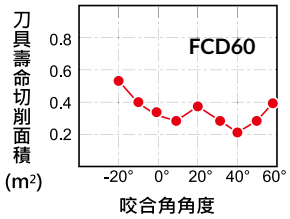
咬合角與銑刀位置的關係
Relation to Cutter Position



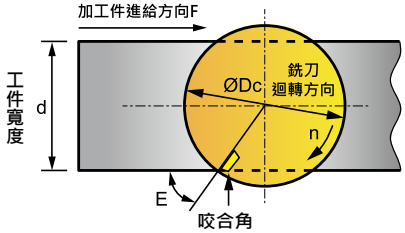


與刀具壽命的關係
Relation to Tool Life





說明 Description



咬合角是銑刀中心與刀刃切進點的連線與進給方向所成的夾角。
E 越大刀具壽命越短，改變 E 的方法有：1. 加大銑刀直徑 2. 錯開位置
Engage angle denotes the angle by which the full length of the cutting edge comes in contact with the work material, with reference to the feed direction.The large E is, the shorter the tool life.To change the value of E: 1. increase the cutter size. 2. shift the position of the cutter.

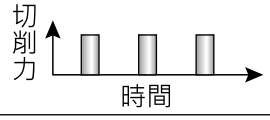
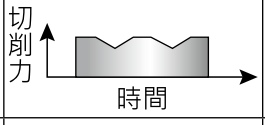
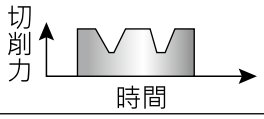
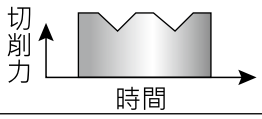
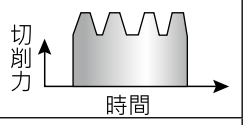
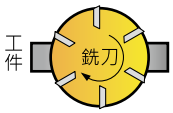
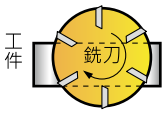
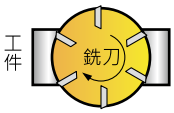
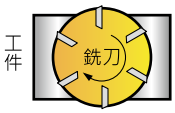
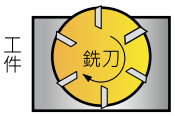
• 長度單位 Unit of Length (mm)

HCM 切削技術資料 - 如何正確選擇刀具
HCM TECHNICAL INFO -HOW TO CHOOSE A CUTTER

KOVIT

3 切削的刃數與切削力變動的關係
Relation between the number of simultaneously engaged cutting edges and cutting force

形式 **Form**

A	B	C	D	E
				
				
同時參與切削刃數為 0 或者 1 時 0 or 1 edge in contact at same time.	常態為 1 片切削時 Only 1 edge in contact at any time.	1 片或 2 片切削時 1 or 2 edges in contact.	2 片切削時 2 edge in contact at any time.	**2~3 片切削時** 2 to 3 edge in contact.

說明 **Description**

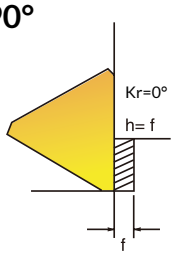
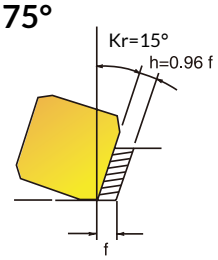
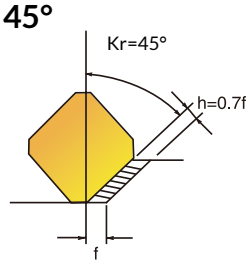
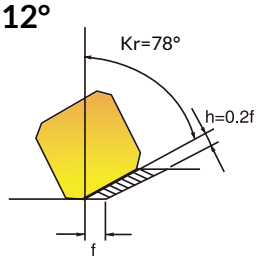
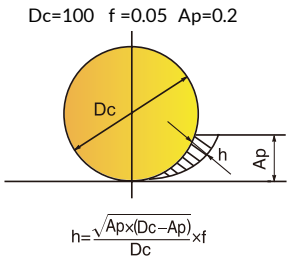
通常切削寬度如 D 的狀態，銑刀直徑在 70%~80% 較為適當，但由於受機台和工件的剛性、機台馬力的影響，無法一概而論
Normally, cutting width is considered to be appropriate with 70 to 80% of the cutter diameter engaged as shown in example D. However, this may not apply due to the actual rigidity of the machine or work piece, and machine horsepower.

建議使用刀具尺寸規格 **Suggest used the cutter spec.**

規格 **Spec.**	HCM50	HCM63	HCM80	HCM100	HCM125	HCM160	HCM200	HCM250	HCM315	HCM400
工件寬度範圍 **Workpiece width range**	30~40mm	37~50mm	48~64mm	60~80mm	70~95mm	96~128mm	120~160mm	150~200mm	189~252mm	240~320mm

4 選擇刀片座種類
Choice the insert seat type

形式 **Form**

90°	75°	45°	12°	
				
適用： 1. 加工璧薄件 2. 加工夾持剛性差工件 3. 大切削 General: 1. Processing pi thin pieces. 2. Processing clamping rigid workpiece. 3. Large cutting.	適用： 1. 加工粗胚 2. 中大切削工件 General: 1. Processing rough embryos. 2. Large cutting parts.	適用： 1. 加工深腔體工件 2. 中切深 General: 1. Processing of deep cavity workpiece. 2. In the depth of cut.	適用： 1. 加工大量粗切削 2. 小切深、大進給 General: 1. Processing a large number of rough cutting. 2. Small depth of cut, large feed.	範例 Example: $h=\frac{\sqrt{0.2\times(100-0.2)}}{100}\times 0.05$ $h=2.23$

說明 **Description**

外周切削刃角 (主偏角的餘角) 越大，則切屑厚度越大，切削阻力增加，刃口強度降低；反之則切屑厚度越薄，切削阻力減少，加工餘量受限。一般加工選用切削力，切屑厚度適中的 45°角。
The larger the chip angle is, the greater the chip thickness is, and the cutting resistance is increased. The cutting edge strength is reduced. General processing selection of cutting force, chip thickness of moderate 45 ° angle.

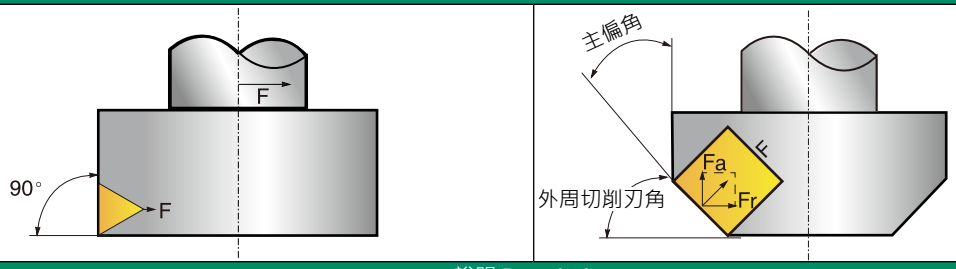
• **長度單位 Unit of Length (mm)**

HCM 切削技術資料 - 如何正確選擇刀具
HCM TECHNICAL INFO -HOW TO CHOOSE A CUTTER

KOVIT

5 外周切削刃角與切削刃的關係
Relationship between cutting edge angle and cutting edge

形式 Form



Fa: 切削力的軸向分力
Fr: 切削力的徑向分力

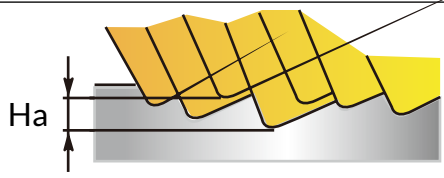
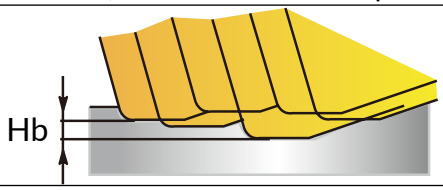
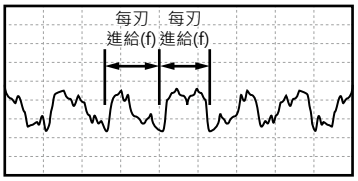
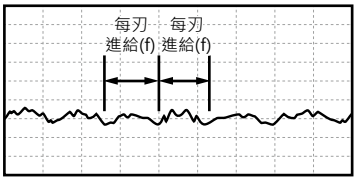
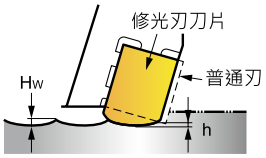
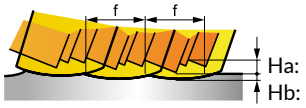
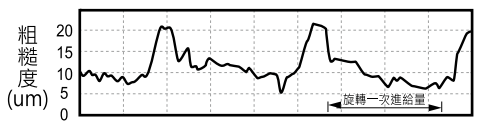
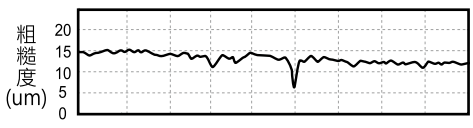
Fa:Axial component of cutting force.
Fr: Radial component of cutting force.

說明 Description

刀具外徑切削刃角越大，徑向分力越大；軸向分力越小，適合加工薄壁件，軸向剛性較差的零件加工。
刀具外徑切削刃角越小，軸向分力越大；徑向分力越小，適應於大懸長加工。
The greater the peripheral cutting edge angle, the greater the radial component; axial component of the smaller, to adapt to thin-walled parts, poor rigidity of the axial processing of parts.
The smaller the peripheral cutting edge angle, the greater the axial component; radial component of the smaller, adapted to large long-length processing.

6 如何正確搭配刀片座類型
How to properly match the insert seat type

形式 Form

Ha : 不使用修光刃刀片的粗糙度 **Ha:Don't used wiper insert**	Hb : 使用修光刃刀片的粗糙度 **Hb: Used wiper insert**
	
	
切削數據： ◆工件 : Al7075 ◆刀頭 HCM-63 ◆ Vc=700m/min ◆ fZ=0.1mm/t ◆ Ap=0.1mm	
h: 修光刃刀片突出量 鋁合金(Al): 0.03mm 	f: 每刃進給(mm/rev) Ha: 普通刀片的精加工粗糙度 Hb: 修光刃刀片的精加工粗糙度 
一般捨棄式刀片 	修光刃刀片 

說明 Description

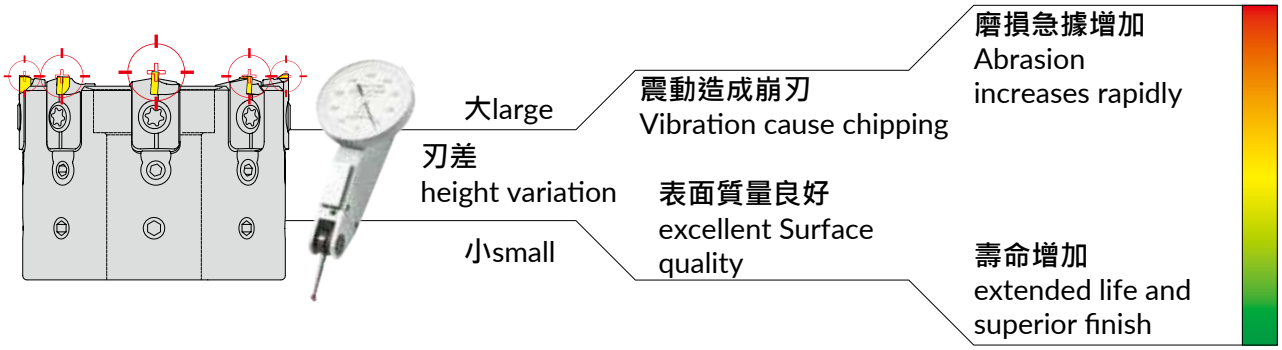
- 帶修光刃的刀片：所有刀片帶有修光刃，相對刀片的跳動高度，利用高度最突出的刀片修光刃刮光表面的方法。
- With wiper insert: All insert have a wiper edge, relative to the beating height of the insert, using the most prominent insert to wiper the surface of the wiper.
- 加入修光刃刀片的方式：在一般刀片中，加入 1~2 片呈圓滑線型的修光刃刀片比其它刃刀片稍突出。
-Wiper insert to join the way: in the general insert, add 1 to 2 was rounded linear wiper insert than other edge insert slightly prominent.

• 長度單位 Unit of Length (mm)

HCM 切削技術資料 - 如何正確選擇刀具
HCM TECHNICAL INFO -HOW TO CHOOSE A CUTTER

KOVIT

7 調整刀刃的差異性
Adjust the difference between the insert edge



8 切削數據
Cutting Parameter

材料 Materials		材料編號 Materials examples	抗拉強度 Strength(N/mm²)	線速度 Vc(m/min)	每刃進給量 f(mm/rev) Ap<1mm	Ap:1~2mm
N	鋁合金 (Aluminium)	鋁合金 (Al99)		max.6000	0.1~0.2mm/rev	0.05~0.1mm/rev
	鋁合金 (Aluminium) 7 % 矽 (Si)	鑄造鋁合金 (AlSi7)				
	鋁合金 (Aluminium) 7-12 % 矽 (Si)	鋁合金 (AlSi9) 鋁合金 (AlSi9Cu)				
	鋁合金 (Aluminium) 12 % 矽 (Si)	鋁合金 (AlSi12) 鋁合金 (AlSi17)		max.2000		
	銅 (Copper) 非合金鋼 (unalloyed)	銅合金 (SE-Cu)	< 300	max.6000		
	銅 (Copper)	銅錫合金 (CuSn6)	> 300	max.2000		
	黃銅 (Brass) 青銅 (bronze) 紅銅 (red brass)	銅錫合金 (CuZn33) 銅合金 (CuAl9Mn3)	< 1.200			
	石墨 (Graphite)	–				
	塑料 (Plastic) 熱可塑性樹脂 (Thermoplastics)	尼龍 (PA), 塑膠 (PE), 聚碳酸酯 (PC), 聚苯乙烯 (PS), 聚氯乙烯 (PVC), 聚丙烯 (PP), 聚四氟乙烯 (PTFE), 聚甲醛 (POM), 聚甲基丙烯酸甲酯 PMMA				
	塑料 (Plastic) 熱固性塑膠 (Thermoset plastics)	聚氨酯 (PU), 電木粉 (PF), 環氧樹脂 (EP), 聚酯樹脂 (UP), 塑膠 (VE), 氯丁橡膠 (CR)				
C	塑料 (Plastic matrix) 碳纖維複合材料 (CFRP/GFRP)	聚酯 (IMS), 高溫合金 (HTA)		Max.100~500	0.1~0.4mm/rev	0.1~0.2mm/rev
	塑料 (Plastic matrix) 碳纖維複合材料 (CFRP/GFRP)	玻璃纖維 (GMT-PP), 聚醚醚酮 (PEEK)				
	碳纖維複合材料 Carbon matrix 碳纖維強化碳基材複合材料 carbon fibre reinforced (CFC)	碳纖維 (CF222, CF225, CF226, CF227, CF260)		Max. 100~300	0.1~0.2mm/rev	0.05~0.1mm/rev

• 長度單位 Unit of Length (mm)

HCM 使用注意事項
HCM USAGE NOTICE

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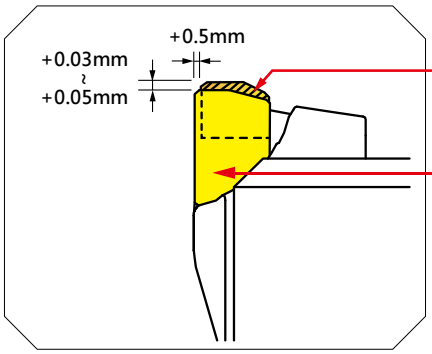
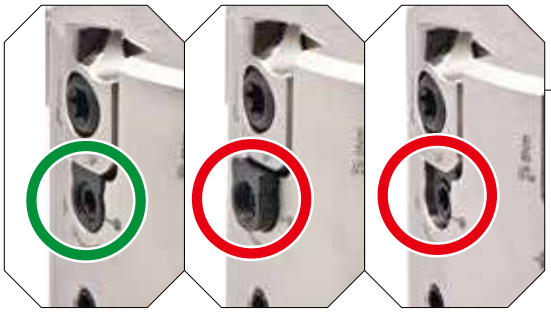


修光刃刀片座 Wiper insert

PCD刀片座 PCD insert

⚠ 安裝修光刃刀片(R300、R500)時，
應比PCD刀片高出+0.03mm~+0.05mm
When installing wiper inserts (R300 or R500) be sure they are 0.03 ~ 0.05mm higher than the PCD insert.



請務必使調整楔塊與刀頭外徑平行
Make sure the wedge and the insert are parallel.

一般精度 : 0.01mm
精密精度 : 0.003mm ~ 0.005mm
General accuracy: 0.01mm
Precision accuracy: 0.003mm 0.005mm

每刃皆有一顆動平衡螺絲，
可調整每刃不平衡量
Each insert seat has a dedicated dynamic balance adjustment

轉速(min^{-1})	JIS等級 ISO 1940-1/8821 (JIS B0905)
~20,000	G16
~30,000	G6.3
30,000~	G2.5

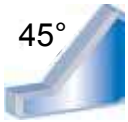
在高速旋轉（10,000 min^{-1} 以上）使用時，
刀具本體與刀桿的組合，請參考以下數值進行選配
When operating at high rotation speeds (10,000 min^{-1} or more), perform balancing of the tool body and arbor combination according to the reference values listed here.

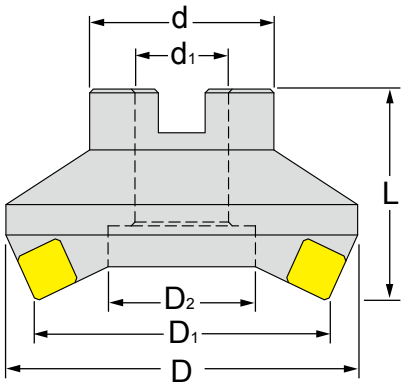
⚠ 請不要超過建議的最高轉速加工數據，避免造成離心力影響而使刀片或零件的飛散，導致刀頭受損
Do not use at rotation speeds exceeding the maximum rotation speed stated. Inserts and other parts may fly apart and cause bodily harm due to the high velocity of centrifugal force.

• 長度單位 Unit of Length (mm)

ASP 45° 捨棄式平面銑刀
ASP 45°INDEXABLE FACE MILLING CUTTER

445





規格 Spec.	L	D	D_1	D_2	d	d_1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
ASP-445-3	55	104	80	36	68	25.4	5	SE..1203	2.21
ASP-445-4	55	128	100	45	85	31.75	5	SE..1203	3.34
ASP-445-5	60	156	125	60	106	38.1	6	SE..1203	5.33
ASP-445-6	60	182	160	72	132	50.8	8	SE..1203	7.31
ASP-445-8	60	228	200	130	128	47.625	10	SE..1203	8.81
ASP-445-10	60	284	250	140	160	47.625	12	SE..1203	16.0
ASP-445-12	60	327	300	140	210	47.625	14	SE..1203	26.0
ASP-445-8-L	60	228	200	130	128	47.625	10	SE..1203	8.81
ASP-445-10-L	60	284	250	140	160	47.625	12	SE..1203	16.0

- L：左撇 Left-handed

配件表 Accessories

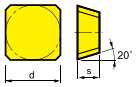
刀片 Insert	雙頭螺絲 Screw	墊片螺絲 Shim Screw	壓板 Clamp	墊片 Shim	扳手 Wrench	扭力值 (N.m) Torque
SE..1203	ASP1	ASP2	ASP3	ASP4	PT4	5.0

- 左旋用壓板 Left-handed clamp：ASP3-L 左旋用墊片 Left-handed Shim：ASP4-L

ISO 分類													
P	合金鋼 Alloyed Steels	○											
M	不鏽鋼 Stainless Steels												
K	鑄鐵 Cast Iron		○										
N	鋁及鋁合金 Aluminum&Al												
S	高溫合金 Refractory Alloys												
H	高硬度材 Hard Material												

切削狀態 Cutting Condition：

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

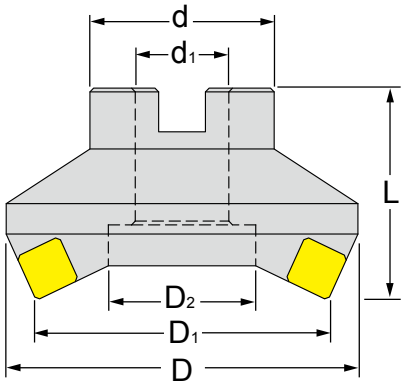
形狀 Shape	規格 Spec.	硬質合金 Hard alloy HW										尺寸 (mm) Size				圖形 Drawing
		TSP25	TSK10									d	i	s	r	
	SEKN1203AFR	●	●									12.7	-	3.18	-	

• 長度單位 Unit of Length (mm)

ASP 45° 捨棄式平面銑刀
ASP 45°INDEXABLE FACE MILLING CUTTER

KOVIT

545



規格 Spec.	L	D	D_1	D_2	d	d_1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
ASP-545-3	55	104	80	36	68	25.4	5	SE..1504	2.20
ASP-545-4	55	128	100	45	85	31.75	5	SE..1504	3.33
ASP-545-5	60	156	125	60	106	38.1	6	SE..1504	5.32
ASP-545-6	60	182	160	72	132	50.8	8	SE..1504	7.30
ASP-545-8	60	228	200	130	128	47.625	10	SE..1504	8.69
ASP-545-10	60	284	250	140	160	47.625	12	SE..1504	16.38
ASP-545-12	60	327	300	140	210	47.625	14	SE..1504	26.38

配件表 Accessories

刀片 Insert	雙頭螺絲 Screw	墊片螺絲 Shim Screw	壓板 Clamp	墊片 Shim	扳手 Wrench	扭力值 (N.m) Torque
SE..1504	ASP1	ASP2	ASP3	ASP4	PT4	5.0

ISO 分類													
	P	合金鋼 Alloyed Steels	○										
	M	不鏽鋼 Stainless Steels											
	K	鑄鐵 Cast Iron		○									
	N	鋁及鋁合金 Aluminum&Al											
	S	高溫合金 Refractory Alloys											
	H	高硬度材 Hard Material											

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

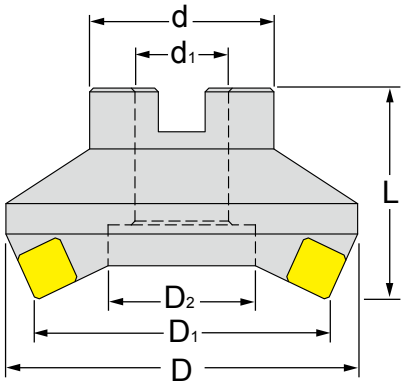
形狀 Shape	規格 Spec.	硬質合金 Hard alloy										尺寸 (mm)				圖形 Drawing
		HW										Size				
		TSP20	TSK10									d	i	s	r	
	SEKN1504AFR	●	●									15.875	-	4.76	-	

• 長度單位 Unit of Length (mm)

ASP 45° 捨棄式平面銑刀
ASP 45°INDEXABLE FACE MILLING CUTTER

545

KOVIT



FMB 為公制規格 **(mm)** FMB is mm size

規格 Spec.	L	D	D_1	D_2	d	d_1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
ASP-545-4-FMB32	55	128	100	45	85	32	5	SE..1504	3.33
ASP-545-5-FMB40	60	156	125	60	106	40	6	SE..1504	5.32
ASP-545-6-FMB40	60	182	160	72	132	40	8	SE..1504	7.30
ASP-545-8-FMB60	60	228	200	130	128	60	10	SE..1504	8.69
ASP-545-10-FMB60	60	284	250	140	160	60	12	SE..1504	16.93
ASP-545-12-FMB60	60	327	300	140	210	60	14	SE..1504	26.2

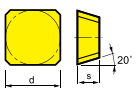
配件表 Accessories

刀片 Insert	雙頭螺絲 Screw	墊片螺絲 Shim Screw	壓板 Clamp	墊片 Shim	扳手 Wrench	扭力值 (N.m) Torque
SE..1504	ASP1	ASP2	ASP3	ASP4	PT4	5.0

ISO 分類														
	P	合金鋼 Alloyed Steels	○											
	M	不鏽鋼 Stainless Steels												
	K	鑄鐵 Cast Iron		○										
	N	鋁及鋁合金 Aluminum&Al												
	S	高溫合金 Refractory Alloys												
	H	高硬度材 Hard Material												

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

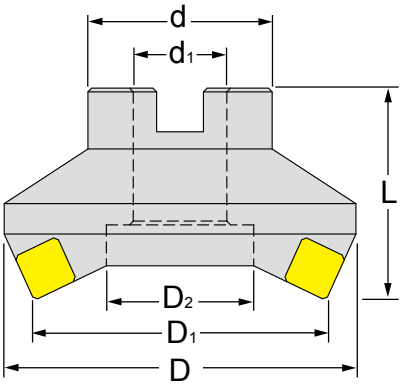
形狀 Shape	規格 Spec.	硬質合金 Hard alloy											尺寸 (mm)				圖形 Drawing
		HW											Size				
		TSP20	TSK10										d	i	s	r	
	SEKN1504AFR	●	●										15.875	-	4.76	-	

• 長度單位 Unit of Length (mm)

ASP 65° 捨棄式平面銑刀
ASP 65°INDEXABLE FACE MILLING CUTTER

435

KOVIT



規格 Spec.	L	D	D1	D2	d	d1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
ASP-435-3	55	96	80	36	70	25.4	5	SPKN1204 (ISO) SPK43C2SR (英制)	2.16
ASP-435-4	55	118	100	45	80	31.75	5		2.96
ASP-435-5	60	142	125	55	96	38.1	6		4.80
ASP-435-6	60	177	160	72	128	50.8	8		7.24
ASP-435-8	60	218	200	130	128	47.625	10		8.90
ASP-435-10	60	273	250	130	200	47.625	12		19.0
ASP-435-12	60	320	300	130	210	47.625	14		25.0

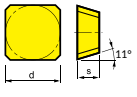
配件表 Accessories

刀片 Insert	雙頭螺絲 Screw	墊片螺絲 Shim Screw	壓板 Clamp	墊片 Shim	扳手 Wrench	扭力值 (N.m) Torque
SPK43C2SR	ASP1	ASP2	ASP3	ASP4	PT4	5.0

ISO 分類												
P	合金鋼 Alloyed Steels	○										
M	不鏽鋼 Stainless Steels											
K	鑄鐵 Cast Iron		○									
N	鋁及鋁合金 Aluminum&Al											
S	高溫合金 Refractory Alloys											
H	高硬度材 Hard Material											

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

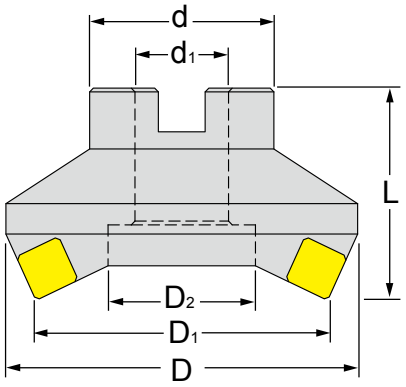
形狀 Shape	規格 Spec.	硬質合金 Hard alloy HW TSP20	TSK10								尺寸 (mm) Size d	i	s	r	圖形 Drawing
	SPK43C2SR	●	●								12.7	-	4.76	-	

• 長度單位 Unit of Length (mm)

ASP 65° 捨棄式平面銑刀
ASP 65°INDEXABLE FACE MILLING CUTTER

535

KOVIT



規格 Spec.	L	D	D1	D2	d	d1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
ASP-535-3	55	96	80	36	70	25.4	5	SPKN1504 (ISO) SPK53C2SR (英制)	2.05
ASP-535-4	55	118	100	45	80	31.75	5		2.90
ASP-535-5	60	142	125	55	96	38.1	6		4.64
ASP-535-6	60	177	160	72	128	50.8	8		7.14
ASP-535-8	60	218	200	130	128	47.625	10		8.87
ASP-535-10	60	273	250	130	200	47.625	12		18.4
ASP-535-12	60	320	300	130	210	47.625	14		26.9

配件表 Accessories

刀片 Insert	雙頭螺絲 Screw	墊片螺絲 Shim Screw	壓板 Clamp	墊片 Shim	扳手 Wrench	扭力值 (N.m) Torque
SPK53C2SR	ASP1	ASP2	ASP3	ASP4	PT4	5.0

ISO 分類													
P	合金鋼 Alloyed Steels	○											
M	不鏽鋼 Stainless Steels												
K	鑄鐵 Cast Iron		○										
N	鋁及鋁合金 Aluminum&Al												
S	高溫合金 Refractory Alloys												
H	高硬度材 Hard Material												

切削狀態 Cutting Condition :

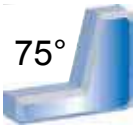
● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

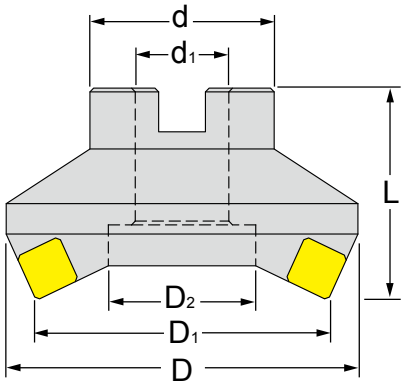
形狀 Shape	規格 Spec.	硬質合金 Hard alloy HW										尺寸 (mm) Size				圖形 Drawing
		TSP20	TSK10									d	i	s	r	
	SPK53C2SR	●	●									15.88	-	4.76	-	

• 長度單位 Unit of Length (mm)

BFP 75° 捨棄式平面銑刀
BFP 75°INDEXABLE FACE MILLING CUTTER

KOVIT





規格 Spec.	L	D	D1	D2	d	d1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
BFP-3	55	87	80	36	65	25.4	5	SP..1203	1.84
BFP-4	55	108	100	45	78	31.75	6	SP..1203	2.61
BFP-5	60	138	125	55	90	38.1	8	SP..1203	4.45
BFP-6	60	167	160	73	117	50.8	10	SP..1203	6.45
BFP-8	60	208	200	128	127	47.625	12	SP..1203	8.61
BFP-10	60	262	250	140	150	47.625	16	SP..1203	14.2
BFP-12	60	312	300	140	210	47.625	20	SP..1203	26.7

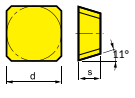
配件表 Accessories

刀片 Insert	雙頭螺絲 Screw	墊片螺絲 Shim Screw	壓板 Clamp	墊片 Shim	扳手 Wrench	扭力值 (N.m) Torque
SP..1203	ASP1	ASP2	ASP3	ASP4	PT4	5.0

ISO 分類														
	P	合金鋼 Alloyed Steels	○											
	M	不鏽鋼 Stainless Steels												
	K	鑄鐵 Cast Iron		○										
	N	鋁及鋁合金 Aluminum&Al												
	S	高溫合金 Refractory Alloys												
	H	高硬度材 Hard Material												

切削狀態 Cutting Condition :

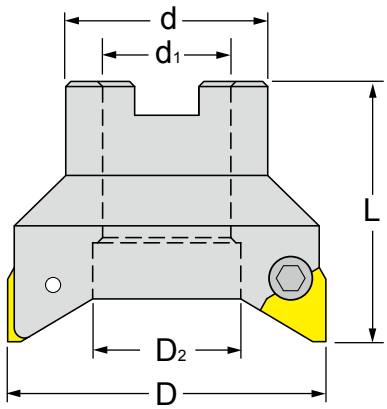
● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	硬質合金 Hard alloy HW TSP25	TSK10										尺寸 (mm) Size d	i	s	r	圖形 Drawing
	SPKN1203EDR	●	●										12.7	-	3.18	-	

• 長度單位 Unit of Length (mm)

TAP 90° 捨棄式平面銑刀
TAP 90° INDEXABLE FACE MILLING CUTTER

KOVIT



規格 Spec.	L	D	D2	d	d1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
TAP-63	50	63	18.5	48	25.4	3	TP..2204	0.56
TAP-80	55	80	36	60	25.4	4	TP..2204	1.02
TAP-100	55	100	45	78	31.75	5	TP..2204	1.80
TAP-125	60	125	55	90	38.1	6	TP..2204	3.21
TAP-150	60	150	72	118	50.8	7	TP..2204	4.76
TAP-200	60	200	60	165	47.625	8	TP..2204	8.69
TAP-250	60	250	162	214	47.625	9	TP..2204	15.03
TAP-300	60	300	162	214	47.625	10	TP..2204	22.48

配件表 Accessories

刀片 Insert	傘型螺絲 Screw	墊片螺絲 Shim Screw	墊片 Shim	扳手 Wrench	扭力值 (N.m) Torque
TP..2204	M8-U5/16-24P	TAP2	TAP3	PT5	6.0

ISO 分類													
P	合金鋼 Alloyed Steels	○											
M	不鏽鋼 Stainless Steels												
K	鑄鐵 Cast Iron		○										
N	鋁及鋁合金 Aluminum&Al												
S	高溫合金 Refractory Alloys												
H	高硬度材 Hard Material												

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	硬質合金 Hard alloy HW										尺寸 (mm) Size				圖形 Drawing
		TSP20	TSK10									d	i	s	r	
	TPKN2204PDR	●	●									12.7	-	4.76	-	
	TPMN220412	●	●									12.7	-	4.76	1.2	

• 長度單位 Unit of Length (mm)

捨棄式平面銑刀
INDEXABLE FACE MILLING CUTTER

KOVIT

SP_12.43.53 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 (mm/rev)
P	低合金鋼	TSP20	125~200	0.1~0.3
		TSP25	125~200	0.1~0.3
	合金鋼	TSP20	50~100	0.1~0.2
		TSP25	50~100	0.1~0.2
K	鑄鐵	TSK10	80~120	0.1~0.3

SE_12.15 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 (mm/rev)
P	低合金鋼	TSP20	125~200	0.1~0.3
		TSP25	125~200	0.1~0.3
	合金鋼	TSP20	50~100	0.1~0.2
		TSP25	50~100	0.1~0.2
K	鑄鐵	TSK10	80~120	0.1~0.3

TP_22 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 (mm/rev)
P	低合金鋼	TSP20	125~200	0.1~0.3
	合金鋼	TSP20	50~100	0.1~0.2
K	鑄鐵	TSK10	80~120	0.1~0.3

主軸轉速 =(1000× 切削速度)÷(3.14× 刀具外徑)
Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameterr).

床檯進給 (mm/min)= 每刃進給 × 刀具刃數 × 主軸轉速
Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

• 長度單位 Unit of Length (mm)

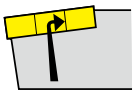
卡式刀座編碼規範
CARTRIDGES CODING STANDARDS

KOVIT

S	T	F	C	R	12	C	A	–	16
①	②	③	④	⑤	⑥	⑦	⑧		⑨

① STFCR12CA – 16

鎖固方式 Method of Mounting Insert



Top Clamping	Hole clamping	Screw on
C	P	S

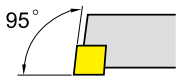
② STFCR12CA – 16

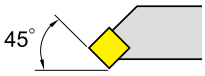
刀片形狀 Insert Shape

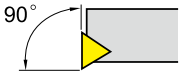
C	S	T

③ STFCR12CA – 16

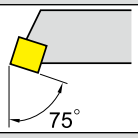
進刀角度 Holder Style

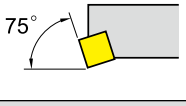


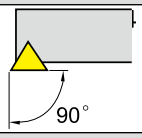




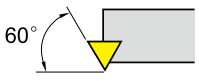
L	S	F

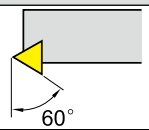






R	K	G

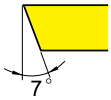


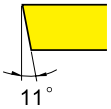


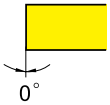
W	T

④ STFCR12CA – 16

離隙角 Relief Angle of Insert



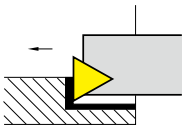
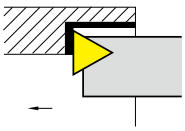
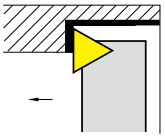
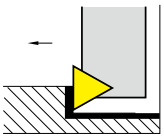




C	P	N

⑤ STFCR12CA – 16

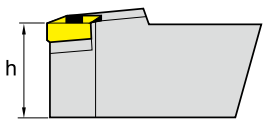
進刀方向 Hand of Tool

R	L

⑥ STFCR12CA – 16

切削刃高度 Height of Cutting Edge



⑦ STFCR12CA – 16

刀具類型 Cartrige Code

C
(Cartridge)

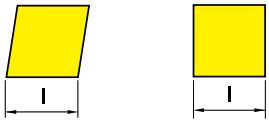
⑧ STFCR12CA – 16

設計類型 Type of Cartridge

A
(ISO5611)

⑨ STFCR12CA – 16

切削刃長度 Length of Cutting Edge



• 長度單位 Unit of Length (mm)

卡式刀座 CARTRIDGES

KOVIT

STFCR

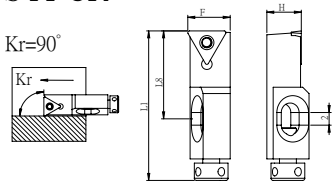
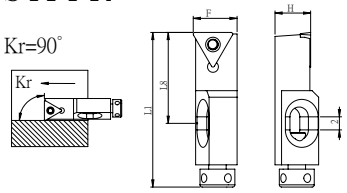
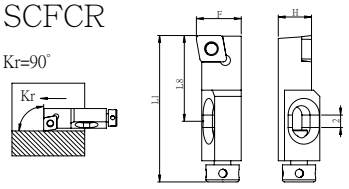
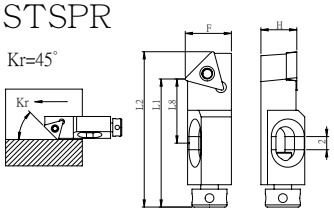
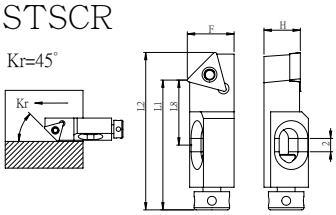
STFPR

SCFCR

STSPR

STSCR

範例 Example

圖形 Drawing	規格 Spec.	L_1	L_2	L_8	F	H	Dm min	R ε	刀片 Insert
STFCR Kr=90° 	STFCR-08CA-09	32	-	15	10	8	25	0.4	TC..0902
	STFCR-10CA-11	50	-	30	14	10	40	0.4	TC..1102
	STFCR-12CA-16	55	-	35	20	12	50	0.8	TC..16T3
STFPR Kr=90° 	STFPR-08CA-09	32	-	15	10	8	25	0.4	TP..0902
	STFPR-10CA-11	50	-	30	14	10	40	0.4	TP..1103
	STFPR-12CA-16	55	-	35	20	12	50	0.8	TP..1603
SCFCR Kr=90° 	SCFCR-08CA-06	32	-	15	10	8	25	0.4	CC..0602
	SCFCR-10CA-09	50	-	30	14	10	40	0.4	CC..09T3
STSPR Kr=45° 	STSPR-08CA-09	28	34.1	11	10	8	25	0.4	TP..0902
	STSPR-10CA-11	44	51.0	24	14	10	40	0.4	TP..1103
	STSPR-12CA-16	47	57.0	27	20	12	50	0.8	TP..1603
STSCR Kr=45° 	STSCR-08CA-09	28	34.1	11	10	8	25	0.4	TC..0902
	STSCR-10CA-11	44	51.0	24	14	10	40	0.4	TC..1102
	STSCR-12CA-16	47	57.0	27	20	12	50	0.8	TC..16T3

• 長度單位 Unit of Length (mm)

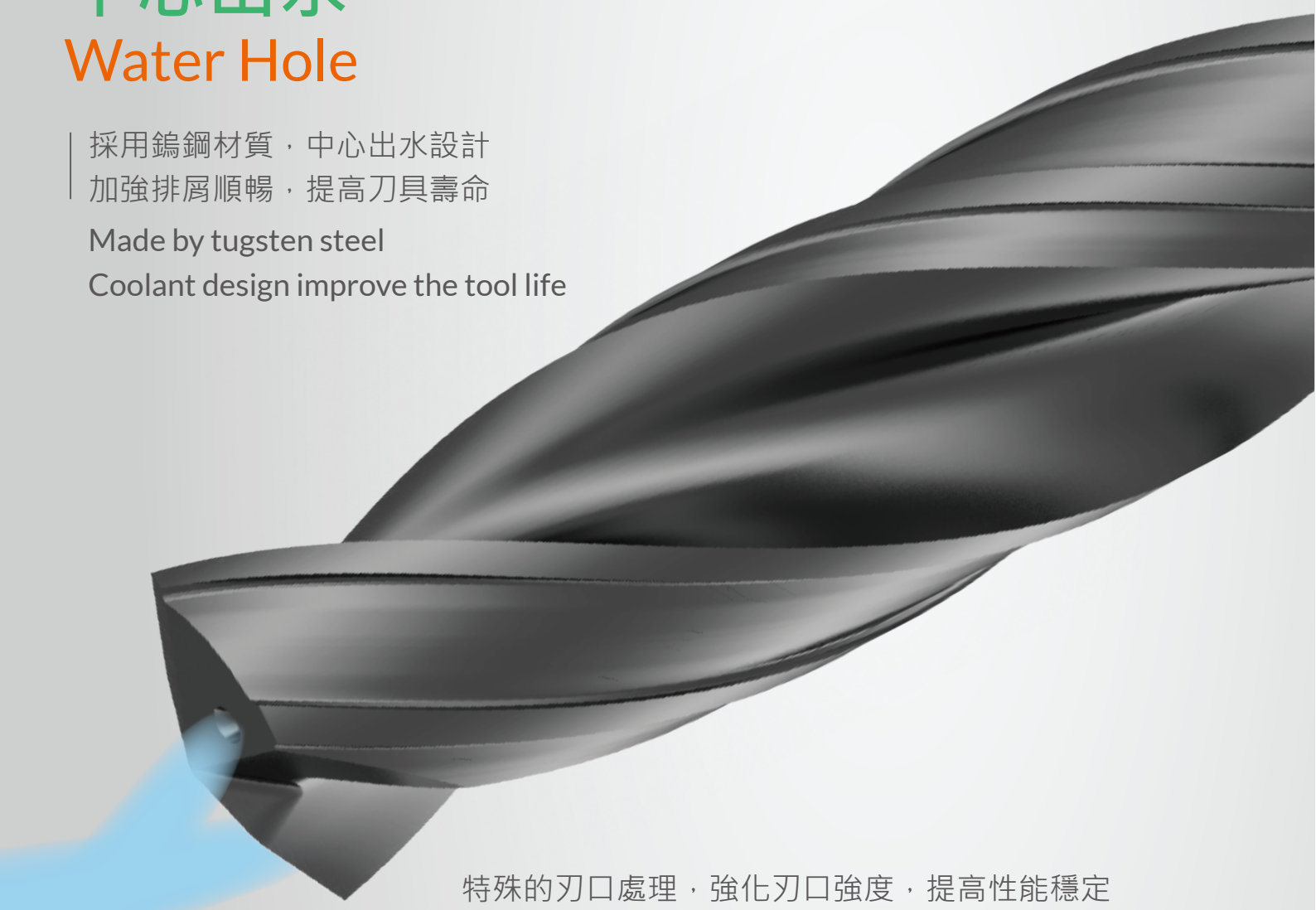
DR 碳化鎢鋼出水鑽頭
DR TUNGSTEN CARBIDE DRILL

Feature

中心出水
Water Hole

採用鎢鋼材質，中心出水設計
加強排屑順暢，提高刀具壽命

Made by tugsten steel
Coolant design improve the tool life



特殊的刃口處理，強化刃口強度，提高性能穩定
Special treated drill edge has high strength and stability.

採用TIAlN塗層，具有良好的抗氧化性，耐磨性高
TiAlN coating prevent rust and act as a wear resistance.

獨特槽型設計，具有優良的排屑效果
Unique design with excellent chip removal effect.

Carbide Drill

碳化鎢鋼出水鑽頭編碼規範
DR SOLID CARBIDE DRILL WITH INTERNAL COOLANT CODING KEY

KOVIT

記號 Symbol	被加工材質 Machining Material
DR20P	一般鋼 P-Alloyed Steels
DR30M	不鏽鋼 M-Stainless Steels
DR40K	鑄鐵 K-Cast Iron
DR50N	非鐵合金 N-Aluminum &Al
DR60S	高溫合金 S-Refractory Alloys
DR70H	高硬度 H-Hard Material

① 類別 Category

記號 Symbol	深度 Depth
3	≦3xD
5	≦5xD
8	≦8xD
12	≦12xD
15	≦15xD

③ 鑽孔深度 Drilling Depth

記號 Symbol	功能 Function
C	內部給水 Internal Coolant
N	外部給水 External Coolant

⑤ 冷卻方式 Coolant Way

DR20P - **A** **8** - **D0300** - **C**

① ② ③ ④ ⑤

② 柄徑形式 Shank Style

記號 Symbol	形式 Style
A	直柄 DIN-6535HA Straight Shank DIN-6535HA
B	削平柄 DIN-6535HB Flatted Shank DIN-6535HB
E	斜削柄 DIN-6535HE Bevel Shank DIN-6535HE
M	莫氏錐度 MT Morse MT

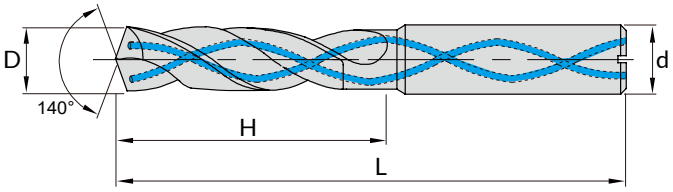
④ 刃徑 Edge Diameter

記號 Symbol	刃徑 Edge Diameter
D	

• 長度單位 Unit of Length (mm)

DR20P-A5-C 碳化鎢鋼出水鑽頭 (DX5)
DR SOLID CARBIDE DRILL WITH INTERNAL COOLANT

KOVIT



先端角
140°
Spiral Pointed Angle

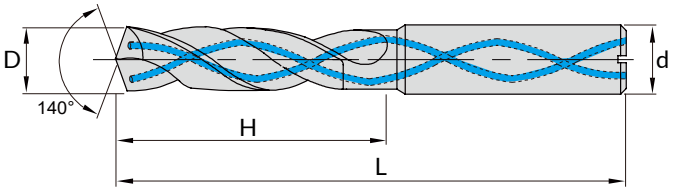
加工類型
P M K
Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR20P-A5-D0300-C	66	3	6	28	2	-
DR20P-A5-D0310-C	66	3.1	6	28	2	-
DR20P-A5-D0320-C	66	3.2	6	28	2	-
DR20P-A5-D0330-C	66	3.3	6	28	2	-
DR20P-A5-D0340-C	66	3.4	6	28	2	0.02
DR20P-A5-D0350-C	66	3.5	6	28	2	0.02
DR20P-A5-D0360-C	66	3.6	6	28	2	0.02
DR20P-A5-D0370-C	66	3.7	6	28	2	0.02
DR20P-A5-D0380-C	74	3.8	6	36	2	0.02
DR20P-A5-D0390-C	74	3.9	6	36	2	0.02
DR20P-A5-D0400-C	74	4	6	36	2	0.02
DR20P-A5-D0410-C	74	4.1	6	36	2	0.02
DR20P-A5-D0420-C	74	4.2	6	36	2	0.02
DR20P-A5-D0430-C	74	4.3	6	36	2	0.02
DR20P-A5-D0440-C	74	4.4	6	36	2	0.02
DR20P-A5-D0450-C	74	4.5	6	36	2	0.02
DR20P-A5-D0460-C	74	4.6	6	36	2	0.02
DR20P-A5-D0465-C	74	4.65	6	36	2	0.02
DR20P-A5-D0470-C	74	4.7	6	36	2	0.02
DR20P-A5-D0480-C	82	4.8	6	44	2	0.03
DR20P-A5-D0490-C	82	4.9	6	44	2	0.03
DR20P-A5-D0500-C	82	5	6	44	2	0.03
DR20P-A5-D0510-C	82	5.1	6	44	2	0.03
DR20P-A5-D0520-C	82	5.2	6	44	2	0.03
DR20P-A5-D0530-C	82	5.3	6	44	2	0.03
DR20P-A5-D0540-C	82	5.4	6	44	2	0.03
DR20P-A5-D0550-C	82	5.5	6	44	2	0.03
DR20P-A5-D0555-C	82	5.55	6	44	2	0.03
DR20P-A5-D0560-C	82	5.6	6	44	2	0.03
DR20P-A5-D0570-C	82	5.7	6	44	2	0.03
DR20P-A5-D0580-C	82	5.8	6	44	2	0.03
DR20P-A5-D0590-C	82	5.9	6	44	2	0.03
DR20P-A5-D0600-C	82	6	6	44	2	0.03
DR20P-A5-D0610-C	91	6.1	6	53	2	-
DR20P-A5-D0620-C	91	6.2	8	53	2	0.04

• 長度單位 Unit of Length (mm)

DR20P-A5-C 碳化鎢鋼出水鑽頭 (DX5)
DR SOLID CARBIDE DRILL WITH INTERNAL COOLANT

KOVIT



先端角
140°
Spiral Pointed Angle

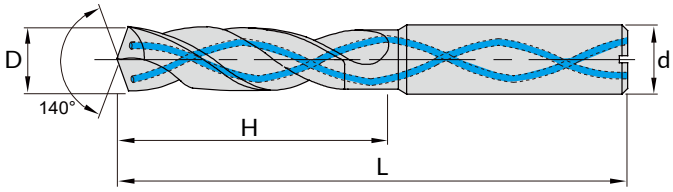
加工類型
P M K
Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR20P-A5-D0630-C	91	6.3	8	53	2	0.04
DR20P-A5-D0640-C	91	6.4	8	53	2	0.04
DR20P-A5-D0650-C	91	6.5	8	53	2	0.04
DR20P-A5-D0660-C	91	6.6	8	53	2	-
DR20P-A5-D0670-C	91	6.7	8	53	2	-
DR20P-A5-D0680-C	91	6.8	8	53	2	0.05
DR20P-A5-D0690-C	91	6.9	8	53	2	0.05
DR20P-A5-D0700-C	91	7	8	53	2	0.05
DR20P-A5-D0710-C	91	7.1	8	53	2	0.05
DR20P-A5-D0720-C	91	7.2	8	53	2	0.05
DR20P-A5-D0730-C	91	7.3	8	53	2	0.05
DR20P-A5-D0740-C	91	7.4	8	53	2	0.05
DR20P-A5-D0745-C	91	7.45	8	53	2	0.05
DR20P-A5-D0750-C	91	7.5	8	53	2	0.05
DR20P-A5-D0760-C	91	7.6	8	53	2	0.05
DR20P-A5-D0770-C	91	7.7	8	53	2	0.05
DR20P-A5-D0780-C	91	7.8	8	53	2	0.05
DR20P-A5-D0790-C	91	7.9	8	53	2	0.05
DR20P-A5-D0800-C	91	8	8	53	2	0.05
DR20P-A5-D0810-C	103	8.1	10	61	2	0.08
DR20P-A5-D0820-C	103	8.2	10	61	2	0.08
DR20P-A5-D0830-C	103	8.3	10	61	2	0.08
DR20P-A5-D0840-C	103	8.4	10	61	2	0.08
DR20P-A5-D0850-C	103	8.5	10	61	2	0.08
DR20P-A5-D0860-C	103	8.6	10	61	2	0.08
DR20P-A5-D0870-C	103	8.7	10	61	2	0.08
DR20P-A5-D0880-C	103	8.8	10	61	2	0.08
DR20P-A5-D0890-C	103	8.9	10	61	2	0.08
DR20P-A5-D0900-C	103	9	10	61	2	0.08
DR20P-A5-D0910-C	103	9.1	10	61	2	0.08
DR20P-A5-D0920-C	103	9.2	10	61	2	0.08
DR20P-A5-D0930-C	103	9.3	10	61	2	0.08
DR20P-A5-D0935-C	103	9.35	10	61	2	0.08
DR20P-A5-D0940-C	103	9.4	10	61	2	0.09

• 長度單位 Unit of Length (mm)

DR20P-A5-C 碳化鎢鋼出水鑽頭 (DX5)
DR SOLID CARBIDE DRILL WITH INTERNAL COOLANT

KOVIT



先端角
140°
Spiral Pointed Angle

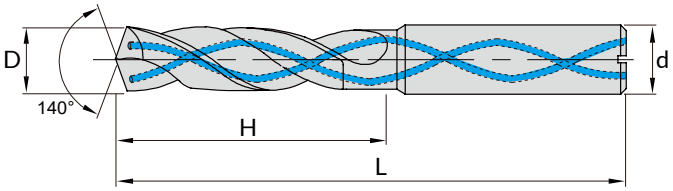
加工類型
P M K
Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR20P-A5-D0950-C	103	9.5	10	61	2	0.09
DR20P-A5-D0960-C	103	9.6	10	61	2	0.09
DR20P-A5-D0970-C	103	9.7	10	61	2	0.09
DR20P-A5-D0980-C	103	9.8	10	61	2	0.09
DR20P-A5-D0990-C	103	9.9	10	61	2	0.09
DR20P-A5-D1000-C	103	10	10	61	2	0.09
DR20P-A5-D1010-C	118	10.1	12	71	2	-
DR20P-A5-D1020-C	118	10.2	12	71	2	0.13
DR20P-A5-D1030-C	118	10.3	12	71	2	0.13
DR20P-A5-D1040-C	118	10.4	12	71	2	0.13
DR20P-A5-D1050-C	118	10.5	12	71	2	0.13
DR20P-A5-D1060-C	118	10.6	12	71	2	0.13
DR20P-A5-D1070-C	118	10.7	12	71	2	0.13
DR20P-A5-D1080-C	118	10.8	12	71	2	0.13
DR20P-A5-D1090-C	118	10.9	12	71	2	0.13
DR20P-A5-D1100-C	118	11	12	71	2	0.13
DR20P-A5-D1110-C	118	11.1	12	71	2	0.13
DR20P-A5-D1120-C	118	11.2	12	71	2	0.14
DR20P-A5-D1130-C	118	11.3	12	71	2	0.14
DR20P-A5-D1140-C	118	11.4	12	71	2	0.14
DR20P-A5-D1150-C	118	11.5	12	71	2	0.14
DR20P-A5-D1160-C	118	11.6	12	71	2	0.14
DR20P-A5-D1170-C	118	11.7	12	71	2	0.14
DR20P-A5-D1180-C	118	11.8	12	71	2	0.14
DR20P-A5-D1190-C	118	11.9	12	71	2	0.14
DR20P-A5-D1200-C	118	12	12	71	2	-
DR20P-A5-D1250-C	124	12.5	14	77	2	0.18
DR20P-A5-D1300-C	124	13	14	77	2	0.19
DR20P-A5-D1350-C	124	13.5	14	77	2	0.2
DR20P-A5-D1400-C	124	14	14	77	2	0.2
DR20P-A5-D1450-C	133	14.5	16	83	2	-
DR20P-A5-D1500-C	133	15	16	83	2	-
DR20P-A5-D1550-C	133	15.5	16	83	2	-

• 長度單位 Unit of Length (mm)

DR20P-A8-C 碳化鎢鋼出水鑽頭 (DX8)
DR SOLID CARBIDE DRILL WITH INTERNAL COOLANT

KOVIT



先端角
140°
Spiral Pointed Angle

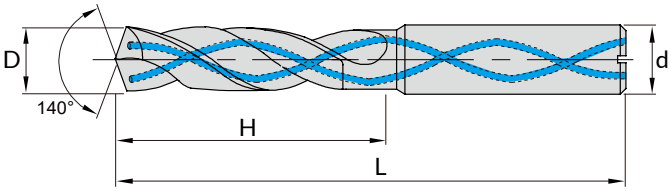
加工類型
P M K
Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR20P-A8-D0300-C	72	3	6	34	2	-
DR20P-A8-D0310-C	72	3.1	6	34	2	-
DR20P-A8-D0320-C	72	3.2	6	34	2	-
DR20P-A8-D0330-C	72	3.3	6	34	2	-
DR20P-A8-D0340-C	72	3.4	6	34	2	0.02
DR20P-A8-D0350-C	72	3.5	6	34	2	0.02
DR20P-A8-D0360-C	72	3.6	6	34	2	0.02
DR20P-A8-D0370-C	72	3.7	6	34	2	0.02
DR20P-A8-D0380-C	81	3.8	6	43	2	0.02
DR20P-A8-D0390-C	81	3.9	6	43	2	0.02
DR20P-A8-D0400-C	81	4	6	43	2	0.02
DR20P-A8-D0410-C	81	4.1	6	43	2	0.02
DR20P-A8-D0420-C	81	4.2	6	43	2	0.02
DR20P-A8-D0430-C	81	4.3	6	43	2	0.02
DR20P-A8-D0440-C	81	4.4	6	43	2	-
DR20P-A8-D0450-C	81	4.5	6	43	2	-
DR20P-A8-D0460-C	81	4.6	6	43	2	-
DR20P-A8-D0470-C	81	4.7	6	43	2	-
DR20P-A8-D0480-C	95	4.8	6	57	2	-
DR20P-A8-D0490-C	95	4.9	6	57	2	-
DR20P-A8-D0500-C	95	5	6	57	2	0.03
DR20P-A8-D0510-C	95	5.1	6	57	2	-
DR20P-A8-D0520-C	95	5.2	6	57	2	-
DR20P-A8-D0530-C	95	5.3	6	57	2	-
DR20P-A8-D0540-C	95	5.4	6	57	2	-
DR20P-A8-D0550-C	95	5.5	6	57	2	-
DR20P-A8-D0560-C	95	5.6	6	57	2	-
DR20P-A8-D0570-C	95	5.7	6	57	2	-
DR20P-A8-D0580-C	95	5.8	6	57	2	-
DR20P-A8-D0590-C	95	5.9	6	57	2	-
DR20P-A8-D0600-C	95	6	6	57	2	-
DR20P-A8-D0610-C	114	6.1	8	76	2	-
DR20P-A8-D0620-C	114	6.2	8	76	2	-

• 長度單位 Unit of Length (mm)

DR20P-A8-C 碳化鎢鋼出水鑽頭 (DX8)
DR SOLID CARBIDE DRILL WITH INTERNAL COOLANT

KOVIT



先端角
140°
Spiral Pointed Angle

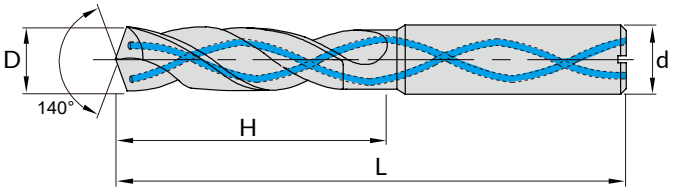
加工類型
P M K
Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR20P-A8-D0630-C	114	6.3	8	76	2	-
DR20P-A8-D0640-C	114	6.4	8	76	2	-
DR20P-A8-D0650-C	114	6.5	8	76	2	-
DR20P-A8-D0660-C	114	6.6	8	76	2	-
DR20P-A8-D0670-C	114	6.7	8	76	2	-
DR20P-A8-D0680-C	114	6.8	8	76	2	-
DR20P-A8-D0690-C	114	6.9	8	76	2	-
DR20P-A8-D0700-C	114	7	8	76	2	-
DR20P-A8-D0710-C	114	7.1	8	76	2	-
DR20P-A8-D0720-C	114	7.2	8	76	2	-
DR20P-A8-D0730-C	114	7.3	8	76	2	-
DR20P-A8-D0740-C	114	7.4	8	76	2	-
DR20P-A8-D0750-C	114	7.5	8	76	2	-
DR20P-A8-D0760-C	114	7.6	8	76	2	-
DR20P-A8-D0770-C	114	7.7	8	76	2	-
DR20P-A8-D0780-C	114	7.8	8	76	2	-
DR20P-A8-D0790-C	114	7.9	8	76	2	-
DR20P-A8-D0800-C	114	8	8	76	2	-
DR20P-A8-D0810-C	142	8.1	10	95	2	-
DR20P-A8-D0820-C	142	8.2	10	95	2	-
DR20P-A8-D0830-C	142	8.3	10	95	2	0.09
DR20P-A8-D0840-C	142	8.4	10	95	2	-
DR20P-A8-D0850-C	142	8.5	10	95	2	-
DR20P-A8-D0860-C	142	8.6	10	95	2	-
DR20P-A8-D0870-C	142	8.7	10	95	2	-
DR20P-A8-D0880-C	142	8.8	10	95	2	-
DR20P-A8-D0890-C	142	8.9	10	95	2	-
DR20P-A8-D0900-C	142	9	10	95	2	-
DR20P-A8-D0910-C	142	9.1	10	95	2	-
DR20P-A8-D0920-C	142	9.2	10	95	2	-
DR20P-A8-D0930-C	142	9.3	10	95	2	-
DR20P-A8-D0940-C	142	9.4	10	95	2	-

• 長度單位 Unit of Length (mm)

DR20P-A8-C 碳化鎢鋼出水鑽頭 (DX8)
DR SOLID CARBIDE DRILL WITH INTERNAL COOLANT

KOVIT



先端角
140°
Spiral Pointed Angle

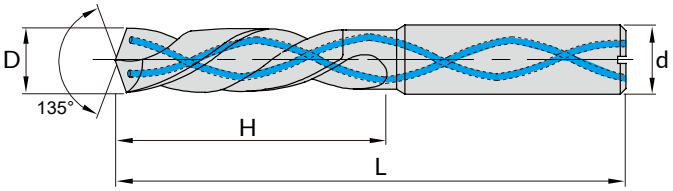
加工類型
P M K
Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR20P-A8-D0950-C	142	9.5	10	95	2	0.1
DR20P-A8-D0960-C	142	9.6	10	95	2	0.1
DR20P-A8-D0970-C	142	9.7	10	95	2	0.1
DR20P-A8-D0980-C	142	9.8	10	95	2	-
DR20P-A8-D0990-C	142	9.9	10	95	2	-
DR20P-A8-D1000-C	142	10	10	95	2	-
DR20P-A8-D1010-C	162	10.1	12	114	2	-
DR20P-A8-D1020-C	162	10.2	12	114	2	-
DR20P-A8-D1030-C	162	10.3	12	114	2	-
DR20P-A8-D1050-C	162	10.5	12	114	2	-
DR20P-A8-D1080-C	162	10.8	12	114	2	-
DR20P-A8-D1100-C	162	11	12	114	2	-
DR20P-A8-D1120-C	162	11.2	12	114	2	-
DR20P-A8-D1150-C	162	11.5	12	114	2	-
DR20P-A8-D1160-C	162	11.6	12	114	2	-
DR20P-A8-D1180-C	162	11.8	12	114	2	-
DR20P-A8-D1200-C	162	12	12	114	2	-
DR20P-A8-D1250-C	182	12.5	14	133	2	-
DR20P-A8-D1300-C	182	13	14	133	2	-
DR20P-A8-D1350-C	182	13.5	14	133	2	-
DR20P-A8-D1400-C	182	14	14	133	2	-
DR20P-A8-D1450-C	203	14.5	16	152	2	-
DR20P-A8-D1500-C	203	15	16	152	2	-
DR20P-A8-D1550-C	203	15.5	16	152	2	-
DR20P-A8-D1600-C	203	16	16	152	2	-

• 長度單位 Unit of Length (mm)

DR20P-A12-C 碳化鎢鋼出水鑽頭 (DX12)
DR SOLID CARBIDE DRILL WITH INTERNAL COOLANT

KOVIT



先端角
135°
Spiral Pointed Angle

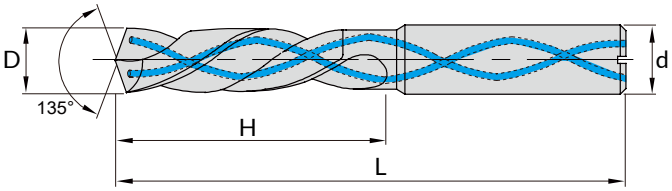
加工類型
P M K
Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR20P-A12-D0300-C	90	3	6	50	2	-
DR20P-A12-D0350-C	92	3.5	6	54	2	-
DR20P-A12-D0400-C	102	4	6	64	2	-
DR20P-A12-D0450-C	102	4.5	6	64	2	-
DR20P-A12-D0500-C	121	5	6	83	2	0.03
DR20P-A12-D0550-C	121	5.5	6	83	2	-
DR20P-A12-D0600-C	121	6	6	83	2	0.04
DR20P-A12-D0620-C	148	6.2	8	110	2	-
DR20P-A12-D0650-C	148	6.5	8	110	2	-
DR20P-A12-D0700-C	148	7	8	110	2	-
DR20P-A12-D0750-C	148	7.5	8	110	2	-
DR20P-A12-D0800-C	148	8	8	110	2	-
DR20P-A12-D0830-C	180	8.3	10	138	2	-
DR20P-A12-D0850-C	180	8.5	10	138	2	-
DR20P-A12-D0900-C	180	9	10	138	2	-
DR20P-A12-D0950-C	180	9.5	10	138	2	-
DR20P-A12-D1000-C	180	10	10	138	2	-
DR20P-A12-D1100-C	206	11	12	158	2	-
DR20P-A12-D1200-C	206	12	12	158	2	-

• 長度單位 Unit of Length (mm)

DR20P-A15-C 碳化鎢鋼出水鑽頭 (DX15)
DR SOLID CARBIDE DRILL WITH INTERNAL COOLANT

KOVIT



先端角
135°
Spiral Pointed Angle

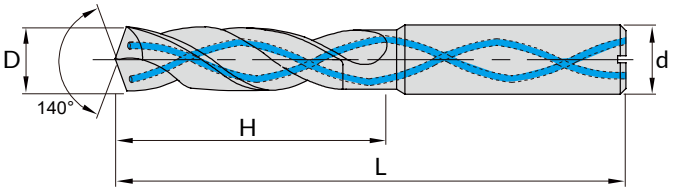
加工類型
P M K
Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR20P-A15-D0300-C	95	3	6	55	2	-
DR20P-A15-D0350-C	116	3.5	6	76	2	-
DR20P-A15-D0400-C	116	4	6	76	2	-
DR20P-A15-D0450-C	133	4.5	6	93	2	-
DR20P-A15-D0500-C	133	5	6	93	2	-
DR20P-A15-D0550-C	150	5.5	6	110	2	-
DR20P-A15-D0600-C	150	6	6	110	2	-
DR20P-A15-D0620-C	167	6.2	8	127	2	-
DR20P-A15-D0650-C	167	6.5	8	127	2	-
DR20P-A15-D0700-C	167	7	8	127	2	-
DR20P-A15-D0750-C	183	7.5	8	143	2	-
DR20P-A15-D0800-C	183	8	8	143	2	-
DR20P-A15-D0830-C	204	8.3	10	160	2	-
DR20P-A15-D0850-C	204	8.5	10	160	2	-
DR20P-A15-D0900-C	204	9	10	160	2	-
DR20P-A15-D0950-C	221	9.5	10	177	2	-
DR20P-A15-D1000-C	221	10	10	177	2	-
DR20P-A15-D1100-C	247	11	12	198	2	-
DR20P-A15-D1200-C	263	12	12	214	2	-

• 長度單位 Unit of Length (mm)

DR30M-A5-C 碳化鎢鋼出水鑽頭 (DX5)
DR SOLID CARBIDE DRILL WITH INTERNAL COOLANT

KOVIT



先端角
140°
Spiral Pointed Angle

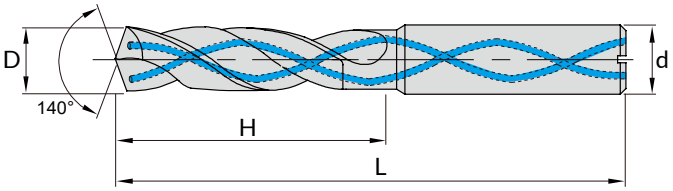
加工類型
M S
Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR30M-A5-D0500-C	82	5	6	44	2	-
DR30M-A5-D0510-C	82	5.1	6	44	2	-
DR30M-A5-D0520-C	82	5.2	6	44	2	-
DR30M-A5-D0550-C	82	5.5	6	44	2	-
DR30M-A5-D0555-C	82	5.55	6	44	2	-
DR30M-A5-D0580-C	82	5.8	6	44	2	-
DR30M-A5-D0600-C	82	6	6	44	2	-
DR30M-A5-D0610-C	91	6.1	6	53	2	-
DR30M-A5-D0620-C	91	6.2	8	53	2	-
DR30M-A5-D0630-C	91	6.3	8	53	2	-
DR30M-A5-D0650-C	91	6.5	8	53	2	-
DR30M-A5-D0660-C	91	6.6	8	53	2	-
DR30M-A5-D0680-C	91	6.8	8	53	2	-
DR30M-A5-D0690-C	91	6.9	8	53	2	-
DR30M-A5-D0700-C	91	7	8	53	2	-
DR30M-A5-D0710-C	91	7.1	8	53	2	-
DR30M-A5-D0740-C	91	7.4	8	53	2	-
DR30M-A5-D0750-C	91	7.5	8	53	2	-
DR30M-A5-D0780-C	91	7.8	8	53	2	-
DR30M-A5-D0800-C	91	8	8	53	2	-
DR30M-A5-D0810-C	103	8.1	10	61	2	-
DR30M-A5-D0840-C	103	8.4	10	61	2	-
DR30M-A5-D0850-C	103	8.5	10	61	2	-
DR30M-A5-D0860-C	103	8.6	10	61	2	-
DR30M-A5-D0870-C	103	8.7	10	61	2	-
DR30M-A5-D0880-C	103	8.8	10	61	2	-
DR30M-A5-D0900-C	103	9	10	61	2	-

• 長度單位 Unit of Length (mm)

DR30M-A5-C 碳化鎢鋼出水鑽頭 (DX5)
DR SOLID CARBIDE DRILL WITH INTERNAL COOLANT

KOVIT



先端角
140°
Spiral Pointed Angle

加工類型
M S
Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR30M-A5-D0930-C	103	9.3	10	61	2	-
DR30M-A5-D0950-C	103	9.5	10	61	2	-
DR30M-A5-D0960-C	103	9.6	10	61	2	-
DR30M-A5-D0980-C	103	9.8	10	61	2	-
DR30M-A5-D1000-C	103	10	10	61	2	-
DR30M-A5-D1025-C	118	10.25	12	71	2	-
DR30M-A5-D1050-C	118	10.5	12	71	2	-
DR30M-A5-D1060-C	118	10.6	12	71	2	-
DR30M-A5-D1080-C	118	10.8	12	71	2	-
DR30M-A5-D1100-C	118	11	12	71	2	-
DR30M-A5-D1120-C	118	11.2	12	71	2	-
DR30M-A5-D1150-C	118	11.5	12	71	2	-
DR30M-A5-D1180-C	118	11.8	12	71	2	-
DR30M-A5-D1190-C	118	11.9	12	71	2	-
DR30M-A5-D1200-C	118	12	12	71	2	-
DR30M-A5-D1250-C	124	12.5	14	77	2	-
DR30M-A5-D1300-C	124	13	14	77	2	-
DR30M-A5-D1350-C	124	13.5	14	77	2	-
DR30M-A5-D1400-C	124	14	14	77	2	-
DR30M-A5-D1450-C	133	14.5	16	83	2	-
DR30M-A5-D1500-C	133	15	16	83	2	-
DR30M-A5-D1550-C	133	15.5	16	83	2	-

• 長度單位 Unit of Length (mm)

碳化鎢鋼出水鑽頭切削數據
DR SOLID CARBIDE DRILL WITH INTERNAL COOLANT CUTTING PARAMETERS

KOVIT

DR20P-A5C

被加工材質 Machining Materials		切削速度 Speed	進給率 (mm/rev)						
		V_c (m/min)	Ø3	Ø4	Ø6	Ø8	Ø10	Ø12	Ø16
P	合金鋼 Alloyed Steels	80 (60~110)	0.13 (0.09-0.16)	0.17 (0.12-0.23)	0.20 (0.14-0.28)	0.20 (0.14-0.28)	0.20 (0.14-0.30)	0.23 (0.15-0.32)	0.25 (0.18-0.35)
M	不鏽鋼 Stainless Steels	50 (40~60)	0.06 (0.04-0.08)	0.06 (0.04-0.08)	0.08 (0.06-0.10)	0.08 (0.06-0.10)	0.10 (0.08-0.12)	0.10 (0.08-0.12)	0.12 (0.10-0.14)
K	鑄鐵 Cast Iron	100 (60~140)	0.15 (0.11-0.18)	0.17 (0.13-0.20)	0.20 (0.15-0.25)	0.25 (0.17-0.32)	0.28 (0.20-0.36)	0.30 (0.22-0.42)	0.35 (0.25-0.45)

DR20P-A8C

被加工材質 Machining Materials		切削速度 Speed	進給率 (mm/rev)						
		V_c (m/min)	Ø3	Ø4	Ø6	Ø8	Ø10	Ø12	Ø16
P	合金鋼 Alloyed Steels	80 (60~110)	0.13 (0.09-0.16)	0.17(0.12-0.23)	0.20 (0.14-0.28)	0.20 (0.14-0.28)	0.20 (0.14-0.30)	0.23 (0.15-0.32)	0.25 (0.18-0.35)
M	不鏽鋼 Stainless Steels	50 (40~60)	0.06 (0.04-0.08)	0.06(0.04-0.08)	0.08 (0.06-0.10)	0.08 (0.06-0.10)	0.10 (0.08-0.12)	0.10 (0.08-0.12)	0.12 (0.10-0.14)
K	鑄鐵 Cast Iron	100 (60~140)	0.15 (0.11-0.18)	0.17(0.13-0.20)	0.20 (0.15-0.25)	0.25 (0.17-0.32)	0.28 (0.20-0.36)	0.30 (0.22-0.42)	0.35 (0.25-0.45)

DR20P-A12C/15C

被加工材質 Machining Materials		切削速度 Speed	進給率 (mm/rev)						
		V_c (m/min)	Ø3	Ø4	Ø6	Ø8	Ø10	Ø12	Ø16
P	合金鋼 Alloyed Steels	80 (60~110)	0.13 (0.09-0.16)	0.17 (0.12-0.23)	0.20 (0.14-0.28)	0.20 (0.14-0.28)	0.20 (0.14-0.30)	0.23 (0.15-0.32)	0.25 (0.18-0.35)
M	不鏽鋼 Stainless Steels	50 (40~60)	0.06 (0.04-0.08)	0.06 (0.04-0.08)	0.08 (0.06-0.10)	0.08 (0.06-0.10)	0.10 (0.08-0.12)	0.10 (0.08-0.12)	0.12 (0.10-0.14)
K	鑄鐵 Cast Iron	100 (60~140)	0.15 (0.11-0.18)	0.17 (0.13-0.20)	0.20 (0.15-0.25)	0.25 (0.17-0.32)	0.28 (0.20-0.36)	0.30 (0.22-0.42)	0.35 (0.25-0.45)

DR30M-A5C

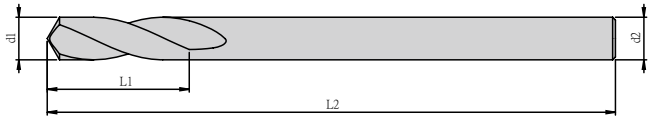
被加工材質 Machining Materials		切削速度 Speed	進給率 (mm/rev)						
		V_c (m/min)	Ø3	Ø4	Ø6	Ø8	Ø10	Ø12	Ø16
M	不鏽鋼 Stainless Steels	60 (40~80)	0.08 (0.04-0.10)	0.08 (0.06-0.10)	0.08 (0.06-0.12)	0.10 (0.08-0.14)	0.12 (0.10-0.18)	0.14 (0.10-0.18)	0.25 (0.18-0.35)
S	高溫合金 Refractory Alloys	35 (20~50)	0.06 (0.04-0.08)	0.08 (0.05-0.10)	0.09 (0.06-0.12)	0.10 (0.08-0.12)	0.12 (0.10-0.16)	0.14 (0.10-0.18)	0.12 (0.10-0.14)

• 長度單位 Unit of Length (mm)

DR10U 超微粒鎢鋼定點鑽
DR10U ULTRA-MICRON SOILD CARBIDE SPOT DRILL

KOVIT

NEW



特點 Feature

-工件導引孔定位用，兼具倒角功能
-適用在車床、銑床
-提供60度、90度、120度，不同選擇

-Ideal for spotting and chamfering.
-Applicable for lathe and milling machines.
-Offer 60°, 90° and 120°.

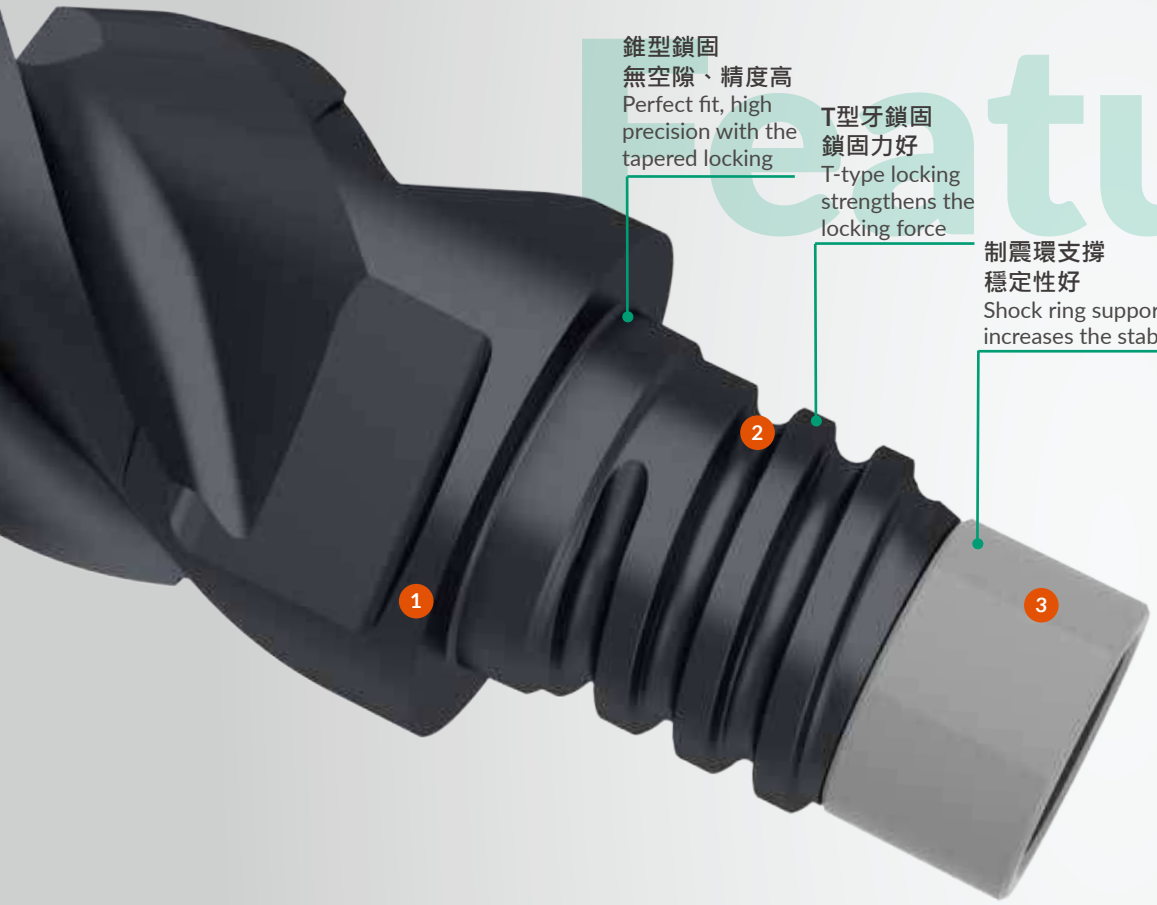
規格 Spec.	D	L1	L2	柄徑 d	角度 Angle	加工材質 Materials
DR10U-D030-90	3	10	40	3	90	泛用型
DR10U-D040-90	4	12	50	4	90	
DR10U-D050-90	5	15	50	5	90	
DR10U-D060-90	6	20	50	6	90	
DR10U-D080-90	8	25	60	8	90	
DR10U-D100-90	10	25	75	10	90	
DR10U-D120-90	12	30	75	12	90	
DR10U-D030-120	3	10	40	3	120	
DR10U-D040-120	4	12	50	4	120	
DR10U-D050-120	5	15	50	5	120	
DR10U-D060-120	6	20	50	6	120	
DR10U-D080-120	8	25	60	8	120	
DR10U-D100-120	10	25	75	10	120	
DR10U-D120-120	12	30	75	12	120	
DR10U-D030-60	3	10	40	3	60	
DR10U-D040-60	4	12	50	4	60	
DR10U-D050-60	5	15	50	5	60	
DR10U-D060-60	6	20	50	6	60	
DR10U-D080-60	8	25	60	8	60	
DR10U-D100-60	10	25	75	10	60	
DR10U-D120-60	12	30	75	12	60	

被加工材質 Machining Materials		切削速度 Speed	進給率 (mm/rev)					
		V_C (m/min)	ψ3	ψ4	ψ6	ψ8	ψ10	ψ12
P	合金鋼 Alloyed Steels	40-85	0.04~0.08	0.05~0.12	0.06~0.13	0.08~0.16	0.1~0.2	0.15~0.25
K	鑄鐵 Cast Iron	65-100	0.05~0.09	0.07~0.15	0.12~0.2	0.15~0.2	0.10~0.25	0.20~0.30
H (HRC38-48)	高硬度材 Hard Material	15-25	0.04~0.08	0.05~0.12	0.06~0.13	0.08~0.16	0.1~0.2	0.15~0.25

• 長度單位 Unit of Length (mm)

STM

抑震錐固型鎖牙系列



錐型鎖固
無空隙、精度高
Perfect fit, high precision with the tapered locking

T型牙鎖固
鎖固力好
T-type locking strengthens the locking force

制震環支撐
穩定性好
Shock ring support increases the stability.

雙面挶束、錐度貼合、軸徑向精度提升
Double-sided truss, taper fit, better Axial and radial direction accuracy

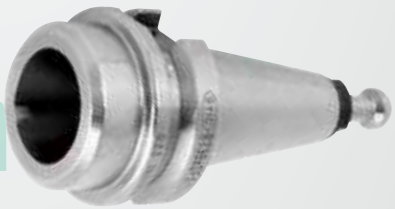
牙底圓弧設計 降低集中應力
Bottom arc design reduces concentrated stress

柔性支撐貼合、有效吸震
Flexible support fit, effective shock absorption

C/TM錐固型鎖牙式鎢鋼延長桿
C/tm Straight Shank Tungsten Carbide Extension Shank

SFC燒結式刀桿
Sintered Shank

SFS後拉式鎖牙延長桿
Rear Pull Lock Cylinder Extension Shank

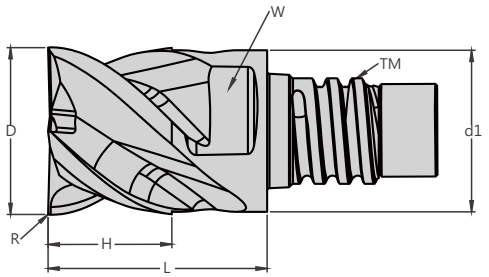


SFS後拉式刀桿
Rear Pull shank chuck

Shock Absorption
Tapered Locking System

STM 抑震錐固型鎖牙式銑刀
STM INTERCHANGEABLE SOLID CARBIDE ENDMILL HEAD

KOVIT NEW

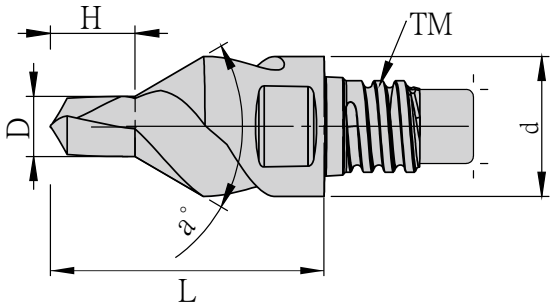


規格 Spec.	L	D	d	H	r	T	θ	TM	W	重量 (KGS) Weight
STM45-10-STM6-13L	13	10	9.6	7	0	4	45°	TM6	TM6-W	0.01

被加工材質 Machining Materials		切削速度 Speed V_C (m/min)	每刃進給 F_Z(m/rev)
P	合金鋼 Alloyed Steels	50~140	0.05~0.2
M	不鏽鋼 Stainless Steels	80~120	0.05~0.1
K	鑄鐵 Cast Iron	80~250	0.1~0.2

STM 抑震錐固型鎖牙式中心鑽
STM INTERCHANGEABLE SOLID CARBIDE CENTER DRILL

KOVIT NEW



規格 Spec.	D	d	H	L	TM	a°
STM60-41-STM6-19L	4.1	10	5.9	19	TM6	60

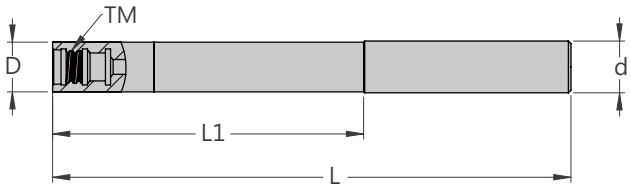
被加工材質 Machining Materials		切削速度 Speed V_C (m/min)	每刃進給 F_Z(m/rev)
P	合金鋼 Alloyed Steels	50~140	0.05~0.12
M	不鏽鋼 Stainless Steels	80~120	0.05~0.08
K	鑄鐵 Cast Iron	80~250	0.1~0.15

• 長度單位 Unit of Length (mm)

C/STM 錐固型鎖牙式鎢鋼延長桿
C/TM STRAIGHT SOILD CARBIDE EXTENSION SHANK

KOVIT

NEW

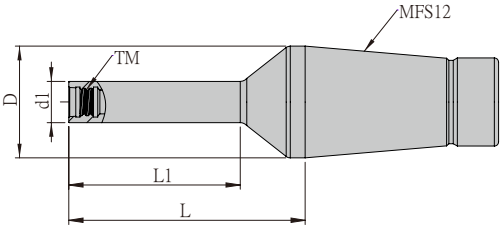


規格 Spec.	L	D	d	L1	TM	重量 (KGS) Weight
C10-STM6-100	100	10	9.6	7	TM6	0.1

SFS 後拉式鎖牙延長桿
SFS REAR PULL LOCK THREADED EXTENSION SHANK

KOVIT

NEW



特點 Feature

- 材質 : 合金鋼
- 需搭配 SFS 後拉式立銑刀夾頭做使用

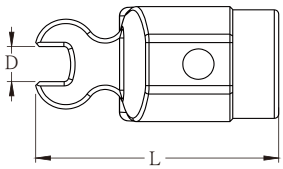
-Material: SNCM220
-Need to be used with SFS slim-fit collet chuck.

規格 Spec.	L	D	d	L1	TM	重量 (KGS) Weight
SFS12-STM6-55	55	26	9.6	40	TM6	0.18

STM6 開口型扭力扳手頭
STM6 SPANNER HEAD

KOVIT

NEW

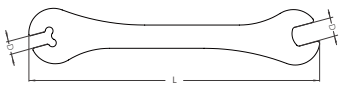


規格 Spec.	L	D	扭力值 (N.m) Torque	重量 (KGS) Weight
STM6-LH	55	8	10	0.12

TM6 開口扳手
TM6 SPANNER

KOVIT

NEW



規格 Spec.	L	D	重量 (KGS) Weight
TM6-W	125	8	0.03

• 長度單位 Unit of Length (mm)

鎢鋼銑刀系列—

Feature

- 原料採用德國進口碳化鎢材料
  German strength
- 對特定材料粗加工效率高
  精加工表面品質高
  Clean finishing
- 穩定的性能加工
  Stable processing

Carbide End Mills

鎢鋼銑刀編碼規範
SOLID CARBIDE END MILL CODING KEY

KOVIT

記號 Symbol	銑刀類別 Type
EM	立銑刀 End Mill
BE	球型立球刀 Ball End mill
RE	圓鼻立銑刀 Corner-radius End mill

① 類別 Catelogue

記號 Symbol	加工材質 Material
U	通用型 General
S	合金鋼 Alloyed Steels
M	不銹鋼 Stainless Steels
N	非鐵合金 Non-Ferrous Metals
T	鈦合金 Ti
H	高硬度材 Hard Material

② 加工類別 Materials

記號 Symbol
2
3
4
5
6

③ 刃數 Flutes

記號 Symbol
15°
20°
30°
35°
45°
55°
VH 不等旋角 Unequal Spiral

④ 螺旋角 Helix Angle

記號 Symbol	刃長 Diameter
L	加長型 Long
-	一般刃長 Standard

⑤ 加長型 Long Type

記號 Symbol	刃長 Diameter
D	刃徑 Flute Dia.
R	半徑 Radius

⑥ 刃徑 / 半徑 Radius

EM ① - **N** ② - **3** ③ - **45** ④ - **L** ⑤ - **D080/R0010** ⑥

d080 ⑦ 柄徑 Shank Diameter

R30 ⑧ R 角 Radius Angle

記號 Symbol	
02	0.2
03	0.3
05	0.5
10	1.0
20	2.0
30	3.0

N01 ⑨ 頸長 (含刃長) Flute Length

記號 Symbol	
02	2mm
04	4mm
06	6mm
08	8mm
10	10mm

H30.0 ⑩ 一般刃長 Standard

075L ⑪ 全長 Overall Length

銑刀材質
End Mills Material

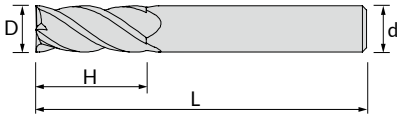
項目 Item	ISO 範圍 ISO Range	含鈷量 % Cobalt Content	鎢鋼種類 Tungsten Steel Type	顆粒大小 Size of Granular	適用範圍 Scope of Application
EMH、BEH、REH 高硬度專用系列銑刀 Specialize for Hard Material End Mills	K20-K30	9%	粉末微粒 Nano Micro Grain	<0.5μ	高硬度材質 Hard Material 合金鋼 Alloy Steels 鑄鐵 Cast Iron
EMS、BES、RES EMN、BEN、EMM 系列銑刀 End Mills Series	K40-K50	12%	超微粒 Ultra-micro	0.5μ	合金鋼 Alloyed Steel 不鏽鋼 Stainless Steels 鑄鐵 Cast Iron 非鐵合金 Non-ferrous Alloy
EMT 抗震型系列 Anti Vibration Series	K40-K50	12~13%	超微粒 Ultra-micro	0.5-0.6μ	不鏽鋼 Stainless Steels 鈦合金 Titanium Alloy 非鐵合金 Non-ferrous Alloy

• 長度單位 Unit of Length (mm)

EMH 碳化鎢鋼立銑刀微小徑高硬度專用
EMH SOLID CARBIDE MINI END MILL FOR HARDENED STEEL

KOVIT

EMH235 高硬度專用 2 刃



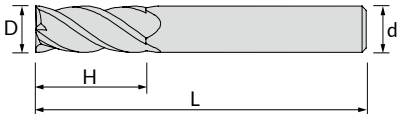
規格 Spec.	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
EMH235-D002d040-H0.4-050L	50	0.2	4	0.4	2	35	-	P：++ M：+ K：++ H：++	HRC45°~62°
EMH235-D003d040-H0.6-050L	50	0.3	4	0.6	2	35	-		
EMH235-D004d040-H0.8-050L	50	0.4	4	0.8	2	35	-		
EMH235-D005d040-H1.0-050L	50	0.5	4	1.0	2	35	-		
EMH235-D006d040-H1.2-050L	50	0.6	4	1.2	2	35	-		
EMH235-D007d040-H1.4-050L	50	0.7	4	1.4	2	35	-		
EMH235-D008d040-H1.6-050L	50	0.8	4	1.6	2	35	-		
EMH235-D009d040-H1.8-050L	50	0.9	4	1.8	2	35	-		
EMH235-D010d040-H2.0-050L	50	1.0	4	2.0	2	35	-		
EMH235-D011d040-H2.2-050L	50	1.1	4	2.2	2	35	-		
EMH235-D012d040-H2.4-050L	50	1.2	4	2.4	2	35	-		
EMH235-D013d040-H2.6-050L	50	1.3	4	2.6	2	35	-		
EMH235-D014d040-H2.8-050L	50	1.4	4	2.8	2	35	-		
EMH235-D015d040-H3.0-050L	50	1.5	4	3.0	2	35	-		
EMH235-D016d040-H3.2-050L	50	1.6	4	3.2	2	35	-		
EMH235-D017d040-H3.4-050L	50	1.7	4	3.4	2	35	-		
EMH235-D018d040-H3.6-050L	50	1.8	4	3.6	2	35	-		
EMH235-D019d040-H3.8-050L	50	1.9	4	3.8	2	35	-		
EMH235-D020d040-H4.0-050L	50	2.0	4	4.0	2	35	-		
EMH235-D021d040-H4.2-050L	50	2.1	4	4.2	2	35	-		
EMH235-D022d040-H4.4-050L	50	2.2	4	4.4	2	35	-		
EMH235-D023d040-H4.6-050L	50	2.3	4	4.6	2	35	-		
EMH235-D024d040-H4.8-050L	50	2.4	4	4.8	2	35	-		
EMH235-D025d040-H5.0-050L	50	2.5	4	5.0	2	35	-		
EMH235-D026d040-H5.2-050L	50	2.6	4	5.2	2	35	-		
EMH235-D027d040-H5.4-050L	50	2.7	4	5.4	2	35	-		
EMH235-D028d040-H5.6-050L	50	2.8	4	5.6	2	35	-		
EMH235-D029d040-H5.8-050L	50	2.9	4	5.8	2	35	-		
EMH235-D030d040-H6.0-050L	50	3.0	4	6.0	2	35	-		

• 長度單位 Unit of Length (mm)

EMH 碳化鎢鋼立銑刀高硬度專用
EMH SOLID CARBIDE END MILL FOR HARDENED STEEL

KOVIT

EMH445 高硬度專用 4 刃

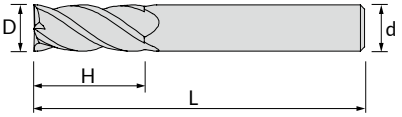


規格 Spec.	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
EMH445-D030d040-H7.5-050L	50	3	4	7.5	4	45	-	P：++ M：+ K：++ H：++	HRC45°~62°
EMH445-D040d040-H10.0-050L	50	4	4	10	4	45	-		
EMH445-D050d060-H12.0-050L	50	5	6	12	4	45	-		
EMH445-D060d060-H15.0-060L	60	6	6	15	4	45	-		
EMH445-D080d080-H20.0-060L	60	8	8	20	4	45	-		
EMH445-D100d100-H25.0-075L	75	10	10	25	4	45	-		
EMH445-D120d120-H30.0-075L	75	12	12	30	4	45	-		

EMS 碳化鎢鋼微小徑立銑刀
EMS SOLID CARBIDE MINI END MILL

KOVIT

EMS235 2 刃



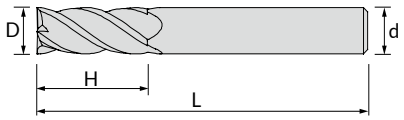
規格 Spec.	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
EMS235-D002d030-H0.6-038L	38	0.2	3	0.6	2	35	-	P：++ M：+ K：++	HRC15°~45°
EMS235-D003d030-H1.0-038L	38	0.3	3	1.0	2	35	-		
EMS235-D004d030-H1.0-038L	38	0.4	3	1.0	2	35	-		
EMS235-D005d030-H1.5-038L	38	0.5	3	1.5	2	35	-		
EMS235-D006d030-H1.5-038L	38	0.6	3	1.5	2	35	-		
EMS235-D007d030-H2.0-038L	38	0.7	3	2.0	2	35	-		
EMS235-D008d030-H2.0-038L	38	0.8	3	2.0	2	35	-		
EMS235-D009d030-H2.5-038L	38	0.9	3	2.5	2	35	-		

• 長度單位 Unit of Length (mm)

EMS 碳化鎢鋼立銑刀
EMS SOLID CARBIDE END MILL

KOVIT

EMS445　4 刃

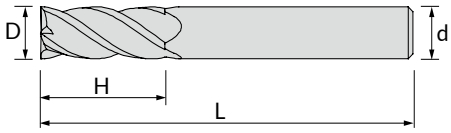


規格 Spec.	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
EMS445-D010d040-H3.0-050L	50	1	4	3	4	45	-	P：++ M：+ K：++	HRC15°~45°
EMS445-D020d040-H5.0-050L	50	2	4	5	4	45	-		
EMS445-D030d040-H7.5-050L	50	3	4	7.5	4	45	-		
EMS445-D040d040-H10.0-050L	50	4	4	10	4	45	-		
EMS445-D050d060-H12.0-050L	50	5	6	12	4	45	-		
EMS445-D060d060-H15.0-060L	60	6	6	15	4	45	-		
EMS445-D080d080-H20.0-060L	60	8	8	20	4	45	-		
EMS445-D100d100-H30.0-075L	75	10	10	30	4	45	-		
EMS445-D120d120-H30.0-075L	75	12	12	30	4	45	-		

EMN 碳化鎢鋼立銑刀鋁合金專用
EMN SOLID CARBIDE MINI END MILL FOR ALUMINUM

KOVIT

EMN245　鋁合金專用　2 刃

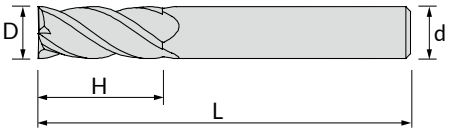


規格 Spec.	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
EMN245-D010d040-H3.0-050L	50	1	4	3	2	45	-	N：++	HRC15°~45°
EMN245-D020d040-H6.0-050L	50	2	4	6	2	45	-		
EMN245-D030d040-H9.0-050L	50	3	4	9	2	45	-		
EMN245L-D010d040-H4.0-050L	50	1	4	4	2	45	-		
EMN245L-D020d040-H8.0-050L	50	2	4	8	2	45	-		
EMN245L-D030d040-H12.0-050L	50	3	4	12	2	45	-		

EMN 碳化鎢鋼立銑刀鋁合金專用
EMN SOLID CARBIDE MINI END MILL FOR ALUMINUM

KOVIT

EMN345　鋁合金專用　3 刃



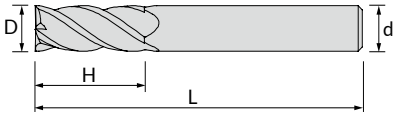
規格 Spec.	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
EMN345-D040d040-H12.0-050L	50	4	4	12	3	45	-	N：++	HRC15°~45°
EMN345-D050d060-H15.0-050L	50	5	6	15	3	45	-		
EMN345-D060d060-H18.0-060L	60	6	6	18	3	45	-		
EMN345-D080d080-H20.0-060L	60	8	8	20	3	45	-		
EMN345-D100d100-H26.0-075L	75	10	10	26	3	45	-		
EMN345-D120d120-H30.0-075L	75	12	12	30	3	45	-		
EMN345L-D040d040-H16.0-050L	50	4	4	16	3	45	-		
EMN345L-D050d060-H20.0-060L	60	5	6	20	3	45	-		
EMN345L-D060d060-H24.0-075L	75	6	6	24	3	45	-		
EMN345L-D080d080-H30.0-075L	75	8	8	30	3	45	-		
EMN345L-D100d100-H40.0-100L	100	10	10	40	3	45	-		
EMN345L-D120d120-H45.0-100L	100	12	12	45	3	45	-		

• 長度單位 Unit of Length (mm)

EMM 碳化鎢鋼立銑刀不銹鋼專用
EMM SOLID CARBIDE END MILL FOR STAINLESS STEEL

KOVIT

EMM445 | 不銹鋼專用 | 4 刃

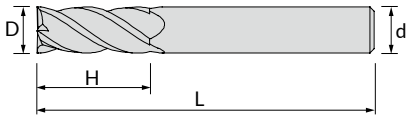


規格 Spec.	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
EMM445-D040d040-L10.0-050L	50	4	4	10	4	45	-	P : +	HRC25°~42°
EMM445-D060d060-H15.0-060L	60	6	6	15	4	45	-	M : ++	
EMM445-D080d080-H20.0-060L	60	8	8	20	4	45	-	K : +	
EMM445-D100d100-H30.0-075L	75	10	10	30	4	45	-		
EMM445-D120d120-H30.0-075L	75	12	12	30	4	45	-		

EMT4VH 碳化鎢鋼立銑刀高溫合金專用
EMT4VH SOLID CARBIDE END MILL FOR REFRACTORY ALLOY

KOVIT

EMT4VH | 高溫合金專用 | 不等分割系列 | 抗震型 | 4 刃

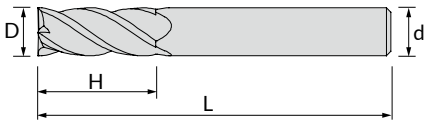


規格 Spec.	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
EMT4VH-D030d060-H8.0-050L	50	3	6	8	4	38/41	-	P : +	<HRC60°
EMT4VH-D040d060-H11.0-050L	50	4	6	11	4	38/41	-	M : ++	
EMT4VH-D050d060-H14.0-050L	50	5	6	14	4	38/41	-	K : +	
EMT4VH-D060d060-H16.0-050L	50	6	6	16	4	38/41	-	H : ++	
EMT4VH-D080d060-H20.0-060L	60	8	8	20	4	38/41	-	S : ++	
EMT4VH-D100d100-H25.0-075L	75	10	10	25	4	38/41	-		
EMT4VH-D120d120-H30.0-075L	75	12	12	30	4	38/41	-		

EMT3VH 碳化鎢鋼立銑刀鋁合金專用
EMT3VH SOLID CARBIDE END MILL FOR ALUMINUM

KOVIT

EMT3VH | 鋁合金專用 | 不等分割系列 | 抗震型 | 3 刃



規格 Spec.	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
EMN3VH-D030d060-H9.0-050L	50	3	6	9	3	38/41	-	N : ++	-
EMN3VH-D040d060-H12.0-050L	50	4	6	12	3	38/41	-		
EMN3VH-D050d060-H14.0-050L	50	5	6	14	3	38/41	-		
EMN3VH-D060d060-H16.0-050L	50	6	6	16	3	38/41	-		
EMN3VH-D080d080-H20.0-060L	60	8	8	20	3	38/41	-		
EMN3VH-D100d100-H25.0-075L	75	10	10	25	3	38/41	-		
EMN3VH-D120d120-H30.0-075L	75	12	12	30	3	38/41	-		

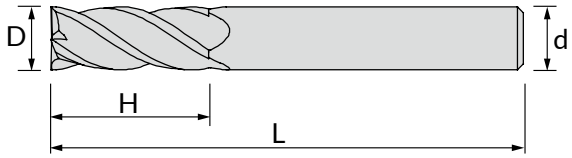
• 長度單位 Unit of Length (mm)

EMU 碳化鎢鋼立銑刀
EMU SOLID CARBIDE END MILL

4 刃

KOVIT

NEW



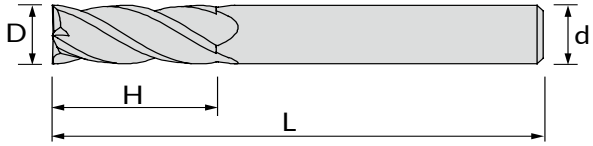
規格 Spec.	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
EMU-0150	50	1	4	3	4	45	-	P：++ M：+ K：++	<HRC50°
EMU-0250	50	2	4	6	4	45	-		
EMU-0350	50	3	3	8	4	45	-		
EMU-0375	75	3	3	8	4	45	-		
EMU-0450	50	4	4	11	4	45	-		
EMU-0475	75	4	4	11	4	45	-		
EMU-0650	50	6	6	15	4	45	-		
EMU-0675	75	6	6	15	4	45	-		
EMU-0860	60	8	8	20	4	45	-		
EMU-0875	75	8	8	20	4	45	-		
EMU-1075	75	10	10	30	4	45	-		
EMU-10100	100	10	10	30	4	45	-		
EMU-1275	75	12	12	30	4	45	-		
EMU-12100	100	12	12	30	4	45	-		

EUN 碳化鎢鋼立銑刀鋁合金專用
EUN SOLID CARBIDE END MILL FOR ALUMINUM

鋁合金專用　3 刃

KOVIT

NEW



規格 Spec.	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
EUN-0150	50	1	4	3	3	50	-	N：++	-
EUN-0250	50	2	4	6	3	50	-		
EUN-0350	50	3	4	9	3	50	-		
EUN-0450	50	4	4	12	3	50	-		
EUN-0650	50	6	6	18	3	50	-		
EUN-0860	60	8	8	24	3	50	-		
EUN-1075	75	10	10	30	3	50	-		
EUN-1275	75	12	12	36	3	50	-		

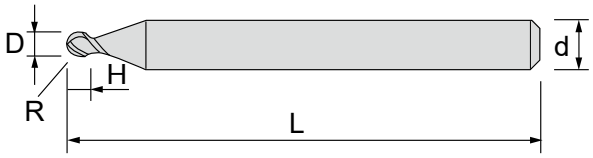
• 長度單位 Unit of Length (mm)

BMU 碳化鎢鋼球型立銑刀
BMU SOLID CARBIDE BALL NOSE END MILL

KOVIT

NEW

2 刃



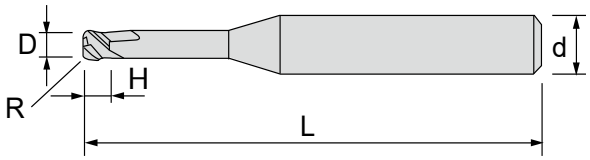
規格 Spec.	R	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
BMU-0150	0.5R	50	1	4	2	2	30	-	P：++ M：+ K：++	<HRC50°
BMU-0250	1R	50	2	4	4	2	30	-		
BMU-0350	1.5R	50	3	3	6	2	30	-		
BMU-0375	1.5R	75	3	3	6	2	30	-		
BMU-0450	2R	50	4	4	8	2	30	-		
BMU-0475	2R	75	4	4	8	2	30	-		
BMU-0650	3R	50	6	6	12	2	30	-		
BMU-0675	3R	75	6	6	12	2	30	-		
BMU-0860	4R	60	8	8	16	2	30	-		
BMU-0875	4R	75	8	8	16	2	30	-		
BMU-1075	5R	75	10	10	20	2	30	-		
BMU-10100	5R	100	10	10	20	2	30	-		
BMU-1275	6R	75	12	12	24	2	30	-		
BMU-12100	6R	100	12	12	24	2	30	-		

RMU 碳化鎢鋼圓鼻立銑刀
RMU SOLID CARBIDE CORNER RADIUS END MILL

KOVIT

NEW

4 刃



規格 Spec.	R	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
RMU-015002	0.2	50	1	4	2	4	45	-	P：++ M：+ K：++	<HRC50°
RMU-025002	0.2	50	2	4	4	4	45	-		
RMU-025005	0.5	50	2	4	4	4	45	-		
RMU-035002	0.2	50	3	3	6	4	45	-		
RMU-035005	0.5	50	3	3	6	4	45	-		
RMU-035010	1	50	3	3	6	4	45	-		
RMU-037502	0.2	75	3	3	6	4	45	-		
RMU-037505	0.5	75	3	3	6	4	45	-		
RMU-045002	0.2	50	4	4	8	4	45	-		
RMU-045005	0.5	50	4	4	8	4	45	-		
RMU-045010	1	50	4	4	8	4	45	-		
RMU-047502	0.2	75	4	4	8	4	45	-		
RMU-047505	0.5	75	4	4	8	4	45	-		
RMU-047510	1	75	4	4	8	4	45	-		

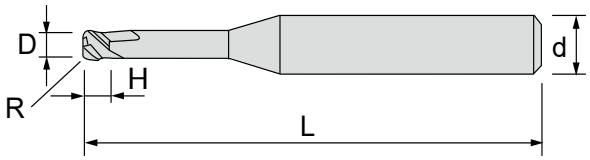
• 長度單位 Unit of Length (mm)

RMU 碳化鎢鋼圓鼻立銑刀
RMU SOLID CARBIDE CORNER RADIUS END MILL

4 刃

KOVIT

NEW



規格 Spec.	R	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
RMU-065002	0.2	50	6	6	12	4	45	-	P：++ M：+ K：++	<HRC50°
RMU-065005	0.5	50	6	6	12	4	45	-		
RMU-065010	1	50	6	6	12	4	45	-		
RMU-065015	1.5	50	6	6	12	4	45	-		
RMU-067502	0.2	75	6	6	12	4	45	-		
RMU-067505	0.5	75	6	6	12	4	45	-		
RMU-067510	1	75	6	6	12	4	45	-		
RMU-086002	0.2	60	8	8	16	4	45	-		
RMU-086005	0.5	60	8	8	16	4	45	-		
RMU-086010	1	60	8	8	16	4	45	-		
RMU-086020	2	60	8	8	16	4	45	-		
RMU-087502	0.2	75	8	8	16	4	45	-		
RMU-087505	0.5	75	8	8	16	4	45	-		
RMU-087510	1	75	8	8	16	4	45	-		
RMU-107505	0.5	75	10	10	20	4	45	-		
RMU-107510	1	75	10	10	20	4	45	-		
RMU-107520	2	75	10	10	20	4	45	-		
RMU-1010005	0.5	100	10	10	20	4	45	-		
RMU-1010010	1	100	10	10	20	4	45	-		
RMU-1010020	2	100	10	10	20	4	45	-		
RMU-127505	0.5	75	12	12	24	4	45	-		
RMU-127510	1	75	12	12	24	4	45	-		
RMU-127520	2	75	12	12	24	4	45	-		
RMU-127530	3	75	12	12	24	4	45	-		
RMU-1210005	0.5	100	12	12	24	4	45	-		
RMU-1210010	1	100	12	12	24	4	45	-		
RMU-1210020	2	100	12	12	24	4	45	-		
RMU-1210030	3	100	12	12	24	4	45	-		

• 長度單位 Unit of Length (mm)

碳化鎢鋼立銑刀
SOLID CARBIDE END MILL

KOVIT

立銑刀側銑 End Mill Side Milling:

立銑刀系列 End mill	材料硬度 Material hardness	切削速度 Speed (m/min)	加工深度 Ap (mm)	切寬 Ae (mm)	每刃進給 (mm/rev)
EMS、EMN、EMM EMU、EUN	HRC<10	VC=150-360	D*0.5~D*2.5	D*0.01~D*0.10	D*0.01~0.02
	HRC10-25	VC=120-210	D*0.5~D*2.0	D*0.01~D*0.05	D*0.01~0.02
	HRC25-40	VC=90-180	D*0.5~D*1.5	D*0.01~D*0.025	D*0.01~0.02
EMH 系列	HRC30-40	VC=120~210	D*0.5~D*1.5	D*0.01~D*0.025	D*0.01~0.02
	HRC40-50	VC=120-180	D*0.5~D*1.0	D*0.005~D*0.015	D*0.01~0.02
	HRC50-62	VC=120~150	D*0.5~D*1.0	D*0.005~D*0.01	D*0.01~0.02
EMT 系列	HRC30-50	VC=120~200	D*0.1~D*2.5	D*0.01~D*0.02	D*0.01~0.02
EMT 系列	HRC>50	VC=100~120	D*0.1~D*1.0	D*0.01~D*0.02	D*0.01~0.02

球型立銑刀 Ball End Mill:

球型立銑刀系列 Ball End Mill	材料硬度 Material hardness	切削速度 Speed (m/min)	加工深度 Ap (mm)	切寬 Ae (mm)	每刃進給 (mm/rev)
BES、BEN BMU	HRC<10	VC=150-390	D*0.01~D*0.20	D*0.01~D*0.03	D*0.01~0.02
	HRC10-25	VC=120-240	D*0.01~D*0.05	D*0.01~D*0.03	D*0.01~0.02
	HRC25-40	VC=90-210	D*0.01~D*0.03	D*0.01~D*0.025	D*0.01~0.02
BEH 系列	HRC30-40	VC=120~240	D*0.01~D*0.03	D*0.01~D*0.025	D*0.01~0.02
	HRC40-50	VC=120~210	D*0.01~D*0.02	D*0.005~D*0.02	D*0.01~0.02
	HRC50-62	VC=120~180	D*0.005~D*0.01	D*0.005~D*0.01	D*0.01~0.02

圓鼻立銑刀 Corner-Radius End Mill:

圓鼻立銑刀系列 Corner-Radius End Mill	材料硬度 Material Hardness	切削速度 Speed (m/min)	加工深度 Ap (mm)	底面修平加工深度 Depth	每刃進給 (mm/rev)
RES、RMU	HRC<10	VC=150-390	D*0.50	視實際加工調整	D*0.01~0.02
	HRC10-25	VC=120-240	D*0.05~D*1.0	<R 角	D*0.01~0.02
	HRC25-40	VC=90-210	D*0.03~D*0.06	<R 角	D*0.01~0.02
REH	HRC30-40	VC=120~240	D*0.03~D*0.06	<R 角	D*0.01~0.02
	HRC40-50	VC=120~210	D*0.02~D*0.04	<R 角	D*0.01~0.02
	HRC50-62	VC=120~180	D*0.01~D*0.02	<R 角	D*0.01~0.02

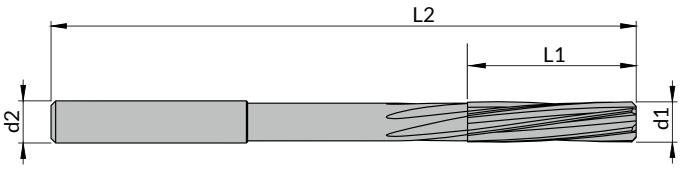
※ 以上建議參數，尚需配合實際加工條件與環境，視工件需求而有所調整。

• 長度單位 Unit of Length (mm)

MRU 超微粒鎢鋼機械鉸刀
MRU CARBIDE MACHINE REAMER

KOVIT

NEW



特點 Feature

-歐洲鎢鋼材料、瑞士生產設備，品質把關
-柄徑公差h6，刀徑公差H7

-Europe top tungsten steel materials, produced by the Swiss Machine.
-Shank diameter tolerance h6, edge diameter H7.

規格 Spec.	刃徑 d1	刃長 L1	全長 L2	柄徑 d2	刃數 Flutes	螺旋角 Angle	工件材質 Workpiece Material
MRU607-020030	2	11	49	3	6	7 度	P M K N H
MRU607-025030	2.5	14	57	3	6	7 度	
MRU607-030030	3	15	61	3	6	7 度	
MRU607-035035	3.5	18	70	3.5	6	7 度	
MRU607-040040	4	19	75	4	6	7 度	
MRU607-045045	4.5	21	80	4.5	6	7 度	
MRU607-050050	5	23	86	5	6	7 度	
MRU607-055055	5.5	26	93	5.5	6	7 度	
MRU607-060060	6	26	93	6	6	7 度	
MRU607-065065	6.5	28	101	6.5	6	7 度	
MRU607-070070	7	31	109	7	6	7 度	
MRU607-075075	7.5	31	109	7.5	6	7 度	
MRU607-080080	8	33	117	8	6	7 度	
MRU607-085085	8.5	33	117	8.5	6	7 度	
MRU607-090090	9	36	125	9	6	7 度	
MRU607-095095	9.5	36	125	9.5	6	7 度	
MRU607-100100	10	38	133	10	6	7 度	
MRU607-105105	10.5	38	133	10.5	6	7 度	
MRU607-110110	11	41	142	11	6	7 度	
MRU607-115115	11.5	41	142	11.5	6	7 度	
MRU607-120120	12	44	151	12	6	7 度	

• 長度單位 Unit of Length (mm)

MRU 超微粒鎢鋼機械鉸刀
MRU CARBIDE MACHINE REAMER

KOVIT

適用加工數據Applicable Parameter

被加工材質 Machining Materials		切削速度 Vc(m/min)	f 每刃進給率 (mm/min)						
			Ø3	Ø4	Ø5	Ø6	Ø8	Ø10	Ø12
P	低合金鋼 Low-Alloy Steels	Vc=10~12	0.02~0.03	0.025~0.045	0.04~0.06	0.05~0.09	0.06~0.15	0.07~0.13	0.08~0.15
P	高合金鋼 Hight-Alloyed Steels	Vc=8~15	0.02~0.03	0.025~0.045	0.04~0.06	0.05~0.09	0.06~0.15	0.07~0.13	0.08~0.15
M	不鏽鋼 Stainless Steels	Vc=10~20	0.018~0.03	0.028~0.045	0.04~0.06	0.05~0.09	0.06~0.12	0.06~0.12	0.08~0.15
K	鑄鐵 Cast Iron	Vc=8~15	0.008~0.015	0.028~0.045	0.04~0.06	0.05~0.09	0.06~0.12	0.07~0.13	0.08~0.15
N	鋁合金 Aluminum&Al	Vc=5~10	0.018~0.03	0.028~0.045	0.04~0.06	0.06~0.09	0.07~0.12	0.08~0.17	0.08~0.18
N	銅 Copper	Vc=4~10	0.018~0.03	0.028~0.045	0.04~0.06	0.05~0.09	0.07~0.13	0.08~0.15	0.08~0.15
H	硬化鋼 HRC(30~38) Hardened Steel	Vc=5~10	0.02~0.03	0.025~0.045	0.04~0.06	0.05~0.09	0.06~0.15	0.07~0.13	0.08~0.15
H	硬化鋼 HRC(38~48) Hardened Steel	Vc=4~10	0.01~0.02	0.012~0.03	0.015~0.035	0.02~0.05	0.025~0.055	0.025~0.06	0.03~0.075

被加工材質 Machining Materials		切削速度 Vc(m/min)	切削餘量 (mm)						
			Ø3	Ø4	Ø5	Ø6	Ø8	Ø10	Ø12
P	低合金鋼 Low-Alloy Steels	Vc=10~12	0.05~0.15	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2
P	高合金鋼 Hight-Alloyed Steels	Vc=8~15	0.05~0.15	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2
M	不鏽鋼 Stainless Steels	Vc=10~20	0.05~0.15	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2
K	鑄鐵 Cast Iron	Vc=8~15	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1
N	鋁合金 Aluminum&Al	Vc=5~10	0.05~0.15	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2
N	銅 Copper	Vc=4~10	0.05~0.15	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2
H	硬化鋼 HRC(30~38) Hardened Steel	Vc=5~10	0.05~0.15	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2
H	硬化鋼 HRC(38~48) Hardened Steel	Vc=4~10	0.03~0.08	0.03~0.08	0.03~0.08	0.03~0.08	0.03~0.08	0.03~0.08	0.03~0.08

鉸刀的保存Care of Reamers

鉸刀是表面鉸光的工具，容易受損，為防受損應個別置於塑膠套中以利儲存及運送。
良好的保存刀具有利於後續生產的穩定性以及延長刀具壽命。

The reamer is a surface reaming tool that is easily damaged. To prevent from the damage, it should be stored with plastic sleeve while delivery.
Storing the reamer well is beneficial to the stable production and extended tool life.

• 長度單位 Unit of Length (mm)

絲攻編碼規範
TAP CODING KEY

KOVIT

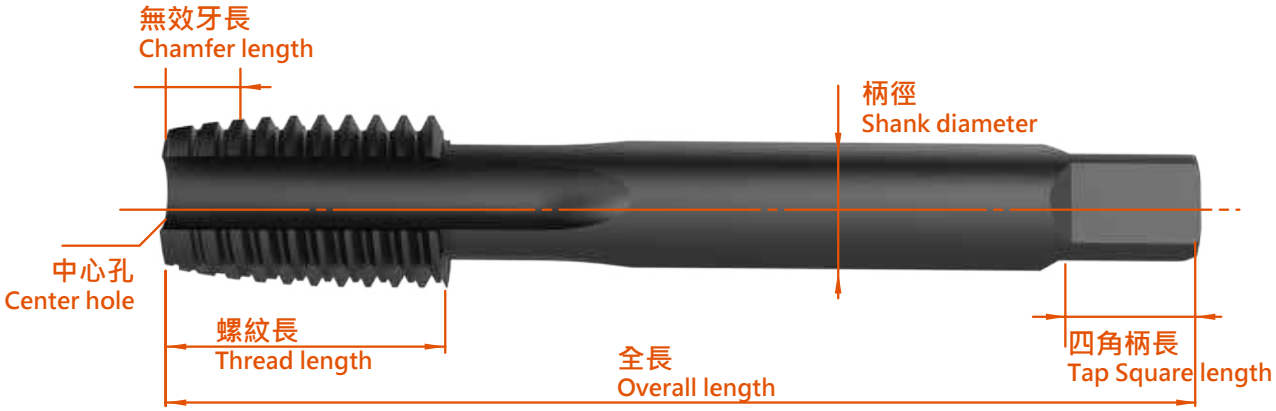
TP	100	A	–	POT	–	M3	–	0.5P	–	
絲攻材質 Tap Material	絲攻類型 Tap Type	塗層方式 Coating Method		絲攻牙型 Tap Type		螺牙類型 Thread Type		牙距 Pitch		其他備註 Other
TP 高速鋼 High Speed Steel	100: 標準型 Standard Type	A: 氧化 Oxidation		POT: 先端絲攻 Spiral Point Taps		M : 公制螺紋 M Metric Thread M				
TC 粉末高速鋼 Powder Metallurgy High Speed Steel	200: 短牙型 Short Thread	B:TIN		SFT: 螺旋絲攻 Spiral Flute Taps		W : 英制螺紋 (惠式)W Inch Thread W				
	300: 長牙型 Long Thread	C:TICN		NRT: 擠壓 / 無屑絲攻 NRT: Forming Taps		U : 美制螺紋 UNC.UN				
TW 鎢鋼 Tungsten Carbide	400: 尺寸調整 Customized Size	D: 無塗層 No Coating		HT: 手絞絲攻 HT: Hand Taps		PT : 管用錐度螺紋 R.Rc.PT				
		E: 其他 Others		PT: 管用絲攻 PT: Pipe Thread Taps		RS : 管用錐度平行螺紋 Rp(RS)				
				NT: 螺帽絲攻 NT: Nut Taps		NPT : 美制管用錐度螺紋 NPT				

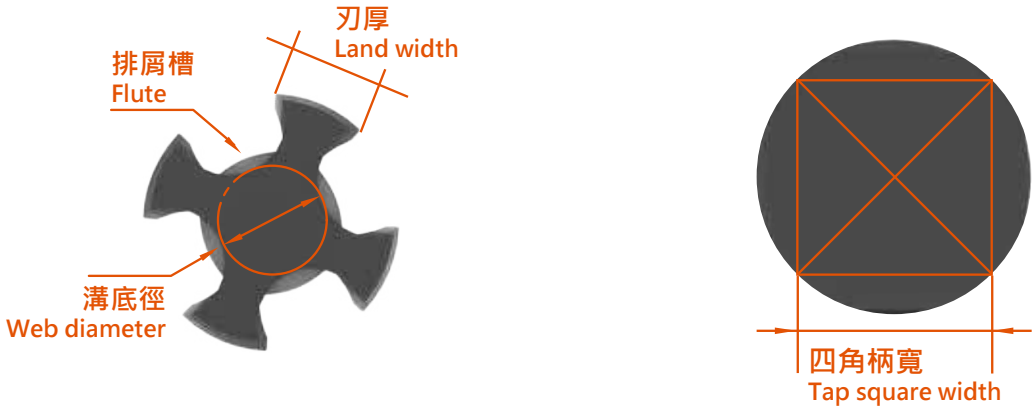
空白 : 無備註

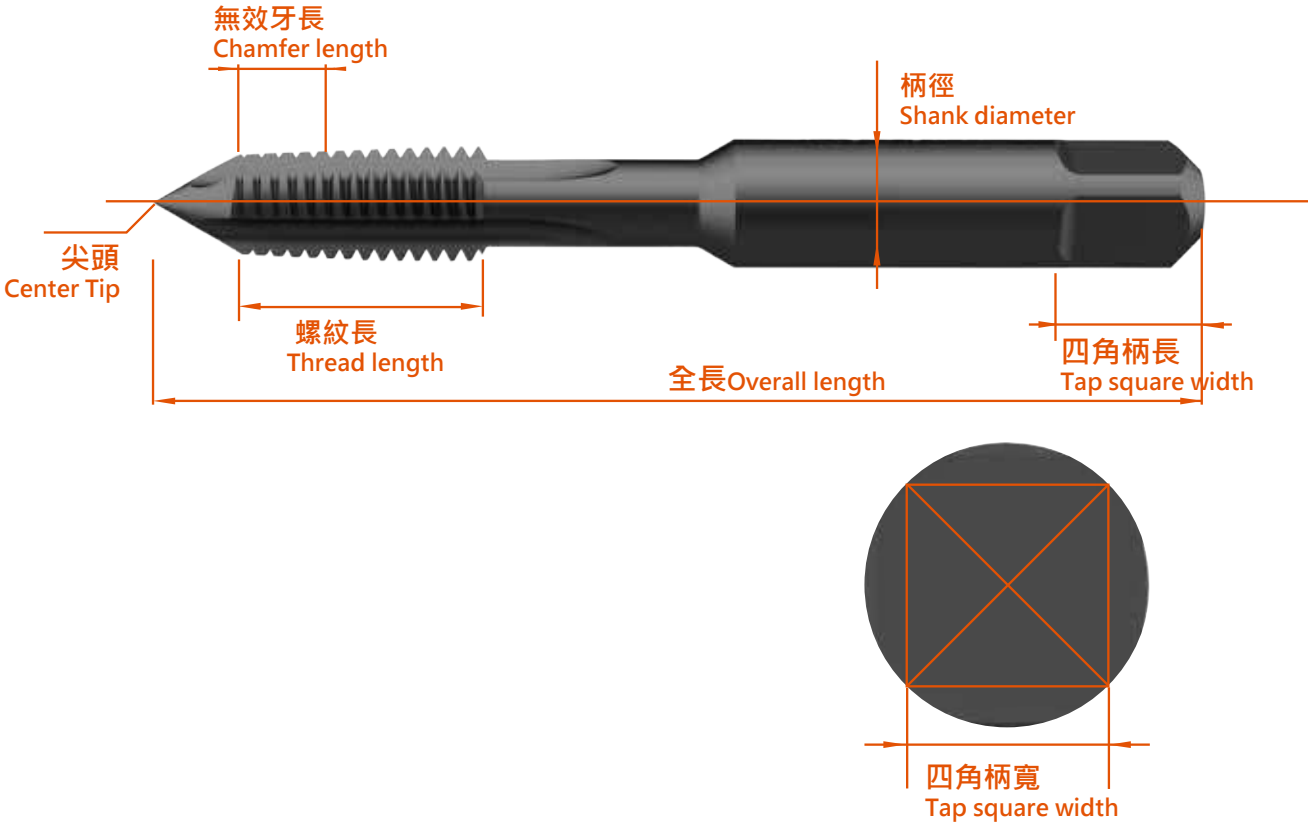
• 長度單位 Unit of Length (mm)

絲攻各部位名稱介紹
INTRODUCTION OF TAPS

KOVIT



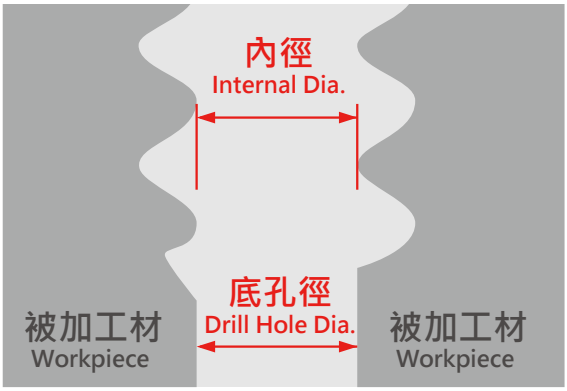


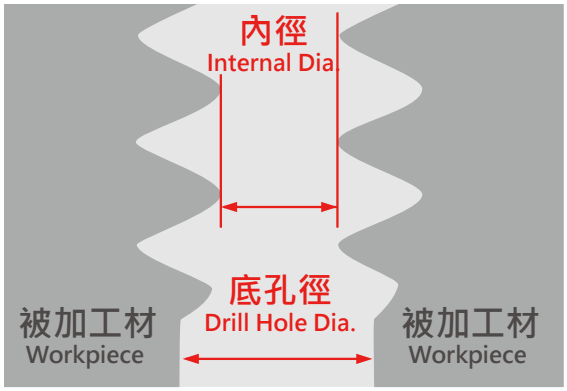


• 長度單位 Unit of Length (mm)

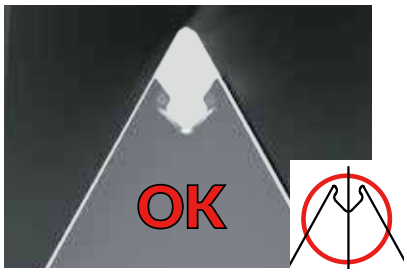
絲攻特點 FEATURES OF TAPS

KOVIT

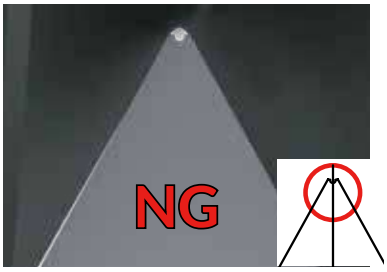




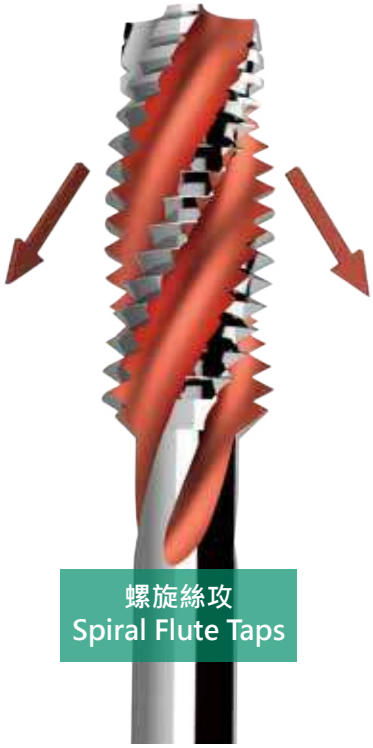
底孔徑大於建議值，擠壓量不足
Drill Hole Dia.>Suggested Values Insufficient Forming



螺紋牙行正確
The Correct Form of Thread

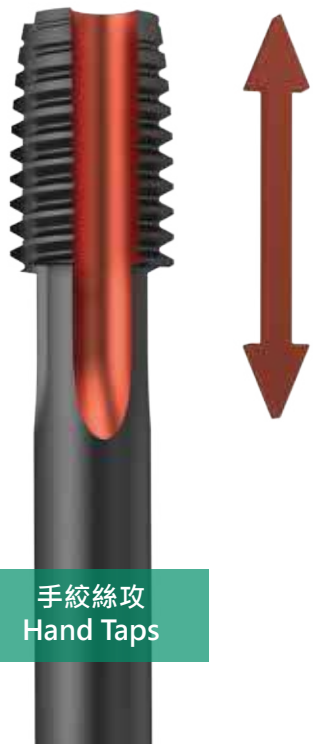


底孔徑小於建議值，擠壓量過多，牙山過飽
Drill Hole Dia.<Suggested Values Over forming



螺旋絲攻
Spiral Flute Taps

先端絲攻
Spiral Point Taps



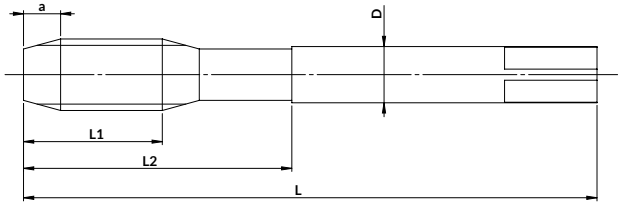
手絞絲攻
Hand Taps

• 長度單位 Unit of Length (mm)

TP100 系列 POT 先端絲攻 -HSS
TP100 SERIES POT SPIRAL POINT TAP - HSS

KOVIT

NEW

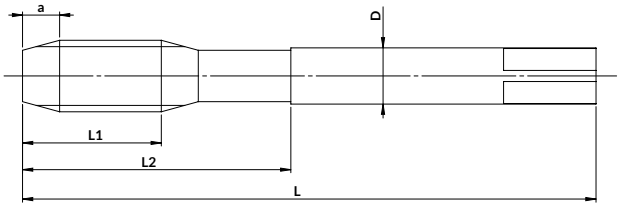


規格 Spec.	加工材質 Workpiece Material	表面處理 Surface Treatment	精度 Accuracy	a	全長 L	螺紋長 L1	柄徑 D	溝數 Flutes	重量 (KGS) Weight
TP100A-POT-M3-0.5P	合金鋼 Alloy Steels 不鏽鋼 Stainless Steels	氧化 Oxidation	6H	4P	46	11	4	3	0.005
TP100A-POT-M4-0.7P			6H	4P	52	13	5	3	0.008
TP100A-POT-M5-0.8P			6H	4P	60	16	5.5	3	0.01
TP100A-POT-M6-1.0P			6H	4P	62	19	6	3	0.013
TP100A-POT-M8-1.25P			6H	4P	70	22	6.2	3	0.019
TP100A-POT-M10-1.5P			6H	4P	75	24	7	3	0.027
TP100A-POT-M12-1.75P			6H	4P	82	29	8.5	3	0.043

TP100 系列 SFT 螺旋絲攻 -HSS
TP100 SERIES SFT SPIRAL FLUTE TAP - HSS

KOVIT

NEW



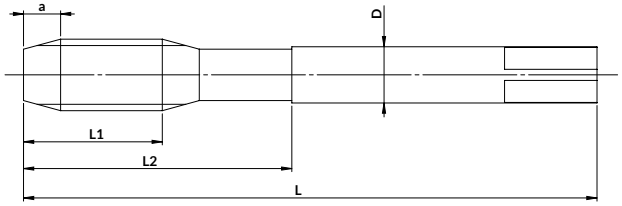
規格 Spec.	加工材質 Workpiece Material	表面處理 Surface Treatment	精度 Accuracy	a	全長 L	螺紋長 L1	柄徑 D	溝數 Flutes	重量 (KGS) Weight
TP100A-SFT-M3-0.5P	合金鋼 Alloy Steels 不鏽鋼 Stainless Steels	氧化 Oxidation	6H	2.5P	46	11	4	3	0.004
TP100A-SFT-M4-0.7P			6H	2.5P	52	13	5	3	0.007
TP100A-SFT-M5-0.8P			6H	2.5P	60	16	5.5	3	0.01
TP100A-SFT-M6-1.0P			6H	2.5P	62	19	6	3	0.012
TP100A-SFT-M8-1.25P			6H	2.5P	70	22	6.2	3	0.018
TP100A-SFT-M10-1.5P			6H	2.5P	75	24	7	3	0.025
TP100A-SFT-M12-1.75P			6H	2.5P	82	29	8.5	3	0.039

• 長度單位 Unit of Length (mm)

TP200 系列 POT- 短牙型先端絲攻 -HSS
TP200 SERIES POT SPIRAL POINT TAP (SHORT THREAD) - HSS

KOVIT

NEW

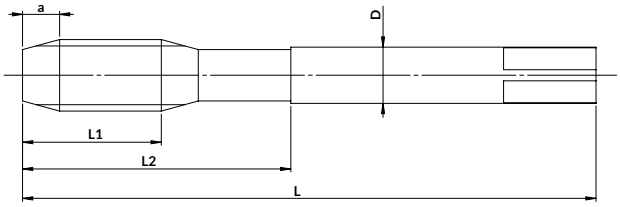


規格 Spec.	加工材質 Workpiece Material	塗層 Surface Treatment	精度 Accuracy	a	全長 L	螺紋長 L1	柄徑 D	溝數 Flutes	重量 (KGS) Weight
TP200A-POT-M3-0.5P	合金鋼 Alloy Steels 不鏽鋼 Stainless Steels	氧化 Oxidation	6H	4P	46	9	4	3	0.004
TP200A-POT-M4-0.7P			6H	4P	52	10	5	3	0.008
TP200A-POT-M5-0.8P			6H	4P	60	11	5.5	3	0.01
TP200A-POT-M6-1.0P			6H	4P	62	12	6	3	0.013
TP200A-POT-M8-1.25P			6H	4P	70	13	6.2	3	0.019
TP200A-POT-M10-1.5P			6H	4P	75	15	7	3	0.027
TP200A-POT-M12-1.75P			6H	4P	82	18	8.5	3	0.042

TP200 系列 SFT 短牙型螺旋絲攻 -HSS
TP200 SERIES SFT SPIRAL FLUTE TAP (SHORT THREAD) - HSS

KOVIT

NEW



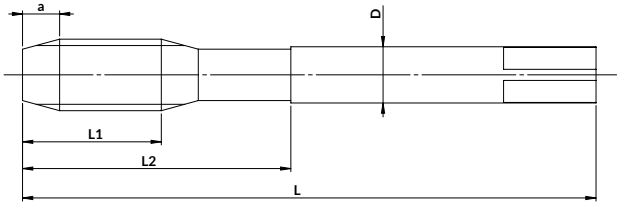
規格 Spec.	加工材質 Workpiece Material	塗層 Surface Treatment	精度 Accuracy	a	全長 L	螺紋長 L1	柄徑 D	溝數 Flutes	重量 (KGS) Weight
TP200A-SFT-M3-0.5P	合金鋼 Alloy Steels 不鏽鋼 Stainless Steels	氧化 Oxidation	6H	2.5P	46	5	4	3	0.004
TP200A-SFT-M4-0.7P			6H	2.5P	52	7	5	3	0.007
TP200A-SFT-M5-0.8P			6H	2.5P	60	8	5.5	3	0.01
TP200A-SFT-M6-1.0P			6H	2.5P	62	10	6	3	0.012
TP200A-SFT-M8-1.25P			6H	2.5P	70	13	6.2	3	0.018
TP200A-SFT-M10-1.5P			6H	2.5P	75	15	7	3	0.025
TP200A-SFT-M12-1.75P			6H	2.5P	82	18	8.5	3	0.039

• 長度單位 Unit of Length (mm)

TC100 系列 POT 先端絲攻 -PM
TC100 SERIES POT POINT TAP - PM

KOVIT

NEW

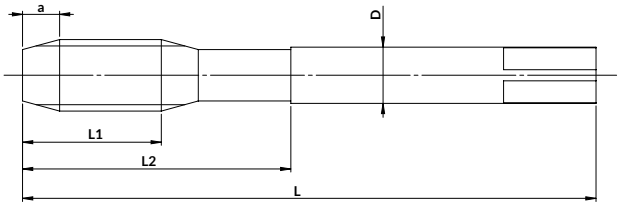


規格 Spec.	加工材質 Workpiece Material	塗層 Surface Treatment	精度 Accuracy	a	全長 L	螺紋長 L1	柄徑 D	溝數 Flutes	重量 (KGS) Weight
TC100C-POT-M3-0.5P	合金鋼 Alloy Steels 不鏽鋼 Stainless Steels	TiCN	6H	5P	46	11	4	3	0.005
TC100C-POT-M4-0.7P			6H	5P	52	13	5	3	0.008
TC100C-POT-M5-0.8P			6H	5P	60	16	5.5	3	0.01
TC100C-POT-M6-1.0P			6H	5P	62	19	6	3	0.013
TC100C-POT-M8-1.25P			6H	5P	70	22	6.2	3	0.019
TC100C-POT-M10-1.5P			6H	5P	75	24	7	3	0.027
TC100C-POT-M12-1.75P			6H	5P	82	29	8.5	3	0.043

TC100 系列 SFT 螺旋絲攻 -PM
TC100 SERIES SFT SPIRAL FLUTE TAP - PM

KOVIT

NEW



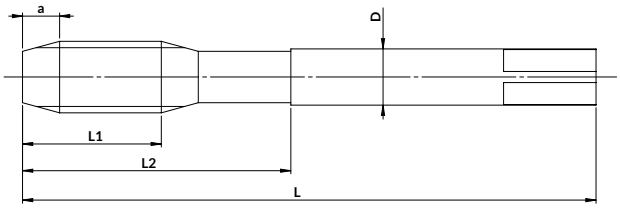
規格 Spec.	加工材質 Workpiece Material	塗層 Surface Treatment	精度 Accuracy	a	全長 L	螺紋長 L1	柄徑 D	溝數 Flutes	重量 (KGS) Weight
TC100C-SFT-M3-0.5P	合金鋼 Alloy Steels 不鏽鋼 Stainless Steels	TiCN	6H	5P	46	11	4	3	0.005
TC100C-SFT-M4-0.7P			6H	5P	52	13	5	3	0.008
TC100C-SFT-M5-0.8P			6H	5P	60	16	5.5	3	0.01
TC100C-SFT-M6-1.0P			6H	5P	62	19	6	3	0.013
TC100C-SFT-M8-1.25P			6H	5P	70	22	6.2	3	0.019
TC100C-SFT-M10-1.5P			6H	5P	75	24	7	3	0.027
TC100C-SFT-M12-1.75P			6H	5P	82	29	8.5	3	0.043

• 長度單位 Unit of Length (mm)

TC200 系列 POT 短牙型先端絲攻 -PM
TC200 SERIES POT POINT TAP(SHORT THREAD) - PM

KOVIT

NEW

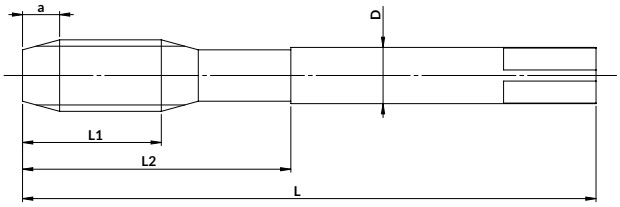


規格 Spec.	加工材質 Workpiece Material	塗層 Surface Treatment	精度 Accuracy	a	全長 L	螺紋長 L1	柄徑 D	溝數 Flutes	重量 (KGS) Weight
TC200C-POT-M3-0.5P	合金鋼 Alloy Steels 不鏽鋼 Stainless Steels	TiCN	6H	4P	46	9	4	3	0.004
TC200C-POT-M4-0.7P			6H	4P	52	10	5	3	0.008
TC200C-POT-M5-0.8P			6H	4P	60	11	5.5	3	0.01
TC200C-POT-M6-1.0P			6H	4P	62	12	6	3	0.013
TC200C-POT-M8-1.25P			6H	4P	70	13	6.2	3	0.019
TC200C-POT-M10-1.5P			6H	4P	75	15	7	3	0.027
TC200C-POT-M12-1.75P			6H	4P	82	18	8.5	3	0.042

TC200 系列 SFT 短牙型螺旋絲攻 -PM
TC200 SERIES SFT SPIRAL FLUTE TAP (SHORT THREAD) - PM

KOVIT

NEW



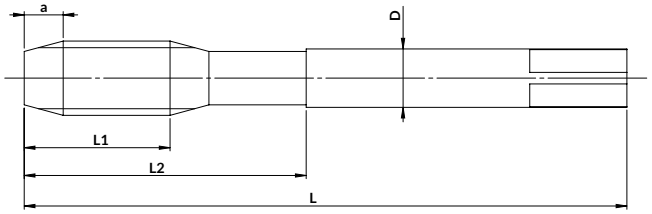
規格 Spec.	加工材質 Workpiece Material	塗層 Surface Treatment	精度 Accuracy	a	全長 L	螺紋長 L1	柄徑 D	溝數 Flutes	重量 (KGS) Weight
TC200C-SFT-M3-0.5P	合金鋼 Alloy Steels 不鏽鋼 Stainless Steels	TiCN	6H	2.5P	46	5	4	3	0.004
TC200C-SFT-M4-0.7P			6H	2.5P	52	7	5	3	0.007
TC200C-SFT-M5-0.8P			6H	2.5P	60	8	5.5	3	0.01
TC200C-SFT-M6-1.0P			6H	2.5P	62	10	6	3	0.012
TC200C-SFT-M8-1.25P			6H	2.5P	70	13	6.2	3	0.018
TC200C-SFT-M10-1.5P			6H	2.5P	75	15	7	3	0.025
TC200C-SFT-M12-1.75P			6H	2.5P	82	18	8.5	3	0.039

• 長度單位 Unit of Length (mm)

TP100 系列 NRT 擠壓絲攻 -HSS
TP100 SERIES NRT FORMING TAP - HSS

KOVIT

NEW

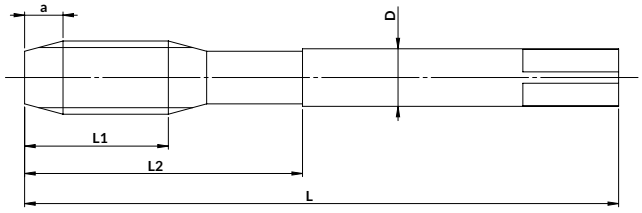


規格 Spec.	加工材質 Workpiece Material	塗層 Surface Treatment	a	全長 L	螺紋長 L1	柄徑 D	溝數 Flutes	重量 (KGS) Weight
TP100C-NRT-M3-0.5P	不鏽鋼 Stainless Steels	TiCN	2P/4P	46	9	4	-	0.005
TP100C-NRT-M4-0.7P			2P/4P	52	10	5	-	0.008
TP100C-NRT-M5-0.8P			2P/4P	60	11	5.5	-	0.011
TP100C-NRT-M6-1.0P			2P/4P	62	12	6	-	0.013
TP100C-NRT-M8-1.25P			2P/4P	70	18	-	-	0.02
TP100C-NRT-M10-1.5P			2P/4P	75	19	-	-	0.03
TP100C-NRT-M12-1.75P			2P/4P	82	23	8.5	-	0.049

TC100 系列 NRT 擠壓絲攻 -PM
TC100 SERIES NRT FORMING TAP -PM

KOVIT

NEW



規格 Spec.	加工材質 Workpiece Material	塗層 Surface Treatment	a	全長 L	螺紋長 L1	柄徑 D	溝數 Flutes	重量 (KGS) Weight
TC100C-NRT-M3-0.5P	不鏽鋼 Stainless Steels	TiCN	2P/4P	46	9	4	-	0.005
TC100C-NRT-M4-0.7P			2P/4P	52	10	5	-	0.008
TC100C-NRT-M5-0.8P			2P/4P	60	11	5.5	-	0.011
TC100C-NRT-M6-1.0P			2P/4P	62	12	6	-	0.013
TC100C-NRT-M8-1.25P			2P/4P	70	18	-	-	0.02
TC100C-NRT-M10-1.5P			2P/4P	75	19	-	-	0.03
TC100C-NRT-M12-1.75P			2P/4P	82	23	8.5	-	0.049

• 長度單位 Unit of Length (mm)

絲攻適用加工數據
TAP APPLICABLE PARAMETER

KOVIT

被加工材質 Machining Materials		切削速度 Vc(m/min)		
		SFT	POT	NRT
P	低碳鋼 Low Carbon Steel	7-12	10-15	5-8
P	中碳鋼 Medium Carbon Steel	6-9	7-10	-
P	合金鋼 Alloy Steels	5-8	8-13	5-10
P	工具鋼 Tool Steel	8-13	15-25	8-13
M	不鏽鋼 Stainless Steel	7-12	10-15	7-10

被加工材質 Machining Materials		切削油劑 Cutting Fluids	
		不水溶性 Water Insoluble	水溶性 Water Soluble
P	低碳鋼 Low Carbon Steel	◎	△
P	中碳鋼 Medium Carbon Steel	◎	–
P	合金鋼 Alloy Steels	◎	○
P	工具鋼 Tool Steel	◎	○
M	不鏽鋼 Stainless Steel	◎	○

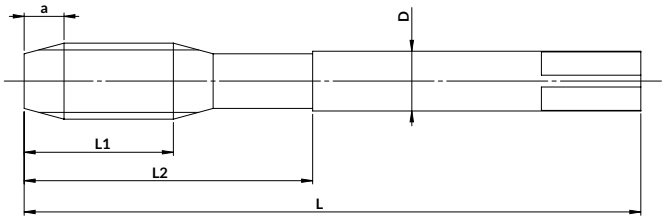
◎ 最適用 Excellent ○ 適用 Good △可以使用 Applicable – 不可使用 Not Applicable

• 長度單位 Unit of Length (mm)

POT- 先端絲攻 -PM
POT POINT TAP - PM

KOVIT

NEW



規格 Spec.	加工材質 Workpiece material	表面處理 Surface Treatment	精度 Accuracy	a	全長 L	螺紋長 L1	柄徑 D	溝數	重量 (KGS) Weight
TC102C-POT-M1.8-0.35P	高硬度 High hardness <HRC50° 不鏽鋼 Stainless	TiCN	6H	3~5P	42	9	2.5		0.01
TC102C-POT-M2-0.4P			6H		42	9.5	3		0.016
TC102C-POT-M2.2-0.45P			6H		-	-	-		-
TC102C-POT-M2.5-0.45P			6H		46	9.5	3		0.0205
TC102C-POT-M3-0.5P			6H		46	11	4		0.025
TC102C-POT-M3.5-0.6P			6H		-	-	-		-
TC102C-POT-M4-0.7P			6H		52	13	5		0.033
TC102C-POT-M5-0.8P			6H		60	16	5.5		0.042
TC102C-POT-M6-1.0P			6H		62	19	6		0.05

高硬度材適用加工數據Applicable Parameter

材料 Material	高硬度 <HRC50° High Hardness<HRC50	熱處理鋼 Heat Treated Steel	工具鋼 Tool Steel	氮化鋼 Nitrided Steel	不鏽鋼 Stainless	鑄鋼 Cast Iron
Vc〔m/min〕	4-5	5-10	10-15	5-8	5-8	5-8

標稱直徑 Nominal/ Diameter	RPM〔1/min〕 切削速度 Vc Cutting speed V〔m/min〕												
	4	5	6	8	10	12	15	20	22	25	28	30	32
M3	425	530	635	850	1060	1270	1590	2120	2330	2650	2965	3180	3390
M4	319	398	480	635	795	955	1190	1590	1750	1990	2230	2390	2550
M5	255	318	382	510	635	765	955	1270	1400	1590	1785	1910	2040
M6	212	265	318	425	530	635	795	1060	1170	1325	1485	1590	1700
M8	159	198	238	318	398	478	598	795	875	995	1115	1195	1275
M10	127	159	191	255	318	382	478	636	700	795	892	955	1020
M12	106	133	159	212	265	318	398	531	584	664	744	795	850

下孔徑尺寸公差表請至B848參照
Hole diameter tolerance table refer to B848.

• 長度單位 Unit of Length (mm)

車刀刀具編碼規範
TURNING TOOLS CODING STANDARDS

KOVIT

① 壓板鎖固方式 Clamp Locking Type

記號 Symbol	名稱 Name	圖形 Shape
C	上壓式 Clamp	
M	螺銷上壓式 Pin/Clamp	
W	楔鉤式 Clamp	
S	壓孔式 Screw	
P	側推式 Pin	
D	雙重夾緊式 Rigid Clamp	

② 進刀角度 Angle

記號 Symbol	圖形 Shape	記號 Symbol	圖形 Shape	記號 Symbol	圖形 Shape
A	90°	G	91°	P ※	62.5°
		J	93°	Q ※	45°
B	75°	J2 ※	93°	S	45°
C	90°	K	75°	V	72.5°
D	45°	L	95° 95°	U	93°
E	60°	L2 ※	95° 95°	X	100°
F	91°	N	63°	Y	80°
G	91°	N3 ※	63°	Z	93°

③ 長度記號(mm) Length

記號 Symbol	長度 Length	記號 Symbol	長度 Length	圖形 Shape
A	32			
B	40	N	160	
C	50	P	170	
D	60	Q	180	
E	70	R	200	
F	80	S	250	
G	90	T	300	
H	100	U	350	
J	110	V	400	
K	125	W	450	
L	140	Y	500	
M	150	X	特殊	

④ 切削方向 Direction

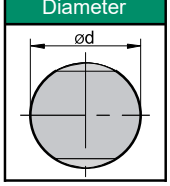
記號 Symbol	圖形 Shape
L	
N	
R	

①	⑦	②	⑧	④	⑩	⑩	③	⑨
M	C	L	N	R	25	25	M	16
T ⑦	N ⑧	M	G	16 ⑨	04	08	T	N ④
S ⑤	32 ⑥	S ③	C ①	T ⑦	F ②	P ⑧	R ④	16 ⑨

⑤ 刀具材質記號 Flutes Material

記號 Symbol	說明 Description
S	鋼柄 Steel shank
A	鋼柄+中心水孔 Steel shank +coolant hole
C	鎢鋼柄 Cemented carbide shank with steel head
E	鎢鋼柄 + 中心水孔 Cemented carbide shank with steel head +coolant hole
H	重金屬 Heavy metal shank

⑥ 刀具直徑 Diameter



⑦ 刀片形狀 Shape

記號 Symbol	形狀 Shape	角度 Angle	圖形 Shape
C	菱形 Rhombic	80°	
D		55°	
E		75°	
V		35°	
K	平行四邊形 Rhombic	55°	
R	圓形 Round	—	
S	正方形 Square	90°	
T	正三角形 Triangular	60°	
W	六角形 Hexagonal	80°	

⑧ 離隙角 Relief Angle

記號 Symbol	離隙角 Relief Angle
B	5°
C	7°
N	0°
P	11°

⑨ 刀片邊寬 Width

記號 Symbol	圖形 Shape
S	
T	
R	
L	
C D E V	
A B K	

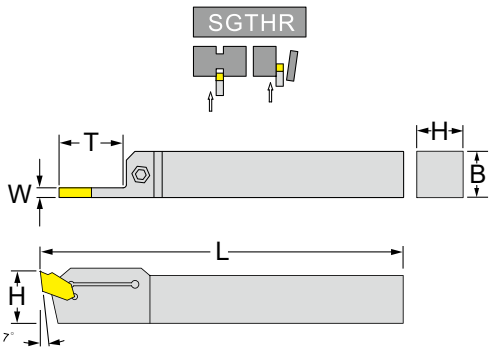
⑩ 刀具尺寸(mm) Size

高度H High	寬度W Width

• 長度單位 Unit of Length (mm)

SGTHR 切斷刀架
SGTHR CUTTING BLOCK

KOVIT



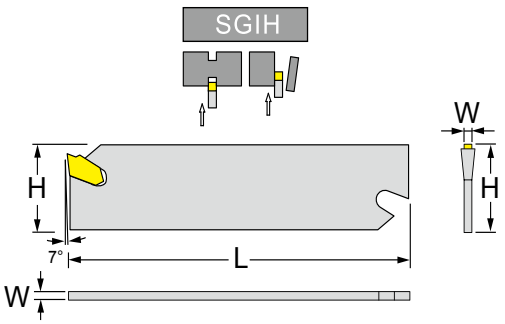
規格 Spec.	H	B	L	W	T	刀片 Insert	重量 (KGS) Weight
SGTHR-1616-2	16	16	110	2	16	TGTN2	0.24
SGTHR-2020-2	20	20	125	2	18	TGTN2	0.41
SGTHR-2020-3	20	20	125	3	20	TGTN3	0.41
SGTHR-2525-3	25	25	150	3	25	TGTN3	0.67
SGTHR-2525-4	25	25	150	4	30	TGTN4	0.67

配件表 Accessories

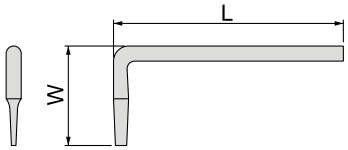
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
TGTN2	SH-M5-21	PL4	5.0
TGTN3	SH-M6-25	PL5	6.0
TGTN4	SH-M6-25	PL5	6.0

SGIH 切斷刀板
SGIH CUTTING BLOCK

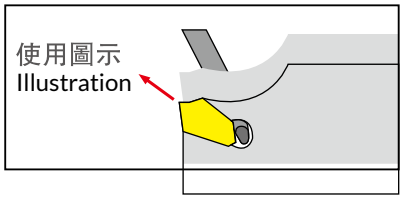
KOVIT



規格 Spec.	L	W	H	刀片 Insert	重量 (KGS) Weight
SGIH-26.3PS-HD	110	2.5	26	TGTN3	0.08
SGIH-32.3PS-HD	150	2.5	32	TGTN3	0.12



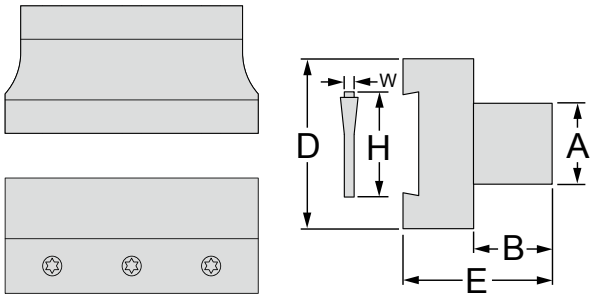
規格 Spec.	L	W	重量 (KGS) Weight
DW-70	80	27	0.02
使用方式：使用拆卸扳手卸下刀片，以免損壞切斷刀具 Instruction: Dismantle insert with a spanner to protect cutters.			



• 長度單位 Unit of Length (mm)

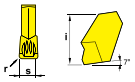
COH 切斷刀板座
COH CUTTING BLOCK

KOVIT



規格 Spec.	A	B	D	E	H	W	適用刀板	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
COH-26-20	20	21	43	38	26	-	SGIH-26.3PS-HD SGIH-26.4PS-HD	PL5	6.0	0.66
COH-32-20	20	21	50	40	32	-	SGIH-32.3PS-HD SGIH-32.4PS-HD	PL5	6.0	0.99
COH-32-25	25	23	50	42	32	-		PL5	6.0	1.06

ISO 分類													切削狀態 Cutting Condition :
P	合金鋼 Alloyed Steels	○	○	○									● 連續切削 Continuous Cutting
M	不鏽鋼 Stainless Steels	○	○										○ 一般切削 General Cutting
K	鑄鐵 Cast Iron	○	○										■ 斷續切削 Interrupted Cutting
N	鋁及鋁合金 Aluminum&Al							■					
S	高溫合金 Refractory Alloys												
H	高硬度材 Hard Material	○											

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coted micro grain						超硬微粒 Carbide alloy					尺寸 (mm)				圖形 Drawing
		CHF						HF					Size				
		OM4010	OM4025	RM4025				OM5005					d	i	s	r	
	TGTN3	●	●	●				●					-	11.3	3.1	0.2	
	TGTN4	●	●	●				●					-	11.3	4.1	0.25	

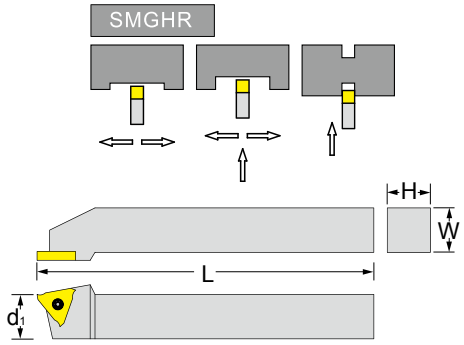
TGTN_3.4 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 (mm)
P	合金鋼 Alloyed Steel	OM4010	90~250	0.08(0.06~0.12)
		OM4025	90~230	0.08(0.06~0.12)
		RM4025	90~230	0.08(0.06~0.12)
M	不鏽鋼 Stainless Steels	OM4010	55~110	0.06(0.06~0.12)
		OM4025	55~100	0.06(0.06~0.12)
K	鑄鐵 Cast Iron	OM4025	110~275	0.08(0.06~0.12)
N	鋁合金 Aluminum&Al	OM5005	500~700	0.15(0.15~0.17)

• 長度單位 Unit of Length (mm)

SMGHR 截溝車牙刀架
SMGHR THREADING TOOL

KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

- Made of anti-vibration tool steel.
- After heat treatment, we will finish the cutter again for better accuracy.

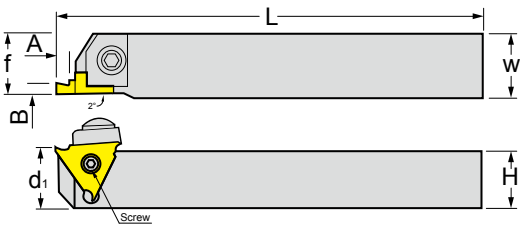
規格 Spec.	L	d1	W	H	刀片 Insert	重量 (KGS) Weight
SMGHR2020K16	125	20	20	20	SMGTR16X2 (截溝 Grooving)	0.43
SMGHR2525M16	150	25	25	25	SMTTR160360 (車牙 Threading)	0.74

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SMGTR16X2 (截溝 Grooving)	M4-8.2-6.2-90	T15	3.0
SMTTR160360 (車牙 Threading)	M4-8.2-6.2-90	T15	3.0

WGHR 外徑開槽刀架
WGHR EXTERNAL GROOVING TOOL

KOVIT



規格 Spec.	H	W	L	f	d1	A	B	刀片 Insert	重量 (KGS) Weight
WGHR-1616K-4125	16	16	125	16	16	3	1.25~2.3	TGAR 4125 | 4400	0.29
WGHR-1616K-4235	16	16	125	16	16	4.5	2.3~4.7		0.29
WGHR-2020K-4125	20	20	125	20	20	3	1.25~2.3		0.45
WGHR-2020K-4235	20	20	125	20	20	4.5	2.3~4.7		0.45
WGHR-2525M-4125	25	25	150	25	25	3	1.25~2.3		0.84
WGHR-2525M-4235	25	25	150	25	25	4.5	2.3~4.7		0.84

配件表 Accessories

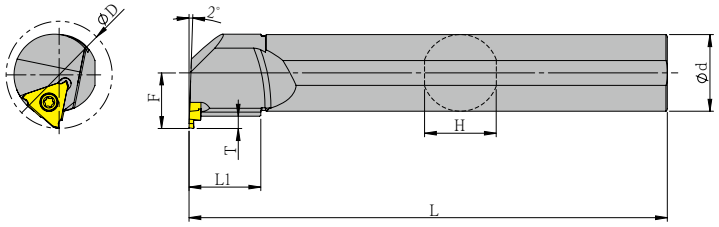
刀片 Insert	彈簧 Spring	壓板 Clamp	壓板螺絲 Clamp Screw	扳手 Wrench	扭力值 (N.m) Torque
TGAR 4125 | 4400	MES3	MTK1R	HTR623	PL4	5.0

※ 可適用刀片：**TGAR/TGER/GB43R** ※Application inserts: TGAR/TGER/GB43R

• 長度單位 Unit of Length (mm)

SGHR 內徑開槽刀架
SGHR INTERNAL GROOVING TOOL

NEW



規格 Spec.	D	d	L	L1	刀片 Insert	重量 (KGS) Weight
S32S-SGHR-43	40	32	250	30	TGAL 4125 I 4400	0.43

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
TGAL 4125 I 4400	M5-11-7.0-55	T20	5

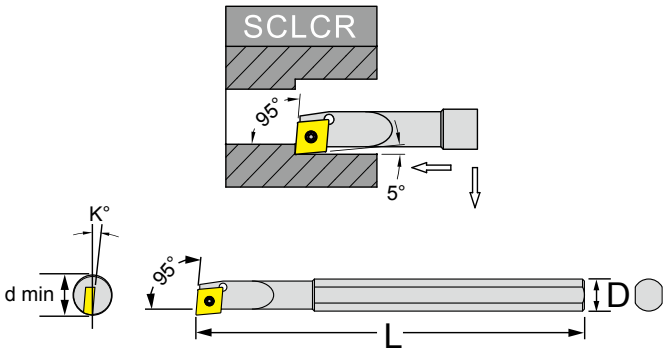
範例 Example

適用加工 O 型環槽
Suitable for processing O-ring grooves.

• 長度單位 Unit of Length (mm)

SCLCR 內徑車刀架
SCLCR INTERNAL TURNING TOOL

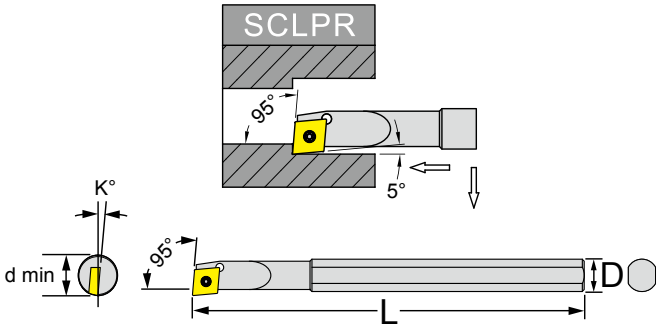
KOVIT



規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S08K-SCLCR-06	125	8	10	CC..0602	M2.5-6.0-3.5-60	T8	1.2	0.06
S10K-SCLCR-06	125	10	12	CC..0602	M2.5-6.0-3.5-60	T8	1.2	0.09
S12M-SCLCR-06	150	12	16	CC..0602	M2.5-6.0-3.5-60	T8	1.2	0.14
S16Q-SCLCR-09T	180	16	20	CC..09T3	M4-8.0-5.7-60	T15	3.0	0.30
S20R-SCLCR-09T	200	20	25	CC..09T3	M4-10-5.7-60	T15	3.0	0.50
S25S-SCLCR-09T	250	25	32	CC..09T3	M4-10-5.7-60	T15	3.0	0.86

SCLPR 內徑車刀架
SCLPR INTERNAL TURNING TOOL

KOVIT

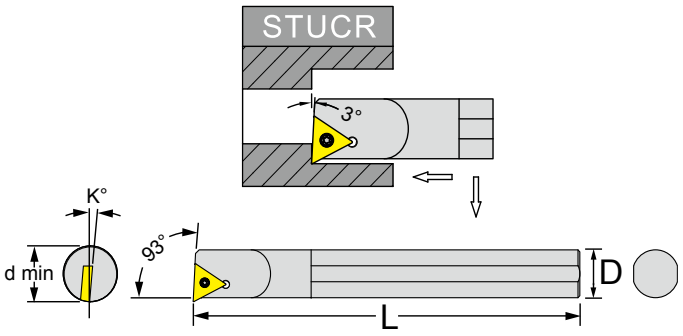


規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S08H-SCLPR-06	100	8	10	CP..0602	M2.5-6.0-3.5-60	T8	1.2	0.06
S10K-SCLPR-06	125	10	12	CP..0602	M2.5-6.0-3.5-60	T8	1.2	0.09
S12M-SCLPR-06	150	12	16	CP..0602	M2.5-6.0-3.5-60	T8	1.2	0.15
S16Q-SCLPR-09	180	16	20	CP..0903	M4-10-5.7-60	T15	3.0	0.30
S20R-SCLPR-09	200	20	25	CP..0903	M4-10-5.7-60	T15	3.0	0.49
S25R-SCLPR-09	200	25	30	CP..0903	M4-10-5.7-60	T15	3.0	0.93

• 長度單位 Unit of Length (mm)

STUCR 內徑車刀架
STUCR INTERNAL TURNING TOOL

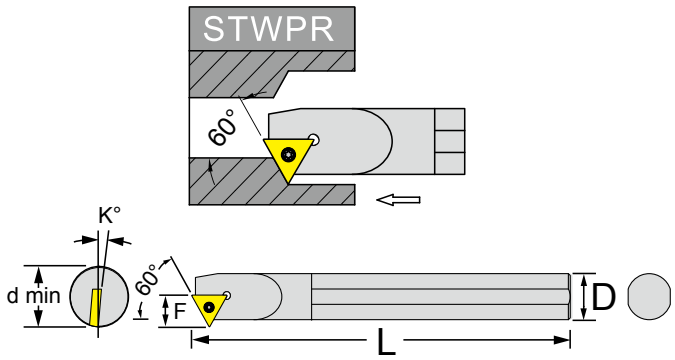
KOVIT



規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S08H-STUCR-09	100	8	10	TC..0902	M2.2-5.5-3.4-60	T7	0.9	0.05
S10K-STUCR-11	125	10	12	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.09
S12M-STUCR-11	150	12	16	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.14
S16Q-STUCR-11	180	16	20	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.28
S20R-STUCR-16	200	20	25	TC..16T3	M4-10-5.0-43	T15	3.0	0.48
S25R-STUCR-16	200	25	30	TC..16T3	M4-10-5.0-43	T15	3.0	0.86

STWPR/STWCR 內徑車刀架
STWPR/STWCR INTERNAL TURNING TOOL

KOVIT

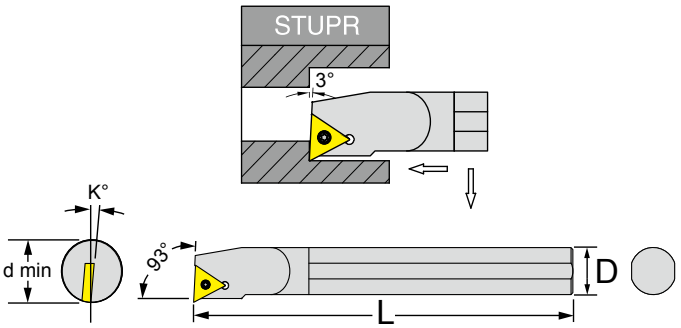


規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S08K-STWPR-09	125	8	11	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.06
S10K-STWCR-09	125	10	10	TC..0902	M2.2-5.5-3.4-60	T7	0.9	0.08
S10K-STWCR-11	125	10	13	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.09
S12M-STWCR-11	150	12	16	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.12
S16M-STWPR-09	150	16	16	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.22
S16Q-STWCR-11	180	16	20	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.29
S20R-STWCR-11	200	20	25	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.47

• 長度單位 Unit of Length (mm)

STUBR/STUPR 內徑車刀架
STUBR/STUPR INTERNAL TURNING TOOL

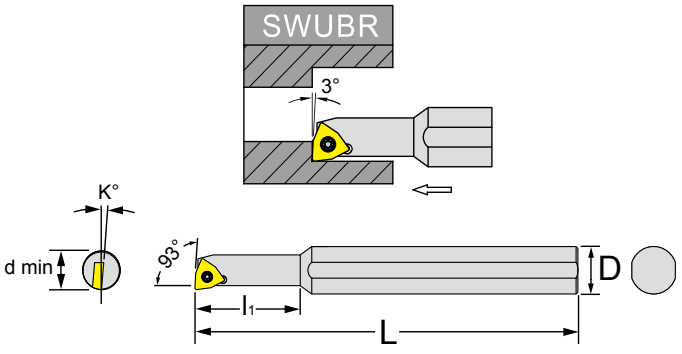
KOVIT



規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S0806H-STUBR-06	100	8	8	TB..0601	M2-3.8-2.68-43	T6	0.6	0.05
S08H-STUPR-09	100	8	10	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.05
S10K-STUPR-09	125	10	12	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.11
S10K-STUPR-11	125	10	12	TP..1103	M3-8.0-4.0-43	T9	1.4	0.09
S12M-STUPR-11	150	12	16	TP..1103	M3-8.0-4.0-43	T9	1.4	0.14
S16Q-STUPR-11	180	16	20	TP..1103	M3-8.0-4.0-43	T9	1.4	0.30
S20R-STUPR-11	200	20	25	TP..1103	M3-8.0-4.0-43	T9	1.4	0.49
S20R-STUPR-1603	200	20	25	TP..1603	M4-10-5.7-60	T15	3.0	0.48
S25S-STUPR-1603	250	25	32	TP..1603	M4-10-5.7-60	T15	3.0	0.85

SWUBR 內徑車刀架
SWUBR INTERNAL TURNING TOOL

KOVIT

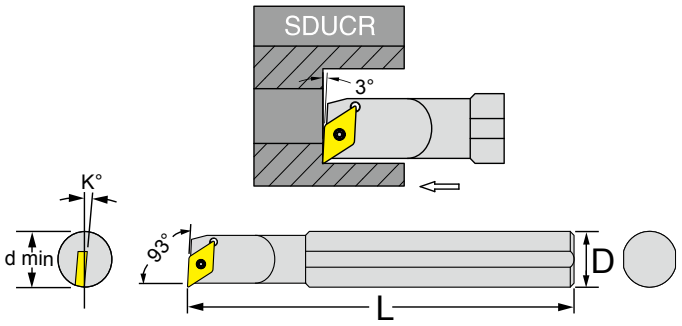


規格 Spec.	L	l_1	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S1005K-SWUBR-06	125	15	10	6	WB..0601	M2-3.8-2.68-43	T6	0.6	0.08
S1006H-SWUBR-06	100	18	10	7	WB..0601	M2-3.8-2.68-43	T6	0.6	0.09

• 長度單位 Unit of Length (mm)

SDUCR 內徑車刀架
SDUCR INTERNAL TURNING TOOL

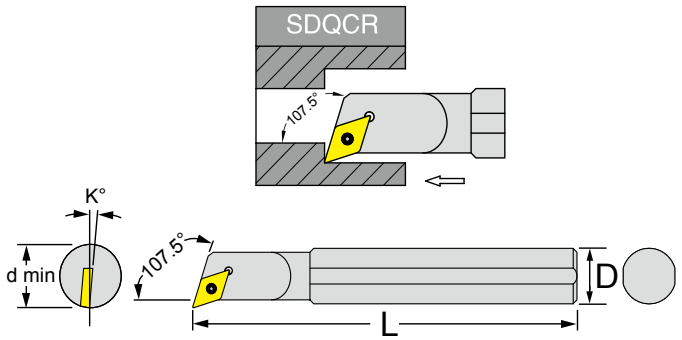
KOVIT



規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S10K-SDUCR-07	125	10	13	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.09
S12M-SDUCR-07	150	12	16	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.15
S16Q-SDUCR-11	180	16	20	DC..11T3	M4-10-5.7-60	T15	3.0	0.30
S20R-SDUCR-11	200	20	25	DC..11T3	M4-10-5.7-60	T15	3.0	0.49
S25R-SDUCR-11	200	25	32	DC..11T3	M4-10-5.7-60	T15	3.0	0.87

SDQCR 內徑車刀架
SDQCR INTERNAL TURNING TOOL

KOVIT

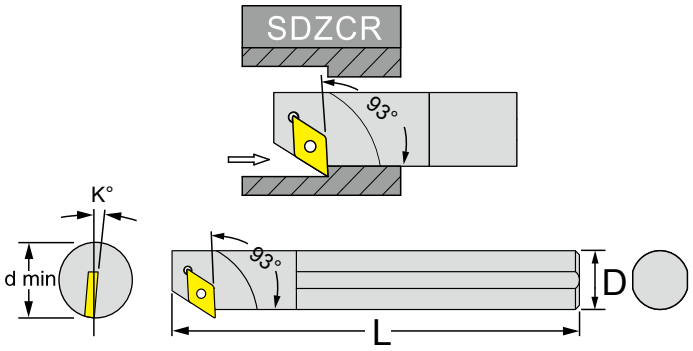


規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S10K-SDQCR-07	125	10	13	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.09
S12M-SDQCR-07	150	12	16	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.14
S16Q-SDQCR-07	180	16	20	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.28
S20R-SDQCR-11	200	20	25	DC..11T3	M4-10-5.7-60	T15	3.0	0.48
S25R-SDQCR-11	200	25	32	DC..11T3	M4-10-5.7-60	T15	3.0	0.84

• 長度單位 Unit of Length (mm)

SDZCR 內徑車刀架
SDZCR INTERNAL TURNING TOOL

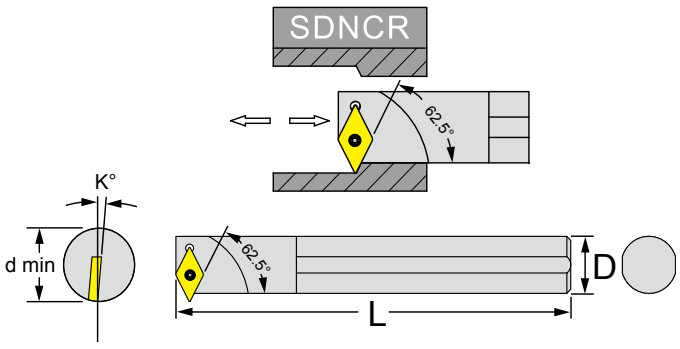
KOVIT



規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S10M-SDZCR-07	150	10	14	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.10
S12M-SDZCR-07	150	12	17	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.15
S16Q-SDZCR-07	180	16	21	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.29
S20R-SDZCR-11	200	20	26	DC..11T3	M4-10-5.7-60	T15	3.0	0.48
S25R-SDZCR-11	200	25	33	DC..11T3	M4-10-5.7-60	T15	3.0	0.74

SDNCR 內徑車刀架
SDNCR INTERNAL TURNING TOOL

KOVIT

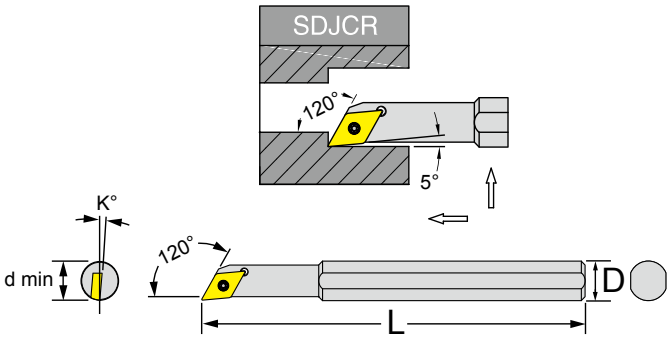


規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S16Q-SDNCR-07	180	16	20	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.28
S20R-SDNCR-11	200	20	25	DC..11T3	M4-10-5.7-60	T15	3.0	0.49
S25R-SDNCR-11	200	25	32	DC..11T3	M4-10-5.7-60	T15	3.0	0.86

• 長度單位 Unit of Length (mm)

SDJCR 內徑車刀架
SDJCR INTERNAL TURNING TOOL

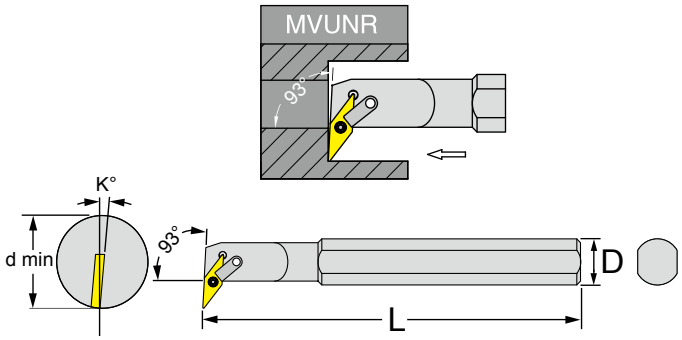
KOVIT



規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S08H-SDJCR-07	100	8	10	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.07
S10K-SDJCR-07	125	10	12	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.10
S12M-SDJCR-07	150	12	14	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.15
S16Q-SDJCR-07	180	16	19	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.28
S16Q-SDJCR-11	180	16	19	DC..11T3	M4-10-5.7-60	T15	3.0	0.29
S20R-SDJCR-11	200	20	23	DC..11T3	M4-10-5.7-60	T15	3.0	0.48
S25R-SDJCR-11	200	25	28	DC..11T3	M4-10-5.7-60	T15	3.0	0.85

MVUNR 內徑車刀架
MVUNR INTERNAL TURNING TOOL

KOVIT

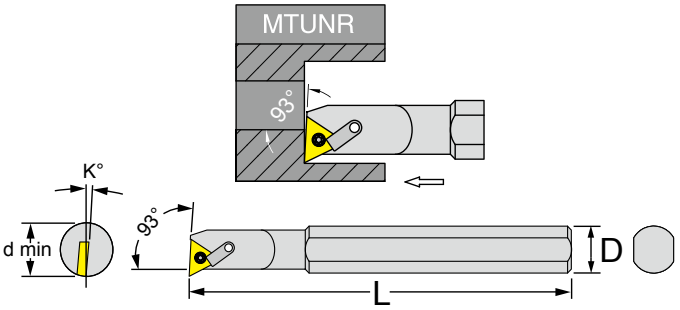


規格 Spec.	L	D	d	刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 - 星型 Clamp Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S25R-MVUNR-16	200	25	32	VN..1604	-	MLP33L	PL2	3.0	MC515	MS520T	T10-L	5.0	0.86
S32S-MVUNR-16	250	32	40		VMS322	MLP34L			MC620	MS625T	T15-L		1.56

• 長度單位 Unit of Length (mm)

MTUNR 內徑車刀架
MTUNR INTERNAL TURNING TOOL

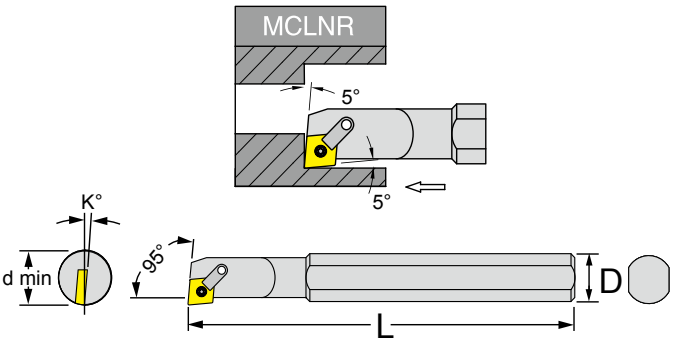
KOVIT



規格 Spec.	L	D	d	刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 - 星型 Clamp Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20R-MTUNR-16	200	20	25	TN..1604	-	MLP33L	PL2	3.0	MC515	MS520T	T15-L	5.0	0.48
S25R-MTUNR-16	200	25	30	TN..1604	-	MLP33L	PL2	3.0	MC515	MS520T	T15-L	5.0	0.94
S32S-MTUNR-16	250	32	40	TN..1604	TMS322	MLP34L	PL2	3.0	MC620	MS625T	T15-L	5.0	1.56

MCLNR 內徑車刀架
MCLNR INTERNAL TURNING TOOL

KOVIT

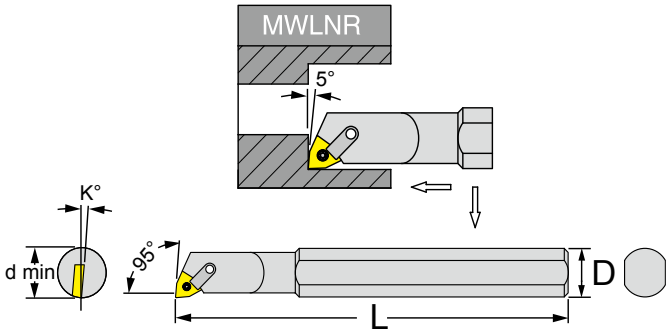


規格 Spec.	L	D	d	刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 - 星型 Clamp Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20R-MCLNR-12	200	20	25	CN..1204	-	MLP44	PL2.5	5.0	MC620	MS620T	T15-L	5.0	0.48
S25R-MCLNR-12	200	25	30	CN..1204	-	MLP44	PL2.5	5.0	MC620	MS620T	T15-L	5.0	0.94
S32S-MCLNR-12	250	32	40	CN..1204	CMS432	MLP46	PL2.5	5.0	MC620	MS625T	T15-L	5.0	1.56

• 長度單位 Unit of Length (mm)

MWLNR 內徑車刀架
MWLNR INTERNAL TURNING TOOL

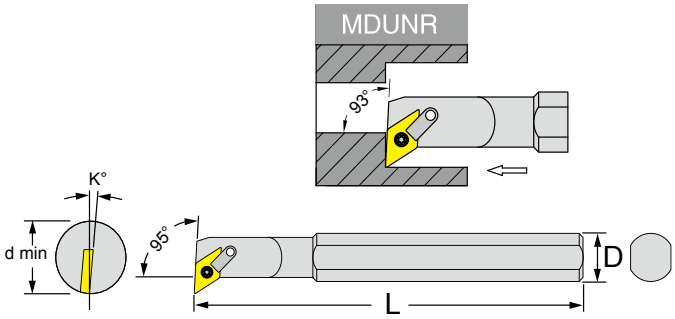
KOVIT



規格 Spec.	L	D	d	刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 - 星型 Clamp Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20R-MWLNR-08	200	20	25	WN..0804	-	MLP44	PL2.5	5.0	MC515	MS520T	T10-L	5.0	0.47
S25R-MWLNR-08	200	25	30	WN..0804	-	MLP44	PL2.5	5.0	MC515	MS520T	T10-L	5.0	0.85
S32S-MWLNR-08	250	32	40	WN..0804	WMS432	MLP46	PL2.5	5.0	MC515	MS520T	T10-L	5.0	1.54

MDUNR 內徑車刀架
MDUNR INTERNAL TURNING TOOL

KOVIT



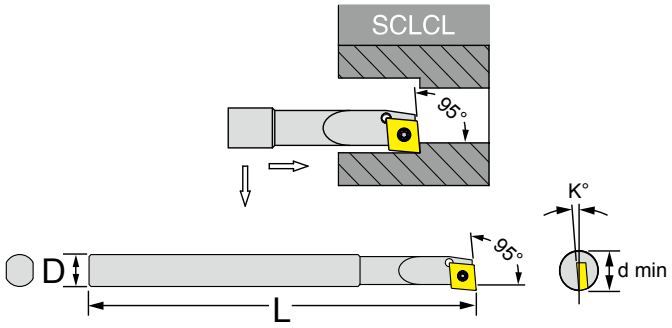
規格 Spec.	L	D	d	刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 - 星型 Clamp Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S25R-MDUNR-15	200	25	32	DN..1504	-	MLP44	PL2.5	5.0	MC620	MS620T	T15-L	5.0	0.86
S32S-MDUNR-15	250	32	40	DN..1504	-	MLP46	PL2.5	5.0	MC620	MS625T	T15-L	5.0	1.6

• 長度單位 Unit of Length (mm)

SCLCL 內徑車刀架
SCLCL INTERNAL TURNING TOOL

KOVIT

左旋
Counterclockwise

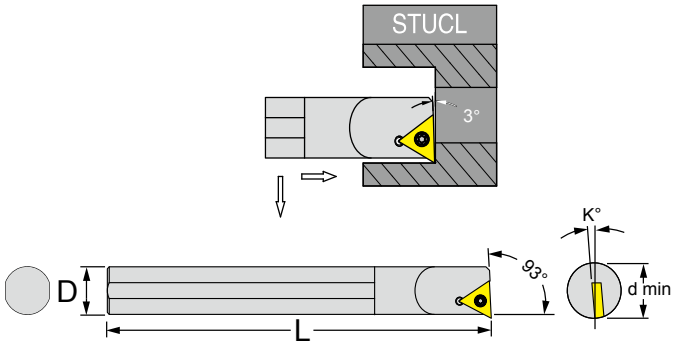


規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S08K-SCLCL-06	100	8	10	CC..0602	M2.5-6.0-3.5-60	T8	1.2	0.07
S10K-SCLCL-06	125	10	12	CC..0602	M2.5-6.0-3.5-60	T8	1.2	0.01
S12M-SCLCL-06	150	12	16	CC..0602	M2.5-6.0-3.5-60	T8	1.2	0.14
S16Q-SCLCL-09T	180	16	20	CC..09T3	M4-10-5.7-60	T15	3.0	0.30
S20R-SCLCL-09T	200	20	25	CC..09T3	M4-10-5.7-60	T15	3.0	0.49
S25R-SCLCL-09T	200	25	30	CC..09T3	M4-10-5.7-60	T15	3.0	0.77

STUCL 內徑車刀架
STUCL INTERNAL TURNING TOOL

KOVIT

左旋
Counterclockwise



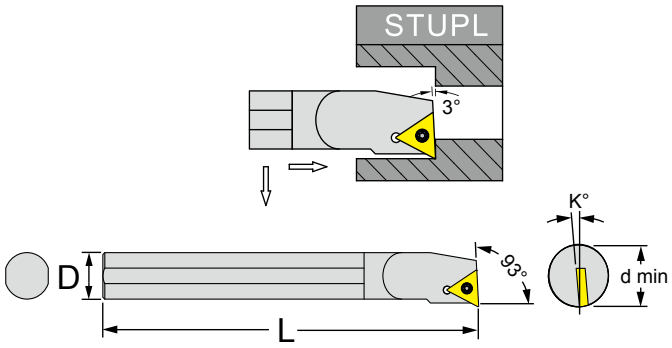
規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S08H-STUCL-09	100	8	10	TC..0902	M2.5-6.0-3.5-60	T8	1.2	0.07
S10K-STUCL-11	125	10	12	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.09
S12M-STUCL-11	150	12	16	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.15
S16Q-STUCL-11	180	16	20	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.29
S20R-STUCL-16	200	20	25	TC..16T3	M4-10-5.0-43	T15	3.0	0.49
S25R-STUCL-16	200	25	30	TC..16T3	M4-10-5.0-43	T15	3.0	0.95

• 長度單位 Unit of Length (mm)

STUBL/STUPL 內徑車刀架
STUBL/STUPL INTERNAL TURNING TOOL

KOVIT

左旋
Counterclockwise

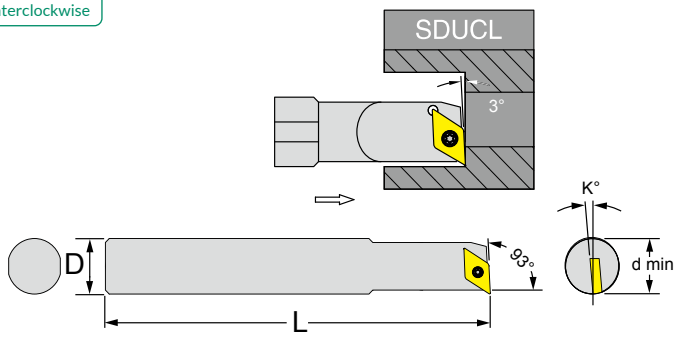


規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S0806H-STUBL-06	100	8	8	TB..0601	M2-3.8-2.68-43	T6	0.6	0.06
S08H-STUPL-09	125	8	10	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.06
S10K-STUPL-09	125	10	12	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.06
S10K-STUPL-11	125	10	12	TP..1103	M3-8.0-4.0-43	T9	1.4	0.10
S12M-STUPL-11	150	12	16	TP..1103	M3-8.0-4.0-43	T9	1.4	0.14
S16Q-STUPL-11	180	16	20	TP..1103	M3-8.0-4.0-43	T9	1.4	0.28
S20R-STUPL-11	200	20	25	TP..1103	M3-8.0-4.0-43	T9	1.4	0.50
S20R-STUPL-1603	200	20	25	TP..1603	M4-10-5.7-60	T15	3.0	0.48
S25R-STUPL-1603	200	25	30	TP..1603	M4-10-5.7-60	T15	3.0	0.86

SDUCL 內徑車刀架
SDUCL INTERNAL TURNING TOOL

KOVIT

左旋
Counterclockwise



規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S10K-SDUCL-07	125	10	13	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.09
S12M-SDUCL-07	150	12	16	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.09
S16Q-SDUCL-11	180	16	20	DC..11T3	M4-10-5.7-60	T15	3.0	0.30
S20R-SDUCL-11	200	20	25	DC..11T3	M4-10-5.7-60	T15	3.0	0.48
S25R-SDUCL-11	200	25	32	DC..11T3	M4-10-5.7-60	T15	3.0	0.75

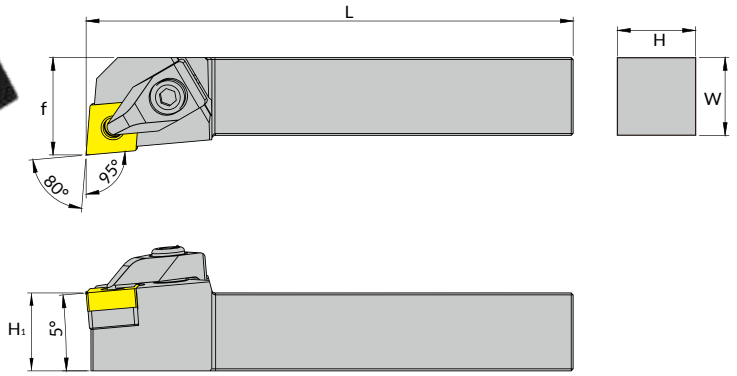
• 長度單位 Unit of Length (mm)

DCLNR 外徑車刀
DCLNR EXTERNAL TURNING TOOL

D 型壓板設計 Type D Clamp Design

KOVIT

NEW



特點 Feature

- 刀片鎖固定位性佳
- 剛性夾持，強力鎖固
- 輕鬆轉位
- 減少換刀校刀時間

-The blade lock has good fixation.
-Rigid clamping and strong locking.
-Easy transposition.
-Reduce tool change and calibration time.

規格 Spec.	L	H	W	H1	f	刀片 Insert	重量 (KGS) Weight
DCLNR-2020K-12	125	20	20	20	25	CN..1204	0.45
DCLNR-2525M-12	150	25	25	25	32	CN..1204	0.8

配件表 Accessories

規格 Spec.	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	彈簧 Spring	扳手 Wrench	扭力值 (N.m) Torque
DCLNR-2020K-12	CNS1204	M4-10-5.7-60	T15	3	DCP-2	M5-20-4.9	DCS-2	PL4	5
DCLNR-2525M-12									

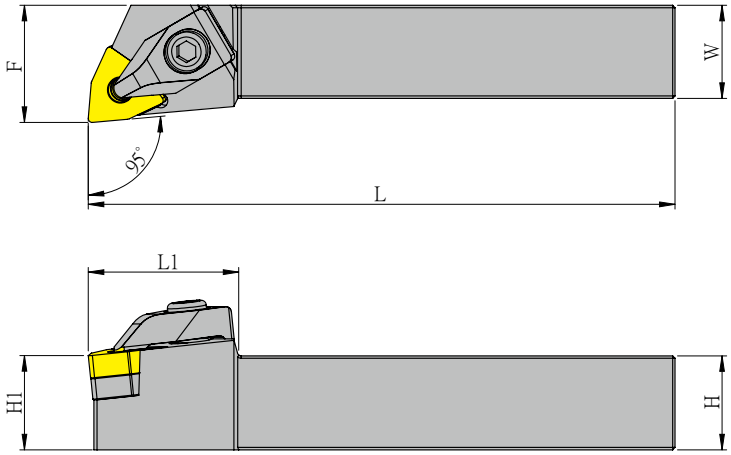
• 長度單位 Unit of Length (mm)

DWLNR 外徑車刀
DWLNR EXTERNAL TURNING TOOL

D 型壓板設計 Type D Clamp Design

KOVIT

NEW



特點 Feature

- 刀片鎖固定位性佳
- 剛性夾持，強力鎖固
- 輕鬆轉位
- 減少換刀校刀時間

- The blade lock has good fixation.
- Rigid clamping and strong locking.
- Easy transposition.
- Reduce tool change and calibration time.

規格 Spec.	L	H	W	H1	f	刀片 Insert	重量 (KGS) Weight
DWLNR-2020K-08	125	20	20	20	25	WN..0804	0.45
DWLNR-2525M-08	150	25	25	25	32	WN..0804	0.8

配件表 Accessories

規格 Spec.	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	彈簧 Spring	扳手 Wrench	扭力值 (N.m) Torque
DWLNR-2020K-08	WNS0804	M5-12-7.3-60	T20	3	DCP-2	M5-20-4.9	DCS-2	PL4	5
DWLNR-2525M-08									

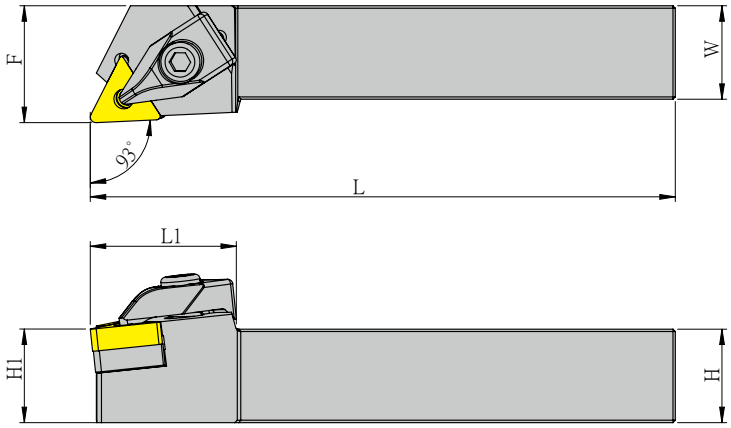
• 長度單位 Unit of Length (mm)

DTJNR 外徑車刀
DTJNR EXTERNAL TURNING TOOL

D 型壓板設計 Type D Clamp Design

KOVIT

NEW



特點 Feature

- 刀片鎖固定位性佳
- 剛性夾持，強力鎖固
- 輕鬆轉位
- 減少換刀校刀時間

-The blade lock has good fixation.
-Rigid clamping and strong locking.
-Easy transposition.
-Reduce tool change and calibration time.

規格 Spec.	L	H	W	H1	f	刀片 Insert	重量 (KGS) Weight
DTJNR-2020K-16	125	20	20	20	25	TN..1604	0.45
DTJNR-2525M-16	150	25	25	25	32	TN..1604	0.8

配件表 Accessories

規格 Spec.	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	彈簧 Spring	扳手 Wrench	扭力值 (N.m) Torque
DTJNR-2020K-16	TNS1604	M4-9-5.15-47	T15	3	DCP-1	M5-20-4.9	DCS-2	PL4	5
DTJNR-2525M-16									

• 長度單位 Unit of Length (mm)

WTJNR/WTJNL 外徑車刀架
WTJNR/WTJNL EXTERNAL TURNING TOOL

KOVIT

Fig.1

Fig.2

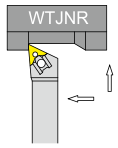


Fig.1

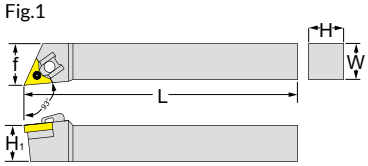
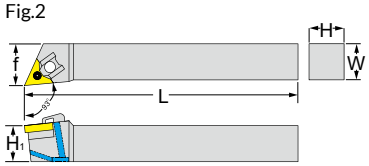


Fig.2



規格 Spec.	L	H	W	H_1	f	刀片 Insert	Fig.	重量 (KGS) Weight
WTJNR-1616K-16	125	16	16	16	21	TN..1604	1	0.31
WTJNL-1616K-16	125	16	16	16	21	TN..1604	1	0.25
WTJNR-2020K-16	125	20	20	20	25	TN..1604	1	0.44
WTJNL-2020K-16	125	20	20	20	25	TN..1604	1	0.45
WTJNR-2525M-16	150	25	25	25	32	TN..1604	1	0.78
WTJNL-2525M-16	150	25	25	25	32	TN..1604	1	0.77
• WTJNR-A2020K-16JET	125	20	20	20	25	TN..1604	2	0.44
• WTJNR-A2525M-16JET	150	25	25	25	32	TN..1604	2	0.78

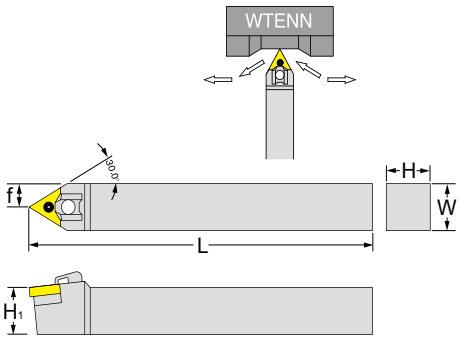
• 出水型 Coolant Type

配件表 Accessories

規格 Spec.	螺絲 Screw	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
WTJNR/L-1616K-16	MCS3S-11	TWS322	MCP3	PL3	5.0	MCW3		PL4	5.0
WTJNR/L-2020K-16									
WTJNR/L-2525M-16									
WTJNR-A2020K-16JET	-	TMS322	LCS-519-1A	PL2.5	5.0	WTPSE-2115A		PL4	5.0
WTJNR-A2525M-16JET									

WTENN 外徑車刀架
WTENN EXTERNAL TURNING TOOL

KOVIT



規格 Spec.	L	H	W	H_1	f	刀片 Insert	重量 (KGS) Weight
WTENN-2020K-16	125	20	20	20	10	TN..1604	0.42
WTENN-2525M-16	150	25	25	25	12.5	TN..1604	0.75

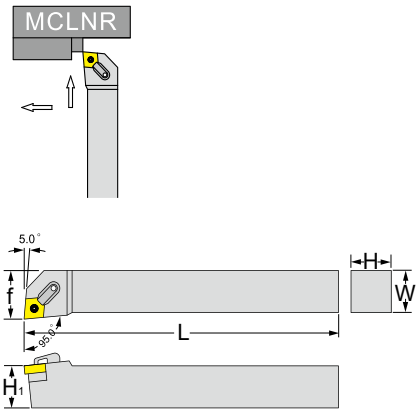
配件表 Accessories

規格 Spec.	螺絲 Screw	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
WTENN-2020K-16	MCS3S-09	TWS322	MCP3	PL3	5.0	MCW3	PL4	5.0
WTENN-2525M-16								

• 長度單位 Unit of Length (mm)

MCLNR/MCLNL 外徑車刀架
MCLNR/MCLNL EXTERNAL TURNING TOOL

KOVIT



規格 Spec.	L	H	W	H_1	f	刀片 Insert	重量 (KGS) Weight
MCLNR-2020K-12	125	20	20	20	25	CN..1204	0.45
MCLNL-2020K-12	125	20	20	20	25	CN..1204	0.44
MCLNR-2525M-12	150	25	25	25	32	CN..1204	0.82
MCLNL-2525M-12	150	25	25	25	32	CN..1204	0.79

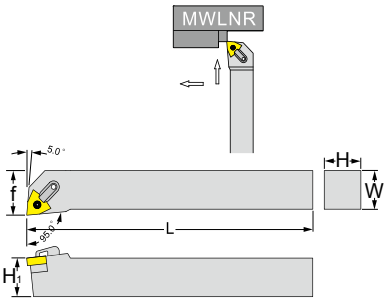
配件表 Accessories

規格 Spec.	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 - 星型 Clamp Wrench	扭力值 (N.m) Torque
MCLNR/L-2020K-12	CMS432	MLP46	PL2.5	5.0	MC620	MS625T	T15-L	5.0
MCLNR/L-2525M-12	CMS432	MLP46	PL2.5	5.0	MC620	MT630T	T15-L	5.0

• 長度單位 Unit of Length (mm)

MWLNR/MWLNL 外徑車刀架
MWLNR/MWLNL EXTERNAL TURNING TOOL

KOVIT



規格 Spec.	L	H	W	H_1	f	刀片 Insert	重量 (KGS) Weight
MWLNR-2020K-08	125	20	20	20	25	WN..0804	0.45
MWLNL-2020K-08	125	20	20	20	25	WN..0804	0.44
MWLNR-2525M-08	150	25	25	25	32	WN..0804	0.80
MWLNL-2525M-08	150	25	25	25	32	WN..0804	0.79

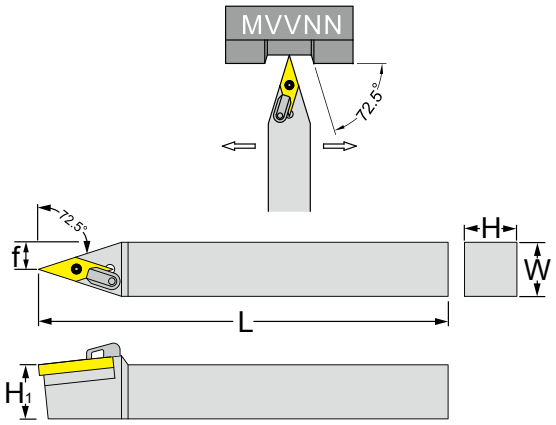
配件表 Accessories

規格 Spec.	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 - 星型 Clamp Wrench	扭力值 (N.m) Torque
MWLNR/L-2020K-08	WMS432	MLP46	PL2.5	5.0	MC620	MS625T	T15-L	5.0
MWLNR/L-2525M-08						MS630T		

• 長度單位 Unit of Length (mm)

MVVNN 外徑車刀架
MVVNN EXTERNAL TURNING TOOL

KOVIT



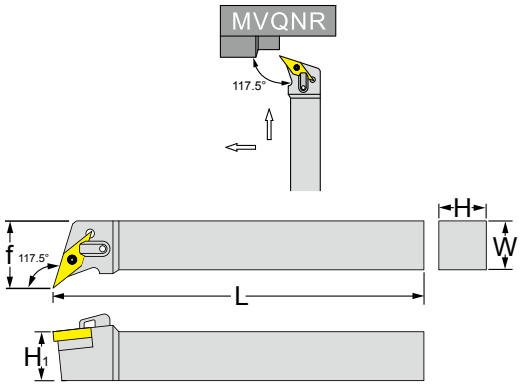
規格 Spec.	L	H	W	H_1	f	刀片 Insert	重量 (KGS) Weight
MVVNN-2020K-16	125	20	20	20	10	VN..1604	0.43
MVVNN-2525M-16	150	25	25	25	12.5	VN..1604	0.75

配件表 Accessories

規格 Spec.	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 - 星型 Clamp Wrench	扭力值 (N.m) Torque
MVVNN-2020K-16	VMS322	MLP34L	PL2	3.0	MC622	MS625T	T15-L	5.0
MVVNN-2525M-16						MS630T		

MVQNR 外徑車刀架
MVQNR EXTERNAL TURNING TOOL

KOVIT



規格 Spec.	L	H	W	H_1	f	刀片 Insert	重量 (KGS) Weight
MVQNR-2020K-16	125	20	20	20	25	VN..1604	0.45
MVQNR-2525M-16	150	25	25	25	32	VN..1604	0.79

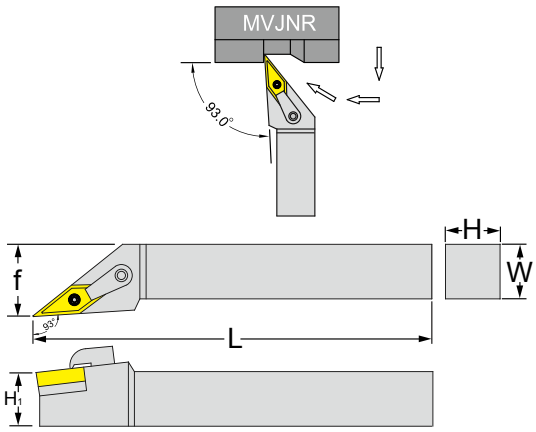
配件表 Accessories

規格 Spec.	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 - 星型 Clamp Wrench	扭力值 (N.m) Torque
MVQNR-2020K-16	VMS322	MLP34L	PL2	3.0	MC622	MS625T	T15-L	5.0
MVQNR-2525M-16						MS630T		

• 長度單位 Unit of Length (mm)

MVJNR 外徑車刀架
MVJNR EXTERNAL TURNING TOOL

KOVIT



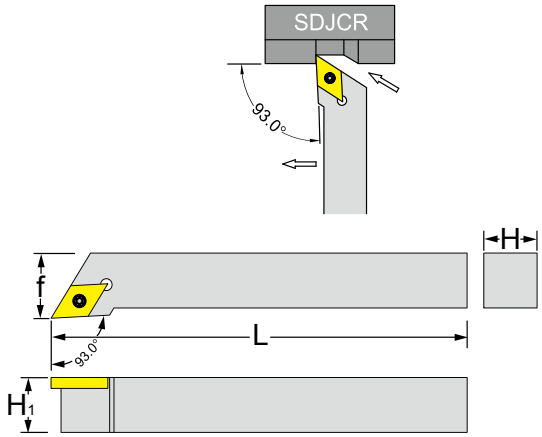
規格 Spec.	L	H	W	H_1	f	刀片 Insert	重量 (KGS) Weight
MVJNR-2020K-16	125	20	20	20	25	VN..1604	0.44
MVJNR-2525M-16	150	25	25	25	32	VN..1604	0.76

配件表 Accessories

規格 Spec.	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 - 星型 Clamp Wrench	扭力值 (N.m) Torque
MVJNR-2020K-16	VMS322	MLP34L	PL2	3.0	MC622	MS625T	T15-L	5.0
MVJNR-2525M-16						MS630T		

SDJCR 外徑車刀架
SDJCR EXTERNAL TURNING TOOL

KOVIT



規格 Spec.	L	H	H_1	f	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
SDJCR-1616K-11	120	16	16	20	DC..11T3	M4-10-5.7-60	T15	3.0	0.28
SDJCR-2020K-11	125	20	20	25	DC..11T3	M4-10-5.7-60	T15	3.0	0.41

• 長度單位 Unit of Length (mm)

SDJ2CR 外徑車刀架
SDJ2CR EXTERNAL TURNING TOOL

KOVIT

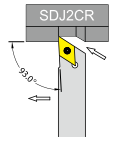


Fig.1

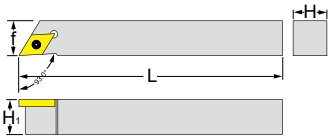
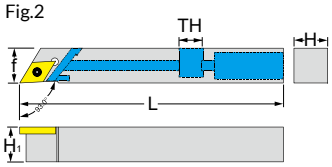


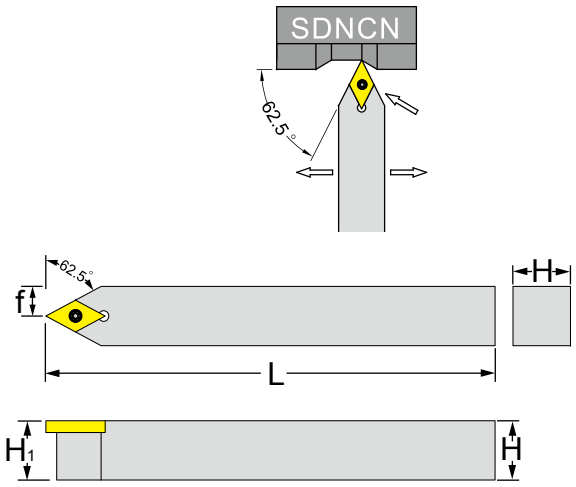
Fig.2



規格 Spec.	L	H	H_1	f	TH	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
SDJ2CR-1212H-11	100	12	12	12	-	DC..11T3	M4-10-5.7-60	T15	3.0	1	0.13
SDJ2CR-1616K-11	125	16	16	16	-	DC..11T3	M4-10-5.7-60	T15	3.0	1	0.26
ZSDJ2CR-A1212K-11	125	12	12	10	1/8”	DC..11T3	M4-8.8-5.4-60	T15	3.0	2	0.13
ZSDJ2CR-A1616K-11	125	16	16	14	1/8”	DC..11T3	M4-8.8-5.4-60	T15	3.0	2	0.26

SDNCN 外徑車刀架
SDNCN EXTERNAL TURNING TOOL

KOVIT



規格 Spec.	L	H	H_1	f	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
SDNCN-1212H-11	100	12	12	6	DC..11T3	M4-10-5.7-60	T15	3.0	0.12
SDNCN-1616K-11	125	16	16	8	DC..11T3	M4-10-5.7-60	T15	3.0	0.25
SDNCN-2020K-11	125	20	20	10	DC..11T3	M4-10-5.7-60	T15	3.0	0.40
SDNCN-2525M-11	150	25	25	12.5	DC..11T3	M4-10-5.7-60	T15	3.0	0.72

• 長度單位 Unit of Length (mm)

SVJCR 外徑車刀架
SVJCR EXTERNAL TURNING TOOL

KOVIT

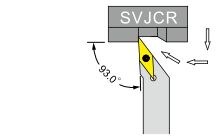


Fig.1

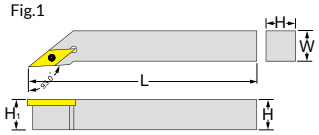
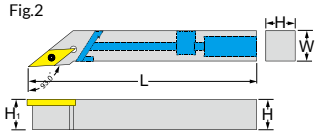


Fig.2



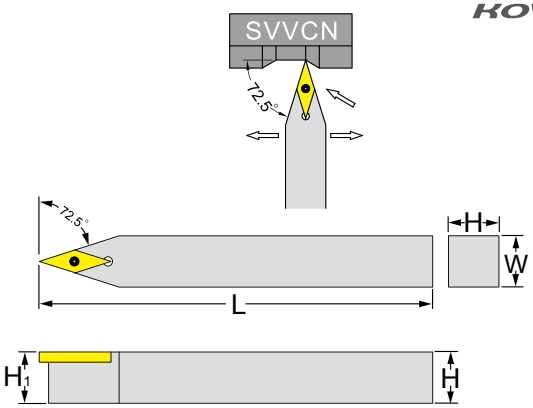
規格 Spec.	L	H	H_1	W	刀片 Insert	刀片螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
ZSVJ2CR-A1212K-11	125	12	12	12	VC..1103	M2.5-6.0-3.5-60	T8	1.2	2	-
ZSVJ2CR-A1616K-11	125	16	16	16	VC..1103	M2.5-6.0-3.5-60	T8	1.2	2	-
SVJCR-2020K-16	125	20	20	20	VC..1604	M3.5-11.7-5.3-60	-	3.0	1	0.40
SVJCR-2525M-16	150	25	25	25	VC..1604	M3.5-11.7-5.3-60	-	3.0	1	0.70

配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	墊片扳手 Shim Wrench	扭力值 (N.m) Torque
VC..1604	VSS322	M3.5-11.7-5.3-60	PL3.5	5.0

SVVCN 外徑車刀架
SVVCN EXTERNAL TURNING TOOL

KOVIT



規格 Spec.	L	H	H_1	W	刀片 Insert	重量 (KGS) Weight
SVVCN-2020K-16	125	20	20	20	VC..1604	0.39
SVVCN-2525M-16	150	25	25	25	VC..1604	0.69

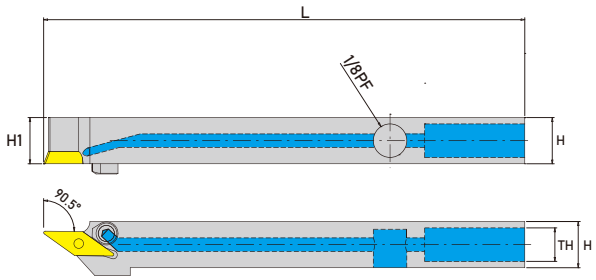
配件表 Accessories

刀片 Insert	墊片 Shim	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板螺絲 Clamp Screw	墊片扳手 Shim Wrench
VC..1604	VSS322	M3.5-11.7-5.3-60	T15	3.0	MDS05035	PL3.5

• 長度單位 Unit of Length (mm)

ZSVK2CR 走心出水車刀
ZSVK2CR EXTERNAL TURNING TOOL FOR SWISS-TYPE LATHE

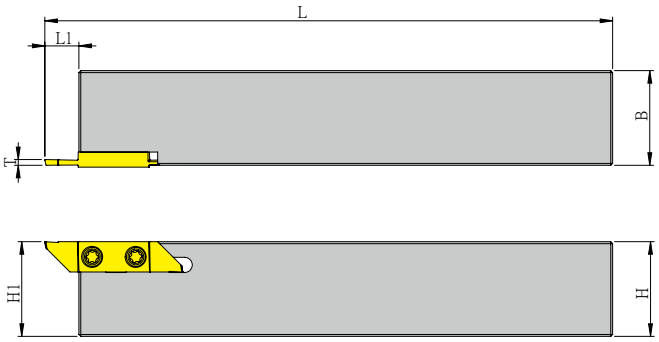
NEW



規格 Spec.	L	H	H_1	f	TH	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
ZSVK2CR-A1212K-11	125	12	12	10	1/8”	VC..1103	M2.5-6.0-3.5-60	T8	3.0	-

SCCI 走心式車刀架
SCCI EXTERNAL TURNING TOOL FOR SWISS-TYPE LATHE

NEW



規格 Spec.	B	H (H_1)	L	L_1	T	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
SCCIR-1010K-375	10	10	125	9	4	M3.5-8.0-5.5-60	T15	3.0	0.13
SCCIR-1212K-375	12	12	125	9	4	M3.5-8.0-5.5-60	T15	3.0	0.16
SCCIR-1212M-375	12	12	150	9	4	M3.5-8.0-5.5-60	T15	3.0	0.18
SCCIR-1616M-375	16	16	150	9	4	M3.5-8.0-5.5-60	T15	3.0	0.3
SCCIR-2020K-375	20	20	125	9	4	M3.5-8.0-5.5-60	T15	3.0	0.38

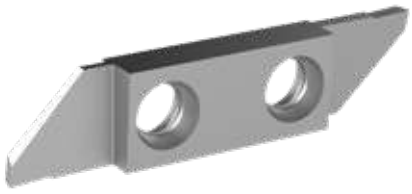
SCCI_375 切削條件數據表 Cutting Parameter

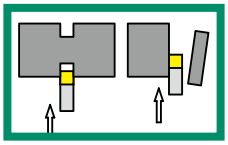
被加工材質 Machining Materials		車削 / 開槽 Slotting				掃刀 Plunging			
		材質 Grade	切削速度 Speed V_c(m/min)	每刃進給 Feed h_m (mm)		材質 Grade	切削速度 Speed V_c(m/min)	每刃進給 Feed h_m (mm)	
				開槽	橫向進給			開槽	橫向進給
P	低合金鋼 Low-Alloy Steels	OM4025	100-190	0.01-0.03	0.02-0.15	OM4025	80-180	0.02	0.02-0.07
	合金鋼 Alloyed Steels	OM4025	90-140	0.01-0.03	0.02-0.15	OM4025	80-140	0.02	0.02-0.07
M	不鏽鋼 Stainless Steels	OM5035	70-140	0.01-0.02	0.01-0.1	OM4035	40-130	0.02	0.02-0.05
K	鑄鐵 Cast Iron	OM4025	90-200	0.01-0.02	0.01-0.15	OM4025	90-200	0.02	0.02-0.05
N	非鐵合金 Non-Ferrous Metals	OM5005	200-500	0.01-0.05	0.02-0.10	OM5005	100-200	0.02	0.02-0.10

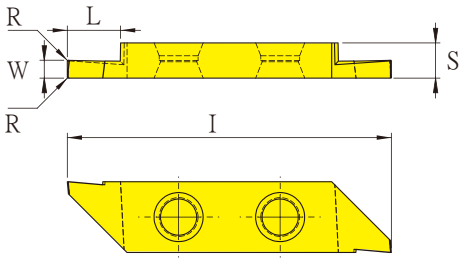
• 長度單位 Unit of Length (mm)

走心式車刀片
THREADING INSERTS FOR SWISS-TYPE LATHE

NEW

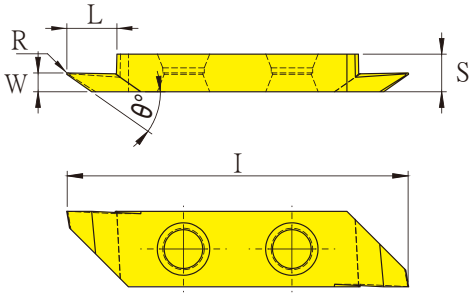






切斷 / 切槽 Cut off / Grooving

規格 Spec.	鍍層超微粒 Layer coated micro grain			超硬微粒 Micro-grain hard alloy			尺寸 (mm)					
	CHF			HF			Size					
	OM4025	OM5035		OM5005			W	R	加工深度 Depth	L	I	S
NEW SCCIL375-41002	PK	M		N			1	0.2	6	11	37.5	4.0
NEW SCCIR375-41002	PK	M		N			1	0.2	6	11	37.5	4.0
NEW SCCIL375-41502	PK	M		N			1.5	0.2	8	11	37.5	4.0
NEW SCCIR375-41502	PK	M		N			1.5	0.2	8	11	37.5	4.0
NEW SCCIL375-42002	PK	M		N			2	0.2	10	11	37.5	4.0
NEW SCCIR375-42002	PK	M		N			2	0.2	10	11	37.5	4.0
NEW SCCIL375-42502	PK	M		N			2.5	0.2	10	11	37.5	4.0
NEW SCCIR375-42502	PK	M		N			2.5	0.2	10	11	37.5	4.0
NEW SCCIL375-43002	PK	M		N			3	0.2	10	11	37.5	4.0
NEW SCCIR375-43002	PK	M		N			3	0.2	10	11	37.5	4.0



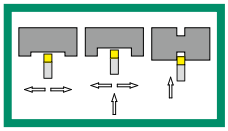
後掃 Back Turning

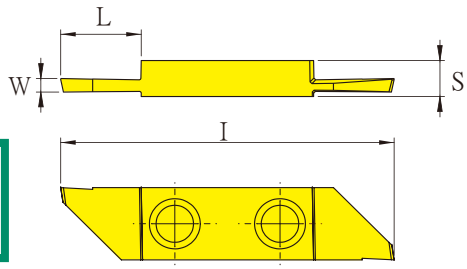
規格 Spec.	鍍層超微粒 Layer coated micro grain			超硬微粒 Micro-grain hard alloy			尺寸 (mm)							
	CHF			HF			Size							
	OM4025	OM5035		OM5005			W	HF	R	加工深度 Depth	L	θ	I	S
NEW SCCIL375-BL40502-60	PK	M		N			0.5	0.5	0.2	0.1-4.2	11	60°	37.5	4.0
NEW SCCIR375-BL40502-60	PK	M		N			0.5	0.5	0.2	0.1-4.2	11	60°	37.5	4.0
NEW SCCIL375-BL41002-60	PK	M		N			1	0.5	0.2	0.1-4.2	11	60°	37.5	4.0
NEW SCCIR375-BL41002-60	PK	M		N			1	0.5	0.2	0.1-4.2	11	60°	37.5	4.0
NEW SCCIL375-BL41002-70	PK	M		N			1	0.2	0.2	0.1-4.2	11	70°	37.5	4.0
NEW SCCIR375-BL41002-70	PK	M		N			1	0.2	0.2	0.1-4.2	11	70°	37.5	4.0

NEW 新品 New Product

• 長度單位 Unit of Length (mm)

走心式車刀片
THREADING INSERTS FOR SWISS-TYPE LATHE

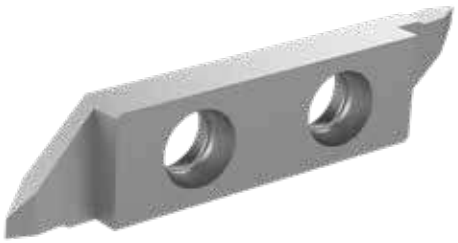


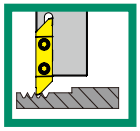


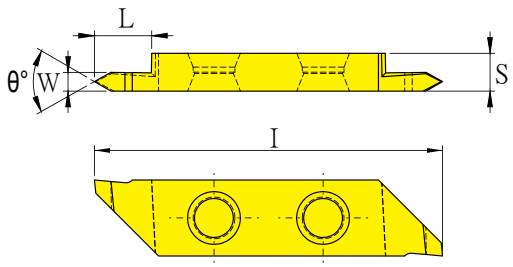
NEW

插掃 / 橫掃 Side Turning

規格 Spec.	鍍層超微粒 Layer coated micro grain			超硬微粒 Micro grain carbide alloy			尺寸 (mm)					
	CHF			HF			Size					
	OM4025	OM5035		OM5005			W	R	加工深度	L	I	S
NEW SCCIL375-AD43002	PK	M		N			3	0.2	11	11	37.5	4.0







牙刀 Threading

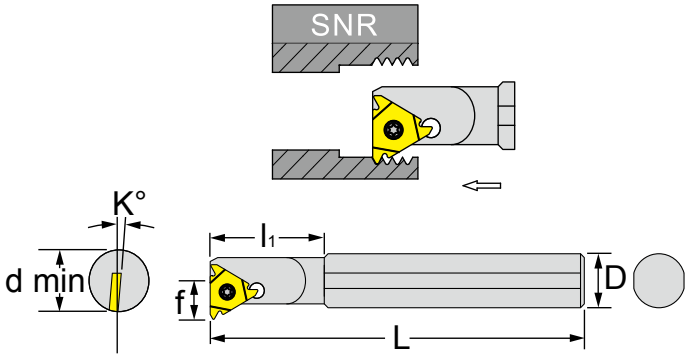
規格 Spec.	鍍層超微粒 Layer coated micro grain			超硬微粒 Micro grain carbide alloy			尺寸 (mm)					
	CHF			HF			Size					
	OM4025	OM5035		OM5005			W	R	PITCH	θ	I	S
NEW SCCIL375-T42001-A60	PK	M		N			4	0.1	0.4-1.5	60°	37.5	4.0
NEW SCCIR375-T42001-A60	PK	M		N			4	0.1	0.4-1.5	60°	37.5	4.0
NEW SCCIL375-T43002-B60	PK	M		N			6	0.2	1.5-2.5	60°	37.5	4.0
NEW SCCIR375-T43002-B60	PK	M		N			6	0.2	1.5-2.5	60°	37.5	4.0

NEW 新品 New Product

• 長度單位 Unit of Length (mm)

SNR 內徑牙刀架
SNR INTERNAL THREADING TURNING TOOL

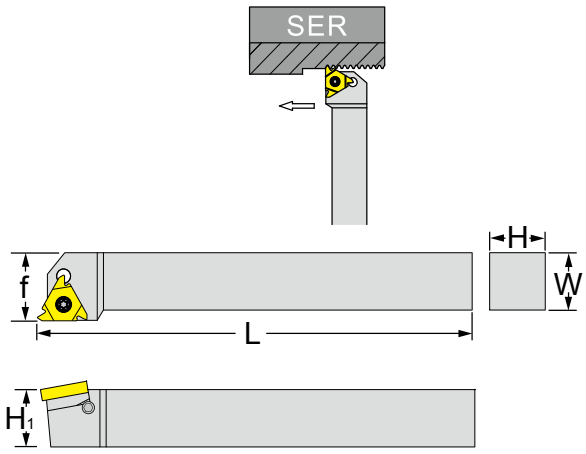
KOVIT



規格 Spec.	L	l1	D	d	f	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	墊片 Shim	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
SNR-0008K-08	125	20	8	11	5.5	08IR	M2.2-5.5-3.4-60	T7	0.9	-	-	-	-	0.18
SNR-0010K-11	125	25	10	13	6.5	11IR	M2.5-8.0-3.5-60-T8	T8	1.2	-	-	-	-	0.19
SNR-0013M-11	150	32	13	16	8	11IR	M2.5-8.0-3.5-60-T8	T8	1.2	-	-	-	-	0.22
SNR-0013M-16	150	32	13	17	8.5	16IR	M3.5-9.0-5.3-60	T15	3.0	-	-	-	-	0.24
SNR-0016Q-16	180	36	16	19	10	16IR	M3.5-9.0-5.3-60	T15	3.0	-	-	-	-	0.30
SNR-0020R-16	200	40	20	24	12	16IR	M3.5-11.7-5.3-60	T15	3.0	GXN16	HTM309	PL2.5	5.0	0.50
SNR-0025R-16	200	45	25	29	14.5	16IR	M3.5-11.7-5.3-60	T15	3.0	GXN16	HTM309	PL2.5	5.0	0.76
SNR-0032S-16	250	45	32	36	18.5	16IR	M3.5-11.7-5.3-60	T15	3.0	GXN16	HTM309	PL2.5	5.0	1.60

SER 外徑牙刀架
SER EXTERNAL THREADING TURNING TOOL

KOVIT

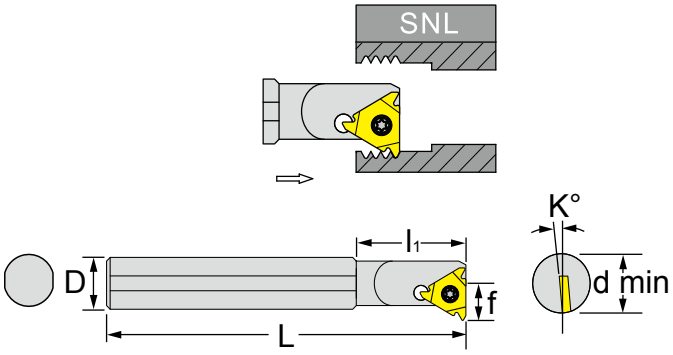


規格 Spec.	L	H	H1	W	f	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	墊片 Shim	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
SER-1616K-16	125	16	16	16	20	16ER	M3.5-11.7-5.3-60	T15	3.0	GXE16	HTM309	PL2.5	5.0	0.31
SER-2020K-16	125	20	20	20	25	16ER	M3.5-11.7-5.3-60	T15	3.0	GXE16	HTM309	PL2.5	5.0	0.45
SER-2525M-16	150	25	25	25	32	16ER	M3.5-11.7-5.3-60	T15	3.0	GXE16	HTM309	PL2.5	5.0	0.82

• 長度單位 Unit of Length (mm)

SNL 內徑牙刀架
SNL INTERNAL THREADING TURNING TOOL

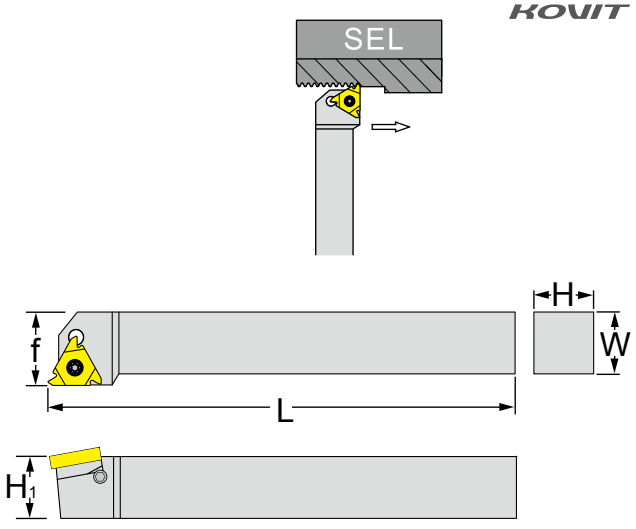
KOVIT



規格 Spec.	L	l1	D	d	f	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	墊片 Shim	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
SNL-0008K-08	125	21	16	11	5.5	08ER	M2.2-5.5-3.4-60	T7	0.9	-	-	-	-	0.19
SNL-0010K-11	125	25	16	13	6.5	11ER	M2.5-8.0-3.5-60-T8	T8	1.2	-	-	-	-	0.19
SNL-0013M-11	150	32	16	16	8	11ER	M2.5-8.0-3.5-60-T8	T8	1.2	-	-	-	-	0.24
SNL-0013M-16	150	32	16	17	8.5	16ER	M3.5-9.0-5.3-60	T15	3.0	-	-	-	-	0.24
SNL-0016Q-16	180	36	16	19	10	16ER	M3.5-9.0-5.3-60	T15	3.0	-	-	-	-	0.30
SNL-0020R-16	200	40	20	24	12	16ER	M3.5-11.7-5.3-60	T15	3.0	GXN16	HTM309	PL2.5	5.0	0.51
SNL-0025R-16	200	45	25	29	14.5	16ER	M3.5-11.7-5.3-60	T15	3.0	GXN16	HTM309	PL2.5	5.0	0.77
SNL-0032S-16	250	45	32	36	18.5	16ER	M3.5-11.7-5.3-60	T15	3.0	GXN16	HTM309	PL2.5	5.0	1.56

SEL 外徑牙刀架
SEL EXTERNAL THREADING TURNING TOOL

KOVIT



規格 Spec.	L	H	H1	W	f	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	墊片 Shim	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
SEL-1616K-16	125	16	16	16	20	16IR	M3.5-11.7-5.3-60	T15	3.0	GXE16	HTM309	PL2.5	5.0	0.31
SEL-2020K-16	125	20	20	20	25	16IR	M3.5-11.7-5.3-60	T15	3.0	GXE16	HTM309	PL2.5	5.0	0.45
SEL-2525M-16	150	25	25	25	32	16IR	M3.5-11.7-5.3-60	T15	3.0	GXE16	HTM309	PL2.5	5.0	0.81

• 長度單位 Unit of Length (mm)

鎢鋼抗震刀具
CARBIDE SHANK

Feature

- 高剛性
- 加工倍率深
- 提高近給率
- 良好的加工面
- 延長刀片壽命
- High rigidity.
- Great multiplied rate of cutting.
- Improved feed rate.
- Good machined surface.
- Extend insert life.

TUNGSTEN CARBIDE SHANK

- 使用碳化鎢鋼刀桿伸長量為直徑的6倍，仍不動如山
- 使用鋼值刀桿伸長量為直徑的4倍時產生難控制的震動率
- Using 6xD of carbide extension shank has a great effect to absorb the vibration, nevertheless, using 4xD of steel extension shank begins to have the vibration control issue.

SCLCR 碳化鎢鋼微小徑內徑車刀架
SCLCR CARBIDE MICRO INTERNAL TURNING TOOL

KOVIT

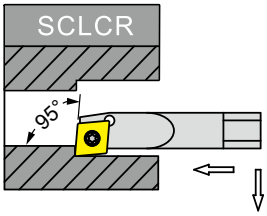


Fig1.

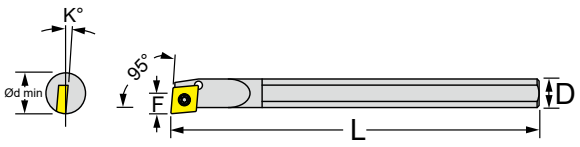
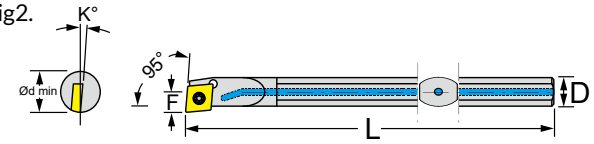


Fig2.



規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
C04G-SCLCR03-05	90	4	5	2.5	CC..03S1	M1.8-4.0-2.5-54	T6	0.6	1	0.06
C05H-SCLCR03-06	100	5	6	3	CC..03S1	M1.8-4.0-2.5-54	T6	0.6	1	0.08
C05H-SCLCR04-06	100	5	6	3	CC..04T0	M2.2-4.7-3.1-60	T7	0.9	1	0.06
C06J-SCLCR04-07	110	6	7	3.5	CC..04T0	M2.2-4.7-3.1-60	T7	0.9	1	0.07
C07J-SCLCR04-08	110	7	8	4	CC..04T0	M2.2-4.7-3.1-60	T7	0.9	1	0.09
E05H-SCLCR03-06	100	5	6	3	CC..03S1	M1.8-4.0-2.5-54	T6	0.6	2	0.08
E06J-SCLCR04-07	110	6	7	3.5	CC..04T0	M2.2-4.7-3.1-60	T7	0.9	2	0.06

STUBR 碳化鎢鋼微小徑內徑車刀架
STUBR CARBIDE MICRO INTERNAL TURNING TOOL

KOVIT

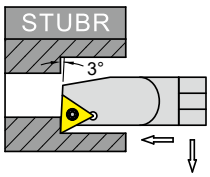


Fig1.

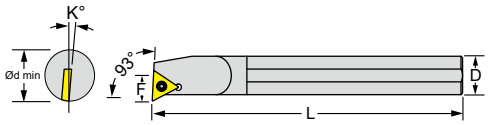
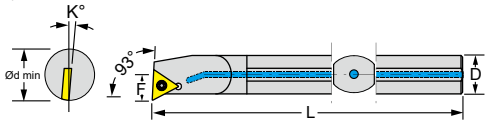


Fig2.

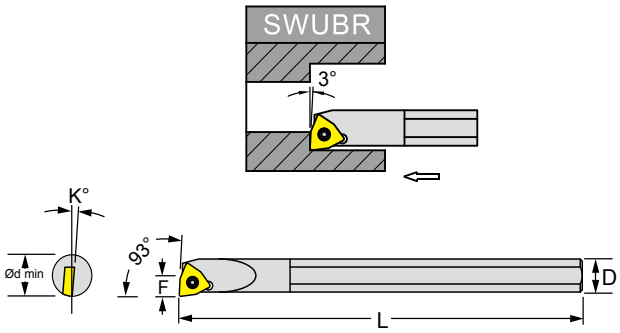


規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
C06J-STUBR06-07	110	6	7	3.5	TB..0601	M2-5.0-2.7-60	T6	0.6	1	0.07
C08K-STUBR06-09	125	8	9	4.5	TB..0601	M2-5.0-2.7-60	T6	0.6	1	0.13
E06J-STUBR06-07	110	6	7	3.5	TB..0601	M2-5.0-2.7-60	T6	0.6	2	0.07
E08K-STUBR06-09	125	8	9	4.5	TB..0601	M2-5.0-2.7-60	T6	0.6	2	0.13

• 長度單位 Unit of Length (mm)

SWUBR 碳化鎢鋼微小徑內徑車刀架
SWUBR CARBIDE MICRO INTERNAL TURNING TOOL

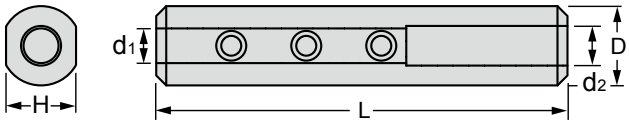
KOVIT



規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
C04G-SWUBR06-5.5	90	4	5.5	2.75	WB..0601	M2-3.8-2.68-43	T6	0.6	0.05
C05H-SWUBR06-06	100	5	6	3	WB..0601	M2-3.8-2.68-43	T6	0.6	0.07
C06J-SWUBR06-07	110	6	7	3.5	WB..0601	M2-5.0-2.7-60	T6	0.6	0.09
C07J-SWUBR06-08	110	7	8	4	WB..0601	M2-5.0-2.7-60	T6	0.6	0.11
C08K-SWUBR08-10	125	8	10	5	WB..0802	M2-5.0-2.7-60	T6	0.6	0.13

SH 小徑套筒
SH MINI COLLET SLEEVE

KOVIT



規格 Spec.	L	D	d_1	d_2	H	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
SH-0416-100	100	16	4	5	14	HS4-4	PL2	3.0	0.15
SH-0516-100	100	16	5	6	14	HS5-5.5	PL2.5	5.0	0.15
SH-0616-100	100	16	6	7	14	HS6-4	PL3	5.0	-
SH-0716-100	100	16	7	8	14	HS6-4	PL3	5.0	0.13

• 長度單位 Unit of Length (mm)

SCLCR 碳化鎢鋼內徑車刀架
SCLCR CARBIDE INTERNAL TURNING TOOL

KOVIT

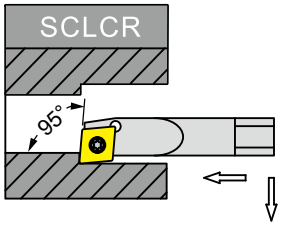


Fig1.

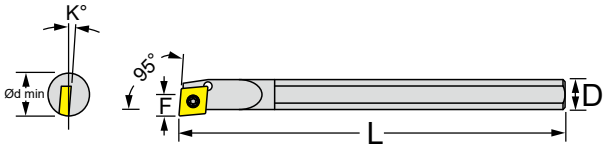
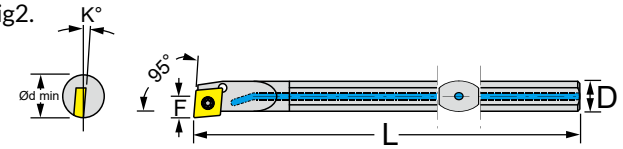


Fig2.



規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
C08K-SCLCR06-10	125	8	10	5	CC..0602	M2.5-6.0-3.5-60	T8	1.2	1	0.11
C10M-SCLCR06-12	150	10	12	6	CC..0602	M2.5-6.0-3.5-60	T8	1.2	1	0.19
C12M-SCLCR06-14	150	12	14	7	CC..0602	M2.5-6.0-3.5-60	T8	1.2	1	0.26
C12Q-SCLCR06-14	180	12	14	7	CC..0602	M2.5-6.0-3.5-60	T8	1.2	1	0.32
C12M-SCLCR09-14	150	12	14	7	CC..09T3	M4-8.0-5.7-60	T15	3.0	1	0.26
C12Q-SCLCR09-14	180	12	14	7	CC..09T3	M4-8.0-5.7-60	T15	3.0	1	0.32
C16R-SCLCR09-18	200	16	18	9	CC..09T3	M4-8.0-5.7-60	T15	3.0	1	0.57
C20S-SCLCR09-22	250	20	22	11	CC..09T3	M4-8.0-5.7-60	T15	3.0	1	1.04
E08K-SCLCR06-10	125	8	10	5	CC..0602	M2.5-6.0-3.5-60	T8	1.2	2	0.11
E10M-SCLCR06-12	150	10	12	6	CC..0602	M2.5-6.0-3.5-60	T8	1.2	2	0.19
E12M-SCLCR06-14	150	12	14	7	CC..0602	M2.5-6.0-3.5-60	T8	1.2	2	0.26
E12Q-SCLCR06-14	180	12	14	7	CC..0602	M2.5-6.0-3.5-60	T8	1.2	2	0.32
E14M-SCLCR06-16	150	14	16	7.5	CC..0602	M2.5-6.0-3.5-60	T8	1.2	2	-
E14Q-SCLCR06-16	180	14	16	7.5	CC..0602	M2.5-6.0-3.5-60	T8	1.2	2	-
E16R-SCLCR06-18	200	16	18	9	CC..0602	M2.5-6.0-3.5-60	T8	1.2	2	-
E12M-SCLCR09-14	150	12	14	7	CC..09T3	M4-8.0-5.7-60	T15	3.0	2	0.26
E12Q-SCLCR09-14	180	12	14	7	CC..09T3	M4-8.0-5.7-60	T15	3.0	2	0.32
E14M-SCLCR09-16	150	14	16	7.5	CC..09T3	M4-8.0-5.7-60	T15	3.0	2	-
E14Q-SCLCR09-16	180	14	16	7.5	CC..09T3	M4-8.0-5.7-60	T15	3.0	2	-
E16R-SCLCR09-18	200	16	18	9	CC..09T3	M4-8.0-5.7-60	T15	3.0	2	0.57
E20R-SCLCR09-22	200	20	22	11	CC..09T3	M4-8.0-5.7-60	T15	3.0	2	-
E20S-SCLCR09-22	250	20	22	11	CC..09T3	M4-8.0-5.7-60	T15	3.0	2	1.04

• 長度單位 Unit of Length (mm)

SCLPR 碳化鎢鋼內徑車刀架
SCLPR CARBIDE INTERNAL TURNING TOOL

KOVIT

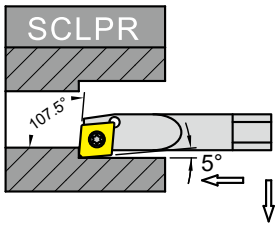


Fig.1

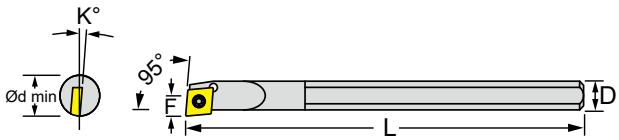
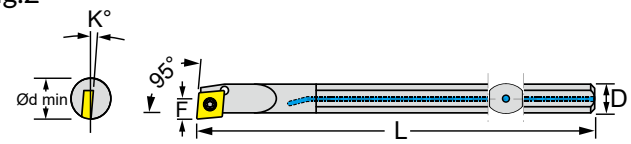


Fig.2



規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
C10M-SCLPR08-12	150	10	12	6	CP..0802	M3-8.0-4.0-43	T9	1.4	1	0.19
C12M-SCLPR08-14	150	12	14	7	CP..0802	M3-8.0-4.0-43	T9	1.4	1	0.26
C12Q-SCLPR08-14	180	12	14	7	CP..0802	M3-8.0-4.0-43	T9	1.4	1	-
C12M-SCLPR09-14	150	12	14	7	CP..0903	M4-8.0-5.7-60	T15	3.0	1	0.25
C12Q-SCLPR09-14	180	12	14	7	CP..0903	M4-8.0-5.7-60	T15	3.0	1	0.31
C16R-SCLPR09-18	200	16	18	9	CP..0903	M4-8.0-5.7-60	T15	3.0	1	0.57
C20S-SCLPR09-22	250	20	22	11	CP..0903	M4-8.0-5.7-60	T15	3.0	1	1.08
E16R-SCLPR09-18	200	16	18	9	CP..0903	M4-8.0-5.7-60	T15	3.0	2	0.57
E20R-SCLPR09-22	200	20	22	11	CP..0903	M4-8.0-5.7-60	T15	3.0	2	-
E20S-SCLPR09-22	250	20	22	11	CP..0903	M4-8.0-5.7-60	T15	3.0	2	1.08
E25R-SCLPR09-28	200	25	28	14	CP..0903	M4-8.0-5.7-60	T15	3.0	2	-

• 長度單位 Unit of Length (mm)

SDUCR 碳化鎢鋼內徑車刀架
SDUCR CARBIDE INTERNAL TURNING TOOL

KOVIT

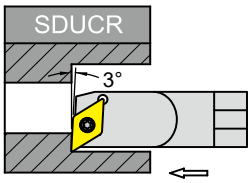


Fig.1

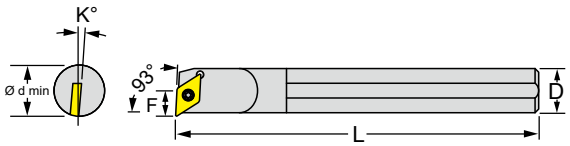
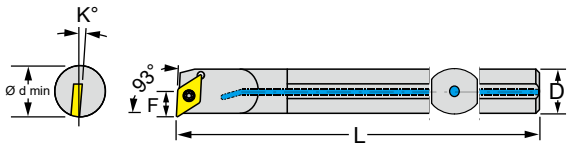


Fig.2



規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
C10M-SDUCR07-13	150	10	13	7	DC..0702	M2.5-6.0-3.5-60	T8	1.2	1	0.19
C12M-SDUCR07-16	150	12	16	9	DC..0702	M2.5-6.0-3.5-60	T8	1.2	1	0.26
C12Q-SDUCR07-16	180	12	16	9	DC..0702	M2.5-6.0-3.5-60	T8	1.2	1	0.32
C16R-SDUCR07-20	200	16	20	11	DC..0702	M2.5-6.0-3.5-60	T8	1.2	1	0.51
C16R-SDUCR11-20	200	16	20	11	DC..11T3	M4-8.0-5.7-60	T15	3.0	1	0.58
C20S-SDUCR11-23	250	20	23	12.5	DC..11T3	M4-8.0-5.7-60	T15	3.0	1	1.08
E10M-SDUCR07-13	150	10	13	7	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	0.19
E12M-SDUCR07-16	150	12	16	9	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	0.26
E12Q-SDUCR07-16	180	12	16	9	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	0.32
E14M-SDUCR07-18	150	14	18	10	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	-
E14Q-SDUCR07-18	180	14	18	10	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	-
E16M-SDUCR07-20	150	16	20	11	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	-
E16R-SDUCR07-20	200	16	20	11	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	0.51
E20R-SDUCR07-25	200	20	25	13	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	-
E16M-SDUCR11-20	150	16	20	11	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	-
E16R-SDUCR11-20	200	16	20	11	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	0.58
E20R-SDUCR11-23	200	20	23	12.5	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	-
E20S-SDUCR11-23	250	20	23	12.5	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	1.08
E25R-SDUCR11-32	200	25	32	17	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	-
E25S-SDUCR11-32	250	25	32	17	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	-

• 長度單位 Unit of Length (mm)

SDQCR 碳化鎢鋼內徑車刀架
SDQCR CARBIDE INTERNAL TURNING TOOL

KOVIT

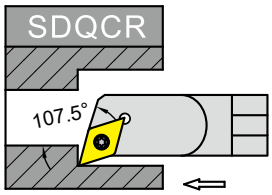


Fig1.

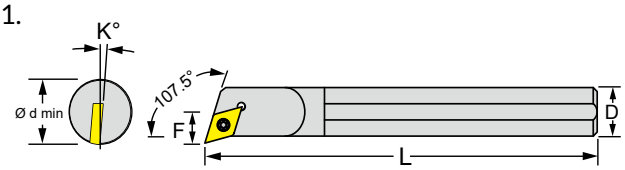
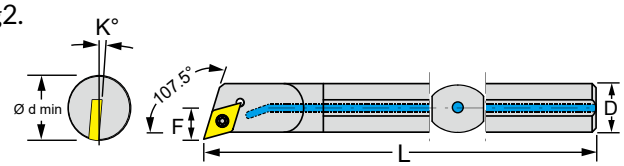


Fig2.



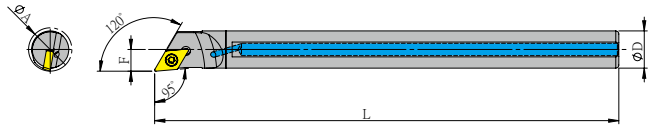
規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
C10M-SDQCR07-13	150	10	13	7	DC..0702	M2.5-6.0-3.5-60	T8	1.2	1	0.20
C12M-SDQCR07-16	150	12	16	9	DC..0702	M2.5-6.0-3.5-60	T8	1.2	1	0.25
C12Q-SDQCR07-16	180	12	16	9	DC..0702	M2.5-6.0-3.5-60	T8	1.2	1	0.30
C16R-SDQCR07-20	200	16	20	11	DC..0702	M2.5-6.0-3.5-60	T8	1.2	1	0.57
C20S-SDQCR11-25	250	20	25	13	DC..11T3	M4-8.0-5.7-60	T15	3.0	1	1.08
E10M-SDQCR07-13	150	10	13	7	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	0.20
E12M-SDQCR07-16	150	12	16	9	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	0.25
E12Q-SDQCR07-16	180	12	16	9	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	0.30
E14M-SDQCR07-18	150	14	18	10	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	-
E16M-SDQCR07-20	150	16	20	11	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	-
E16R-SDQCR07-20	200	16	20	11	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	0.57
E16M-SDQCR11-20	150	16	20	11	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	-
E16R-SDQCR11-20	200	16	20	11	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	-
E20R-SDQCR11-25	200	20	25	13	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	-
E20S-SDQCR11-25	250	20	25	13	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	1.08
E25R-SDQCR11-32	200	25	32	17	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	-
E25S-SDQCR11-32	250	25	32	17	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	-

• 長度單位 Unit of Length (mm)

SDXCR 碳化鎢鋼內徑車刀架
SDXCR CARBIDE INTERNAL TURNING TOOL

KOVIT

NEW

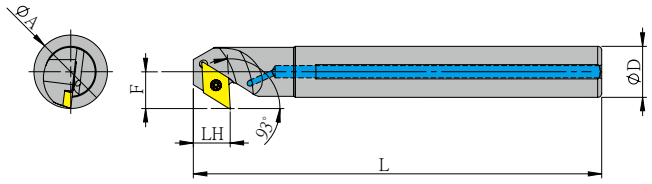


規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
E08K-SDXCR07-10	125	8	10	5	DC..0702	M2.5-6.0-3.5-60	T8	1.2	
E12M-SDXCR07-14	150	12	14	7	DC..0702	M2.5-6.0-3.5-60	T8	1.2	

SDZCR 碳化鎢鋼內徑車刀架
SDZCR CARBIDE INTERNAL TURNING TOOL

KOVIT

NEW



規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
E16R-SDZCR07-21	200	16	21	12.5	DC..0702	M2.5-6.0-3.5-60	T8	1.2	
E20R-SDZCR11-26	200	20	26	15.5	DC..11T3	M4-8.75-5.6-60	T15	3.0	
E25R-SDZCR11-33	200	25	33	18	DC..11T3	M4-8.75-5.6-60	T15	3.0	

• 長度單位 Unit of Length (mm)

STUCR 碳化鎢鋼內徑車刀架
STUCR CARBIDE INTERNAL TURNING TOOL

KOVIT

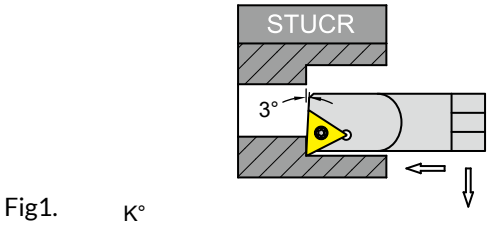


Fig1.

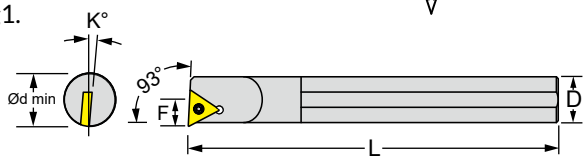
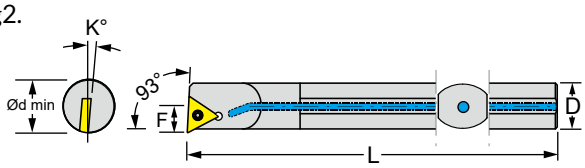


Fig2.



規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
C08K-STUCR09-10	125	8	10	5	TC..0902	M2.2-4.7-3.1-60	T7	0.9	1	0.11
C10M-STUCR09-12	150	10	12	6	TC..0902	M2.2-4.7-3.1-60	T7	0.9	1	0.19
C12M-STUCR09-14	150	12	14	7	TC..0902	M2.2-4.7-3.1-60	T7	0.9	1	0.19
C12Q-STUCR09-14	180	12	14	7	TC..0902	M2.2-4.7-3.1-60	T7	0.9	1	0.16
C10M-STUCR11-12	150	10	12	6	TC..1102	M2.5-6.0-3.5-60	T8	1.2	1	0.19
C12M-STUCR11-14	150	12	14	7	TC..1102	M2.5-6.0-3.5-60	T8	1.2	1	0.25
C12Q-STUCR11-14	180	12	14	7	TC..1102	M2.5-6.0-3.5-60	T8	1.2	1	0.32
C16R-STUCR11-18	200	16	18	9	TC..1102	M2.5-6.0-3.5-60	T8	1.2	1	0.56
C20S-STUCR11-22	250	20	22	11	TC..1102	M2.5-6.0-3.5-60	T8	1.2	1	1.10
E20R-STUCR11-22	200	20	22	11	TC..1102	M2.5-6.0-3.5-60	T8	1.2	2	-
E20S-STUCR11-22	250	20	22	11	TC..1102	M2.5-6.0-3.5-60	T8	1.2	2	1.10

• 長度單位 Unit of Length (mm)

STUPR 碳化鎢鋼內徑車刀架
STUPR CARBIDE INTERNAL TURNING TOOL

KOVIT

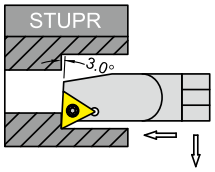


Fig1.

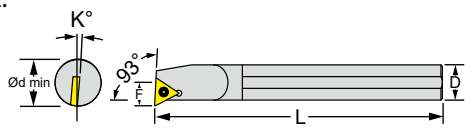
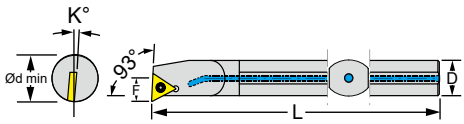


Fig2.

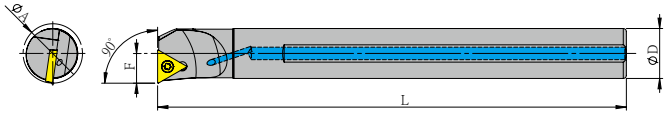


規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
C08K-STUPR08-10	125	8	10	5.5	TP..0802	M2.2-4.7-3.1-60	T7	0.9	1	0.13
C08K-STUPR09-10	125	8	10	5.5	TP..0902	M2.5-6.0-3.5-60	T8	1.2	1	0.11
C10M-STUPR09-12	150	10	12	6.5	TP..0902	M2.5-6.0-3.5-60	T8	1.2	1	0.19
C12M-STUPR09-14	150	12	14	7.5	TP..0902	M2.5-6.0-3.5-60	T8	1.2	1	0.25
C12Q-STUPR09-14	180	12	14	7.5	TP..0902	M2.5-6.0-3.5-60	T8	1.2	1	0.32
C10M-STUPR11-12	150	10	12	6.5	TP..1103	M3-8.0-4.0-43	T9	1.4	1	0.19
C12M-STUPR11-14	150	12	14	7.5	TP..1103	M3-8.0-4.0-43	T9	1.4	1	0.26
C12Q-STUPR11-14	180	12	14	7.5	TP..1103	M3-8.0-4.0-43	T9	1.4	1	0.32
C16R-STUPR11-18	200	16	18	9.5	TP..1103	M3-8.0-4.0-43	T9	1.4	1	0.56
C20S-STUPR11-22	250	20	22	11.5	TP..1103	M3-8.0-4.0-43	T9	1.4	1	1.09
C20S-STUPR16-25	250	20	25	12.5	TP..1603	M4-8.0-5.7-60	T15	3.0	1	1.10
E08K-STUPR09-10	125	8	10	5.5	TP..0902	M2.5-6.0-3.5-60	T8	1.2	2	0.11
E10M-STUPR09-12	150	10	12	6.5	TP..0902	M2.5-6.0-3.5-60	T8	1.2	2	0.19
E12M-STUPR09-14	150	12	14	7.5	TP..0902	M2.5-6.0-3.5-60	T8	1.2	2	0.25
E10M-STUPR11-12	150	10	12	6.5	TP..1103	M3-8.0-4.0-43	T9	1.4	2	0.19
E12M-STUPR11-14	150	12	14	7.5	TP..1103	M3-8.0-4.0-43	T9	1.4	2	0.26
E12Q-STUPR11-14	180	12	14	7.5	TP..1103	M3-8.0-4.0-43	T9	1.4	2	0.32
E14M-STUPR11-16	150	14	16	8.5	TP..1103	M3-8.0-4.0-43	T9	1.4	2	-
E16R-STUPR11-18	200	16	18	9.5	TP..1103	M3-8.0-4.0-43	T9	1.4	2	0.56
E20R-STUPR11-22	200	20	22	11.5	TP..1103	M3-8.0-4.0-43	T9	1.4	2	-
E20S-STUPR11-22	250	20	22	11.5	TP..1103	M3-8.0-4.0-43	T9	1.4	2	1.09

STFCR 碳化鎢鋼內徑車刀架
STFCR CARBIDE INTERNAL TURNING TOOL

KOVIT

NEW



規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
E16R-STFCR11-18	200	16	18	9.5	TC..1102	M2.5-6.0-3.5-60	T8		
E20R-STFCR11-22	200	20	22	11	TC..1102	M2.5-6.0-3.5-60	T8		

• 長度單位 Unit of Length (mm)

SVJCR 碳化鎢鋼內徑車刀架
SVJCR CARBIDE INTERNAL TURNING TOOL

KOVIT

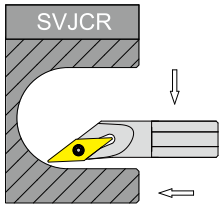


Fig.1

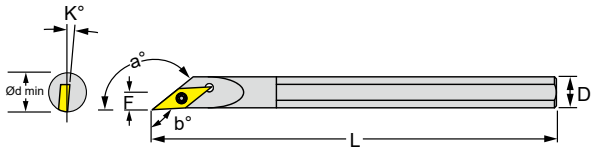
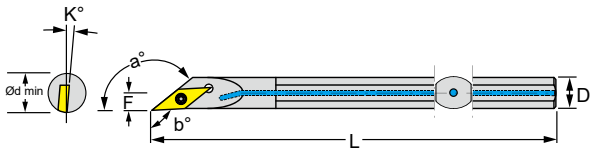


Fig.2



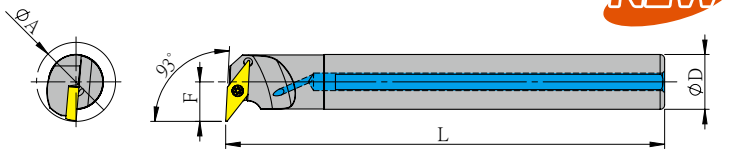
規格 Spec.	L	D	最小加工徑 Ø d min	F	a°	b°	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
C06J-SVJCR08-85	110	6	8.5	3.25	143°	92°	VC..0802	M2-5.0-2.7-60	T6	0.6	1	0.08
C08K-SVJCR08-10	125	8	10	5	142°	93°	VC..0802	M2-5.0-2.7-60	T6	0.6	1	1.13
C10M-SVJCR08-12	150	10	12	6	142°	93°	VC..0802	M2-5.0-2.7-60	T6	0.6	1	0.20
C10M-SVJCR11-12	150	10	12	6	142°	93°	VC..1103	M2.5-6.0-3.5-60	T8	1.2	1	-
C12M-SVJCR11-14	150	12	14	7	142°	93°	VC..1103	M2.5-6.0-3.5-60	T8	1.2	1	0.26
C12Q-SVJCR11-14	180	12	14	7	142°	93°	VC..1103	M2.5-6.0-3.5-60	T8	1.2	1	-
C16R-SVJCR11-18	200	16	18	9	142°	93°	VC..1103	M2.5-6.0-3.5-60	T8	1.2	1	0.56
C20S-SVJCR11-22	250	20	22	11	142°	93°	VC..1103	M2.5-6.0-3.5-60	T8	1.2	1	1.08
E06J-SVJCR08-8.5	110	6	8.5	3.25	-	-	VC..0802	M2-5.0-2.7-60	T6	0.6	2	-
E08K-SVJCR08-10	125	8	10	5	-	-	VC..0802	M2-5.0-2.7-60	T6	0.6	2	-
E10M-SVJCR08-12	150	10	12	6	-	-	VC..0802	M2-5.0-2.7-60	T6	0.6	2	-
E12M-SVJCR08-14	150	12	14	7	-	-	VC..0802	M2-5.0-2.7-60	T6	0.6	2	-
E10M-SVJCR11-12	150	10	12	6	-	-	VC..1103	M2.5-6.0-3.5-60	T8	1.2	2	-
E12M-SVJCR11-14	150	12	14	7	-	-	VC..1103	M2.5-6.0-3.5-60	T8	1.2	2	-
E12Q-SVJCR11-14	180	12	14	7	-	-	VC..1103	M2.5-6.0-3.5-60	T8	1.2	2	0.33
E16R-SVJCR11-18	200	16	18	9	-	-	VC..1103	M2.5-6.0-3.5-60	T8	1.2	2	-
E20R-SVJCR11-22	200	20	22	11	-	-	VC..1103	M2.5-6.0-3.5-60	T8	1.2	2	-
E20S-SVJCR11-22	250	20	22	11	-	-	VC..1103	M2.5-6.0-3.5-60	T8	1.2	2	-
E16M-SVJCR16-18	150	16	18	9	-	-	VC..1604	M3.5-11.7-5.3-60	T15	3.0	2	-
E16R-SVJCR16-18	200	16	18	9	-	-	VC..1604	M3.5-11.7-5.3-60	T15	3.0	2	-
E20R-SVJCR16-23	200	20	23	11.5	-	-	VC..1604	M3.5-11.7-5.3-60	T15	3.0	2	-
E25R-SVJCR16-28	200	25	28	14	-	-	VC..1604	M3.5-11.7-5.3-60	T15	3.0	2	-

• 長度單位 Unit of Length (mm)

SVUCR 碳化鎢鋼內徑車刀架
SVUCR CARBIDE INTERNAL TURNING TOOL

KOVIT

NEW

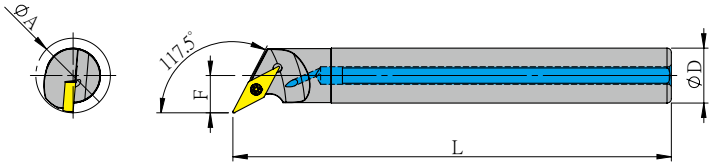


規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
E16R-SVUCR11-22	200	16	22	13	VC..1103	M2.5-6.0-3.5-60	T8	1.2	
E20R-SVUCR11-27	200	20	27	15	VC..1103	M2.5-6.0-3.5-60	T8	1.2	
E25R-SVUCR11-30	200	25	30	17	VC..1103	M2.5-6.0-3.5-60	T8	1.2	
E20R-SVUCR16-31	200	20	31	19	VC..1604	M3.5-11.7-5.3-60	T15	3.0	
E25R-SVUCR16-33	200	25	33	18	VC..1604	M3.5-11.7-5.3-60	T15	3.0	
E25S-SVUCR16-33	250	25	33	18	VC..1604	M3.5-11.7-5.3-60	T15	3.0	
E25R-SVUCR16-35	200	25	35	20	VC..1604	M3.5-11.7-5.3-60	T15	3.0	
E25S-SVUCR16-35	250	25	35	20	VC..1604	M3.5-11.7-5.3-60	T15	3.0	

SVQCR 碳化鎢鋼內徑車刀架
SVQCR CARBIDE INTERNAL TURNING TOOL

KOVIT

NEW



規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
E16M-SVQCR11-22	150	16	22	12.5	VC..1103	M2.5-6.0-3.5-60	T8	1.2	
E16R-SVQCR11-22	200	16	22	12.5	VC..1103	M2.5-6.0-3.5-60	T8	1.2	
E20R-SVQCR11-25	200	20	25	13	VC..1103	M2.5-6.0-3.5-60	T8	1.2	
E25R-SVQCR16-32	200	25	32	17	VC..1604	M3.5-11.7-5.3-60	T15	3.0	

• 長度單位 Unit of Length (mm)

CSIR 碳化鎢鋼內孔牙刀
CSIR CARBIDE INTERNAL THREADING TOOL

KOVIT

Fig1

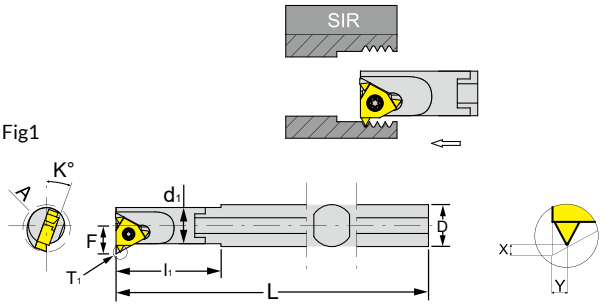
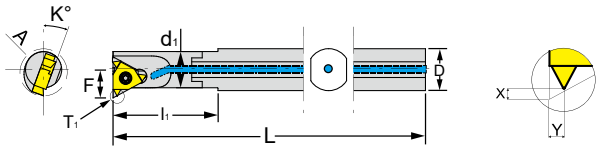


Fig2



T1 部 .X.Y 尺寸參考刀片規格

規格 Spec.	L	l_1	D	d_1	最小加工徑 A	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight	Fig
CSIR-0005H-06-06.4	100	-	5	-	6.4	4.3	06IR	M2-5.0-2.6-60	T6	0.6	0.05	1
CSIR-0008K-08-09-20	125	20	8	6.4	9	5	08IR	M2.2-4.7-3.1-60	T7	0.9	0.10	
CSIR-0008K-08-10-20	125	20	8	7.4	10	5.5	08IR	M2.2-4.7-3.1-60	T7	0.9	1.08	
CSIR-0010M-11-12	150	-	10	-	12	7.4	11IR	M2.5-6.0-3.5-60	T8	1.2	0.18	
CSIR-0012M-11-15	150	-	12	-	15	8.5	11IR	M2.5-6.0-3.5-60	T8	1.2	0.26	
CSIR-0016M-16-19	150	-	16	-	19	11.7	16IR	M3.5-7.6-5.1-60	T15	3.0	-	
ESIR-0005H-06-6.4	100	-	5	-	6.4	4.3	06IR	M2-5.0-2.7-60	T6	0.6	-	2
ESIR-0006J-06-7.6	110	-	6	-	7.6	4.48	06IR	M2-5.0-2.7-60	T6	0.6	-	
ESIR-0008K-08-10	125	-	8	-	10	5.9	08IR	M2.2-4.7-3.1-60	T7	0.9	-	
ESIR-0010M-11-12	150	-	10	-	12	7.4	11IR	M2.5-6.0-3.5-60	T8	1.2	-	
ESIR-0012M-11-15	150	-	12	-	15	8.5	11IR	M2.5-6.0-3.5-60	T8	1.2	-	
ESIR-0016R-16-19	200	-	16	-	19	11.7	16IR	M3.5-7.6-5.1-60	T15	3.0	-	

• 長度單位 Unit of Length (mm)

NC 內徑車刀套筒
NC INTERNAL TURNING TOOL SLEEVE

KOVIT

Fig.1

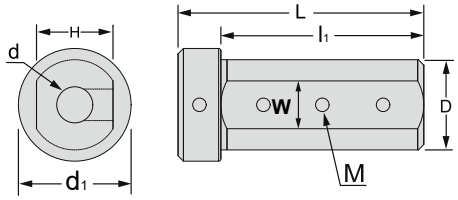
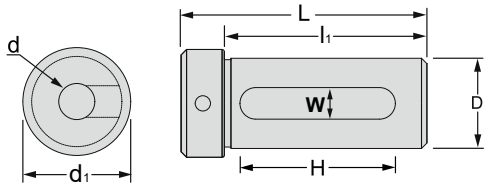


Fig.2



規格 Spec.	L	l_1	D	d	d_1	H	M	W	Fig	重量 (KGS) Weight
NC16-06-62L	62	55	16	6	19	14.5	M5	-	1	0.08
NC16-08-62L	62	55	16	8	19	14.5	M6	-	1	0.08
NC16-10-62L	62	55	16	10	19	14.5	M6	-	1	0.07
NC16-12-62L	62	55	16	12	19	14.5	-	9	2	0.05
NC20-06-67L	67	60	20	6	27	17.5	M6	-	1	0.16
NC20-08-67L	67	60	20	8	27	17.5	M6	-	1	0.14
NC20-10-67L	67	60	20	10	27	17.5	M6	-	1	0.14
NC20-12-67L	67	60	20	12	27	17.5	M6	-	1	0.12
NC20-16-67L	67	60	20	16	27	55	-	13	2	0.08
NC25-16-64L-C	64	58	25	16	35	51	-	12	2	0.16
NC25-20-64L-C	64	58	25	20	35	51	-	12	2	0.11
NC32-06-85L	85	70	32	6	38	29.5	M6	-	1	0.55
NC32-08-85L	85	70	32	8	38	29.5	M6	-	1	0.50
NC32-10-100L	100	85	32	10	38	29.5	M8	-	1	0.58
NC32-12-100L	100	85	32	12	38	29.5	M8	-	1	0.58
NC32-16-100L	100	85	32	16	38	29.5	M8	-	1	0.48
NC32-18-100L	100	85	32	18	38	77	-	14	2	0.47
NC32-20-100L	100	85	32	20	38	77	-	14	2	0.40
NC32-25-100L	100	85	32	25	38	77	-	14	2	0.27
NC40-06-100L	100	85	40	6	46	38	M8	-	1	1.01
NC40-08-100L	100	85	40	8	46	38	M8	-	1	0.99
NC40-10-100L	100	85	40	10	46	38	M8	-	1	0.98
NC40-12-100L	100	85	40	12	46	38	M8	-	1	0.94
NC40-16-100L	100	85	40	16	46	38	M8	-	1	0.88
NC40-18-100L	100	85	40	18	46	77	-	14	2	0.84
NC40-20-100L	100	85	40	20	46	77	-	14	2	0.72
NC40-25-100L	100	85	40	25	46	77	-	14	2	0.60
NC40-32-100L	100	85	40	32	46	77	-	14	2	0.39

• 長度單位 Unit of Length (mm)

NC 內徑車刀出水套筒
NC INTERNAL TURNING TOOL SLEEVE WITH COOLANT

KOVIT

Fig.1

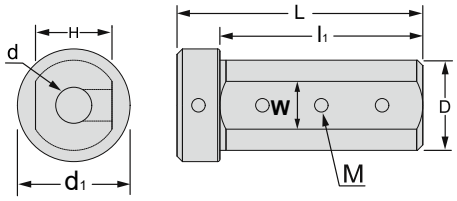
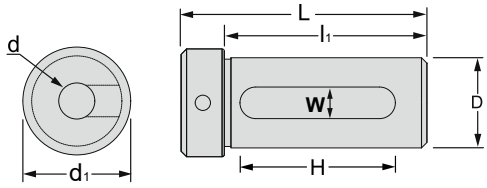


Fig.2



規格 Spec.	L	l_1	D	d	d_1	H	M	W	Fig	重量 (KGS) Weight
NC25-06-64L-C	64	58	25	6	35	23.5	M6	11	1	0.22
NC25-08-64L-C	64	58	25	8	35	23.5	M6	11	1	0.20
NC25-10-64L-C	64	58	25	10	35	23.5	M6	11	1	0.20
NC25-12-64L-C	64	58	25	12	35	23.5	M6	11	1	0.20
NC32-06-80L-C	80	65	32	6	39	29.5	M6	12	1	0.55
NC32-08-80L-C	80	65	32	8	39	29.5	M6	12	1	0.50
NC32-10-80L-C	80	65	32	10	39	29.5	M8	12	1	0.58
NC32-12-80L-C	80	65	32	12	39	57	-	12	1	0.58
NC32-16-80L-C	80	65	32	16	39	57	-	14	2	0.48
NC32-18-80L-C	80	65	32	18	39	57	-	14	2	0.47
NC32-20-80L-C	80	65	32	20	39	57	-	14	2	0.40
NC32-25-80L-C	80	65	32	25	39	57	-	14	2	0.27
NC40-06-100L-C	100	85	40	6	46	38	M8	12	1	1.01
NC40-08-100L-C	100	85	40	8	46	38	M8	12	1	0.99
NC40-10-100L-C	100	85	40	10	46	38	M8	12	1	0.98
NC40-12-100L-C	100	85	40	12	46	38	M8	14	1	0.94
NC40-16-100L-C	100	85	40	16	46	38	M8	14	1	0.88
NC40-18-100L-C	100	85	40	18	46	38	M8	14	1	0.84
NC40-20-100L-C	100	85	40	20	46	80	-	14	2	0.72
NC40-25-100L-C	100	85	40	25	46	80	-	14	2	0.60
NC40-32-100L-C	100	85	40	32	46	80	-	14	2	0.39

• 長度單位 Unit of Length (mm)

Damping

減震模組化示意圖
Modular combination

車削TURNING

一體式 Integrated

DP/STUPR一體式減震車刀架
Vibration -damped Boring Bar With Coolant

BM 模組化系列 BM Modular Series

BM模組化高硬度減震車刀柄
Modular Vibration-damped Boring Bar

BM模組化高硬度大柄徑減震車刀柄
Modular Vibration-damped Boring Bar

BM模組化鎢鋼減震車刀柄
Modular Vibration-damped Carbide Boring Bar

BM/SCLCR, STUCR, SNR
BM/SDUCR, STUPR, SVUCR
BM/MCLNR, MTUNR

DPFSCK模組化系列 DPFSCK Modular Series

DPFSCK模組化減震車刀柄
Modular Vibration -damped Boring Bar Shank

FSCK/SCLC, SCLP, SCKC, SDZC
FSCK/SDUC, STFC, STUC, STUP
FSCK/SVJC, MCLN, MTUN, SDQC
FSCK/SSSC, SVUC, SIR, DGIR

平面銑削FACE MILLING

FDP減震銑刀桿
Damping Face Mill Arbor

HR圓刃殼型銑刀
Round Corner End Milling Cutter

BGP迷你殼型銑刀
Face Milling Cutter

IFM殼型銑刀
Face Milling Cutter

GR圓刃殼型銑刀
Round Corner End Milling Cutter

SFM殼型銑刀
Face Milling Cutter

KM45°殼型銑刀
Face Milling Cutter

KFM殼型銑刀
Face Milling Cutter

搪孔Boring

樣式1 Type1 (DX6)

MCK搪孔頭刀柄
Boring Head Shank

CK搪孔頭刀柄
Boring Head Shank

SCK/DP 減震延長桿
Damping Extension

SMB超微米精搪頭
SMB Super Micron Exchangeable
Finish Boring Head

樣式2 Type2 (DX6)

CK / DP搪孔頭刀柄
Boring Head Shank

SMB超微米精搪頭
SMB Super Micron Exchangeable
Finish Boring Head

樣式3 Type3 (DX8)

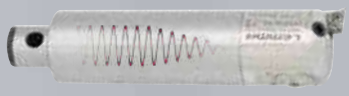
MCK搪孔頭刀柄
Boring Head Shank

CK搪孔頭刀柄
Boring Head Shank

SBT/MLK法蘭加厚型(雙面拘束)
強力銑削夾頭
Dual DRIVE Force Collet Chuck

SCK延長桿
Anti-Vibration Extension

SCK直柄碳化鎢鋼搪孔頭刀桿
Straight Carbide Boring Shank



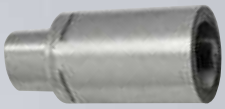
CBH / DP減震精搪頭
Damping Finish Boring Head

樣式4 Type4 (DX8)

HSK/PSC套筒
HSK/PSC Adapter

SBT/PSC套筒
SBT/PSC Adapter

DAT/PSC套筒
DAT/PSC Adapter



PSC等徑套筒
PSC Adapter For Same Dia.

PSC異徑套筒
Adapter For Different Dia.

PSC/PMB減震精密微調搪頭
Submicron Finish Boring Head

BM 模組化高硬度減震車刀柄
BM MODULAR VIBRATION-DAMPED BORING BAR

Anti-Vibration

KOVIT

NEW

Fig.1

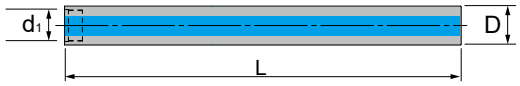
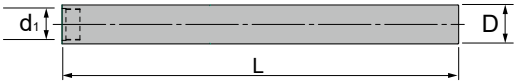


Fig.2



特點 Feature

- 更快的切削進給及良好的加工表面精度

-Higher cutting feed rate and better surface accuracy.

6 倍長 6 Times Longer

規格 Spec.	L	d_1	D	重量 (KGS) Weight	Fig.
DPH16-BM16-150L	150	M13-0.5	16	0.28	2
DPH20-BM20-180L	180	M16-0.75	20	0.55	2
DPH25-BM25-210L	210	M20-0.75	25	0.97	2
DPH32-BM32-260L	260	18	32	1.93	1
DPH40-BM40-320L	320	22	40	2.87	1
DPH50-BM50-420L	420	28	50	7.10	1

8 倍長 8 Times Longer

規格 Spec.	L	d_1	D	重量 (KGS) Weight	Fig.
DPH16-BM16-180L	180	M13-0.5	16	0.33	2
DPH20-BM20-220L	220	M16-0.75	20	0.65	2
DPH25-BM25-260L	260	M20-0.75	25	1.16	2
DPH32-BM32-320L	320	18	32	2.28	1
DPH40-BM40-400L	400	22	40	3.92	1
DPH50-BM50-520L	520	28	50	8.39	1
DPH60-BM50-600L	600	28	60	11.53	1

10 倍長 10 Times Longer

規格 Spec.	L	d_1	D	重量 (KGS) Weight	Fig
DPH40-BM40-480L	480	22	40		
DPH50-BM50-620L	620	28	50	9.68	1
DPH60-BM50-720L	720	28	60	13.24	1

• 長度單位 Unit of Length (mm)

BM 模組化高硬度大柄徑減震車刀柄
BM MODULAR VIBRATION-DAMPED BORING BAR

Anti-Vibration

KOVIT

NEW

特點 Feature

- 更快的切削進給及良好的加工表面精度

-Higher cutting feed rate and better surface accuracy.

10 倍長 10 Times Longer

規格 Spec.	L	d_1	D	重量 (KGS) Weight
DPH80-BM50-1250L	1250	28	80	39.0
DPH100-BM50-1400L	1400	28	100	62.0
DPH120-BM50-1800L	1800	28	120	110.0
DPH150-BM50-2500L	2500	28	150	180.0
DPH180-BM50-2800L	2800	28	180	288.0
DPH200-BM50-3000L	3000	28	200	370.0

12 倍長 12 Times Longer

規格 Spec.	L	d_1	D	重量 (KGS) Weight
DPH80-BM50-1450L	1450	28	80	43.0
DPH100-BM50-1600L	1600	28	100	69.0
DPH120-BM50-2000L	2000	28	120	125.0
DPH150-BM50-2800L	2800	28	150	200.0
DPH180-BM50-3200L	3200	28	180	320.0
DPH200-BM50-3500L	3500	28	200	420.0

• 長度單位 Unit of Length (mm)

BM 模組化鎢鋼減震車刀柄
BM MODULAR VIBRATION-DAMPED CARBIDE BORING BAR

Anti-Vibration

KOVIT

NEW

Fig.1

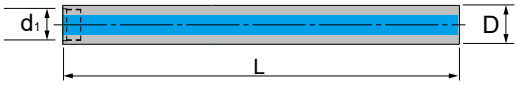
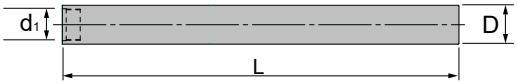


Fig.2



特點 Feature

- 更快的切削進給及良好的加工表面精度

-Higher cutting feed rate and better surface accuracy

10 倍長 10 Times Longer

規格 Spec.	L	d_1	D	重量 (KGS) Weight	Fig.
DPC16-BM16-220L	220	M13-0.5	16	0.50	2
DPC20-BM20-250L	250	M16-0.75	20	1.29	2
DPC25-BM25-300L	300	M20-0.75	25	2.05	2
DPC32-BM32-400L	400	18	32		

12 倍長 12 Times Longer

規格 Spec.	L	d_1	D	重量 (KGS) Weight	Fig.
DPC20-BM20-300L	300	M16-0.75	20	1.49	1
DPC25-BM25-350L	350	M20-0.75	25	2.38	1
DPC32-BM32-450L	450	18	32	4.04	1

13 倍長 13 Times Longer

規格 Spec.	L	d_1	D	重量 (KGS) Weight	Fig.
DPC16-BM16-270L	270	M13-0.5	16	0.60	2
DPC40-BM40-610L	610	22	40	9.00	1

14 倍長 14 Times Longer

規格 Spec.	L	d_1	D	重量 (KGS) Weight	Fig.
DPC20-BM20-350L	350	M16-0.75	20		
DPC25-BM25-400L	400	M20-0.75	25	2.71	2
DPC32-BM32-500L	500	18	32	4.64	1
DPC50-BM50-820L	820	28	50	15.40	1
DPC60-BM50-960L	960	28	60	31.50	1

15 倍長 15 Times Longer

規格 Spec.	L	d_1	D	重量 (KGS) Weight	Fig.
DPC40-BM40-690L	690	22	40	9.60	1

16 倍長 16 Times Longer

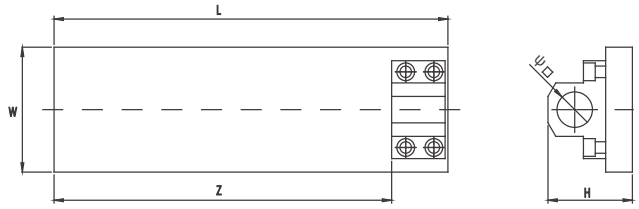
規格 Spec.	L	d_1	D	重量 (KGS) Weight	Fig.
DPC50-BM50-920L	920	28	50	17.40	1
DPC60-BM50-1080L	1080	28	60	35.01	1

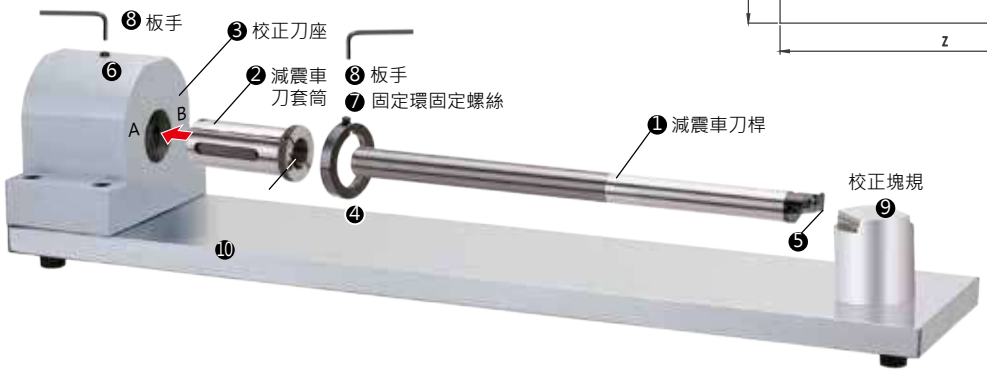
• 長度單位 Unit of Length (mm)

減震車刀中心校正台
TOOL PRESETTER FOR VIBRATION-DAMPED TURING TOOL

KOVIT

NEW





❶ 減震車刀桿	❶ Damped turning tool	❻ 校正刀座固定螺絲	❻ Set screw for tool holding seat
❷ 減震車刀套筒	❷ Damped turning tool sleeve	❼ 固定環固定螺絲	❼ Set screw for retaining ring
❸ 校正刀座 (Ø32, Ø40, Ø50, Ø60)	❸ Tool holding seat	❽ 六角板手	❽ Hex wrench
❹ 固定環	❹ Retaining ring	❾ 校正塊規	❾ Block gauge
❺ BM車刀頭刀尖	❺ Tool tip of LT turning head	❿ 中心校正台本體	❿ Tool setter table

特點 Feature

- 減震車刀中心校正台專為快速校正減震內孔車刀而設計
- 減震車刀中心校正台需搭配減震內孔車刀套筒使用
- 可依不同內孔車刀的伸出長度與車刀桿直徑的比值 L/D，而選擇不同的中心高

- The shock absorber knife center correction station is designed for quick correction of shock-absorbing inner hole lathe tool.
- The center correction table of the shock-absorbing vehicle knife should be used with the shock-absorbing inner hole lathe tool sleeve.
- Depending on the extended length of the lathe tool and the diameter ratio of the lathe tool L/D, the different center height can be selected.

規格 Spec.	有效校正長 Z	全長 L	寬 W	高 H	重量 Weight (KGS)	搭配減徑專用套筒 sleeve
CRT-C32	600	700	150	150	26	RSC32-ψ □
CRT-C40						RSC40-ψ □
CRT-C50						RSC50-ψ □
CRT-C60						RSC60-ψ □

⚠ □ : 車刀柄徑
10、12、14、16、18、20、28
所有規格均含有附件 : 校正塊規 ×1PCS、固定環 ×1PCS、4mm 六角板手 ×1PCS

⚠ □ : Car knife shank diameter
10、12、14、16、18、20、28
All Specs contain accessories: correction block gauge x 1PCS, fixed ring x 1PCS, 4mm hexagonal wrench x 1PCS

• 長度單位 Unit of Length (mm)

BM/SCLCR 模組化內徑車刀
BM/SCLCR MODULAR BORING BAR HEAD

Anti-Vibration

KOVIT

NEW

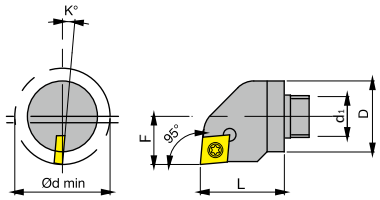


Fig.1

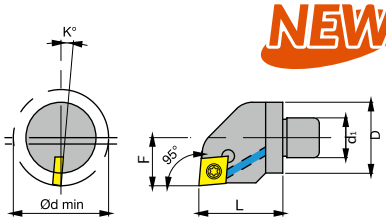


Fig.2

規格 Spec.	L	D	d	d1	F	K°	刀片 Insert	Fig.	重量 (KGS) Weight
BM16-SCLCR-09	25	16	20	M13-0.5	10	7	CC..09T3	1	-
BM20-SCLCR-09	30	20	25	M16-0.75	13	7	CC..09T3	1	-
BM25-SCLCR-09	30	25	30	M20-0.75	15	5	CC..09T3	1	-
BM32-SCLCR-09	35	32	40	18	20	5	CC..09T3	2	-
BM40-SCLCR-12	40	40	52	22	26	3	CC..1204	2	-
BM50-SCLCR-12	40	50	64	28	32	3	CC..1204	2	-

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 Torque
CC..09T3	M4-8.0-5.7-60	T15	3.0 N.m
CC..1204	M5-11-7.5-60	T20	5.0 N.m

BM/STUCR 模組化內徑車刀
BM/STUCR MODULAR BORING BAR HEAD

Anti-Vibration

KOVIT

NEW

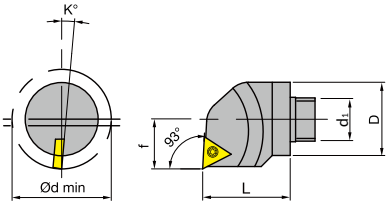


Fig.1

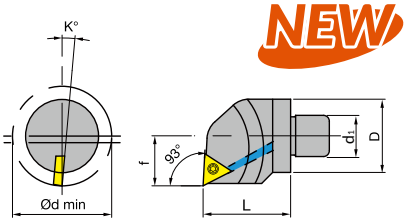


Fig.2

規格 Spec.	L	D	d	d1	F	K°	刀片 Insert	Fig.	重量 (KGS) Weight
BM16-STUCR-11	25	16	20	M13-0.5	10	8	TC..1102	1	-
BM20-STUCR-11	30	20	25	M16-0.75	13	6	TC..1102	1	-
BM25-STUCR-11	30	25	30	M20-0.75	15	4	TC..1102	1	-
BM32-STUCR-16	35	32	39	18	19.5	5	TC..16T3	2	-
BM40-STUCR-16	40	40	51	22	5.5	5	TC..16T3	2	-
BM50-STUCR-16	40	50	61	28	30.4	5	TC..16T3	2	-

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 Torque
TC..1102	M2.5-6.0-3.5-60	T8	1.2 N.m
TC..16T3	M4-8.0-5.7-60	T15	3.0 N.m

• 長度單位 Unit of Length (mm)

BM/SNR 模組化內徑牙刀
BM/SNR MODULAR BORING BAR HEAD

Anti-Vibration

KOVIT

NEW

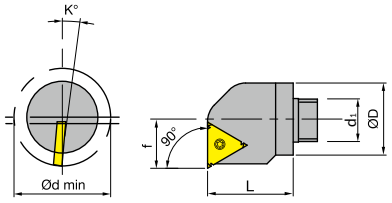


Fig.1

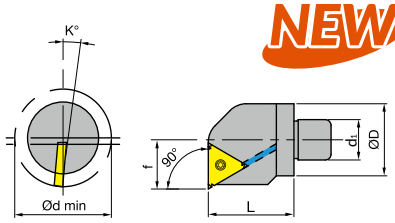


Fig.2

規格 Spec.	L	D	d	d1	F	K°	刀片 Insert	Fig.	重量 (KGS) Weight
BM16-SNR-16	25	16	20	M13-0.5	10	15	16IR	1	-
BM20-SNR-16	30	20	26	M16-0.75	13	15	16IR	1	-
BM25-SNR-16	30	25	32	M20-0.75	17	15	16IR	1	-
BM32-SNR-16	35	32	40	18	20	-	16IR	2	-
BM40-SNR-16	40	40	52	22	26	-	16IR	2	-
BM50-SNR-16	40	50	64	28	23	-	16IR	2	-

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 Torque
16IR	M3.5-11.7-5.3-60	T15	3.0 N.m

BM/SDUCR 模組化內徑車刀
BM/SDUCR MODULAR BORING BAR HEAD

Anti-Vibration

KOVIT

NEW

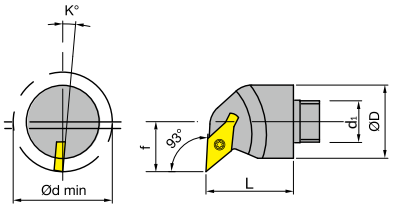


Fig.1

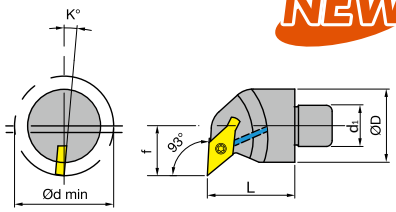


Fig.2

規格 Spec.	L	D	d	d1	F	K°	刀片 Insert	Fig.	重量 (KGS) Weight
BM16-SDUCR-11	25	16	20	M13-0.5	11	6	DC..11T3	1	-
BM20-SDUCR-11	30	20	26	M16-0.75	13	6	DC..11T3	1	-
BM25-SDUCR-11	30	25	32	M20-0.75	16	6	DC..11T3	1	-
BM32-SDUCR-11	35	32	40	18	20	6	DC..11T3	2	-
BM40-SDUCR-11	40	40	52	22	26	6	DC..11T3	2	-
BM50-SDUCR-11	40	50	64	28	32	6	DC..11T3	2	-

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 Torque
DC..11T3	M4-10-5.7-60	T15	3.0 N.m

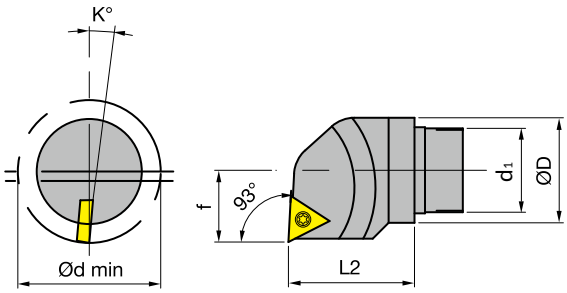
• 長度單位 Unit of Length (mm)

BM/STUPR 模組化內徑車刀
BM/STUPR MODULAR BORING BAR HEAD

Anti-Vibration

KOVIT

NEW



規格 Spec.	L	D	d	d1	F	K°	刀片 Insert	重量 (KGS) Weight
BM16-STUPR-11	25	16	20	M13-0.5	10	6	TP..1103	-
BM20-STUPR-11	30	20	25	M16-0.75	13	4	TP..1103	-
BM25-STUPR-11	30	25	30	M20-0.75	15	2	TP..1103	-

配件表 Accessories

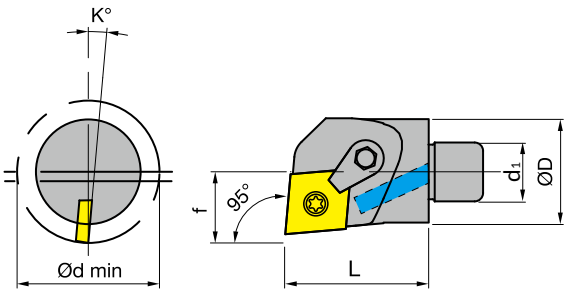
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 Torque
TP..1103	M3-8.0-4.0-43	T9	1.4

BM/MCLNR 模組化內徑車刀
BM/MCLNR MODULAR BORING BAR HEAD

Anti-Vibration

KOVIT

NEW



規格 Spec.	L	D	d	d1	F	K°	刀片 Insert	重量 (KGS) Weight
BM32-MCLNR-12	35	32	40	18	20	12	CN..1204	-
BM40-MCLNR-12	40	40	48	22	24	12	CN..1204	-
BM50-MCLNR-12	40	50	64	28	32	12	CN..1204	-

配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench
CN..1204	CMS432	MLP46	PL2.5	MC620	MS625	PL3

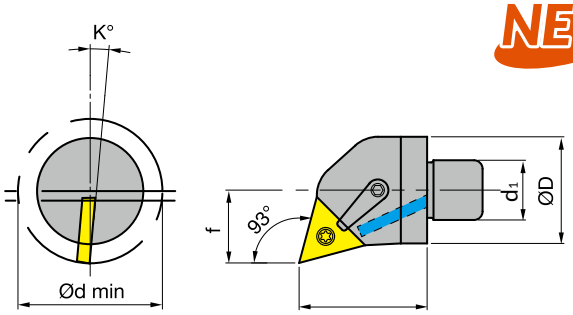
• 長度單位 Unit of Length (mm)

BM/MTUNR 模組化內徑車刀
BM/MTUNR MODULAR BORING BAR HEAD

Anti-Vibration

KOVIT

NEW



規格 Spec.	L	D	d	d1	F	K°	刀片 Insert	重量 (KGS) Weight
BM32-MTUNR-16	35	32	40	18	19.5	13	TN..1604	-
BM40-MTUNR-16	40	40	52	22	25.5	13	TN..1604	-
BM50-MTUNR-16	40	50	64	28	30.4	13	TN..1604	-

配件表 Accessories

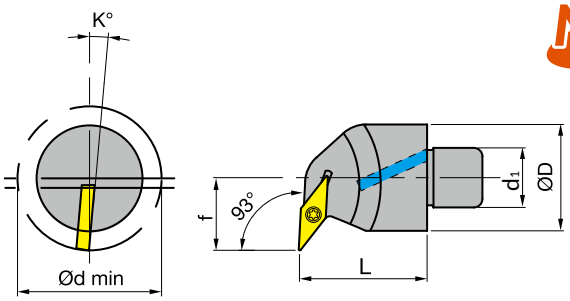
刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench
TN..1604	TWS322	MLP34L	PL2	MC620	MS625	PL3

BM/SVUCR 模組化內徑車刀
BM/SVUCR MODULAR BORING BAR HEAD

Anti-Vibration

KOVIT

NEW



規格 Spec.	L	D	d	d1	F	K°	刀片 Insert	重量 (KGS) Weight
BM32-SVUCR-16	35	32	40	18	20	5	VC..1604	-
BM40-SVUCR-16	40	40	52	22	26	5	VC..1604	-
BM50-SVUCR-16	40	50	64	28	32	5	VC..1604	-

配件表 Accessories

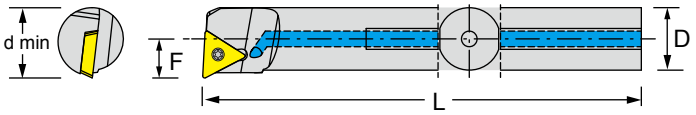
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 Torque
VC..1604	M3.5-8.0-5.0-60	T15	3.0 N.m

• 長度單位 Unit of Length (mm)

DPSTUPR 一體式減震車刀架 - 出水型
DPSTUPR VIBRATION-DAMPED BORING BAR WITH COOLANT

Anti-Vibration

KOVIT NEW



8 倍長 8 Times Longer

規格 Spec.	L	D	d	F	使用刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
DPS12-STUPR-09-14-196L-C	196	12	14	7.5	TP..0902	M2.5-6.0-3.5-60	T8	1.2	-
DPS12-STUPR-11-14-196L-C	196	12	14	7.5	TP..1103	M3-8.0-4.0-43	T9	1.4	-
DPS16-STUPR-11-18-228L-C	228	16	18	9.5	TP..1103	M3-8.0-4.0-43	T9	1.4	-

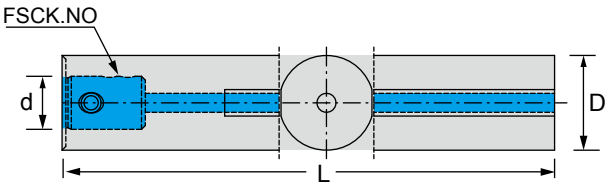
10 倍長 10 Times Longer

規格 Spec.	L	D	d	F	使用刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
DPC12-STUPR-09-14-220L-C	220	12	14	7.5	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.32
DPC12-STUPR-11-14-220L-C	220	12	14	7.5	TP..1103	M3-8.0-4.0-43	T9	1.4	0.32
DPC16-STUPR-11-18-260L-C	260	16	18	9.5	TP..1103	M3-8.0-4.0-43	T9	1.4	-

DPFSCK 模組化減震車刀柄 - 出水型
DPFSCK MODULAR VIBRATION -DAMPED BORING BAR SHANK

Anti-Vibration

KOVIT NEW



8 倍長 8 Times Longer

規格 Spec.	L	D	d	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
DPS20-FSCK1-240L-C	240	20	11	FSCK1-M5	PL2.5	5.0	-
DPS25-FSCK2-275L-C	275	25	14	FSCK2-M6	PL3	5.0	1.16
DPS32-FSCK3-326L-C	326	32	18	FSCK3-M6	PL3	5.0	2.23
DPS40-FSCK4-410L-C	410	40	22	FSCK4-M8	PL4	6.0	-

10 倍長 10 Times Longer

規格 Spec.	L	D	d	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
DPC20-FSCK1-280L-C	280	20	11	FSCK1-M5	PL2.5	5.0	1.08
DPC25-FSCK2-325L-C	325	25	14	FSCK2-M6	PL3	5.0	1.9
DPC32-FSCK3-390L-C	390	32	18	FSCK3-M6	PL3	5.0	3.76
DPS40-FSCK4-490L-C	490	40	22	FSCK4-M8	PL4	6.0	-

• 長度單位 Unit of Length (mm)

FSCK 模組化內徑車刀規格介紹
FSCK DESIGNATION OF MODULAR BORING BAR HEAD

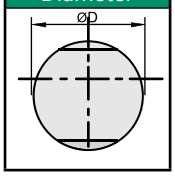
KOVIT

C	20	-	FSCK	1	-	180L	-	C
①	②		③	④		⑤		⑥

① 材質 Material

記號 Symbol	刀柄材質樣式 Type
C	鎢鋼 Tungsten Steel
S	鋼製 Steel
Z	高硬度刀柄 Hardness Shank

② 刀具直徑 Diameter



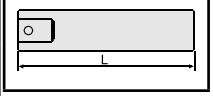
③ 刀柄系列 Shank series

記號 Symbol	功能 Function
SCK	鎖固 Fixed
FSCK	定位鎖固 Fixed

④ 內孔直徑 Inner hole diameter

記號 Symbol	直徑 Diameter	圖形 Shape
1	11	
2	14	
3	18	
4	22	
5	28	
6	36	

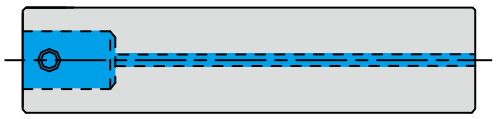
⑤ 刀柄總長 Shank length



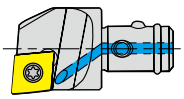
⑥ 特別記號 Special symbol

記號 Symbol	功能 Function
C	中心出水 Coolant

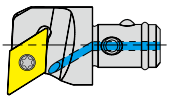
FSCK 組合圖 Combination Icon



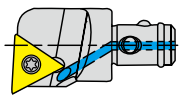
FSCK 模組化內徑車刀桿
MODULAR BORING BAR



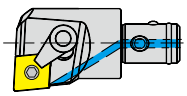
SCLC.SCLP模組化內徑車刀
MODULAR BORING BAR HEAD



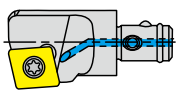
SDUC 模組化內徑車刀
MODULARITY BORING BARS



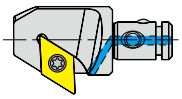
STFC.STUC.STUP 模組化內徑車刀
MODULAR BORING BAR HEAD



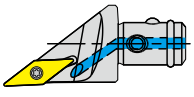
MCLN 模組化內徑車刀
MODULAR BORING BAR HEAD



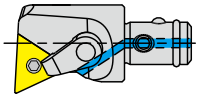
SCKC 模組化內徑車刀
MODULAR BORING BAR HEAD



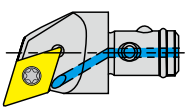
SDZC 模組化內徑車刀
MODULARITYE BORING BARS



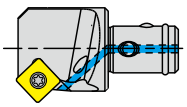
SVJC 模組化內徑車刀
MODULAR BORING BAR HEAD



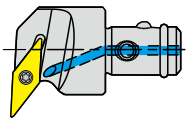
MTUN 模組化內徑車刀
MODULAR BORING BAR HEAD



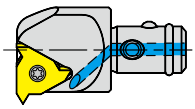
SDQC 模組化內徑車刀
MODULAR BORING BAR HEAD



SSSC 模組化內徑車刀
MODULARITY BORING BARS



SVUC 模組化內徑車刀
MODULAR BORING BAR HEAD

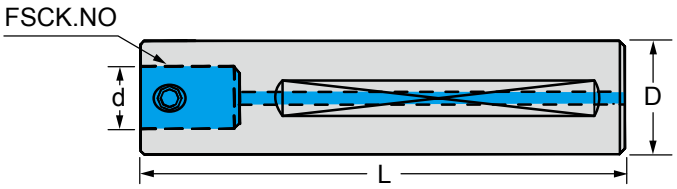


SIR 模組化內徑車刀
MODULAR BORING BAR HEAD

• 長度單位 Unit of Length (mm)

FSCK 定位高硬度內徑車刀柄
FSCK FIXED STRAIGHT TURNING TOOLS

KOVIT



特點 Feature

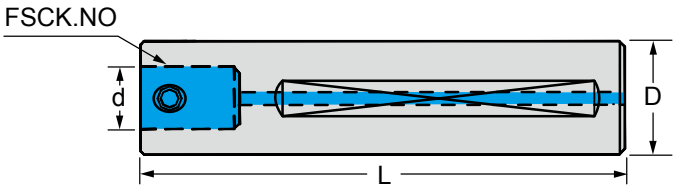
- 抗震係數 4 倍

-Vibration resistance ratio: 4~5.

規格 Spec.	組合刀柄 NO.	L	D	d	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
Z20-FSCK1-180L-C	FSCK1	180	20	11	FSCK1-M5	PL2.5	5.0	0.43
Z25-FSCK2-175L-C	FSCK2	175	25	14	FSCK2-M6	PL3	5.0	0.66
Z25-FSCK2-225L-C	FSCK2	225	25	14	FSCK2-M6	PL3	5.0	0.84
Z32-FSCK3-220L-C	FSCK3	220	32	18	FSCK3-M6	PL3	5.0	1.30
Z32-FSCK3-270L-C	FSCK3	270	32	18	FSCK3-M6	PL3	5.0	2.90
Z40-FSCK4-267L-C	FSCK4	267	40	22	FSCK4-M8	PL4	5.0	-
Z50-FSCK5-290L-C	FSCK5	290	50	28	FSCK5-M10	PL5	6.0	-

FSCK 定位鎢鋼內徑車刀柄
FSCK FIXED TUNGSTEN TURNING TOOLS

KOVIT



特點 Feature

- 抗震係數 5 倍

-Vibration resistance ratio: 5~6

規格 Spec.	組合刀柄 NO.	L	D	d	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
C20-FSCK1-180L-C	FSCK1	180	20	11	FSCK1-M5	PL2.5	5.0	0.8
C20-FSCK1-230L-C	FSCK1	230	20	11	FSCK1-M5	PL2.5	5.0	0.98
C25-FSCK2-175L-C	FSCK2	175	25	14	FSCK2-M6	PL3	5.0	1.18
C25-FSCK2-225L-C	FSCK2	225	25	14	FSCK2-M6	PL3	5.0	1.50
C32-FSCK3-170L-C	FSCK3	170	32	18	FSCK3-M6	PL3	5.0	1.80
C32-FSCK3-220L-C	FSCK3	220	32	18	FSCK3-M6	PL3	5.0	2.33
C32-FSCK3-270L-C	FSCK3	270	32	18	FSCK3-M6	PL3	5.0	2.86

• 長度單位 Unit of Length (mm)

FSCK 定位內徑車刀柄規格介紹
FSCK DESIGNATION FIXED STRAIGHT BORING HAND SHANK

KOVIT

① 材質 Material

記號 Symbol	刀柄材質樣式 Type
C	鎢鋼 Tungsten
S	鋼製 Steel
Z	高硬度刀柄 Hardness Shank
SC	鎢鋼焊接式 Tungsten Welding

③ 刀柄系列 Series

記號 Symbol	功能 Function
SCK	鎖固 Fixed
FSCK	定位鎖固 Fixed

⑥ 刀片形狀 Shape

記號 Symbol	形狀 Shape	角度 Angle	圖形 Shape
C	菱形 Rhombic	80°	
D		55°	
J		70°	
V		35°	
R	圓形 Round	-	
S	正方形 Square	90°	
T	正三角形 Triangle	60°	
W	六角形 Hexangonal	80°	

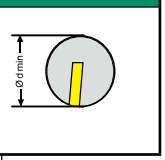
⑧ 離隙角 Relief Angle

記號 Symbol	離隙角 Relief Angle
B	5°
C	7°
D	15°
E	20°
N	0°
P	11°

⑨ 切削方向 Direction

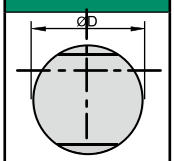
記號 Symbol	圖形 Shape
L	
N	
R	

⑪ 最小加工徑 Min. Dia.



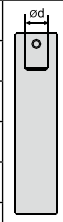
S	20	-	FSCK	1	-	S	T	L	C	R	09	-	16	-	C
①	②		③	④		⑤	⑥	⑦	⑧	⑨	⑩		⑪		⑫

② 刀具直徑 Diameter



④ 內孔直徑 Inner hole

記號 Symbol	直徑 Diameter	圖形 Shape
1	11	
2	14	
3	18	
4	22	
5	28	
6	36	



⑤ 壓板鎖固方式 Locking Type

記號 Symbol	名稱 Name	圖形 Shape
C	上壓式 Clamp	
M	螺銷上壓式 Pin/ Clamp	
W	楔鉤式 Clamp	
S	壓孔式 Screw	
P	側推式 Pin	

⑦ 切刃形狀 Shape

記號 Symbol	圖形 Shape	記號 Symbol	圖形 Shape
A	90°	L2 ※	95° 95°
B	75°	N	63°
C	90°	N3 ※	63°
D	45°	P ※	62 5°
E	60°	Q ※	45°
F	91°	S	45°
G	91°	V	72.5°
G	91°	U	93°
J	93°	X	100°
J2 ※	93°	Y	80°
K	75°	Z	93°
L	95° 95°		

⑩ 刀片邊寬 Width

記號 Symbol	圖形 Shape
S	
T	
R	
L	
C D E V	
A B K	

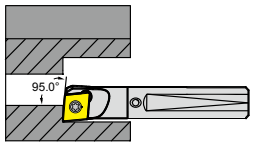
⑫ 特別記號 Specialize

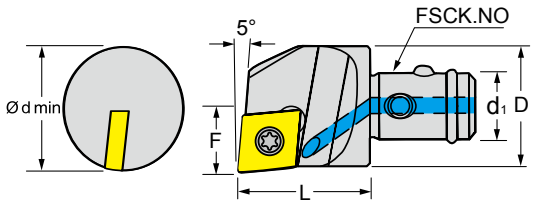
記號 Symbol	功能 Function
C	中心出水 Coolant

• 長度單位 Unit of Length (mm)

SCLC 模組化內徑車刀
SCLC MODULAR TURNING TOOL HEAD

KOVIT

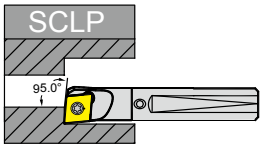


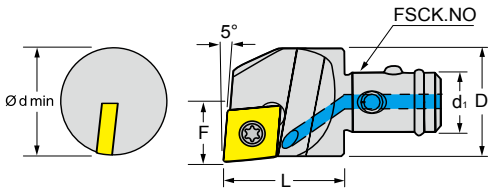


規格 Spec.	L	D	最小加工徑 d	d_1	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-SCLCR09-22-C	22	20	22	11	11	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-SCLCL09-22-C	22	20	22	11	11	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-SCLCR09-28-C	25	25	28	14	14.5	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.12
S25-FSCK2-SCLCL09-28-C	25	25	28	14	14.5	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-SCLCR09-38-C	30	32	38	18	17.5	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.20
S32-FSCK3-SCLCL09-38-C	30	32	38	18	17.5	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.20
S40-FSCK4-SCLCR09-43-C	33	40	43	22	21	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.38
S40-FSCK4-SCLCL09-43-C	33	40	43	22	21	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.38
S50-FSCK5-SCLCR09-60-C	35	50	60	28	30	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.54
S50-FSCK5-SCLCL09-60-C	35	50	60	28	30	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.54

SCLP 模組化內徑車刀
SCLP MODULAR TURNING TOOL HEAD

KOVIT



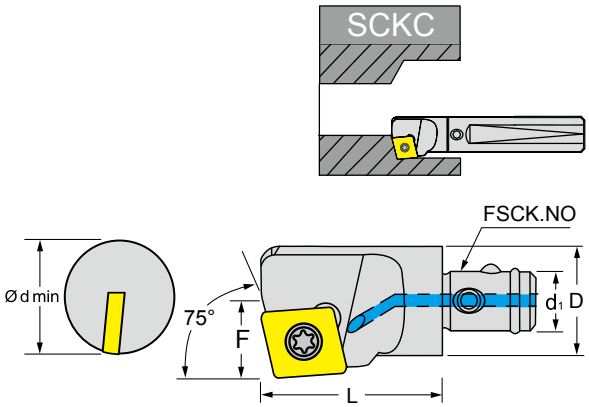


規格 Spec.	L	D	最小加工徑 d	d_1	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-SCLPR09-22-C	22	20	22	11	11	CP..0903	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-SCLPL09-22-C	22	20	22	11	11	CP..0903	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-SCLPR09-28-C	25	25	28	14	14	CP..0903	M4-7.8-5.6-60	T15	3.0	0.12
S25-FSCK2-SCLPL09-28-C	25	25	28	14	14	CP..0903	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-SCLPR09-35-C	24	32	35	18	17.5	CP..0903	M4-7.8-5.6-60	T15	3.0	0.22
S32-FSCK3-SCLPL09-35-C	24	32	35	18	17.5	CP..0903	M4-7.8-5.6-60	T15	3.0	0.22

• 長度單位 Unit of Length (mm)

SCKC 模組化內徑車刀
SCKC MODULAR TURNING TOOL HEAD

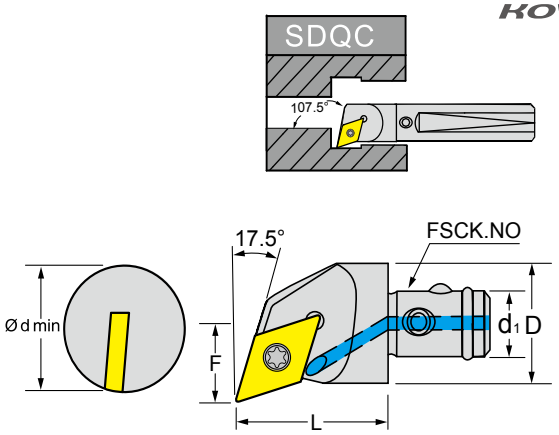
KOVIT



規格 Spec.	L	D	最小加工徑 d	d1	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-SCKCR09-24-C	22	20	24	11	11.5	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-SCKCL09-24-C	22	20	24	11	11.5	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-SCKCR09-30-C	25	25	30	14	15	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.12
S25-FSCK2-SCKCL09-30-C	25	25	30	14	15	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-SCKCR09-38-C	30	32	38	18	17.5	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.22
S32-FSCK3-SCKCL09-38-C	30	32	38	18	17.5	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.22

SDQC 模組化內徑車刀
SDQC MODULAR TURNING TOOL HEAD

KOVIT

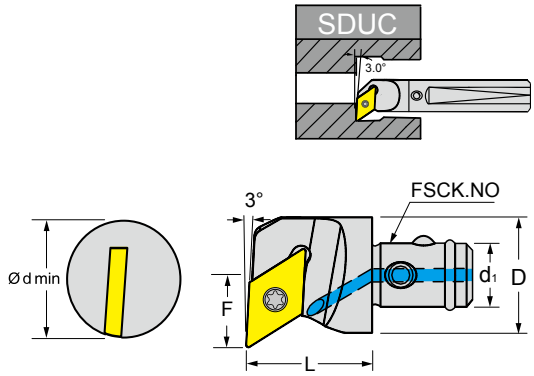


規格 Spec.	L	D	最小加工徑 d	d1	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-SDQCR11-25-C	22	20	25	11	13	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-SDQCL11-25-C	22	20	25	11	13	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-SDQCR11-32-C	27	25	31	14	17	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.12
S25-FSCK2-SDQCL11-32-C	27	25	31	14	17	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-SDQCR11-40-C	30	32	40	18	20	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.22
S32-FSCK3-SDQCL11-40-C	30	32	40	18	20	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.22
S40-FSCK4-SDQCR11-50-C	33	40	50	22	25	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.38
S40-FSCK4-SDQCL11-50-C	33	40	50	22	25	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.38
S50-FSCK5-SDQCR11-56-C	35	50	56	28	30	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.50
S50-FSCK5-SDQCL11-56-C	35	50	56	28	30	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.50

• 長度單位 Unit of Length (mm)

SDUC 模組化內徑車刀
SDUC MODULAR TURNING TOOL HEAD

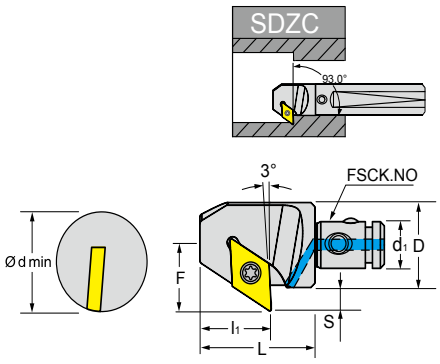
KOVIT



規格 Spec.	L	D	最小加工徑 d	d_1	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-SDUCR11-23-C	22	20	23	11	12.5	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.07
S20-FSCK1-SDUCL11-23-C	22	20	23	11	12.5	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-SDUCR11-25-C	22	20	25	11	13	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-SDUCL11-25-C	22	20	25	11	13	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-SDUCR11-32-C	25	25	32	14	17	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.12
S25-FSCK2-SDUCL11-32-C	25	25	32	14	17	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-SDUCR11-40-C	30	32	40	18	20	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.20
S32-FSCK3-SDUCL11-40-C	30	32	40	18	20	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.22
S40-FSCK4-SDUCR11-46-C	33	40	46	22	25	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.38
S40-FSCK4-SDUCL11-46-C	33	40	46	22	25	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.38
S50-FSCK5-SDUCR11-56-C	35	50	56	28	30	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.50
S50-FSCK5-SDUCL11-56-C	35	50	56	28	30	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.50

SDZC 模組化內徑車刀
SDZC MODULAR TURNING TOOL HEAD

KOVIT

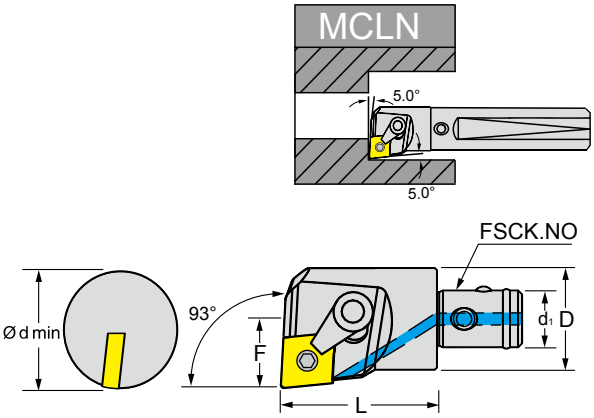


規格 Spec.	L	l_1	D	最小加工徑 d	d_1	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-SDZCR11-26-C	29	18	20	26	11	15.5	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.10
S20-FSCK1-SDZCL11-26-C	29	18	20	26	11	15.5	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-SDZCR11-33-C	34	18	25	33	14	18	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.14
S25-FSCK2-SDZCL11-33-C	34	18	25	33	14	18	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-SDZCR11-40-C	35	18	32	40	18	21.5	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.22
S32-FSCK3-SDZCL11-40-C	35	18	32	40	18	21.5	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.22

• 長度單位 Unit of Length (mm)

MCLN 模組化內徑車刀
MCLN MODULAR TURNING TOOL HEAD

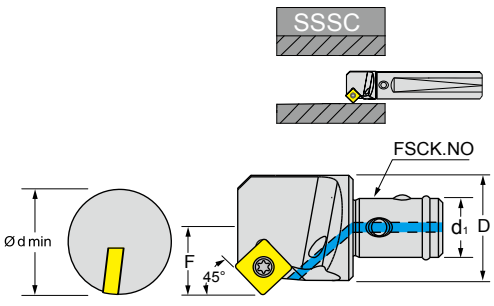
KOVIT



規格 Spec.	L	D	最小加工徑 d	d_1	F	刀片 Insert	墊片 Shim	墊片螺絲 Screw	扳手 Wrench	壓板 Clamp	壓板螺絲 Screw	扳手 Wrench	重量 (KGS) Weight
S20-FSCK1-MCLNR12-25-C	33	20	25	11	13	CN..1204	-	MLP44	PL2.5	MC515	MS520	P2.5	0.08
S20-FSCK1-MCLNL12-25-C	33	20	25	11	13	CN..1204	-	MLP44	PL2.5	MC515	MS520	P2.5	0.08
S25-FSCK2-MCLNR12-32-C	34	25	32	14	15	CN..1204	-	MLP44	PL2.5	MC620	MS620	P3.0	0.12
S25-FSCK2-MCLNL12-32-C	34	25	32	14	15	CN..1204	-	MLP44	PL2.5	MC620	MS620	P3.0	0.12
S32-FSCK3-MCLNR12-40-C	35	32	40	18	20	CN..1204	CMS432	MLP46	PL2.5	MC620	MS620	P3.0	0.22
S32-FSCK3-MCLNL12-40-C	35	32	40	18	20	CN..1204	CMS432	MLP46	PL2.5	MC620	MS620	P3.0	0.22
S40-FSCK4-MCLNR12-46-C	35	40	46	22	25	CN..1204	CMS432	MLP46	PL2.5	MC620	MS625	P3.0	0.38
S40-FSCK4-MCLNL12-46-C	35	40	46	22	25	CN..1204	CMS432	MLP46	PL2.5	MC620	MS625	P3.0	0.38
S50-FSCK5-MCLNR12-60-C	36	50	60	28	30	CN..1204	CMS432	MLP46	PL2.5	MC620	MS625	P3.0	0.50
S50-FSCK5-MCLNL12-60-C	36	50	60	28	30	CN..1204	CMS432	MLP46	PL2.5	MC620	MS625	P3.0	0.50

SSSC 模組化內徑車刀
SSSC MODULAR TURNING TOOL HEAD

KOVIT

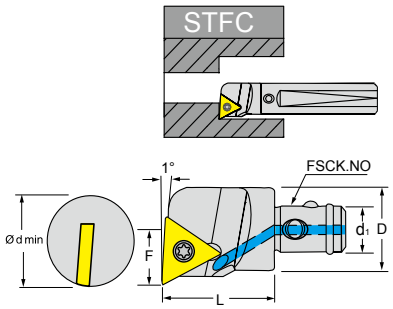


規格 Spec.	L	D	最小加工徑 d	d_1	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-SSSCR09-26-C	22	20	26	11	13.5	SC..09T3	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-SSSCL09-26-C	22	20	26	11	13.5	SC..09T3	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-SSSCR09-31-C	27	25	31	14	16	SC..09T3	M4-7.8-5.6-60	T15	3.0	0.12
S25-FSCK2-SSSCL09-31-C	27	25	31	14	16	SC..09T3	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-SSSCR09-40-C	30	32	40	18	19.5	SC..09T3	M4-7.8-5.6-60	T15	3.0	0.22
S32-FSCK3-SSSCL09-40-C	30	32	40	18	19.5	SC..09T3	M4-7.8-5.6-60	T15	3.0	0.22

• 長度單位 Unit of Length (mm)

STFC 模組化內徑車刀
STFC MODULAR TURNING TOOL HEAD

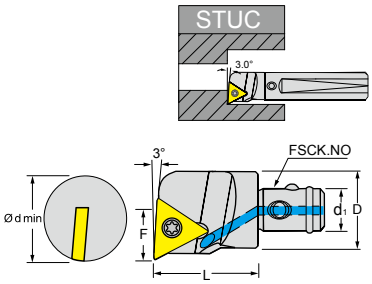
KOVIT



規格 Spec.	L	D	最小加工徑 d	d1	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-STFCR11-22-C	22	20	22	11	11	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.08
S20-FSCK1-STFCL11-22-C	22	20	22	11	11	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.08
S20-FSCK1-STFCR16-22-C	22	20	22	11	11.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-STFCL16-22-C	22	20	22	11	11.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-STFCR11-28-C	25	25	28	14	14	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.12
S25-FSCK2-STFCL11-28-C	25	25	28	14	14	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.12
S25-FSCK2-STFCR16-28-C	27	32	28	14	14	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.12
S25-FSCK2-STFCL16-28-C	27	32	28	14	14	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-STFCR16-38-C	30	32	38	18	17.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.22
S32-FSCK3-STFCL16-38-C	30	32	38	18	17.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.22
S40-FSCK4-STFCR16-43-C	33	40	50	22	21.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.38
S40-FSCK4-STFCL16-43-C	33	40	50	22	21.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.38
S50-FSCK5-STFCR16-60-C	35	50	60	28	26.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.50
S50-FSCK5-STFCL16-60-C	35	50	60	28	26.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.50

STUC 模組化內徑車刀
STUC MODULAR TURNING TOOL HEAD

KOVIT

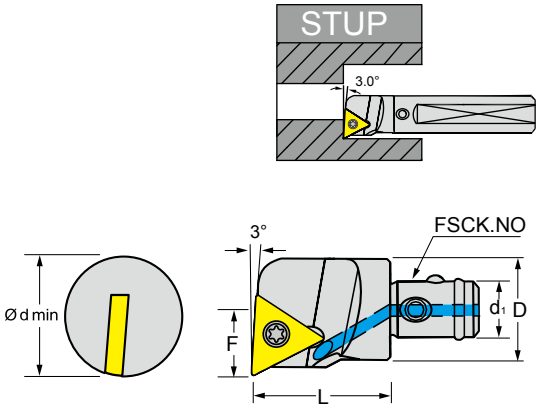


規格 Spec.	L	D	最小加工徑 d	d1	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-STUCR11-22-C	22	20	22	11	11	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.08
S20-FSCK1-STUCL11-22-C	22	20	22	11	11	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.08
S25-FSCK2-STUCR11-28-C	25	25	28	14	14	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.12
S25-FSCK2-STUCL11-28-C	25	25	28	14	14	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.12
S20-FSCK1-STUCR16-22-C	22	20	22	11	11	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-STUCL16-22-C	22	20	22	11	11	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-STUCR16-28-C	27	25	28	14	14	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.12
S25-FSCK2-STUCL16-28-C	27	25	28	14	14	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-STUCR16-38-C	30	32	38	18	17.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.22
S32-FSCK3-STUCL16-38-C	30	32	38	18	17.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.22
S40-FSCK4-STUCR16-50-C	33	40	50	22	21.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.38
S40-FSCK4-STUCL16-50-C	33	40	50	22	21.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.38
S50-FSCK5-STUCR16-60-C	35	50	60	28	26.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.50
S50-FSCK5-STUCL16-60-C	35	50	60	28	26.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.50

• 長度單位 Unit of Length (mm)

STUP 模組化內徑車刀
STUP MODULAR TURNING TOOL HEAD

KOVIT

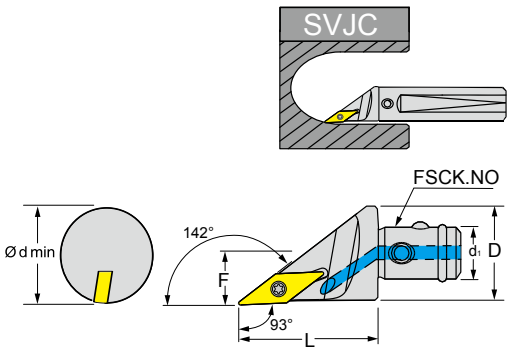


規格 Spec.	L	D	最小加工徑 d	d1	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-STUPR11-22-C	22	20	22	11	11.5	TP..1103	M3-8.0-4.0-43	T9	1.4	0.08
S20-FSCK1-STUPL11-22-C	22	20	22	11	11.5	TP..1103	M3-8.0-4.0-43	T9	1.4	0.08
S25-FSCK2-STUPR11-30-C	25	25	30	14	15	TP..1103	M3-8.0-4.0-43	T9	1.4	0.12
S25-FSCK2-STUPL11-30-C	25	25	30	14	15	TP..1103	M3-8.0-4.0-43	T9	1.4	0.12
S20-FSCK1-STUPR1603-25-C	22	20	25	11	13	TP..1603	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-STUPL1603-25-C	22	20	25	11	13	TP..1603	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-STUPR1603-28-C	27	25	28	14	14	TP..1603	M4-7.8-5.6-60	T15	3.0	0.12
S25-FSCK2-STUPL1603-28-C	27	25	28	14	14	TP..1603	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-STUPR1603-38-C	30	32	38	18	17.5	TP..1603	M4-7.8-5.6-60	T15	3.0	0.22
S32-FSCK3-STUPL1603-38-C	30	32	38	18	17.5	TP..1603	M4-7.8-5.6-60	T15	3.0	0.22
S40-FSCK4-STUPR1603-43-C	33	40	43	22	21.5	TP..1603	M4-7.8-5.6-60	T15	3.0	0.38
S40-FSCK4-STUPL1603-43-C	33	40	43	22	21.5	TP..1603	M4-7.8-5.6-60	T15	3.0	0.38
S50-FSCK5-STUPR1603-60-C	35	50	60	28	26.5	TP..1603	M4-7.8-5.6-60	T15	3.0	0.50
S50-FSCK5-STUPL1603-60-C	35	50	60	28	26.5	TP..1603	M4-7.8-5.6-60	T15	3.0	0.50
S20-FSCK1-STUPR16-25-C	22	20	25	11	13	TP..16T3	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-STUPL16-25-C	22	20	25	11	13	TP..16T3	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-STUPR16-28-C	27	25	28	14	14	TP..16T3	M4-7.8-5.6-60	T15	3.0	0.12
S25-FSCK2-STUPL16-28-C	27	25	28	14	14	TP..16T3	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-STUPR16-38-C	30	32	38	18	17.5	TP..16T3	M4-7.8-5.6-60	T15	3.0	0.22
S32-FSCK3-STUPL16-38-C	30	32	38	18	17.5	TP..16T3	M4-7.8-5.6-60	T15	3.0	0.22
S40-FSCK4-STUPR16-50-C	33	40	50	22	21.5	TP..16T3	M4-7.8-5.6-60	T15	3.0	0.38
S40-FSCK4-STUPL16-50-C	33	40	50	22	21.5	TP..16T3	M4-7.8-5.6-60	T15	3.0	0.38
S50-FSCK5-STUPR16-53-C	35	50	53	28	26.5	TP..16T3	M4-7.8-5.6-60	T15	3.0	0.50
S50-FSCK5-STUPL16-53-C	35	50	53	28	26.5	TP..16T3	M4-7.8-5.6-60	T15	3.0	0.50
S20-FSCK1-STUPR1604-25-C	22	20	25	11	13	TP..1604	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-STUPL1604-25-C	22	20	25	11	13	TP..1604	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-STUPR1604-28-C	27	25	28	14	14	TP..1604	M4-7.8-5.6-60	T15	3.0	0.12
S25-FSCK2-STUPL1604-28-C	27	25	28	14	14	TP..1604	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-STUPR1604-38-C	30	32	38	18	17.5	TP..1604	M4-7.8-5.6-60	T15	3.0	0.22
S32-FSCK3-STUPL1604-38-C	30	32	38	18	17.5	TP..1604	M4-7.8-5.6-60	T15	3.0	0.22
S40-FSCK4-STUPR1604-43-C	33	40	43	22	21.5	TP..1604	M4-7.8-5.6-60	T15	3.0	0.38
S40-FSCK4-STUPL1604-43-C	33	40	43	22	21.5	TP..1604	M4-7.8-5.6-60	T15	3.0	0.38
S50-FSCK5-STUPR1604-60-C	35	50	60	28	26.5	TP..1604	M4-7.8-5.6-60	T15	3.0	0.50
S50-FSCK5-STUPL1604-60-C	35	50	60	28	26.5	TP..1604	M4-7.8-5.6-60	T15	3.0	0.50

• 長度單位 Unit of Length (mm)

SVJC 模組化內徑車刀
SVJC MODULAR TURNING TOOL HEAD

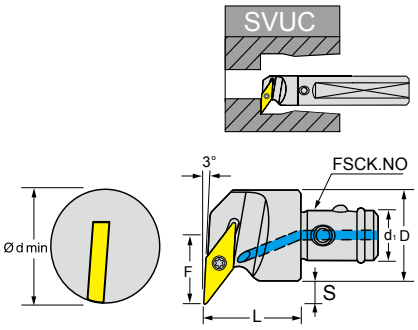
KOVIT



規格 Spec.	L	D	最小加工徑 d	d1	F	車圓弧最小加工徑	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-SVJCR11-22-C	29	C	22	11	11	43	VC..1103	M2.5-6.0-3.5-60	T8	1.2	0.08
S20-FSCK1-SVJCL11-22-C	29	C	22	11	11	43	VC..1103	M2.5-6.0-3.5-60	T8	1.2	0.08
S20-FSCK1-SVJCR16-23-C	33	11	23	11	11.5	43	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.08
S20-FSCK1-SVJCL16-23-C	33	11	23	11	11.5	43	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.08
S25-FSCK2-SVJCR16-28-C	35	25	28	14	14	49	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.12
S25-FSCK2-SVJCL16-28-C	35	25	28	14	14	49	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.12
S32-FSCK3-SVJCR16-35-C	39	32	35	18	17.5	67	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.22
S32-FSCK3-SVJCL16-35-C	39	32	35	18	17.5	67	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.22

SVUC 模組化內徑車刀
SVUC MODULAR TURNING TOOL HEAD

KOVIT

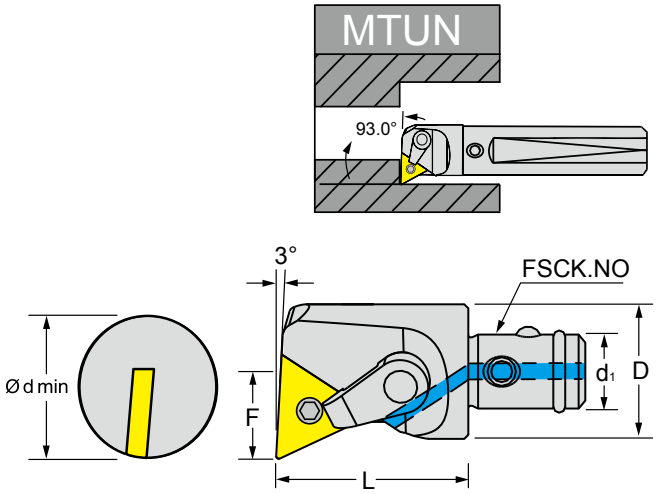


規格 Spec.	L	D	最小加工徑 d	d1	F	S	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-SVUCR11-27-C	22	20	27	11	15	5	VC..1103	M2.5-6.0-3.5-60	T8	1.2	0.08
S20-FSCK1-SVUCL11-27-C	22	20	27	11	15	5	VC..1103	M2.5-6.0-3.5-60	T8	1.2	0.08
S25-FSCK2-SVUCR11-30-C	25	25	30	14	17	4.5	VC..1103	M2.5-6.0-3.5-60	T8	1.2	0.12
S25-FSCK2-SVUCL11-30-C	25	25	30	14	17	4.5	VC..1103	M2.5-6.0-3.5-60	T8	1.2	0.12
S20-FSCK1-SVUCR16-31-C	27	20	31	11	19	9	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.08
S20-FSCK1-SVUCL16-31-C	27	20	31	11	19	9	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.08
S25-FSCK2-SVUCR16-33-C	27	25	33	14	18	5.5	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.12
S25-FSCK2-SVUCL16-33-C	27	25	33	14	18	5.5	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.12
S32-FSCK3-SVUCR16-40-C	30	32	40	18	22	6	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.22
S32-FSCK3-SVUCL16-40-C	30	32	40	18	22	6	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.22
S40-FSCK4-SVUCR16-48-C	33	40	48	22	27	7	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.38
S40-FSCK4-SVUCL16-48-C	33	40	48	22	27	7	VC..1604	M3.5-7.6-5.1-60	T15	3.0	0.38

• 長度單位 Unit of Length (mm)

MTUN 模組化內徑車刀
MTUN MODULAR TURNING TOOL HEAD

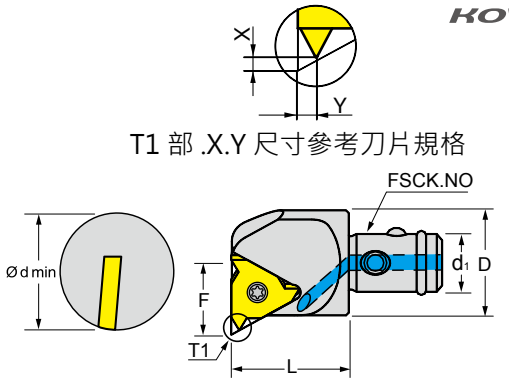
KOVIT



規格 Spec.	L	D	最小加工徑 d	d1	F	刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	壓板 Clamp	壓板螺絲 Screw	扳手 Wrench	重量 (KGS) Weight
S20-FSCK1-MTUNR16-25-C	29	20	25	11	13	TN..1604	-	MLP33L	PL2	MC515	MS520	PL2.5/PL2.0	0.08
S20-FSCK1-MTUNL16-25-C	29	20	25	11	13	TN..1604	-	MLP33L	PL2	MC515	MS520	PL2.5/PL2.0	0.08
S25-FSCK2-MTUNR16-32-C	30	25	32	14	17	TN..1604	-	MLP33L	PL2	MC620	MS620	PL3/PL2.0	0.12
S25-FSCK2-MTUNL16-32-C	30	25	32	14	17	TN..1604	-	MLP33L	PL2	MC620	MS620	PL3/PL2.0	0.12
S32-FSCK3-MTUNR16-40-C	34	32	40	18	20	TN..1604	TMS322	MLP34L	PL2	MC620	MS625	PL3/PL2.0	0.22
S32-FSCK3-MTUNL16-40-C	34	32	40	18	20	TN..1604	TMS322	MLP34L	PL2	MC620	MS625	PL3/PL2.0	0.22
S40-FSCK4-MTUNR16-47-C	35	40	47	22	26	TN..1604	TMS322	MLP34L	PL2	MC620	MS625	PL3/PL2.0	0.38
S40-FSCK4-MTUNL16-47-C	35	40	47	22	26	TN..1604	TMS322	MLP34L	PL2	MC620	MS625	PL3/PL2.0	0.38
S50-FSCK5-MTUNR16-57-C	36	50	57	28	31	TN..1604	TMS322	MLP34L	PL2	MC620	MS625	PL3/PL2.0	0.50
S50-FSCK5-MTUNL16-57-C	36	50	57	28	31	TN..1604	TMS322	MLP34L	PL2	MC620	MS625	PL3/PL2.0	0.50

SIR 模組化內徑車刀
SIR MODULAR TURNING TOOL HEAD

KOVIT

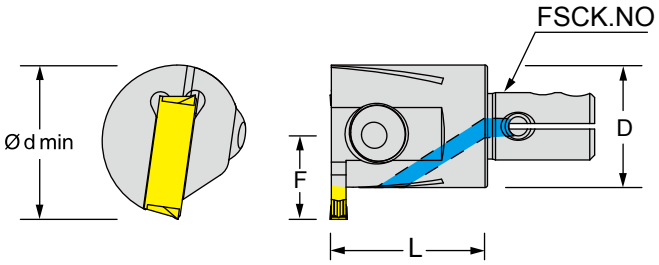


規格 Spec.	L	D	d	d1	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	墊片 Shim	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-SIR16-24-C	22	20	24	11	13.7	16IR	M3.5-7.6-5.1-60	T15	3.0	-	-	-	-	0.78
S25-FSCK2-SIR16-29-C	27	25	29	14	16.2	16IR	M3.5-12.0-5.4-67	T15	3.0	GXN16	HTM3	P2.5	5.0	0.14

• 長度單位 Unit of Length (mm)

DGIR 模組化內徑切槽刀
DGIR MODULAR TURNING TOOL HEAD

KOVIT



規格 Spec.	L	D	最小加工徑 d	F	最大切深 Ap	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-DGIR2-26-C	25	20	26	15.2	5	DGN2	M5-0.8P-16L	PL3	5.0	-
S20-FSCK1-DGIR2-31-C	25	20	31	20.2	10	DGN2	M5-0.8P-16L	PL3	5.0	-
S20-FSCK1-DGIR2-36-C	25	20	36	25.2	15	DGN2	M5-0.8P-16L	PL3	5.0	-
S20-FSCK1-DGIR3-26-C	25	20	26	15.2	5	DGN3	M5-0.8P-16L	PL3	5.0	-
S20-FSCK1-DGIR3-31-C	25	20	31	20.2	10	DGN3	M5-0.8P-16L	PL3	5.0	-
S20-FSCK1-DGIR3-36-C	25	20	36	25.2	15	DGN3	M5-0.8P-16L	PL3	5.0	-
S25-FSCK2-DGIR2-31-C	25	25	31	17.7	5	DGN2	M5-0.8P-16L	PL4	5.0	0.14
S25-FSCK2-DGIR2-36-C	25	25	36	22.7	10	DGN2	M5-0.8P-16L	PL4	5.0	0.15
S25-FSCK2-DGIR2-41-C	25	25	41	27.7	15	DGN2	M5-0.8P-16L	PL4	5.0	0.15
S25-FSCK2-DGIR3-31-C	25	25	31	17.7	5	DGN3	M5-0.8P-16L	PL4	5.0	0.15
S25-FSCK2-DGIR3-36-C	25	25	36	22.7	10	DGN3	M5-0.8P-16L	PL4	5.0	0.15
S25-FSCK2-DGIR3-41-C	25	25	41	27.7	15	DGN3	M5-0.8P-16L	PL4	5.0	0.16

ISO 分類													
P	合金鋼 Alloyed Steels	○											
M	不鏽鋼 Stainless Steels	○											
K	鑄鐵 Cast Iron	○											
N	鋁及鋁合金 Aluminum&Al												
S	高溫合金 Refractory Alloys												
H	高硬度材 Hard Material												

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain CHF											尺寸 (mm) Size				圖形 Drawing
		RM4025											d	i	s	r	
	DGN2202-J1	●											19.8	2.2	-	0.2	
	DGN3102-J1	●											20.1	3.1	-	0.2	

• 長度單位 Unit of Length (mm)

扳手模組化示意圖
Wrench Modular combination

TW扭力起子
Torque Screwdriver

0.5~5 Nm
(固定式Fixed)

BIT延長接桿
Extension

起子頭 1/4"
Bits Torx

25mm (T5-T20)

50mm (T5-T20)

HSS(T5-T20)

100mm(T10-T20)

螺絲
Screw

TW扭力起子
Torque Screwdriver

6~12 Nm
(固定式Fixed)

起子頭 1/4"
Bits Torx

100mm(P4-P10)

25mm (T25)

50mm (T25)

螺絲
Screw

(後拉螺絲)
(Slim-Fit Screw)

LM-TW 扭力扳手
Torque Spanner

LM-DTW 多功能扭力扳手
Multi-Function Torque Spanner

螺帽扳手
Nut Spanner

替換式拉頭扳手
Indexable Spanner For Pull Stud

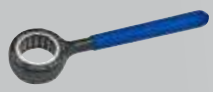
螺帽
Nuts

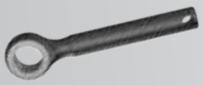
ER 標準型
ER Standard

SKS系列
SKS System

無風阻系列
Non Wind Resistance

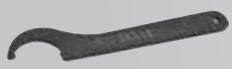
軸承扳手
Spanner





(ER16M-WH)
(適用走心式機台)
(Applicable Threading Machines)

勾扳手
Spanner



ER扳手
Spanner

拉頭專用扳手
Spanner For Pull Stud
(BT30-BT50)

拉頭
Pull Studs

扳手
Spanner
(T5-T20)

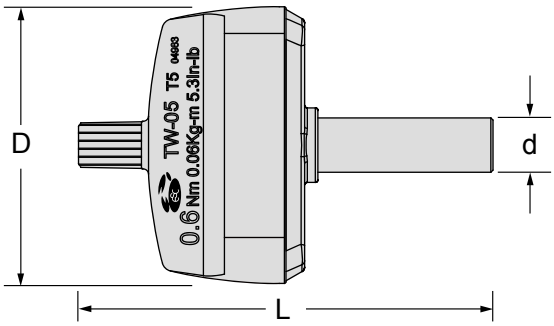
螺絲
Screw

扳手
Spanner
(P1.5-P8)

螺絲
Screw

TW 扭力起子
TW TORQUE SCREWDRIVER

KOVIT



TW 扭力起子 1PC 套裝組
Torque Screwdriver 1PC Set

特點 Feature

- 適用於需要固定扭力設定要求的工業和工作
- 符合人體工學的 T 型握把設計，操作容易，使用安全
- 更換式接桿，方便使用者依不同使用場合而調整
- 當施力到達固定扭力時，握把會有一回轉力及 " 喀擦 " 聲來提醒使用者，以避免超過扭力值而造成物件損壞

-Ideal for tasks required specific torque.
-Ergonomic T-Handle. Easy and safe to operate.
-Indexable, can be used under different occasions.
-There will be a “Clicking sound” when reach the specific torque as a reminder to user from damaging workpiece.

規格 Spec.	L	D	d	建議使用起子頭 Bits torx	扭力值 Torque		重量 (KGS) Weight
					N.m	In-lb	
TW-05	76.25	52	10	T5	0.6	5.3	0.05
TW-06	76.25	52	10	T6	0.6	5.3	0.05
TW-09	76.25	52	10	T7	0.9	8.0	0.05
TW-12	76.25	52	10	T8	1.2	10.6	0.05
TW-14	76.25	52	10	T9	1.4	12.4	0.05
TW-20	76.25	52	10	T10	2.0	17.7	0.05
TW-30	76.25	52	10	T15	3.0	26.6	0.05
TW-50	76.25	52	10	T20	5.0	44.3	0.05
TW-60-SB	64.5	80.5	12	P5	6.0	53	0.08
TW-80-SB	64.5	80.5	12	T25/P6	8.0	70.8	0.08
TW-120-SB	64.5	80.5	12	P8	12.0	106.2	0.08

TW 扭力起子
Torque Screwdriver

BIT 延長接桿
BIT Bits Holder

25mm 起子頭
Bits Torx

50mm 起子頭
Bits Torx

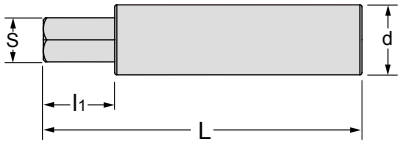
HSS 起子頭
HSS Bits Torx

• 長度單位 Unit of Length (mm)

BIT 延長桿
EXTENSION BIT

1/4"

KOVIT



特點 Feature

- DIN 7427 Form D
- 六方驅動 E6.3(1/4")，符合 DIN3126，磁性，及內方驅動 D6.3(1/4") 符合 DIN3126

-DIN 7427 Form D.
-Hexagon driver E6.3(1/4"), conforming to DIN3126 standard, magnetic; Square drive D6.3(1/4"), Conforming to DIN3126.

規格 Spec.	L	l_1	d	S	重量 (KGS) Weight
BIT-1/4"-50L	45	10	10	1/4"	0.02

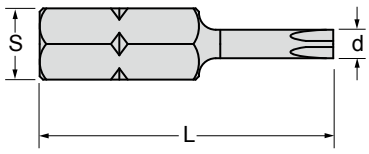
25mm、50 起子頭
25mm、50mm SCREWDRIVE BITS

1/4"

KOVIT

25mm

50mm



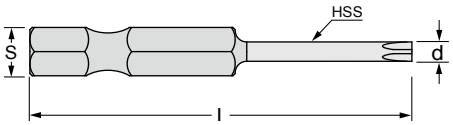
規格 Spec.	L	d	S	重量 (KGS) Weight
BIT-T5-25L	25	T5	1/4"	0.004
BIT-T6-25L	25	T6	1/4"	0.004
BIT-T7-25L	25	T7	1/4"	0.004
BIT-T8-25L	25	T8	1/4"	0.004
BIT-T9-25L	25	T9	1/4"	0.004
BIT-T10-25L	25	T10	1/4"	0.004
BIT-T15-25L	25	T15	1/4"	0.004
BIT-T20-25L	25	T20	1/4"	0.004

規格 Spec.	L	d	S	重量 (KGS) Weight
BIT-T5-50L	50	T5	1/4"	0.01
BIT-T6-50L	50	T6	1/4"	0.01
BIT-T7-50L	50	T7	1/4"	0.01
BIT-T8-50L	50	T8	1/4"	0.01
BIT-T9-50L	50	T9	1/4"	0.01
BIT-T10-50L	50	T10	1/4"	0.01
BIT-T15-50L	50	T15	1/4"	0.01
BIT-T20-50L	50	T20	1/4"	0.01

HSS 起子頭
HSS SCREWDRIVE BITS

1/4"

KOVIT



規格 Spec.	L	d	S	重量 (KGS) Weight
BIT-T5-55L-HSS	55	T5	1/4"	0.01
BIT-T6-55L-HSS	55	T6	1/4"	0.01
BIT-T7-55L-HSS	55	T7	1/4"	0.01
BIT-T8-55L-HSS	55	T8	1/4"	0.01
BIT-T9-55L-HSS	55	T9	1/4"	0.01
BIT-T10-56L-HSS	56	T10	1/4"	0.01
BIT-T15-56L-HSS	56	T15	1/4"	0.01
BIT-T20-56L-HSS	56	T20	1/4"	0.01

100mm 起子頭
100mm SCREWDRIVE BITS

1/4"

KOVIT

規格 Spec.	L	d	S	重量 (KGS) Weight
BIT-T10-100L	100	T10	1/4"	0.02
BIT-T15-100L	100	T15	1/4"	0.02
BIT-T20-100L	100	T20	1/4"	0.02
BIT-P4-100L	100	P4	1/4"	0.02
BIT-P5-100L	100	P5	1/4"	0.02
BIT-P6-100L	100	P6	1/4"	0.04
BIT-P8-100L	100	P8	1/4"	0.04
BIT-P10-100L	100	P10	1/4"	0.06

• 長度單位 Unit of Length (mm)

TW 扭力起子 / 國旗扳手收納架
TW TORQUE SCREWDRIVE /WRENCH STORAGE RACK

KOVIT

Fig.1

Fig.2

範例 Example

特點 Feature

- 收納方便

- Conveniently storing all the screw drivers.

規格 Spec.	L	W	H	Fig.	重量 (KGS) Weight
TW-SR-225	225	100	89	1	0.56
T-SR-100	100	60	58	2	0.15

TW 扭力起子 / 國旗扳手收納架套裝組
TW TORQUE SCREWDRIVER/WRENCH STORAGE RACK SET

KOVIT

Fig.1

Fig.2

規格 Spec.	內容物 Contents					Fig.	重量 (KGS) Weight
	收納架 Storage Rack	扭力起子 Torque	延長接桿 Bits Holder	起子頭 Bits Torx	數量 Qty		
TW-SR-225-8P-SET	TW-SR-225	TW-05	BIT-1/4"-50L	BIT-T5-25L	1	1	1.00
		TW-06		BIT-T6-25L			
		TW-09		BIT-T7-25L			
		TW-12		BIT-T8-25L			
		TW-14		BIT-T9-25L			
		TW-20		BIT-T10-25L			
		TW-30		BIT-T15-25L			
		TW-50		BIT-T20-25L			

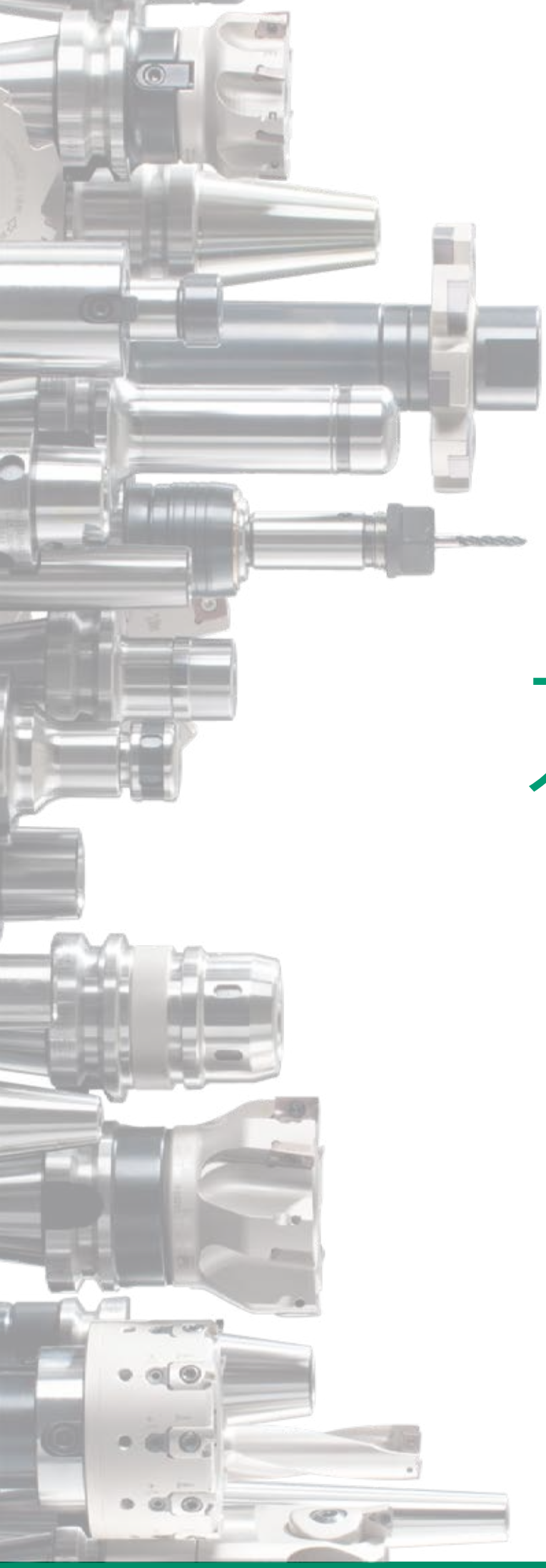
規格 Spec.	內容物 Contents			Fig.	重量 (KGS) Weight
	收納架 Storage Rack	國旗扳手 Wrench	數量 Qty.		
T-SR-100-SET	T-SR-100	T5	1	2	0.3
		T6			
		T7			
		T8			
		T9			
		T10			
		T15			
		T20			

TORX-8PCS 扳手
TORX-8PCS WRENCH SET

KOVIT

規格 Spec.	內容物 Contents			重量 (KGS) Weight
	扳手 Wrench	扭力值 Torque (N.m)	數量 Qty	
TORX 8P-SET	T5K	0.6	1	0.82
	T6K	0.6		
	T7K	0.9		
	T8K	1.2		
	T9K	1.4		
	T10K	2.0		
	T15K	3.0		
	T20K	5.0		

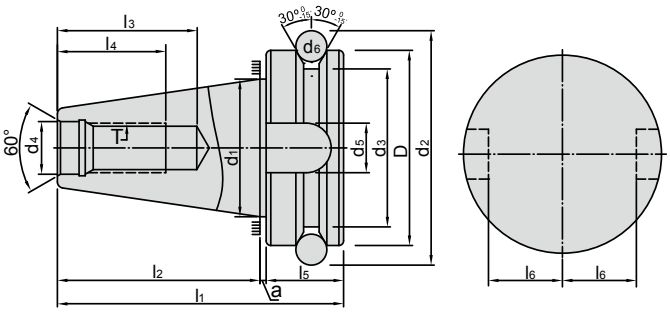
• 長度單位 Unit of Length (mm)



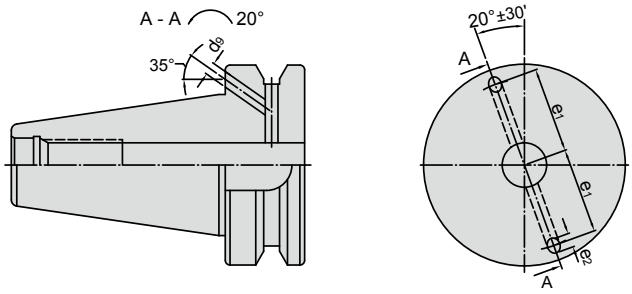
刀桿系列

Tooling System

MAS403/BT A



MAS403/BT AD+B



規格 Spec.	D h8	d_1	d_2	d_3	d_4 H8	d_5 H12	d_6	d_9 H12	a ±0.4
BT30	46	31.75	56.14	38	12.5	16.1	8	-	2
BT40	63	44.45	75.679	53	17	16.1	10	4	2
BT50	100	69.85	119.02	83	25	25.7	15	6	3

規格 Spec.	l_1	l_2 ±0.2	l_3 min	l_4 min	l_5	l_6 0 -0.2	e_1 ±0.1	e_2 Max	T 6H
BT30	70.4	48.4	34	24	20	16.3	-	-	M12-1.75P
BT40	92.4	65.4	43	30	25	22.6	27	5	M16-2.0P
BT50	139.8	101.8	62	45	35	35.4	42	7	M24-3.0P

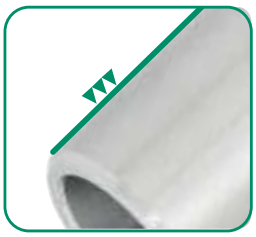
1. 錐度精度 : <AT3
2. 硬度 : >HRC 56°
3. 滲碳深度 : >0.8mm
4. 真圓度 : < 0.8μm
5. 表面粗糙度 : Ra< 0.25μm
6. 本體規範 : JIS MAS 403

1.Taper tolerance < AT3.
2.Hardness > HRC 56°
3.Carbon depth > 0.8mm.
4.Roundness < 0.8μm.
5.Surface roughness : Ra < 0.25μm.
6.Shank body standard : JIS MAS 403.

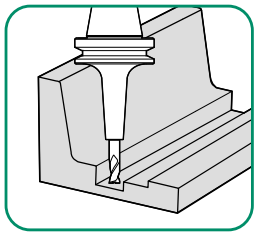
• 長度單位 Unit of Length (mm)

BT/SBL 後拉式立銑刀夾頭
BT/SBL SLIM-FIT COLLET CHUCK

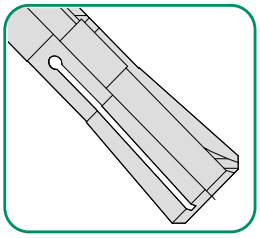
JIS
MAS 403



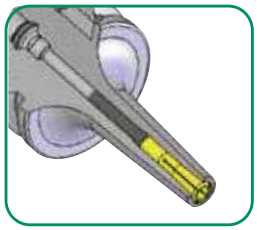
刀桿全研磨，標準動平衡G2.5 25000rpm
Tool holder with polishing and fully balanced is up to G2.5 36000 rpm.



前端小徑設計，
降低干涉的情形。
The slim design reduces interference while machining.



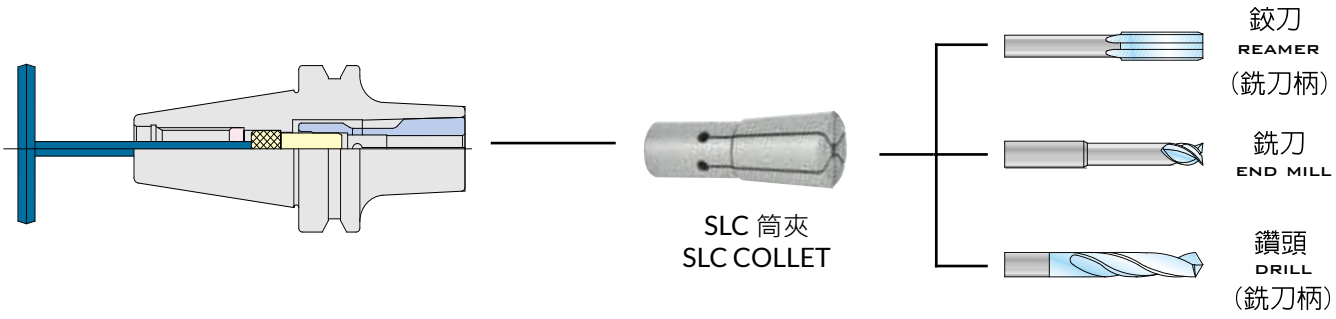
內孔4°錐角設計，
方便刀具鬆脫並加大夾持力，
提高穩定性。
Inner hole coning angle design for a strong clamping force that could increase the stability and quick tool change.



內藏式筒夾設計，無需使用螺帽，
更適合高速加工。
The built-in collet does not need a clamping nut and is perfect for high speed processing.

標準動平衡 G2.5 25000rpm。
Standard balance of G2.5 at 25000 rpm.

SBL 後拉式使用方式：
SBL Slim-fit Application Method:



- 本體規格：BT、DAT、CAT、HSK、C
- 筒夾規格：SLC6、SLC12、SLC20

- Spindle Taper : BT、DAT、CAT、HSK、C.
- Collet type : SLC6、SLC12、SLC20.

• 長度單位 Unit of Length (mm)

BT/SBL 後拉式立銑刀夾頭
BT/SBL SLIM-FIT COLLET CHUCK

JIS
MAS 403

Fig.1

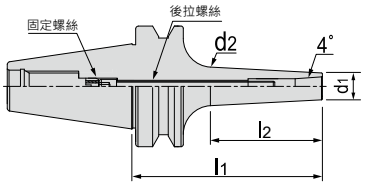
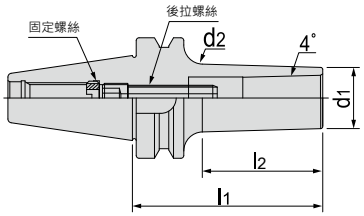


Fig.2



特點 Feature

- 偏擺精度 : 5μm(4D)
- 標準動平衡 G2.5 25000rpm

-Precision 5μm up to 4D length.
-Dynamic balancing G2.5 at 25000rpm.

規格 Spec.	夾持範圍 Clamping Range	筒夾 Collet	l_1	l_2	d_1	d_2	後拉螺絲 Slim-Fit Screw	固定螺絲 Fixed Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
BT30-SBL6-70	2~6	SLC6	70	38	14	18.1	SBL6-M6-40L	SBL6-M12	PT5	6.0	1	1.00
BT30-SBL6-100	2~6	SLC6	100	68	14	21.2	SBL6-M6-70L	SBL6-M12	PT5	6.0	1	0.60
BT30-SBL12-70	3~12	SLC12	70	47	26	33.4	SBL12-M10-25L	SBL12-M15	PT6	10.0	2	0.63
BT30-SBL12-100	3~12	SLC12	100	77	26	38.1	SBL12-M10-25L	SBL12-M15	PT6	10.0	2	0.84
BT30-SBL20-80	3~20	SLC20	80	55	34	37.7	SBL20-M12-30L	SBL20-M18	PT8	12.0	2	0.68
BT30-SBL20-100	3~20	SLC20	100	77	34	39.2	SBL20-M12-30L	SBL20-M18	PT8	12.0	2	0.85
BT40-SBL6-70	2~6	SLC6	70	28	14	17.1	SBL6-M6-50L	SBL6-M16	PT5	6.0	1	1.20
BT40-SBL6-100	2~6	SLC6	100	58	14	20.1	SBL6-M6-75L	SBL6-M16	PT5	6.0	1	1.20
BT40-SBL12-70	3~12	SLC12	70	33	26	31	SBL12-M10-25L	SBL12-M16	PT6	10.0	2	1.30
BT40-SBL12-100	3~12	SLC12	100	63	26	31.6	SBL12-M10-55L	SBL12-M16	PT6	10.0	2	1.38
BT40-SBL20-70	3~20	SLC20	70	33	35	38.1	SBL20-M12-30L	SBL20-M16	PT8	12.0	2	1.50
BT40-SBL20-100	3~20	SLC20	100	68	35	41	SBL20-M12-52L	SBL20-M16	PT8	12.0	2	1.45
BT50-SBL6-70	2~6	SLC6	70	17	14	15.9	SBL6-M6-50L	SBL6-M16	PT5-S	6.0	1	4.00
BT50-SBL6-100	2~6	SLC6	100	47	14	19.1	SBL6-M6-40L	SBL6-M16	PT5-S	6.0	1	3.93
BT50-SBL12-70	3~12	SLC12	70	22	26	28.1	SBL12-M10-25L	SBL12-M16	PT6-S	10.0	2	4.00
BT50-SBL12-100	3~12	SLC12	100	52	26	30.6	SBL12-M10-55L	SBL12-M16	PT6-S	10.0	2	4.30
BT50-SBL20-70	3~20	SLC20	70	22	35	36.9	SBL20-M12-30L	SBL20-M16	PT8-S	12.0	2	3.90
BT50-SBL20-100	3~20	SLC20	100	52	35	39.6	SBL20-M12-52L	SBL20-M16	PT8-S	12.0	2	4.70

PT 型扳手 PT-Type Wrench

規格 Spec.	S	L	扭力值 (N.m) Torque
PT5	5	70	6.0
PT5-S		130	
PT6	6	70	10.0
PT6-S		130	
PT8	8	140	12.0

止動螺帽 Stop Nut

規格 Spec.	L
SBL6-SN	17

固定螺絲 Fixed Screw

規格 Spec.	規格 Spec.
SBL6-M12	SBL12-M16
SBL6-M16	SBL20-M16
SBL12-M15	SBL20-M18

後拉螺絲 Slim-Fit Screw

規格 Spec.	L	規格 Spec.	L
SBL6-M6-30L	30	SBL6-M6-80L	80
SBL6-M6-35L	35	SBL6-M6-95L	95
SBL6-M6-40L	40	SBL6-M6-127L	127
SBL6-M6-50L	50	SBL12-M10-25L	25
SBL6-M6-65L	65	SBL12-M10-55L	55
SBL6-M6-70L	70	SBL20-M12-30L	30
SBL6-M6-72L	72	SBL20-M12-52L	52
SBL6-M6-75L	75		

選配表 Option

拉頭 Pull Stud	筒夾 Collet
B645-B647	B630

• 長度單位 Unit of Length (mm)

直柄 SBL 小徑延長桿
STRAIGHT SHANK SBL COLLET CHUCK

JIS
MAS 403

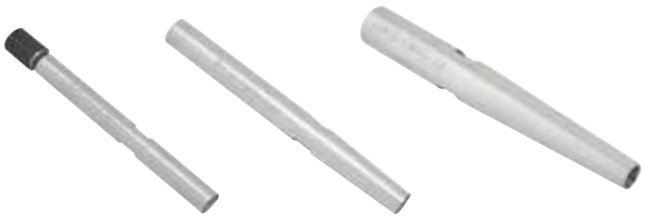


Fig.1

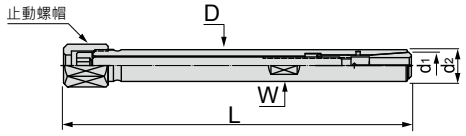
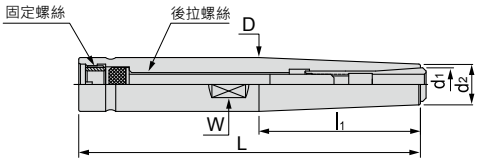


Fig.2



規格 Spec.	L	l_1	D	d_1	d_2	W	後拉螺絲 Slim-Fit Screw	固定螺絲 Fixed Screw	止動螺帽 Stop Nut	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
C12-SBL6-120	120	-	12	9.93	12	10	SBL6-M6-95	-	SBL6-SN	PT5	6	1	0.12
C12-SBL6-150	150	-	12	9.93	12	10	SBL6-M6-127	-	SBL6-SN	PT5	6	1	0.14
C16-SBL6-120	120	48	16	9.93	12	14	SBL6-M6-70	M11-1.0P	-	PT5	6	2	0.16
C16-SBL6-150	150	48	16	9.93	12	14	SBL6-M6-40	M11-1.0P	-	PT5-S	6	2	0.2
C16-SBL6-200	200	48	16	9.93	12	14	SBL6-M6-80	M11-1.0P	-	PT5-S	6	2	0.24
C20-SBL6-120	120	76.5	20	9.93	12	17	SBL6-M6-70	M11-1.0P	-	PT5	6	2	0.19
C20-SBL6-150	150	86	20	9.93	12	17	SBL6-M6-40	M11-1.0P	-	PT5-S	6	2	0.25
C20-SBL6-200	200	76.5	20	9.93	12	17	SBL6-M6-72	M11-1.0P	-	PT5-S	6	2	0.35
C25-SBL6-120	120	60	25	9.93	14	22	SBL6-M6-30	M11-1.0P	-	PT5	6	2	0.38
C25-SBL6-150	150	60	25	9.93	14	22	SBL6-M6-35	M11-1.0P	-	PT5-S	6	2	0.44
C25-SBL6-200	200	60	25	9.93	14	22	SBL6-M6-75	M11-1.0P	-	PT5-S	6	2	0.6
C25-SBL12-120	120	50	25	18	22	22	SBL12-M10-25	M16-2.0P	-	PT6	10	2	0.28
C25-SBL12-150	150	50	25	18	22	22	SBL12-M10-55	M16-2.0P	-	PT6	10	2	0.39
C25-SBL12-200	200	50	25	18	22	22	SBL12-M10-55	5/8"-11UNC	-	PT6-S	10	2	0.55

- 附扳手 Comes with a spanner.

直柄 SBL 小徑延長桿套裝組
STRAIGHT SHANK SBL COLLET CHUCK SET

規格 Spec.	內容物 Contents						重量 (KGS) Weight
	延長桿 Chuck	止動螺帽 Stop Nut	筒夾 Collet	扳手 Wrench	扭力值 (N.m) Torque	數量 Qty	
C12-SBL6-120-3P	C12-SBL6-120	SBL6-SN	SLC6-3	PT5	6.0	1	0.60
			SLC6-4				
			SLC6-6				
C16-SBL6-150-3P	C16-SBL6-150	-	SLC6-3	PT5-S			0.66
			SLC6-4				
			SLC6-6				

• 長度單位 Unit of Length (mm)

燒結系統化示意圖
Modular Shrink-Fit System Illustration

不鏽鋼熱膨脹刀桿專用
For Stainless Shrink-Fit Chuck

加熱設備 Heater

LM-HM-12400
熱風式加熱器
Hot-Air Heater

LM-HM-12400-TC
熱風式加熱器-自動計時型
Hot Air Heater - Auto Timer Type

刀桿 Chuck

SFS後拉式刀桿
SFS Slim-Fit Collet Chuck

M F S 熱 膨 脹 延 長 桿
MFS Shrink-Fit Extension

HSK-SFW不鏽鋼熱膨脹刀桿
HSK-SFW Shrink-Fit Chuck

C-SFW不鏽鋼熱膨脹延長桿
C-SFW Straight Shank of
Shrink-Fit Chuck

刀具 Cutting Tool

EM碳化鎢鋼立銑刀
Tungsten Carbide End Mills

BE碳化鎢鋼球型立銑刀
Tungsten Carbide Ball End Mills

RE碳化鎢鋼圓鼻立銑刀
Tungsten Carbide Ball End Mills

工具鋼熱膨脹刀桿專用
For Hot Work Steel Shrink-Fit Chuck

SFC-300電磁誘導加熱器
Shrink-Fit Machine

SFC-1000電磁誘導加熱器
Shrink-Fit Machine

BT/SFCT熱膨脹刀桿
BT/SFCT Shrink-Fit Chuck

PSC/SFC熱膨脹刀桿
PSC/SFC Shrink Fit Chuck

SBT/SFCT 法蘭加厚型熱膨脹刀桿
DualDRIVE+ SBT/SFCT
Shrink Fit Chuck

SFC熱膨脹刀桿(出水孔型)
SFC Shrink Fit Chuck
(With CP Coolant Hole)

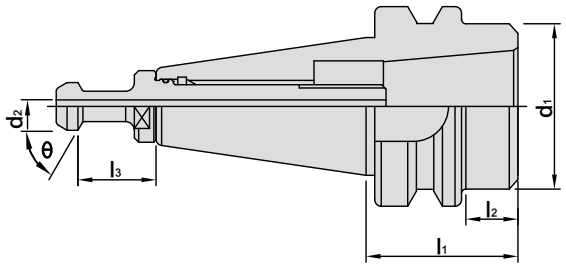
HSK/SFCT熱膨脹刀桿
HSK/SFCT Shrink-Fit Chuck
(FOR TYPE E)

SFC熱膨脹刀桿(威力曲線型)
SFC Shrink Fit Chuck
(CUL Type)

C-SFC不鏽鋼熱膨脹延長桿
C-SFC Straight Shank of
Shrink-Fit Chuck

SFS 後拉式立銑刀夾頭
SLIM-FIT COLLET CHUCK

JIS
MAS 403



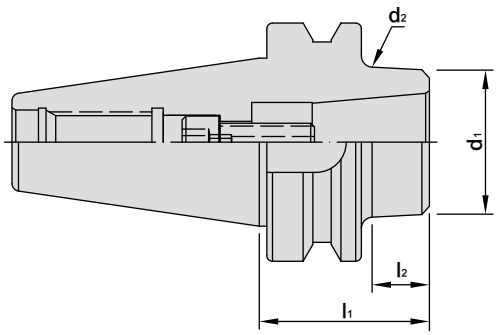
特點 Feature

- 需搭配 MFS 熱膨脹刀桿做使用

-Need to be used with MFS shrink-fit extension.

規格 Spec.	l_1	l_2	l_3	d_1	d_2	θ	重量 (KGS) Weight
SBT30-SFS12-35-A	35	12	18	38.1	3	45°	0.4
SBT30-SFS12-35-B	35	12	18	38.1	3	60°	0.4

※ 含拉頭 With pull studs



規格 Spec.	l_1	l_2	d_1	d_2	重量 (KGS) Weight
SBT40-SFS12-45	45	15.1	38.1	39.6	1.1
SBT40-SFS12-75	75	60.1	38.1	42.8	1.4
SBT40-SFS12-90	90	45.1	38.1	44.4	1.6
SBT50-SFS12-75	75	34.1	38.1	41.6	4.0

※ 不含拉頭 Not included pull studs

※ 其他加長型可依需求接單生產

選配表 Option

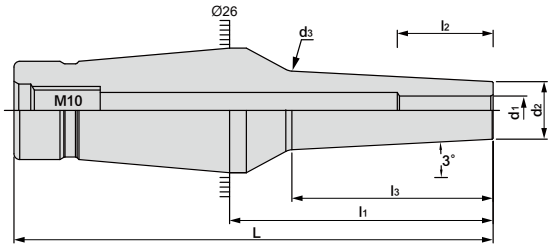
拉頭 Pull Stud	
B645	B645-B647

• 長度單位 Unit of Length (mm)

MFS 熱膨脹延長桿（不鏽鋼）
MFS SHRINK EXTENSION FOR STAINLESS STEEL

JIS
MAS 403

燒結式 Shrink-Fit　壁薄型 Thin



特點 Feature

- 材質 : 不鏽鋼
- 需搭配 SFS 後拉式立銑刀夾頭做使用

-Material: Heat-resistant stainless steel.
-Need to be used with SFS slim-fit collet chuck.

規格 Spec.	L	l_1	l_2	l_3	d_1	d_2	d_3	重量 (KGS) Weight
MFS12S-3mm-35	80	35	10	22	3	6	8.3	0.16
MFS12S-3mm-55	100	55	10	42	3	6	10.4	0.17
MFS12S-3mm-80	125	80	10	67	3	6	13.0	0.20
MFS12S-3mm-110	155	110	10	97	3	6	16.2	0.23
MFS12S-3.175mm-35	80	35	10	22	3.175	6.175	8.5	0.16
MFS12S-3.175mm-55	100	55	10	42	3.175	6.175	10.6	0.17
MFS12S-3.175mm-80	125	80	10	67	3.175	6.175	13.2	0.19
MFS12S-3.175mm-110	155	110	10	97	3.175	6.175	16.3	0.23
MFS12S-4mm-35	80	35	10	22	4	7	9.3	0.16
MFS12S-4mm-55	100	55	10	42	4	7	11.4	0.18
MFS12S-4mm-80	125	80	10	67	4	7	14.0	0.20
MFS12S-4mm-110	155	110	10	97	4	7	17.2	0.24
MFS12S-6mm-35	80	35	20	22	6	9	11.3	0.17
MFS12S-6mm-55	100	55	20	42	6	9	13.4	0.18
MFS12S-6mm-80	125	80	20	67	6	9	16.2	0.21
MFS12S-6mm-110	155	110	20	97	6	9	19.2	0.26
MFS12S-8mm-35	80	35	26	22	8	11	13.3	0.17
MFS12S-8mm-55	100	55	26	42	8	11	15.4	0.19
MFS12S-8mm-80	125	80	26	67	8	11	18.0	0.23
MFS12S-8mm-110	155	110	26	97	8	11	21.2	0.29
MFS12S-10mm-35	80	35	32	22	10	13	15.3	0.17
MFS12S-10mm-55	100	55	32	42	10	13	17.4	0.20
MFS12S-10mm-80	125	80	32	67	10	13	20.0	0.24
MFS12S-10mm-110	155	110	32	97	10	13	23.2	0.32
MFS12S-12mm-35	80	35	37	22	12	15	17.3	0.17
MFS12S-12mm-55	100	55	37	42	12	15	19.4	0.20
MFS12S-12mm-80	125	80	37	67	12	15	22.0	0.26
MFS12S-12mm-110	155	110	37	97	12	15	25.2	0.35

選配表 Option

加熱器 Hot-Air

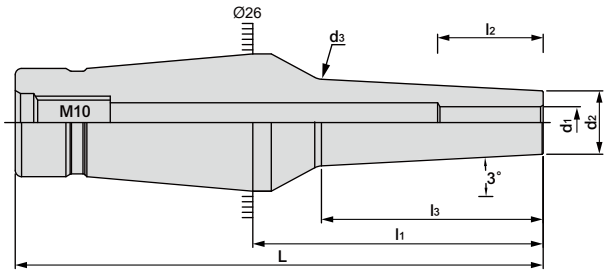
B399-B400

• 長度單位 Unit of Length (mm)

MFS 熱膨脹延長桿（不鏽鋼）
MFS SHRINK EXTENSION FOR STAINLESS STEEL

JIS
MAS 403

燒結式 Shrink-Fit　標準型 Standard



特點 Feature

- 材質 : 不鏽鋼
- 需搭配 SFS 後拉式立銑刀夾頭做使用

-Material: Heat-resistant stainless steel.
-Need to be used with SFS slim-fit collet chuck.

規格 Spec.	L	l_1	l_2	l_3	d_1	d_2	d_3	重量 (KGS) Weight
MFS12R-3mm-35	80	35	10	22	3	7.5	9.8	0.2
MFS12R-3mm-55	100	55	10	42	3	7.5	11.9	0.2
MFS12R-3mm-80	125	80	10	67	3	7.5	14.5	0.2
MFS12R-4mm-35	80	35	10	22	4	10	12.3	0.2
MFS12R-4mm-55	100	55	10	42	4	10	14.4	0.2
MFS12R-4mm-80	125	80	10	67	4	10	17	0.2
MFS12R-6mm-35	80	35	20	22	6	12	14.3	0.2
MFS12R-6mm-55	100	55	20	42	6	12	16.4	0.2
MFS12R-6mm-80	125	80	20	67	6	12	19	0.2
MFS12R-8mm-35	80	35	26	22	8	14	16.3	0.2
MFS12R-8mm-55	100	55	26	42	8	14	18.4	0.2
MFS12R-8mm-80	125	80	26	67	8	14	21	0.3
MFS12R-10mm-35	80	35	32	22	10	16	18.3	0.2
MFS12R-10mm-55	100	55	32	42	10	16	20.4	0.2
MFS12R-10mm-80	125	80	32	67	10	16	23	0.3
MFS12R-12mm-35	80	35	37	22	12	20	22.3	0.2
MFS12R-12mm-55	100	55	37	42	12	20	24.4	0.2
MFS12R-12mm-80	125	80	37	51.5	12	20	25.4	0.3

選配表 Option

加熱器 Hot-Air

B399-B400

• 長度單位 Unit of Length (mm)

SFW 熱膨脹延長桿（不鏽鋼）
SFW SHRINK EXTENSION FOR STAINLESS STEEL

JIS
MAS 403
B6339

燒結式 Shrink-Fit

NEW

Fig.1

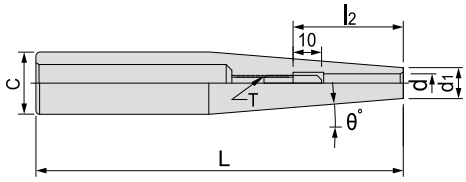
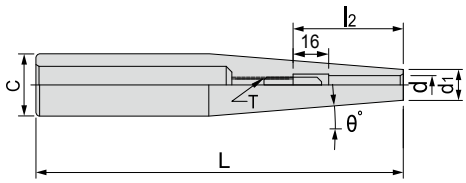


Fig.2



特點 Feature

- 搭配任何筒夾式刀桿使用，應用廣泛且便利
- 精度 5μ

-Compatible with all collet type tool holder. Wide application and economical
-Precision 5μ.

規格 Spec.	C	L	l_2	d	d_1	θ	T	Fig.	重量 (KGS) Weight
C10-SFW4-120	10	120	12	4	7	3°	-	1	0.06
C12-SFW6-120	12	120	18	6	10	3°	-	1	0.12
C20-SFW10-150	10	150	30	10	14	3°	M5-0.8P	2	0.12
C20-SFW8-150	20	150	24	8	12	3°	M6-1.0P	1	0.18
C20-SFW6-150	20	150	28	6	10	3°	M5-0.8P	2	0.20
C16-SFW4-150	16	150	12	4	7	3°	-	2	0.25
C16-SFW6-150	16	150	18	6	9	3°	-	1	0.28
C20-SFW4-200	20	200	12	4	7	3°	-	1	0.24
C20-SFW6-200	20	200	28	6	10	3°	-	2	0.64
C20-SFW8-200	20	200	24	8	12	3°	-	1	0.66

選配表 Option

加熱器 Hot-Air

B398-B399

• 長度單位 Unit of Length (mm)

LM-HM-12400 熱風式加熱器（不鏽鋼）
LM-HM-12400 HOT-AIR HEATER FOR STAINLESS STEEL

JIS
MAS 403
B6339

不鏽鋼刀桿專用
For Stainless Steels Tool Holder

NEW

- 適用刀桿 : MFS　　- Applicable chuck: MFS

規格 Spec.	LM-HM-12400
尺寸（長 x 寬 x 高）**Size(DxWxH)**	527.7x329x656(mm)
輸出電源 **Power output**	220V AC, 50/60 Hz 15A
瞬間輸出最大功率 Maximum output	3000 瓦 (W)
建議使用範圍 Tool size range	適用於 ø3(1/8") ~ ø12(1/2")
使用氣壓壓力範圍 Pneumatic requirements	0.4~0.6(Mpa)
加熱時間 **Heating time**	以 3mm(1/8") 約 90(Sec)
加熱刀桿材質 **Shrink-fit chuck material**	不鏽鋼材質 stainless steel
重量 **(kg)Weight**	17.26(kg)

| 標準配備 Standard Equipment

圖示 Pic.	規格 Spec.	名稱 Description	用途 Use
	LM-HM-12400-031	**電子式倒數計時器** **Digital Countdown Timer**	計時加熱及冷卻時間 Countdown the heating and cooling time
	LM-HM-12400-030	**鑷子** **Tweezer**	夾取待安裝或拆卸下之刀具 Used for grabbing tool
	LM-HM-12400-BT50/HSK100	**刀桿放置座** **Tool Holder Plate**	適合放置 BT50 和 HSK100 之刀桿， 以及轉換其他規格之變徑刀桿座 Applicable for placing BT50 and HSK100 holders, as well as for changing different base holders
	LM-HM-12400-003-2	**加熱罩蓋** **Heating Mantle**	加熱過程中包覆刀桿，使刀桿有效受熱， 適用刀具柄徑 Ø3 ~ Ø6 。To heat the holders evenly. Applicable for tools from ø3mm ~ ø6mm
	LM-HM-12400-003-3		加熱過程中包覆刀桿，使刀桿有效受熱， 適用刀具柄徑 Ø8 ~ Ø12 。To heat the holders evenly. Applicable for tools from ø8mm ~ ø12mm
	LM-HM-12400-033	**AC 轉換插頭（亞規）** **Universal Adaptor**	轉換插頭型式 Power converter

| 選配配件 Option Accesories

圖示 Pic.	規格 Spec.	名稱 Description	用途 Use
	LM-HM-12400-035	**耐熱手套** **Heat resistant glove**	有效阻絕熱源，保護操作者誤觸到高溫 Protection from high temperatures
	LM-HM-12400-034	**銑刀放置盤** **Tool cooling tray**	放置從熱伸長導桿上拆卸下來的刀具用置放台 For placing the tools that have been removed from the shrink-fit chuck
	BT30、BT40、HSK25、HSK32、 HSK40、HSK63	**變徑刀桿座** **Base holder**	用於固定刀桿之變徑刀桿座 Used for fixing different types of base holders

• 長度單位 Unit of Length (mm)

LM-HM-12400-TC 熱風式加熱器（不鏽鋼）
LM-HM-12400 HOT-AIR HEATER FOR STAINLESS STEEL

JIS
MAS 403
B6339

不鏽鋼刀桿專用
For Stainless Steels Tool Holder

自動時間控制
Auto Timer (Stop Automatically Through A Cycle-Heating/Cool Down)

NEW

- 適用刀桿 : MFS
- Applicable chuck: MFS

規格 Spec.	LM-HM-12400-TC
尺寸（長 x 寬 x 高）**Size(DxWxH)**	527.7x329x656(mm)
輸出電源 **Power output**	220V AC, 50/60 Hz 15A
瞬間輸出最大功率 Maximum output	3000 瓦 (W)
建議使用範圍 Tool size range	適用於 ø3(1/8") ~ ø12(1/2")
使用氣壓壓力範圍 Pneumatic requirements	0.4~0.6(Mpa)
加熱時間 **Heating time**	以 3mm(1/8") 約 90(Sec)
加熱刀桿材質 **Shrink-fit chuck material**	不鏽鋼材質 stainless steel
重量 **(kg)Weight**	17.26(kg)

| 標準配備 Standard Equipment

圖示 Pic.	規格 Spec.	名稱 Description	用途 Use
	LM-HM-12400-031	**電子式倒數計時器** **Digital Countdown Timer**	計時加熱及冷卻時間 Countdown the heating and cooling time
	LM-HM-12400-030	**鑷子** **Tweezer**	夾取待安裝或拆卸下之刀具 Used for grabbing tool
	LM-HM-12400-BT50/HSK100	**刀桿放置座** **Tool Holder Plate**	適合放置 BT50 和 HSK100 之刀桿， 以及轉換其他規格之變徑刀桿座 Applicable for placing BT50 and HSK100 holders, as well as for changing different base holders
	LM-HM-12400-003-2	**加熱罩蓋** **Heating Mantle**	加熱過程中包覆刀桿，使刀桿有效受熱， 適用刀具柄徑 Ø3 ~ Ø6 。To heat the holders evenly. Applicable for tools from ø3mm ~ ø6mm
	LM-HM-12400-003-3		加熱過程中包覆刀桿，使刀桿有效受熱， 適用刀具柄徑 Ø8 ~ Ø12 。To heat the holders evenly. Applicable for tools from ø8mm ~ ø12mm
	LM-HM-12400-033	**AC 轉換插頭（亞規）** **Universal Adaptor**	轉換插頭型式 Power converter

| 選配配件 Option Accesories

圖示 Pic.	規格 Spec.	名稱 Description	用途 Use
	LM-HM-12400-035	**耐熱手套** **Heat resistant glove**	有效阻絕熱源，保護操作者誤觸到高溫 Protection from high temperatures
	LM-HM-12400-034	**銑刀放置盤** **Tool cooling tray**	放置從熱伸長導桿上拆卸下來的刀具用置放台 For placing the tools that have been removed from the shrink-fit chuck
	BT30、BT40、HSK25、HSK32、HSK40、HSK63	**變徑刀桿座** **Base holder**	用於固定刀桿之變徑刀桿座 Used for fixing different types of base holders

• 長度單位 Unit of Length (mm)

SFC 電磁誘導加熱原理 (熱脹冷縮)
SFC SHRINK-FIT PRINCIPLE (THERMAL EXPANSION)

JIS
MAS 403
B6339

快速加熱原理 Rapid Heating Principle:

由加熱器內之感應線圈，產生高頻電磁波使刀桿感應渦電流而生熱，加熱迅速，提升換刀效率

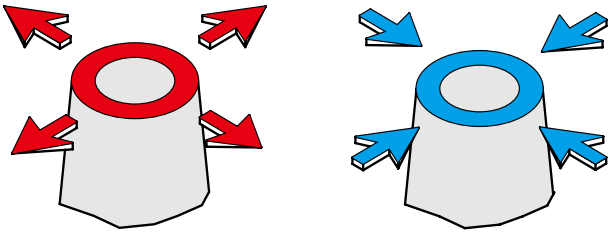
With the induction coil of the Shrink-fit machine, high frequency electro-magnetic waves rapidly to heat the arbor. It leads to quick clamping and unclamping of the tools.

冷卻原理 Cooling Principle:

利用空壓機之風力強制降溫冷卻，使刀桿能迅速到達常溫狀態。(冷卻時間與空壓機馬力大小成反比)

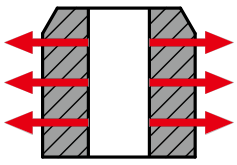
Using the wind of air compressor to make the tool holder cool down quickly. (Cooling time and air compressor power are in inverse proportion.)

例 Example: BT40-SFC12-90



加熱20秒
Heating 20 seconds

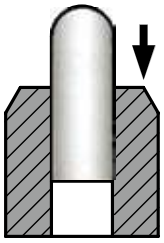
冷卻180秒
Cooling 180 seconds



加熱

將刀桿置加熱器加熱，時間約 20 秒

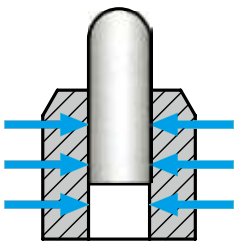
Heating:
Heat the arbor for about 20 seconds.



置入刀具

將刀具置入加熱膨脹後之刀桿

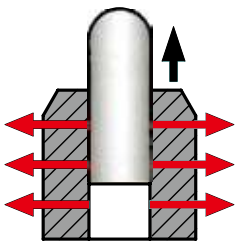
Placing the cutting tool into the expanded arbor on your required height.



固定夾持

溫度冷卻收縮後之刀桿，刀具即強力的挾持住

Fixed clamping:
The tool is clamped firmly when the arbor contracts after it has cooled down.



取出

在加熱刀桿膨脹後，即可輕易取出刀具

Removing:
Expand the arbor by heating it to easily remove the tool.

操作便利安全 Convenient safety instruction:

刀桿被加熱至換刀溫度後，約五秒後自動開啟送風裝置冷卻刀桿，不必移動加熱器，提高操作之安全性

After heating the arbor to the desired temp for changing the tool, the air compressor will automatically turn on after 5 seconds and blow the cool air to cool down for clamping the tool.

• 長度單位 Unit of Length (mm)

SFC 電磁誘導加熱器
SFC SHRINK-FIT MACHINE

JIS
MAS 403
B6339

規格 Spec.	SFC-300	SFC-1000
尺寸 (寬 x 深 x 高) Size(WxDxH)	300X300x685(mm)	650X410X820(mm)
輸出電源 Power output	單相 SINGLE-PHASE 220V、 50/60HZ 15 安培 AMP	三相 3-PHASE 220V 50/60HZ 25 安培 AMP
瞬間輸出最大功率 Maximum output	2000~3000 瓦 (watts)	6000~9000 瓦 (watts)
建議使用範圍 Tool size range	Ø3~Ø20mm、大型加熱罩 Ø25~Ø32mm (另購) Ø3 ~ Ø20mm、 large heating mantle、Ø25 ~ Ø32mm (optional)	適用於 Ø3~Ø32mm 刀具 Suitable for Ø3 ~ Ø32mm Tool
加熱時間 Heating time	-	3~18 秒 (視刀桿尺寸、形狀而定) 3-18 seconds. (It depends on the arbor size and shape)
使用刀具 Cutting tools	限用鎢鋼刀具 Only tungsten steel tools	可使用在 HSS 刀具或一般捨棄式刀具 (Ø10 以上) HSS tools and garden-variety abandon cutting tools
加熱刀桿 Shrink-fit tool holder	合金鋼材質 (不建議加熱不鏽鋼材質) Alloy steel(stainless steel is not recommended for heating)	
重量 (KGS) Weight	18.75(KGS)	63.2(KGS)

選配配件 Optional Accessories

圖示 Pic.	規格 Spec.	名稱 Description	用途 Usage
	HSK25、HSK32、HSK40、 HSK50、HSK63、HSK80	**HSK 變徑刀桿座** **HSK Arbor Base**	用於固定不同規格刀桿尺寸上 For different types of arbor specifications.
	BT30、BT40、 PSC-63A、BT50	**BT 變徑刀桿座** **BT Arbor Base**	
	Ø3~Ø5、Ø6~Ø12、 Ø14~Ø20、Ø25~Ø32	**導熱環** **Thermal Conductive Ring Housing**	有效阻絕熱源、冷空氣與外界接觸 Thermal housing prevents and ensures during heating and cooling the exact place of the arbor.
	Ø84-101	**HSK 變徑刀桿座** **HSK - Arbor Base**	用於固定不同規格刀桿尺寸上 For different types of arbor specifications.
	Ø3、Ø4、Ø6、Ø8、Ø10、Ø12	**刀具夾持器 (需另購)** **Cutting tool holder(Option)**	用於置入、取出刀具使用，並可設定刀具長度 To hold the cutting tool at any height during clamp and easily remove during unclamp.

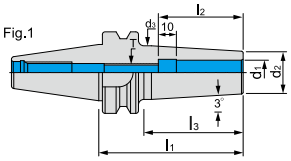
• **長度單位 Unit of Length (mm)**

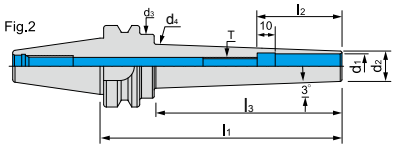
BT/SFCT 熱膨脹刀桿
BT/SFCT SHRINK-FIT CHUCK

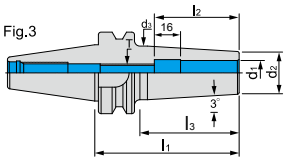
JIS
MAS 403

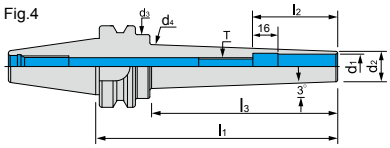
台灣精品2009 TAIWAN EXCELLENCE

燒結式 Shrink-Fit









特點 Feature

- 整支通孔，利於出水及抗震
- 標準動平衡 G2.5 25000rpm

- A through coolant shank which allows water to pass through easily and vibration resistance.
- Dynamic balancing G2.5 at 25000rpm

規格 Spec.	l_1	l_2	l_3	d_1	d_2	d_3	d_4	T	Fig.	重量 (KGS) Weight
BT30-SFCT4-80	80	20	48	4	10	15	-	M6-1.0P	1	0.40
BT30-SFCT4-135	135	20	102	4	10	26	20.6	-	2	0.60
BT30-SFCT6-80	80	36	53	6	21	26	-	M5-0.8P	3	0.44
BT30-SFCT6-135	135	36	101	6	12	26	22.6	M5-0.8P	4	0.64
BT30-SFCT8-80	80	36	53	8	21	26	-	M6-1.0P	1	0.45
BT30-SFCT8-135	135	36	103	8	14	26	24.7	M6-1.0P	2	0.65
BT30-SFCT10-80	80	42	53	10	24	29	-	M8-1.25P	2	0.65
BT30-SFCT10-135	135	42	108	10	16	26	-	M8-1.25P	2	0.70
BT30-SFCT12-80	80	52	53	12	24	29	-	M10-1.5P	1	0.50
BT30-SFCT12-135	135	52	108	12	18	26	-	M10-1.5P	2	0.70
BT30-SFCT16-80	80	52	55	16	27	32	-	M12-1.75P	1	0.54
BT30-SFCT16-135	135	52	101	16	22	36	32.6	M12-1.75P	2	0.74
BT30-SFCT20-90	90	52	66	20	33	38	-	M16-2.0P	1	0.80
BT30-SFCT20-135	135	52	111	20	26	36	-	M16-2.0P	2	0.78
BT30-SFCT25-100	100	58	78	25	44	49	-	M20-2.0P	2	0.60
BT30-SFCT25-160	160	58	136	25	31	36	-	M20-2.0P	2	0.80

選配表 Option

拉頭 Pull Stud	加熱器 Heater
B645-B647	B402

• 長度單位 Unit of Length (mm)

BT/SFCT 熱膨脹刀桿
BT/SFCT SHRINK-FIT CHUCK

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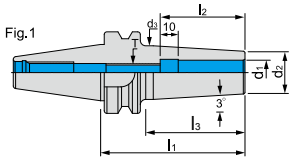
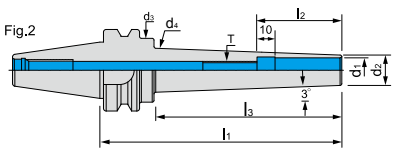
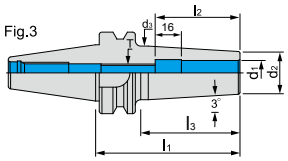
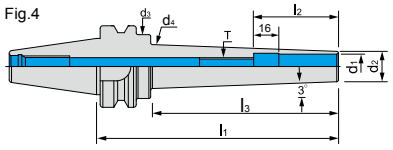
TAIWAN EXCELLENCE

燒結式 Shrink-Fit









特點 Feature

- 整支通孔，利於出水及抗震
- 標準動平衡 G2.5 25000rpm

- A through coolant shank which allows water to pass through easily and vibration resistance.
- Dynamic balancing G2.5 at 25000rpm

規格 Spec.	l_1	l_2	l_3	d_1	d_2	d_3	d_4	T	Fig.	重量 (KGS) Weight
BT40-SFCT4-90	90	20	53	4	10	15.6	-	M6-1.0P	1	1.10
BT40-SFCT4-135	135	20	97	4	10	26	20	-	2	1.20
BT40-SFCT6-90	90	36	58	6	21	26	-	M5-0.8P	3	1.22
BT40-SFCT6-135	135	36	96	6	12	26	22	M5-0.8P	4	1.30
BT40-SFCT6-165	165	36	127	6	12	26	22	M5-0.8P	4	1.50
BT40-SFCT6-200	200	36	168	6	12	26	-	M5-0.8P	4	2.00
BT40-SFCT8-90	90	36	58	8	21	26	-	M6-1.0P	1	1.21
BT40-SFCT8-135	135	36	97	8	14	36	24	M6-1.0P	2	1.30
BT40-SFCT8-165	165	36	127	8	14	36	27	M6-1.0P	2	1.50
BT40-SFCT8-200	200	36	162	8	14	36	30	M6-1.0P	2	1.59
BT40-SFCT10-90	90	42	58	10	24	29	-	M8-1.25P	1	1.28
BT40-SFCT10-135	135	42	97	10	16	36	26	M8-1.25P	2	1.30
BT40-SFCT10-165	165	42	127	10	16	36		M8-1.25P	2	1.50
BT40-SFCT10-200	200	42	161	10	16	36	32	M8-1.25P	2	2.00
BT40-SFCT12-90	90	52	58	12	24	29	-	M10-1.5P	1	3.94
BT40-SFCT12-135	135	52	97	12	18	36	28	M10-1.5P	2	1.30
BT40-SFCT12-165	165	52	125	12	18	36	31	M10-1.5P	2	1.50
BT40-SFCT12-200	200	52	162	12	18	36	35	M10-1.5P	2	1.69

選配表 Option

拉頭 Pull Stud	加熱器 Heater
B645-B647	B402

• 長度單位 Unit of Length (mm)

BT/SFCT 熱膨脹刀桿
BT/SFCT SHRINK-FIT CHUCK

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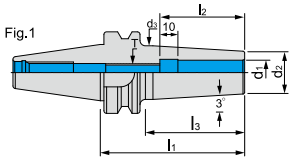
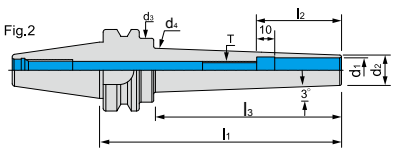
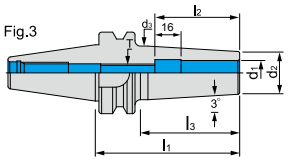
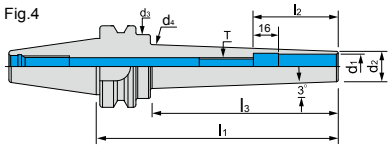
燒結式 Shrink-Fit









特點 Feature

- 整支通孔，利於出水及抗震
- 標準動平衡 G2.5 25000rpm

- A through coolant shank which allows water to pass through easily and vibration resistance.
- Dynamic balancing G2.5 at 25000rpm

規格 Spec.	l_1	l_2	l_3	d_1	d_2	d_3	d_4	T	Fig.	重量 (KGS) Weight
BT40-SFCT16-90	90	52	58	16	27	32		M12-1.75P	1	1.28
BT40-SFCT16-135	135	52	96	16	22	36	32	M12-1.75P	2	1.40
BT40-SFCT16-165	165	52	127	16	22	36	35	M12-1.75P	2	1.50
BT40-SFCT16-200	200	52	168	16	22	36	-	M12-1.75P	2	2.00
BT40-SFCT20-100	100	52	58	20	33	38	-	M16-2.0P	1	1.42
BT40-SFCT20-135	135	52	68	20	33	38	-	M16-2.0P	1	1.50
BT40-SFCT20-165	165	52	103	20	26	36	-	M16-2.0P	2	1.64
BT40-SFCT20-200	200	52	133	20	26	36	-	M16-2.0P	2	2.10
BT40-SFCT25-100	100	58	71	25	44	49	-	M20-2.0P	1	1.78
BT40-SFCT25-135	135	58	71	25	44	49	-	M20-2.0P	1	1.90
BT40-SFCT25-165	165	58	97	25	31	49	41	M20-2.0P	2	2.10
BT40-SFCT25-200	200	58	127	25	31	49	44	M20-2.0P	2	2.20
BT40-SFCT32-100	100	58	71	32	44	49	48	M20-2.0P	2	1.55
BT40-SFCT32-135	135	58	71	32	44	49	-	M20-2.0P	1	1.90
BT40-SFCT32-165	165	58	97	32	38	49	48	M20-2.0P	2	2.22
BT40-SFCT32-200	200	58	136	32	38	49	-	M20-2.0P	2	2.20

選配表 Option

拉頭 Pull Stud	加熱器 Heater
B645-B647	B402

• 長度單位 Unit of Length (mm)

BT/SFCT 熱膨脹刀桿
BT/SFCT SHRINK-FIT CHUCK

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MAS 403

台灣精品 2009 TAIWAN EXCELLENCE

燒結式 Shrink-Fit

Fig.1

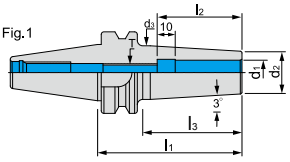


Fig.2

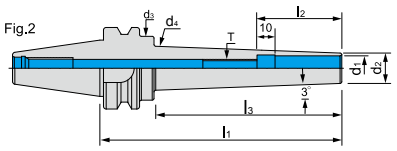


Fig.3

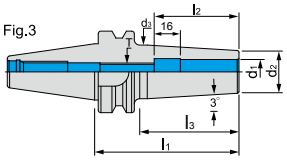
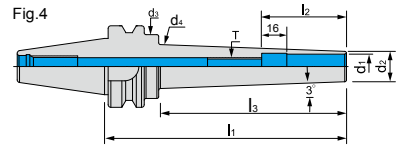


Fig.4



特點 Feature

- 整支通孔，利於出水及抗震
- 標準動平衡 G2.5 25000rpm

- A through coolant shank which allows water to pass through easily and vibration resistance.
- Dynamic balancing G2.5 at 25000rpm

規格 Spec.	l_1	l_2	l_3	d_1	d_2	d_3	d_4	T	Fig.	重量 (KGS) Weight
BT50-SFCT4-100	100	20	52	4	10	15.5	-	M6-1.0P	1	3.86
BT50-SFCT4-135	135	20	86	4	10	26	19	-	2	3.56
BT50-SFCT6-100	100	36	57	6	21	26	-	M5-0.8P	3	3.92
BT50-SFCT6-135	135	36	86	6	12	26	21	M5-0.8P	4	3.62
BT50-SFCT6-165	165	36	116	6	12	26	24	M5-0.8P	4	3.76
BT50-SFCT6-200	200	36	157	6	12	26	-	M5-0.8P	4	3.89
BT50-SFCT8-100	100	36	57	8	21	26	-	M6-1.0P	1	3.92
BT50-SFCT8-135	135	36	86	8	14	36	23	M6-1.0P	2	3.74
BT50-SFCT8-165	165	36	116	8	14	36	26	M6-1.0P	2	3.85
BT50-SFCT8-200	200	36	151	8	14	36	29	M6-1.0P	2	4.02
BT50-SFCT10-100	100	42	58	10	24	29	-	M8-1.25P	1	3.90
BT50-SFCT10-135	135	42	86	10	16	36	25	M8-1.25P	2	3.68
BT50-SFCT10-165	165	42	116	10	16	36	28	M8-1.25P	2	3.86
BT50-SFCT10-200	200	42	151	10	16	36	31	M8-1.25P	2	4.02
BT50-SFCT12-100	100	52	52	12	24	29	-	M10-1.5P	1	3.94
BT50-SFCT12-135	135	52	86	12	18	36	27	M10-1.5P	2	3.77
BT50-SFCT12-165	165	52	116	12	18	36	30	M10-1.5P	2	3.89
BT50-SFCT12-200	200	52	150	12	18	36	33	M10-1.5P	2	4.07

選配表 Option

拉頭 Pull Stud	加熱器 Heater
B645-B647	B402

• 長度單位 Unit of Length (mm)

BT/SFCT 熱膨脹刀桿
BT/SFCT SHRINK-FIT CHUCK

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台灣精品2009 TAIWAN EXCELLENCE

燒結式 Shrink-Fit

Fig.1

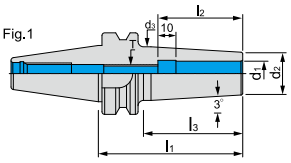


Fig.2

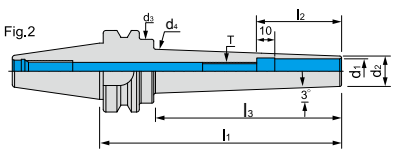


Fig.3

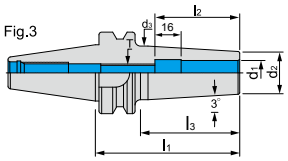
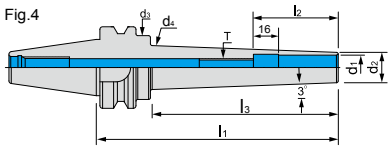


Fig.4



特點 Feature

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- 標準動平衡 G2.5 25000rpm

- A through coolant shank which allows water to pass through easily and vibration resistance.
- Dynamic balancing G2.5 at 25000rpm

規格 Spec.	l_1	l_2	l_3	d_1	d_2	d_3	d_4	T	Fig.	重量 (KGS) Weight
BT50-SFCT16-100	100	52	52	16	27	32	-	M12-1.75P	1	3.96
BT50-SFCT16-135	135	52	86	16	22	36	31	M12-1.75P	2	3.82
BT50-SFCT16-165	165	52	116	16	22	36	34	M12-1.75P	2	3.97
BT50-SFCT16-200	200	52	157	16	22	36	-	M12-1.75P	2	4.19
BT50-SFCT20-110	110	52	67	20	33	38	-	M16-2.0P	1	4.14
BT50-SFCT20-135	135	52	86	20	26	36	35	M16-2.0P	2	3.86
BT50-SFCT20-165	165	52	117	20	26	36	-	M16-2.0P	2	4.03
BT50-SFCT20-200	200	52	152	20	26	36	-	M16-2.0P	2	4.22
BT50-SFCT25-110	110	58	67	25	44	49	-	M20-2.0P	1	4.46
BT50-SFCT25-135	135	58	86	25	31	49	40	M20-2.0P	2	4.03
BT50-SFCT25-165	165	58	116	25	31	49	43	M20-2.0P	2	4.30
BT50-SFCT25-200	200	58	150	25	31	49	46	M20-2.0P	2	4.67
BT50-SFCT32-110	110	58	67	32	44	49	-	M20-2.0P	1	4.30
BT50-SFCT32-135	135	58	86	32	38	49	47	M20-2.0P	2	4.18
BT50-SFCT32-165	165	58	122	32	38	49	-	M20-2.0P	2	4.56
BT50-SFCT32-200	200	58	157	32	38	49	-	M20-2.0P	2	5.01

選配表 Option

拉頭 Pull Stud	加熱器 Heater
B645-B647	B402

• 長度單位 Unit of Length (mm)

直柄 SFC 熱膨脹刀桿
STRAIGHT SHANK SFC SHRINK-FIT CHUCK

JIS
MAS 403

燒結式 Shrink-Fit

Fig.1

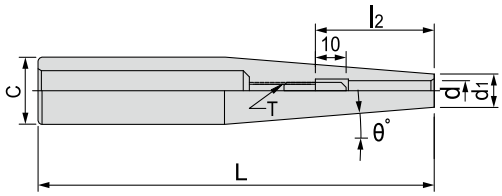
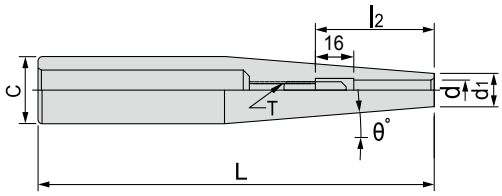


Fig.2



特點 Feature

- 搭配任何筒夾式刀桿使用，應用廣泛且便利
- 精度 5μ

-Compatible with all collet type tool holder. Wide application and economical
-Precision 5μ.

規格 Spec.	C	L	l_2	d	d_1	θ	T	Fig.	重量 (KGS) Weight
C10-SFC3-120	10	120	20	3	7	4.5°	-	1	0.06
C10-SFC4-120	10	120	20	4	7	4.5°	-	1	0.12
C12-SFC6-120	12	120	36	6	10	4.5°	M5-0.8P	2	0.12
C16-SFC4-150	16	150	10	4	7	3°	M6-1.0P	1	0.18
C16-SFC6-150	16	150	36	6	9	3°	M5-0.8P	2	0.20
C20-SFC6-150	20	150	26	6	10	3°	-	2	0.25
C20-SFC8-150	20	150	20	8	14	3°	-	1	0.28
C20-SFC10-150	20	150	42	10	14	3°	-	1	0.24
C25-SFC6-250	25	250	26	6	10	3°	-	2	0.64
C25-SFC8-250	25	250	26	8	12	3°	-	1	0.66
C25-SFC10-250	25	250	32	10	14	3°	-	1	0.68
C25-SFC12-250	25	250	37	12	16	3°	-	1	0.62

選配表 Option

加熱器 Heater

B402

• 長度單位 Unit of Length (mm)

BT/SKS 高速機專用夾頭
BT/SKS COLLET CHUCK

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Fig.1

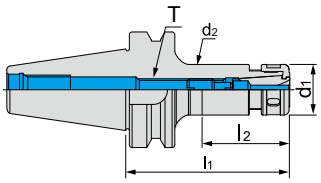
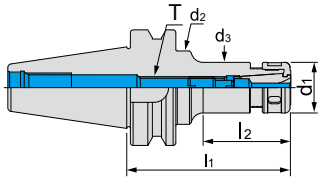


Fig.2



特點 Feature

- 偏擺精度 :5μ 以下 (延伸 4D 長度處)
- SKS 筒夾錐度 :4°，增加夾持力、提高穩定性
- 標準動平衡 :G2.5 25000rpm

-Run-out accuracy: within 5μ.
-SKS tapered collet: 4° degrees, increases clamping power and stability.
-Dynamic balancing G2.5 at 25000rpm.

規格 Spec.	l_1	l_2	d_1	d_2	d_3	T	Fig.	重量 (KGS) Weight
BT30-SKS6-45	45	22	18	20	-	M8-1.25P	1	0.80
BT30-SKS6-60	60	33	18	20	-	M8-1.25P	1	0.90
BT30-SKS6-90	90	55	18	20	-	M8-1.25P	1	0.52
BT30-SKS10-45	45	22	30	27.6	-	M12-1.75P	1	0.80
BT30-SKS10-60	60	33	30	27.6	-	M12-1.75P	1	0.90
BT30-SKS10-90	90	63	30	27.6	-	M12-1.75P	1	1.00
BT30-SKS13-60	60	35	35	33	-	M12-1.75P	1	0.84
BT30-SKS13-90	90	65	35	33	-	M12-1.75P	1	0.74
BT30-SKS13-120	120	95	35	33	-	M12-1.75P	1	1.60
BT30-SKS16-60	60	37	40	40	-	M18-1.5P	1	0.59
BT30-SKS16-90	90	67	40	40	-	M18-1.5P	1	0.82
BT30-SKS20-60	60	33	48.5	48.5	-	M22-1.5P	1	0.64
BT30-SKS20-90	90	60	48.5	48.5	-	M22-1.5P	1	0.98
BT40-SKS6-90	90	44	18	32	18	M8-1.25P	2	1.20
BT40-SKS6-120	120	74	18	32	18	M8-1.25P	2	1.21
BT40-SKS10-60	60	30	30	40	27.6	M12-1.75P	2	1.14
BT40-SKS10-90	90	45	30	40	27.6	M12-1.75P	2	1.20
BT40-SKS10-120	120	74	30	40	27	M12-1.75P	2	1.40
BT40-SKS13-60	60	30	35	33	-	M12-1.75P	1	1.12
BT40-SKS13-90	90	60	35	33	-	M12-1.75P	1	1.28
BT40-SKS13-120	120	90	35	33	-	M12-1.75P	1	1.44
BT40-SKS13-150	150	120	35	33	-	M12-1.75P	1	1.70
BT40-SKS13-200	200	170	35	33	-	M12-1.75P	1	2.00
BT40-SKS16-60	60	23.2	40	40	-	M18-1.5P	1	1.10
BT40-SKS16-90	90	58	40	40	-	M18-1.5P	1	1.30
BT40-SKS16-120	120	88	40	40	-	M18-1.5P	1	1.70
BT40-SKS16-150	150	118	40	40	-	M18-1.5P	1	1.90
BT40-SKS16-200	200	168	40	40	-	M18-1.5P	1	2.10
BT40-SKS20-60	60	32	48.5	48.5	-	M22-1.5P	1	1.14
BT40-SKS20-90	90	60	48.5	48.5	-	M22-1.5P	1	0.46
BT40-SKS20-120	120	88	48.5	48.5	-	M22-1.5P	1	1.90
BT40-SKS20-150	150	118	48.5	48.5	-	M22-1.5P	1	2.10
BT40-SKS20-200	200	168	48.5	48.5	-	M22-1.5P	1	2.20
BT40-SKS25-90	90	61	55.1	55	-	M28-2.0P	1	1.70
BT40-SKS25-120	120	91	55.1	55	-	M28-2.0P	1	1.80

選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B627	B639	B651

• 長度單位 Unit of Length (mm)

BT/SKS 高速機專用夾頭
BT/SKS COLLET CHUCK

JIS
MAS 403

Fig.1

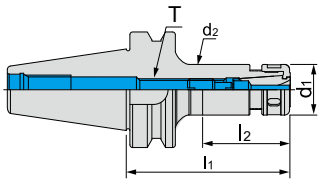
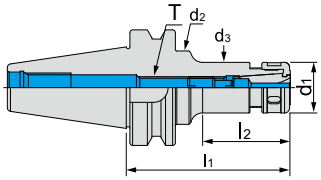


Fig.2



特點 Feature

- 偏擺精度 :5μ 以下 (延伸 4D 長度處)
- SKS 筒夾錐度 :4°，增加夾持力、提高穩定性
- 標準動平衡 :G2.5 25000rpm

-Run-out accuracy: within 5μ.
-SKS tapered collet: 4° degrees, increases clamping power and stability.
-Dynamic Balancing G2.5 at 25000rpm.

規格 Spec.	l_1	l_2	d_1	d_2	d_3	T	Fig.	重量 (KGS) Weight
BT50-SKS6-90	90	42	18	18	-	M8-1.25P	1	4.00
BT50-SKS6-120	120	60	18	32	18	M8-1.25P	2	4.20
BT50-SKS10-105	105	57	30	27.6	-	M12-1.75P	1	4.50
BT50-SKS10-150	150	94	30	40	27	M12-1.75P	2	4.17
BT50-SKS10-165	165	108	30	40	27	M12-1.75P	2	4.30
BT50-SKS10-200	200	145	30	36	27	M12-1.75P	2	5.20
BT50-SKS10-250	250	193	30	40	27	M12-1.75P	2	5.60
BT50-SKS13-105	105	62	35	33	-	M12-1.75P	1	4.11
BT50-SKS13-135	135	92	35	33	-	M12-1.75P	1	4.18
BT50-SKS13-150	150	77	35	33	45	M12-1.75P	2	4.80
BT50-SKS13-165	165	92	35	45	33	M12-1.75P	2	4.55
BT50-SKS13-200	200	157	35	45	33	M12-1.75P	2	4.74
BT50-SKS13-250	250	207	35	45	33	M12-1.75P	2	5.16
BT50-SKS16-105	105	57	40	40	-	M18-1.5P	1	4.18
BT50-SKS16-150	150	93	40	52	40	M18-1.5P	2	4.70
BT50-SKS16-165	165	108	40	52	40	M18-1.5P	2	4.50
BT50-SKS16-200	200	157	40	52	40	M18-1.5P	2	5.12
BT50-SKS16-250	250	207	40	52	40	M18-1.5P	2	5.66
BT50-SKS20-105	105	62	48.5	48.5	-	M22-1.5P	1	4.32
BT50-SKS20-135	135	92	48.5	48.5	-	M22-1.5P	1	4.66
BT50-SKS20-165	165	122	48.5	48.5	-	M22-1.5P	1	5.00
BT50-SKS20-200	200	157	48.5	48.5	-	M22-1.5P	1	5.45
BT50-SKS20-250	250	207	48.5	48.5	-	M22-1.5P	1	6.05
BT50-SKS25-105	105	62	55.1	55	-	M28-2.0P	1	4.50
BT50-SKS25-150	150	107	55.1	55	-	M22-1.5P	1	4.80
BT50-SKS25-200	200	157	55.1	55	-	M22-1.5P	1	6.00
BT50-SKS25-250	250	207	55.1	55	-	M22-1.5P	1	6.68

選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B627	B639	B651

• 長度單位 Unit of Length (mm)

BT/SKS 高速機專用夾頭 (無風阻)
BT/SKS COLLET CHUCK (NON WIND RESISTANCE)

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Fig.1

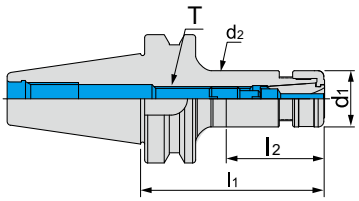
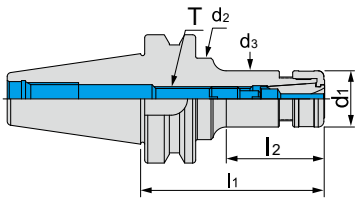


Fig.2



特點 Feature

- 偏擺精度 :5μ 以下 (延伸 4D 長度處)
- SKS 筒夾錐度 :4°，增加夾持力、提高穩定性
- 標準動平衡 :G2.5 25000rpm

-Run-out accuracy: within 5μ.
-SKS tapered collet: 4° degrees, increases clamping power and stability.
-Dynamic Balance of G2.5 at 25000rpm.

規格 Spec.	l_1	l_2	d_1	d_2	d_3	T	Fig.	重量 (KGS) Weight
BT30-SKS6-45-HS	45	22	18	20	-	M8-1.25P	1	0.80
BT30-SKS6-60-HS	60	33	18	20	-	M8-1.25P	1	0.90
BT30-SKS6-90-HS	90	55	18	20	-	M8-1.25P	1	0.52
BT30-SKS10-45-HS	45	22	30	27.6	-	M12-1.75P	1	0.80
BT30-SKS10-60-HS	60	33	30	27.6	-	M12-1.75P	1	0.90
BT30-SKS10-90-HS	90	63	30	27.6	-	M12-1.75P	1	1.00
BT30-SKS13-60-HS	60	35	35	33	-	M12-1.75P	1	0.84
BT30-SKS13-90-HS	90	65	35	33	-	M12-1.75P	1	0.74
BT30-SKS13-120-HS	120	95	35	33	-	M12-1.75P	1	1.60
BT30-SKS16-60-HS	60	37	40	40	-	M18-1.5P	1	0.59
BT30-SKS16-90-HS	90	67	40	40	-	M18-1.5P	1	0.82
BT30-SKS20-60-HS	60	33	48.5	48.5	-	M22-1.5P	1	0.64
BT30-SKS20-90-HS	90	60	48.5	48.5	-	M22-1.5P	1	0.98
BT40-SKS6-90-HS	90	44	18	32	18	M8-1.25P	2	1.20
BT40-SKS6-120-HS	120	74	18	32	18	M8-1.25P	2	1.21
BT40-SKS10-60-HS	60	30	30	40	27.6	M12-1.75P	2	1.14
BT40-SKS10-90-HS	90	45	30	40	27.6	M12-1.75P	2	1.20
BT40-SKS10-120-HS	120	74	30	40	27	M12-1.75P	2	1.40
BT40-SKS13-60-HS	60	30	35	33	-	M12-1.75P	1	1.12
BT40-SKS13-90-HS	90	60	35	33	-	M12-1.75P	1	1.28
BT40-SKS13-120-HS	120	90	35	33	-	M12-1.75P	1	1.44
BT40-SKS13-150-HS	150	120	35	33	-	M12-1.75P	1	1.70
BT40-SKS13-200-HS	200	170	35	33	-	M12-1.75P	1	2.00
BT40-SKS16-60-HS	60	23.2	40	40	-	M18-1.5P	1	1.10
BT40-SKS16-90-HS	90	58	40	40	-	M18-1.5P	1	1.30
BT40-SKS16-120-HS	120	88	40	40	-	M18-1.5P	1	1.70
BT40-SKS16-150-HS	150	118	40	40	-	M18-1.5P	1	1.90
BT40-SKS16-200-HS	200	168	40	40	-	M18-1.5P	1	2.10
BT40-SKS20-60-HS	60	32	48.5	48.5	-	M22-1.5P	1	1.14
BT40-SKS20-90-HS	90	60	48.5	48.5	-	M22-1.5P	1	0.46
BT40-SKS20-120-HS	120	88	48.5	48.5	-	M22-1.5P	1	1.90
BT40-SKS20-150-HS	150	118	48.5	48.5	-	M22-1.5P	1	2.10
BT40-SKS20-200-HS	200	168	48.5	48.5	-	M22-1.5P	1	2.20
BT40-SKS25-90-HS	90	61	55.1	55	-	M28-2.0P	1	1.70
BT40-SKS25-120-HS	120	91	55.1	55	-	M28-2.0P	1	1.80

選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B627	B639	B651

• 長度單位 Unit of Length (mm)

BT/SKS 高速機專用夾頭 (無風阻)
BT/SKS COLLET CHUCK (NON WIND RESISTANCE)

JIS
MAS 403

Fig.1

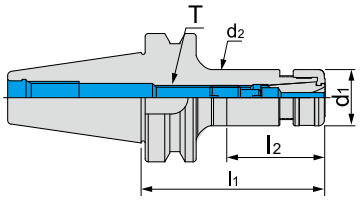
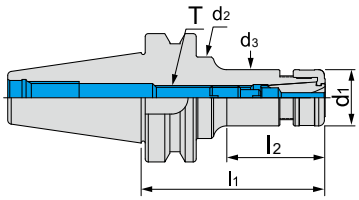


Fig.2



特點 Feature

- 偏擺精度 :5μ 以下 (延伸 4D 長度處)
- SKS 筒夾錐度 :4°，增加夾持力、提高穩定性
- 標準動平衡 :G2.5 25000rpm

-Run-out accuracy: within 5μ.
-SKS tapered collet: 4° degrees, increases clamping power and stability.
-Dynamic Balancing G2.5 at 25000rpm.

規格 Spec.	l_1	l_2	d_1	d_2	d_3	T	Fig.	重量 (KGS) Weight
BT50-SKS6-90-HS	90	42	18	18	-	M8-1.25P	1	4.00
BT50-SKS6-120-HS	120	60	18	32	18	M8-1.25P	2	4.20
BT50-SKS10-105-HS	105	57	30	27.6	-	M12-1.75P	1	4.50
BT50-SKS10-150-HS	150	94	30	40	27	M12-1.75P	2	4.17
BT50-SKS10-165-HS	165	108	30	40	27	M12-1.75P	2	4.30
BT50-SKS10-200-HS	200	145	30	36	27	M12-1.75P	2	5.20
BT50-SKS10-250-HS	250	193	30	40	27	M12-1.75P	2	5.60
BT50-SKS13-105-HS	105	62	35	33	-	M12-1.75P	1	4.11
BT50-SKS13-135-HS	135	92	35	33	-	M12-1.75P	1	4.18
BT50-SKS13-150-HS	150	77	35	33	45	M12-1.75P	2	4.80
BT50-SKS13-165-HS	165	92	35	45	33	M12-1.75P	2	4.55
BT50-SKS13-200-HS	200	157	35	45	33	M12-1.75P	2	4.74
BT50-SKS13-250-HS	250	207	35	45	33	M12-1.75P	2	5.16
BT50-SKS16-105-HS	105	57	40	40	-	M18-1.5P	1	4.18
BT50-SKS16-150-HS	150	93	40	52	40	M18-1.5P	2	4.70
BT50-SKS16-165-HS	165	108	40	52	40	M18-1.5P	2	4.50
BT50-SKS16-200-HS	200	157	40	52	40	M18-1.5P	2	5.12
BT50-SKS16-250-HS	250	207	40	52	40	M18-1.5P	2	5.66
BT50-SKS20-105-HS	105	62	48.5	48.5	-	M22-1.5P	1	4.32
BT50-SKS20-135-HS	135	92	48.5	48.5	-	M22-1.5P	1	4.66
BT50-SKS20-165-HS	165	122	48.5	48.5	-	M22-1.5P	1	5.00
BT50-SKS20-200-HS	200	157	48.5	48.5	-	M22-1.5P	1	5.45
BT50-SKS20-250-HS	250	207	48.5	48.5	-	M22-1.5P	1	6.05
BT50-SKS25-105-HS	105	62	55.1	55	-	M28-2.0P	1	4.50
BT50-SKS25-150-HS	150	107	55.1	55	-	M22-1.5P	1	4.80
BT50-SKS25-200-HS	200	157	55.1	55	-	M22-1.5P	1	6.00
BT50-SKS25-250-HS	250	207	55.1	55	-	M22-1.5P	1	6.68

選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B627	B639	B651

• 長度單位 Unit of Length (mm)

LHC

液壓刀桿系列

Hydraulic

-提高刀具100%的壽命
-加工表面無振紋
-適合高精度加工
-一般六角扳手快速換刀

-Increase up to 100% tool life
-Excellent vibration damping that effectively reduces the chatter mark of the workpiece surface
-Ideal for machining high accuracy operations
-Using hex key wrench for quick tool change

GERMANY

BT/LHC 扭力型液壓刀桿
BT/LHC TORQUE HYDRAULIC TOOLHOLDER

JIS
MAS 403
B6339

同心度和重覆精度在 0.003mm 以內 (2.5D)

NEW

Fig.1

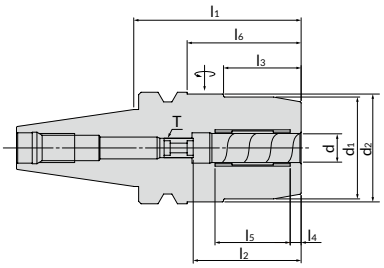


Fig.2

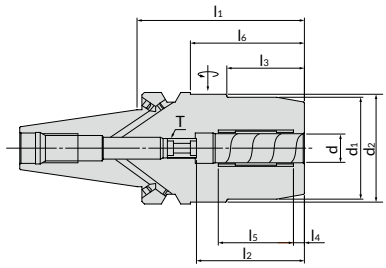
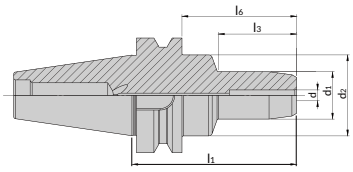


Fig.3



特點 Feature

- 小徑液壓刀桿：外徑降低干涉，無需使用減壓徑套筒
- 直徑為 20mm 時，最大夾持扭矩高達 900Nm 最小扭矩 520Nm 以上。
- 直徑為 32mm 時，最大夾持扭矩高達 2000Nm 最小扭矩 900Nm 以上。

- Small-diameter hydraulic shank: Prevent interference from shank, no need to use collet reducer.
-Diameter 20mm, maximum clamping torque up to 900Nm, minimum torque above 520Nm.
-Diameter 32mm, maximum clamping torque up to 2000Nm, minimum torque above 900Nm.

規格 Spec.	l_1	l_2	l_3	l_4	l_5	l_6	d	d_1	d_2	T	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
BT30-LHC12-69	69	46	32	4.5	47	23	12	42	44.5	M8-1.0P	PT5	110	1	0.60
BT30-LHC20-90	90	51	50	5	68	39	20	42	44.5	M8-1.0P	PT5	400	1	0.90
NEW BT40-LHC6-90	90.5	37	43	3.6	20.5	63	6	26	44.5	M5-1.0P	PT5	-	3	1.40
NEW BT40-LHC8-90	90.5	37	44.5	3.6	20.5	63	8	28	44.5	M6-1.0P	PT5	-	3	1.40
NEW BT40-LHC10-90	90.5	41	44.5	3.6	20.5	63	10	30	44.5	M8-1.0P	PT5	-	3	1.40
BT40-LHC12-58	58	46	-	4.5	31	31	12	42	-	M8-1.0P	PT5	110	2	1.20
BT40-LHC16-72	72.5	51	-	5	37	45.5	16	49.25	-	M8-1.0P	PT5	350	2	1.30
BT40-LHC20-72	72.5	51	-	5	37	45.5	20	49.25	-	M8-1.0P	PT5	520	2	1.40
BT40-LHC32-120	120	61	-	6	44	80	32	62.5	-	M8-1.0P	PT6	900	2	2.38
BT50-LHC20-83	83.5	51	-	5	37	45.5	20	49.25	-	M8-1.0P	PT5	520	2	4.10
BT50-LHC32-90	90	61	-	6	44	52	32	72	-	M8-1.0P	PT6	900	2	4.60

選配表 Option

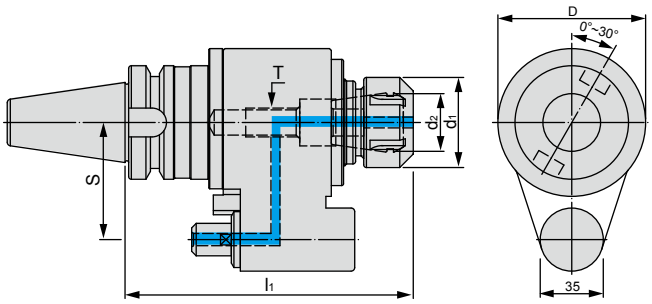
拉頭 Pull Stud	筒夾 Collet
B645-B647	B632

• 長度單位 Unit of Length (mm)

BT/OHER 油路刀把
BT/OHER OIL HOLE COLLET CHUCK

JIS
MAS 403

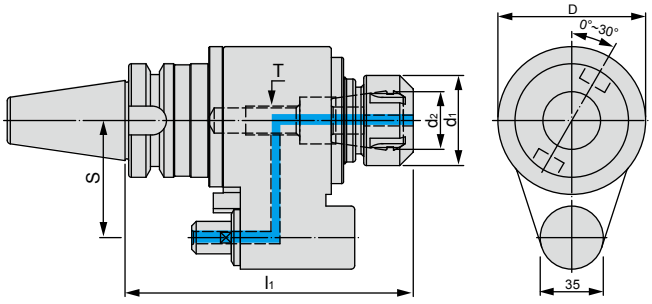
水壓 Water pressure : 7bar



規格 Spec.	l_1	D	d_1	d_2 ER	S	T	重量 (KGS) Weight
BT40-OHER16-160	160	82	28	16	65	M10	3.80
BT40-OHER20-160	160	82	34	20	65	M12	4.10
BT40-OHER25-160	160	82	42	25	65	M16	4.30
BT40-OHER32-160	160	82	50	32	65	M16	4.50
BT50-OHER16-160	160	98	28	16	80	M10	7.00
BT50-OHER20-160	160	98	34	20	80	M12	7.10
BT50-OHER25-160	160	98	42	25	80	M16	7.20
BT50-OHER32-160	160	98	50	32	80	M16	7.30
BT50-OHER40-160	160	98	63	40	80	M20	7.50

BT/OHER 油路刀把
BT/OHER OIL HOLE COLLET CHUCK

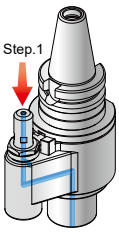
水壓 Water pressure : 20bar



規格 Spec.	l_1	D	d_1	d_2 ER	S	T	重量 (KGS) Weight
BT40-OHER32-160-20BAR	160	82	50	32	65	M16	4.50
BT50-OHER32-160-20BAR	160	98	50	32	80	M16	7.30

選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner	定位塊 Fix block
B645-B647	B612-B624	B636	B650	B417



使用注意事項 Notice

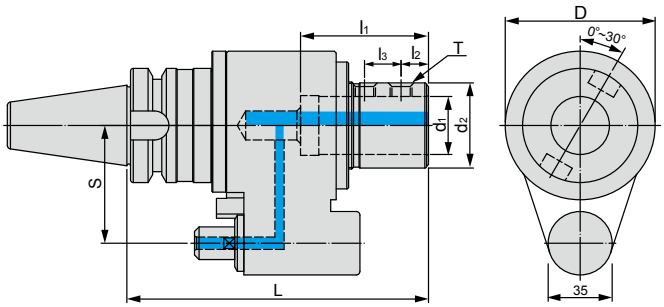
使用前應先進行給水動作，再進行運轉，以提升產品壽命。

Water supply before running for a better product life extended.

• 長度單位 Unit of Length (mm)

BT/OSL 側固式油路刀把
BT/OSL SIDE LOCK OIL HOLE HOLDER

JIS
MAS 403



特點 Feature

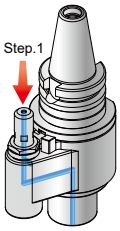
- 訂購前請先確認 "S" 尺寸 (中心距離)
- 使用前請先確認中心切削機的高壓裝置
- 承受 7kgf/cm^2 水壓
- 最高轉速限制 :3000rpm

- Please confirm the "S" size before ordering.
- Please confirm the machining center with installation high pressure pump before use.
- Powerful 7 kgf/cm^2 water pressure.
- Max. spindle : 3000rpm.

規格 Spec.	L	l_1	l_2	l_3	D	d_1	d_2	S	T	重量 (KGS) Weight
BT40-OSL16-165	165	48	25	-	82	16	46.5	65	M12-1.75P	3.10
BT40-OSL20-165	165	50	25	-	82	20	46.5	65	M12-1.75P	3.50
BT40-OSL25-165	165	56	15	20	82	25	46.5	65	M12-1.75P	3.50
BT40-OSL32-165	165	60	15	20	82	32	47	65	M12-1.75P	5.20
BT50-OSL16-165	165	48	25	-	98	16	56	80	M14-2.0P	7.00
BT50-OSL20-165	165	50	25	-	98	20	56	80	M12-1.75P	7.50
BT50-OSL25-165	165	56	15	20	98	25	56	80	M16-2.0P	7.50
BT50-OSL32-165	165	60	15	20	98	32	56	80	M16-2.0P	7.80
BT50-OSL40-170	170	62	15	25	105	40	56	80	M14-2.0P	8.50

選配表 Option

拉頭 Pull Stud	套筒 Sleeve	定位塊 Fix block
B645-B647	B665	B417



使用注意事項 Notice

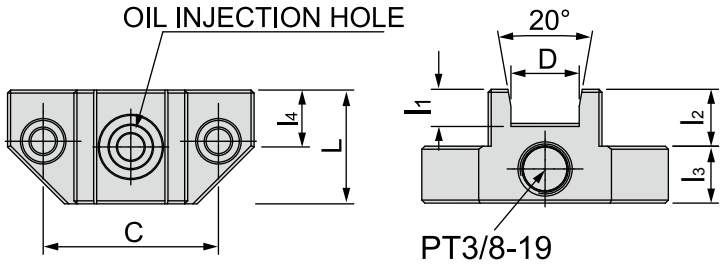
使用前應先進行給水動作，再進行運轉，以提升產品壽命。

Water supply before running for a better product life extended.

• 長度單位 Unit of Length (mm)

ST-18 定位塊
ST-18 FIXED BLOCK

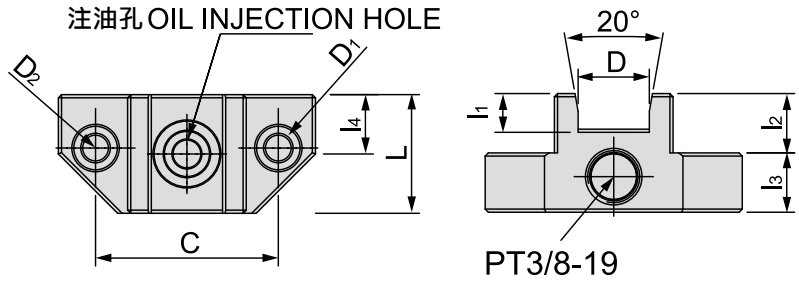
JIS
MAS 403
B6339



規格 Spec.	L	l_1	l_2	l_3	l_4	C	D	重量 (KGS) Weight
ST-18	**27**	9	18.1	17.2	18	46.2	18	0.29

訂製產品圖面
- 接受特殊規格，請在下單之前告知詳細尺寸。
- 如果想要訂製，請注意主軸中心和定位塊中心的距離，並且請小心主軸法蘭上固定螺絲的尺寸和位置

Drawing of custom-made products
-Special type is accepted. Please inform detailed dimensions before making a purchase order.
- If you'd like custom-made,please beware of the distance between spindle center and Fixed Block center.Also, please indicate the dimension and position of the Fixed Screw on the flange of spindle.



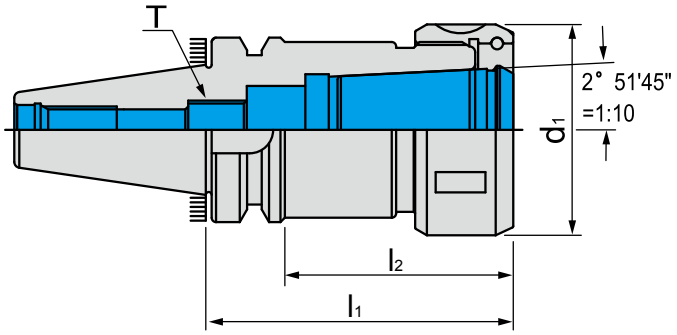
UNIT:mm

L	l_1	l_2	l_3	l_4	C	D	D_1	D_2

• 長度單位 Unit of Length (mm)

BT/EOC 立銑刀夾頭
BT/EOC COLLET CHUCK

JIS
MAS 403



特點 Feature

- 筒夾樣式有 OZ 型以及 B 型
- 整支通孔，利於出水及抗震
- 如需擋刀螺絲可另外指定
- 裝置時筒夾必須先置入螺帽，再裝入刀具，接著鎖固入本體
- 刀具置入筒夾內孔，必須超出筒夾內孔有效夾持長度，避免不當鎖固，造成損壞
- 務必使用正確扳手來裝置不可任意改變，避免不當鎖固，造成損壞

-Compatible with OZ and B type collets.
-Through coolant design increase the tool life and vibration resistance.
-A special stop screw is available for purchase to prevent the tool from being inserted too deep.
-Place the collet first into the clamping nut, then install both on to the chuck.
-Install the cutting tool to its proper length before tightening the clamping nut to avoid damaging the tool.
-Do not use other spanners, it might cause damage the nut during tightening

規格 Spec.	l_1	l_2	d_1	T	夾持範圍 Clamping Range	重量 (KGS) Weight
BT30-EOC25-70	70	48	60	M12-1.75P	Ø3~Ø25	0.88
BT40-EOC25-70	70	40.5	60	M16-2.0P	Ø3~Ø25	1.78
BT40-EOC25-100	100	70.5	60	M16-2.0P	Ø3~Ø25	2.25
BT40-EOC25-120	120	88	60	M16-2.0P	Ø3~Ø25	1.83
BT40-EOC32-90	90	63	72	M20-2.0P	Ø4~Ø32	2.00
BT40-EOC32-105	105	78	72	M20-2.0P	Ø4~Ø32	2.20
BT40-EOC32-120	120	93	72	M20-2.0P	Ø4~Ø32	2.60
BT50-EOC25-85	85	44.5	60	M16-2.0P	Ø3~Ø25	4.40
BT50-EOC25-100	100	59.5	60	M16-2.0P	Ø3~Ø25	4.76
BT50-EOC25-120	120	77	60	M16-2.0P	Ø3~Ø25	5.20
BT50-EOC32-90	90	44	72	M24-2.0P	Ø4~Ø32	4.63
BT50-EOC32-105	105	59	72	M24-2.0P	Ø4~Ø32	4.85
BT50-EOC32-120	120	74	72	M24-2.0P	Ø4~Ø32	5.35

選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B633	B640	B653

• 長度單位 Unit of Length (mm)

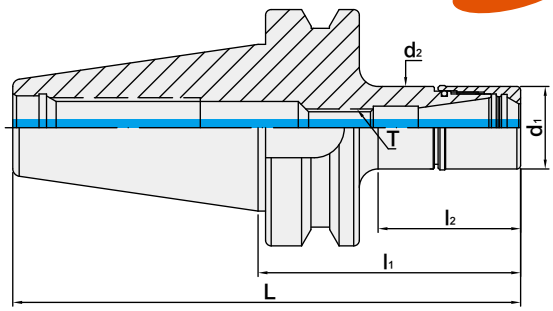
BT/PTER 高速刀桿
BT/PTER HIGH SPEED CHUCK

JIS
MAS 403

精度 Accuracy : <5μm　高速小徑 Speed Mini Chuck BT15 / BT20

範例 Example

NEW



特點 Feature

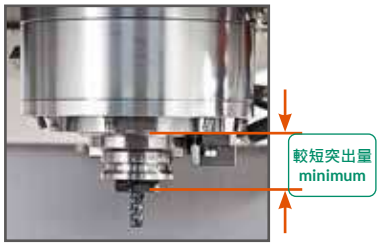
- 主軸符合日本小型工具機協會 JBS 標準
- 夾持刀具精度 5μm，附動平衡 G2.5 RPM40000
- 應用產業 - 珠寶 / 醫療 / 鐘錶 / 電子 / 模具加工等

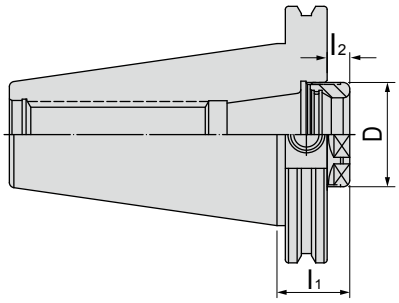
- The spind meets JBS standard of Japanese small model machine tool.
- Clamping accuracy is within 5 μm and balancing G2.5 RPM40000.
- Application to Jewelry /Medical / Electron/Watches / mold machining industries etc.

規格 Spec.	L	l_1	d_1	d_2
BT15-PTER11-34 G2.5 RPM40000	61	34	16	16
BT15-PTER16-37 G2.5 RPM40000	64	37	22	22
BT20-PTER11-40 G2.5 RPM40000	73	40	16	16
BT20-PTER16-45 G2.5 RPM40000	78	45	22	22

BT/ER 短徑立銑刀夾頭
BT/ER SHORT LENGTH COLLET CHUCK

範例 Example





特點 Feature

- 用於加工件太高，無空間時使用
- Z 軸長度不足時，可以使用
- 突出量少，剛性較佳

- Short length ER collet chuck.
- Shorten length leads less vibration and runout.

規格 Spec	l_1	l_2	D	T	重量 (KGS) Weight
BT40-ER16S	31.1	4.1	19	M24-1.0P	1.01
BT40-ER20S	31.1	4.1	22	M28-1.5P	0.98
BT40-ER25S	32.6	5.6	25	M32-1.5P	0.91
BT40-ER32S	32.4	5.4	36	M40-1.5P	0.83
BT50-ER16S	42.1	4.1	19	M24-1.0P	3.95
BT50-ER20S	42.1	4.1	22	M28-1.5P	3.91
BT50-ER25S	43.6	5.6	25	M32-1.5P	3.84
BT50-ER32S	43.6	5.4	36	M40-1.5P	3.80

選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B625-B626	B637	B651

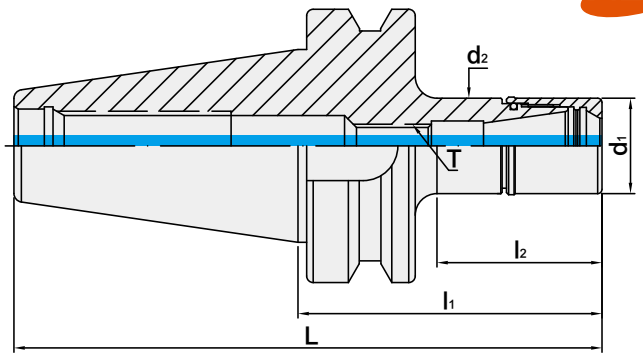
• 長度單位 Unit of Length (mm)

BT/PTER 高速刀桿
BT/PTER HIGH SPEED CHUCK

JIS
MAS 403

精度 Accuracy : <5μm

NEW



特點 Feature

- 螺帽外徑較小，減少加工物件干涉。
- PTER 刀桿前端螺紋上下直部設計，使公差更為精準，加上搭配的 PN 筒夾，置入刀桿後包覆性佳，提升整體偏擺精度及加工穩定性。
- 搭配使用 PN 筒夾，偏擺精度 : 有 3μm 和 5μm 兩種供選擇。
- 刀桿前端 O 型環設計，達到良好的防塵及防水效果

- Mini type of clamping nut, decreasing interference.
- PN collet well covered in PTER collet chuck and the two straight parts above and below the thread of tool holder improve the runout accuracy and machining stability.
- Used with PN collets. Runout accuracy: 3μm and 5μm two options to choose from.
- The front part of the tool holder has an O-ring to achieve anti-dust and waterproof.

規格 Spec.	L	l_1	l_2	d_1	d_2	T	夾持範圍 Clamping Range	重量 (KGS) Weight
BT30-PTER11-70	118.4	70	43	16	16	M6-1.0P	3 ~ 7	0.43
BT30-PTER11-100	148.4	100	73	16	16	M6-1.0P	3 ~ 7	0.47
BT30-PTER11-120	168.4	120	93	16	16	M6-1.0P	3 ~ 7	0.49
BT30-PTER16-70	118.4	70	43	22	22	M10-1.5P	3 ~ 10	0.46
BT30-PTER16-100	148.4	100	73	22	22	M10-1.5P	3 ~ 10	0.53
BT30-PTER16-120	168.4	120	93	22	22	M10-1.5P	3 ~ 10	0.58
BT40-PTER11-70	135.4	70	38	16	16	M6-1.0P	3 ~ 7	0.98
BT40-PTER11-100	165.4	100	63	16	16	M6-1.0P	3 ~ 7	1.03
BT40-PTER11-125	190.4	125	83	16	16	M6-1.0P	3 ~ 7	1.08
BT40-PTER11-150	215.4	150	108	16	16	M6-1.0P	3 ~ 7	1.11
BT40-PTER16-70	135.4	70	38	22	22	M10-1.5P	3 ~ 10	1.02
BT40-PTER16-100	165.4	100	63	22	22	M10-1.5P	3 ~ 10	1.1
BT40-PTER16-125	190.4	125	88	22	22	M10-1.5P	3 ~ 10	1.16
BT40-PTER16-150	215.4	150	113	22	22	M10-1.5P	3 ~ 10	1.22
HSK63A-PTER11-70	102	70	39	16	16	M6-1.0P	3 ~ 7	0.68
HSK63A-PTER11-100	132	100	64	16	16	M6-1.0P	3 ~ 7	0.73
HSK63A-PTER11-125	157	125	84	16	16	M6-1.0P	3 ~ 7	0.77
HSK63A-PTER11-150	182	150	109	16	16	M6-1.0P	3 ~ 7	0.81
HSK63A-PTER16-70	102	70	39	22	22	-	3 ~ 10	0.71
HSK63A-PTER16-100	132	100	69	22	22	M10-1.5P	3 ~ 10	0.79
HSK63A-PTER16-125	157	125	89	22	22	M10-1.5P	3 ~ 10	0.86
HSK63A-PTER16-150	182	150	114	22	22	M10-1.5P	3 ~ 10	0.92

選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B625-B626	B637	B651

• 長度單位 Unit of Length (mm)

BT/PNER 立銑刀夾頭
BT/PNER COLLET CHUCK

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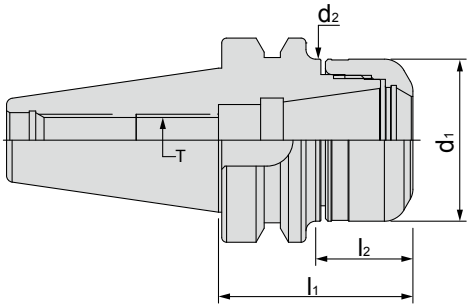
台灣精品2009 TAIWAN EXCELLENCE

精度 Accuracy : <3μm



特點 Feature

- 標準動平衡 :G2.5 25000rpm

- Dynamic balancing G2.5 at 25000rpm.

規格 Spec.	l_1	l_2	d_1	d_2	T	夾持範圍 Clamp Range	重量 (KGS) Weight
BT30-PNER20-60	60	37	32	32	M12-1.75P	3.0~13	0.80
BT30-PNER20-100	100	77	32	32	M12-1.75P	3.0~13	0.80
BT30-PNER25-60	60	37	40	40	M16-2.0P	3.0~16	0.90
BT30-PNER25-100	100	77	40	40	M16-2.0P	3.0~16	0.90
BT30-PNER32-60	60	33	50	50	-	3.0~20	1.00
BT30-PNER32-100	100	73	50	50	M16-2.0P	3.0~20	1.00
BT40-PNER16-70	70	40	30	30	M10-1.5P	3.0~10	1.12
BT40-PNER16-100	100	70	30	30	M10-1.5P	3.0~10	1.12
BT40-PNER16-130	130	100	30	30	M10-1.5P	3.0~10	1.14
BT40-PNER16-160	160	130	30	30	M10-1.5P	3.0~10	1.14
BT40-PNER20-70	70	40	32	32	M12-1.75P	3.0~13	1.14
BT40-PNER20-100	100	70	32	32	M12-1.75P	3.0~13	1.14
BT40-PNER20-130	130	100	32	32	M12-1.75P	3.0~13	1.16
BT40-PNER20-160	160	130	32	32	M12-1.75P	3.0~13	1.16
BT40-PNER25-70	70	40	40	40	M16-2.0P	3.0~16	1.19
BT40-PNER25-100	100	70	40	40	M16-2.0P	3.0~16	1.54
BT40-PNER25-130	130	100	40	40	M16-2.0P	3.0~16	2.00
BT40-PNER25-160	160	130	40	40	M16-2.0P	3.0~16	2.00
BT40-PNER32-70	70	40	50	50	M16-2.0P	3.0~20	1.20
BT40-PNER32-100	100	70	50	50	M16-2.0P	3.0~20	1.80
BT40-PNER32-130	130	100	50	50	M16-2.0P	3.0~20	1.40
BT40-PNER32-160	160	130	50	50	M16-2.0P	3.0~20	1.40
BT50-PNER16-100	100	59	30	30	M10-1.5P	3.0~10	4.28
BT50-PNER16-130	130	82	30	30	M10-1.5P	3.0~10	4.40
BT50-PNER16-160	160	112	30	30	M10-1.5P	3.0~10	4.52
BT50-PNER20-100	100	59	32	32	M12-1.75P	3.0~13	4.42
BT50-PNER20-130	130	82	32	32	M12-1.75P	3.0~13	4.60
BT50-PNER20-160	160	112	32	32	M12-1.75P	3.0~13	4.14
BT50-PNER25-100	100	59	40	40	M16-2.0P	3.0~16	4.36
BT50-PNER25-130	130	82	40	40	M16-2.0P	3.0~16	4.64
BT50-PNER25-160	160	112	40	40	M16-2.0P	3.0~16	4.84
BT50-PNER32-100	100	61	50	50	M16-2.0P	3.0~20	5.00
BT50-PNER32-130	130	82	50	50	M16-2.0P	3.0~20	5.02
BT50-PNER32-160	160	112	50	50	M16-2.0P	3.0~20	5.40
BT50-PNER40-100	100	59	63	63	M20-2.0P	6.0~26	4.88
BT50-PNER40-130	130	82	63	63	M20-2.0P	6.0~26	5.56
BT50-PNER40-160	160	112	63	63	M20-2.0P	6.0~26	6.22

※DAT-PNER 可接單生產 DAT-PNER made to order.

選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B625-B626	B637-B638	B651

• 長度單位 Unit of Length (mm)

BT/ER 立銑刀夾頭
BT/ER COLLET CHUCK

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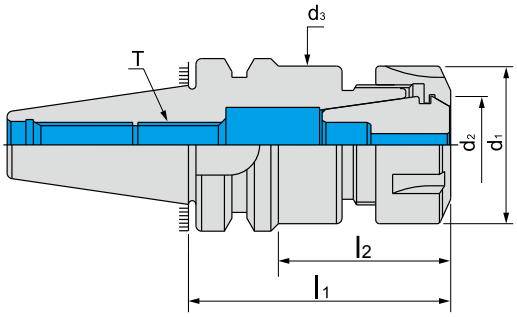

規格 Spec.	l_1	l_2	d_1	d_2	d_3	T	夾持範圍 Clamping Range	重量 (KGS) Weight
BT30-ER16A-70	70	40	28	16	28	M10-1.5P	Ø1~Ø10	0.57
BT30-ER16A-100	100	70	28	16	28	M10-1.5P	Ø1~Ø10	0.70
BT30-ER16A-120	120	93	28	16	28	M10-1.5P	Ø1~Ø10	0.95
BT30-ER20A-70	70	45	34	20	34	M12-1.75P	Ø1~Ø13	0.61
BT30-ER20A-100	100	63	34	20	34	M12-1.75P	Ø1~Ø13	0.80
BT30-ER20A-135	135	110	34	20	34	M12-1.75P	Ø1~Ø13	1.15
BT30-ER25-70	70	46	42	25	42	M16-2.0P	Ø1~Ø16	0.68
BT30-ER25-100	100	70	42	25	42	M16-2.0P	Ø1~Ø16	-
BT30-ER25-135	135	111	42	25	42	M16-2.0P	Ø1~Ø16	1.47
BT30-ER32-70	70	48	50	32	45	M16-2.0P	Ø2~Ø20	0.69
BT30-ER32-100	100	78	50	32	45	M16-2.0P	Ø2~Ø20	1.04
BT30-ER40-80	80	58	63	40	53	M16-2.0P	Ø3~Ø26	0.94
BT40-ER16A-70	70	40	28	16	28	M10-1.5P	Ø1~Ø10	1.16
BT40-ER16A-100	100	63	28	16	28	M10-1.5P	Ø1~Ø10	1.29
BT40-ER16A-125	125	88	28	16	28	M10-1.5P	Ø1~Ø10	1.36
BT40-ER16A-150	150	113	28	16	28	M10-1.5P	Ø1~Ø10	1.57
BT40-ER16A-180	180	143	28	16	28	M10-1.5P	Ø1~Ø10	1.54
BT40-ER20A-70	70	40	34	20	34	M12-1.75P	Ø1~Ø13	1.19
BT40-ER20A-100	100	63	34	20	34	M12-1.75P	Ø1~Ø13	1.40
BT40-ER20A-135	135	98	34	20	34	M12-1.75P	Ø1~Ø13	1.69
BT40-ER20A-150	150	113	34	20	34	M12-1.75P	Ø1~Ø13	1.78
BT40-ER25-70	70	40	42	25	42	M16-2.0P	Ø1~Ø16	1.24
BT40-ER25-100	90	70	42	25	42	M16-2.0P	Ø1~Ø16	1.52
BT40-ER25-125	125	95	42	25	42	M16-2.0P	Ø1~Ø16	1.86
BT40-ER25-150	150	115	42	25	42	M16-2.0P	Ø1~Ø16	2.11
BT40-ER32-70	70	40	50	32	50	M16-2.0P	Ø2~Ø20	1.28
BT40-ER32-100	100	70	50	32	50	M16-2.0P	Ø2~Ø20	1.70
BT40-ER32-150	150	118	50	32	50	M16-2.0P	Ø2~Ø20	2.49
BT40-ER40-80	80	53	63	40	60	-	Ø3~Ø26	1.49
BT40-ER40-100	100	73	63	40	60	M20-2.0P	Ø3~Ø26	1.90
BT40-ER40-120	120	93	63	40	60	M20-2.0P	Ø3~Ø26	2.45
BT40-ER40-150	150	123	63	40	60	M20-2.0P	Ø3~Ø26	3.05
BT40-ER50-85	85	58	78	50	60	M24-2.0P	Ø5~Ø34	1.70
BT40-ER50-100	100	73	78	50	60	M24-2.0P	Ø5~Ø34	2.01

選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B612	B634	B650

• 長度單位 Unit of Length (mm)

BT/ER 立銑刀夾頭
BT/ER COLLET CHUCK

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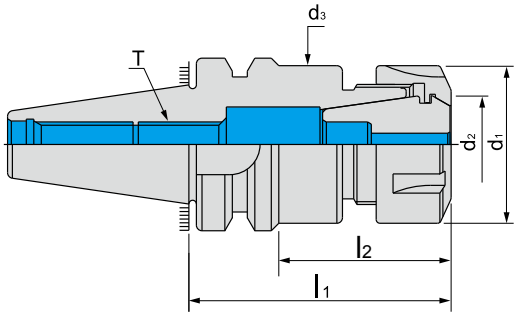

規格 Spec.	l_1	l_2	d_1	d_2	d_3	T	夾持範圍 Clamping Range	重量 (KGS) Weight
BT50-ER16A-70	70	29	28	16	28	M10-1.5P	Ø1~Ø10	4.10
BT50-ER16A-90	90	47	28	16	28	M10-1.5P	Ø1~Ø10	4.16
BT50-ER16A-105	105	57	28	16	28	M10-1.5P	Ø1~Ø10	4.19
BT50-ER16A-135	135	87	28	16	28	M10-1.5P	Ø1~Ø10	4.19
BT50-ER16A-150	150	102	28	16	28	M10-1.5P	Ø1~Ø10	4.46
BT50-ER16A-165	165	117	28	16	28	M10-1.5P	Ø1~Ø10	4.36
BT50-ER20A-70	70	29	34	20	34	M12-1.75P	Ø1~Ø13	4.09
BT50-ER20A-90	90	47	34	20	34	M12-1.75P	Ø1~Ø13	4.18
BT50-ER20A-105	105	57	34	20	34	M12-1.75P	Ø1~Ø13	4.28
BT50-ER20A-135	135	87	34	20	34	M12-1.75P	Ø1~Ø13	4.37
BT50-ER20A-150	150	102	34	20	34	M12-1.75P	Ø1~Ø13	4.47
BT50-ER20A-165	165	117	34	20	34	M12-1.75P	Ø1~Ø13	4.55
BT50-ER20A-200	200	152	34	20	34	M12-1.75P	Ø1~Ø13	4.74
BT50-ER25-70	70	29	42	25	42	M16-2.0P	Ø1~Ø16	4.16
BT50-ER25-105	105	57	42	25	42	M16-2.0P	Ø1~Ø16	4.45
BT50-ER25-135	135	87	42	25	42	M16-2.0P	Ø1~Ø16	4.57
BT50-ER25-165	165	117	42	25	42	M16-2.0P	Ø1~Ø16	4.89
BT50-ER25-200	200	-	42	25	42	M16-2.0P	Ø1~Ø16	5.22
BT50-ER32-80	80	39	50	32	50	M16-2.0P	Ø2~Ø20	4.21
BT50-ER32-100	100	57	50	32	50	M16-2.0P	Ø2~Ø20	4.47
BT50-ER32-120	120	72	50	32	50	M16-2.0P	Ø2~Ø20	4.90
BT50-ER32-150	150	102	50	32	50	M16-2.0P	Ø2~Ø20	5.01
BT50-ER32-200	200	152	50	32	50	M16-2.0P	Ø2~Ø20	5.71
BT50-ER32-250	250	-	50	32	50	M16-2.0P	Ø2~Ø20	5.80
BT50-ER40-80	80	39	63	40	63	M20-2.0P	Ø3~Ø26	4.26
BT50-ER40-100	100	57	63	40	63	M20-2.0P	Ø3~Ø26	4.71
BT50-ER40-120	120	72	63	40	63	M20-2.0P	Ø3~Ø26	5.05
BT50-ER40-135	135	87	63	40	63	M20-2.0P	Ø3~Ø26	5.36
BT50-ER40-150	150	-	63	40	63	M20-2.0P	Ø3~Ø26	5.68
BT50-ER40-200	200	-	63	40	63	M20-2.0P	Ø3~Ø26	7.00
BT50-ER50-90	90	49	78	50	78	M24-2.0P	Ø5~Ø34	4.45
BT50-ER50-120	120	79	78	50	78	M24-2.0P	Ø5~Ø34	5.40
BT50-ER50-165	165	124	78	50	78	M24-2.0P	Ø5~Ø34	7.10

選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B612	B634	B650

• 長度單位 Unit of Length (mm)

M 型 BT/ER 立銑刀夾頭
BT/ER COLLET CHUCK(M TYPE)

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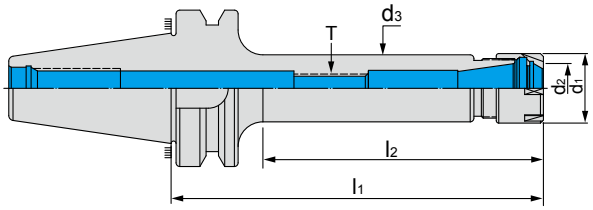

特點 Feature

- 前端採用小徑螺帽，避免干涉
- 本體與螺帽皆已預設定動平衡 G6.3 10000rpm

-M type with small diameter can avoid to interfere during machining.
-Dynamic balancing G6.3 at 10000rpm.

規格 Spec.	l_1	l_2	d_1	d_2	d_3	T	夾持範圍 Clamping Range	重量 (KGS) Weight
BT30-ER11M-70	70	40	16	11	15	M6-1.0P	Ø1~Ø7	0.50
BT30-ER11M-100	100	70	16	11	15	M6-1.0P	Ø1~Ø7	0.51
BT30-ER11M-120	120	88	16	11	15	M6-1.0P	Ø1~Ø7	0.56
BT30-ER16M-70	70	43	22	16	21	M10-1.5P	Ø1~Ø10	0.50
BT30-ER16M-100	100	68	22	16	21	M10-1.5P	Ø1~Ø10	0.57
BT30-ER16M-120	120	88	22	16	21	M10-1.5P	Ø1~Ø10	0.61
BT30-ER20M-70	70	45	28	20	27	M12-1.75P	Ø1~Ø13	0.53
BT30-ER20M-100	100	71	28	20	27	M12-1.75P	Ø1~Ø13	0.65
BT30-ER20M-120	120	91	28	20	27	M12-1.75P	Ø1~Ø13	0.74
BT30-ER20M-150	150	121	28	20	27	M12-1.75P	Ø1~Ø13	0.96
BT40-ER11M-70	70	33	16	11	15	M6-1.0P	Ø1~Ø7	1.07
BT40-ER11M-100	100	63	16	11	15	M6-1.0P	Ø1~Ø7	1.09
BT40-ER11M-125	125	88	16	11	15	M6-1.0P	Ø1~Ø7	1.40
BT40-ER11M-150	150	113	16	11	15	M6-1.0P	Ø1~Ø7	1.34
BT40-ER16M-70	70	38	22	16	21	M10-1.5P	Ø1~Ø10	1.10
BT40-ER16M-100	100	63	22	16	21	M10-1.5P	Ø1~Ø10	1.17
BT40-ER16M-125	125	88	22	16	21	M10-1.5P	Ø1~Ø10	1.50
BT40-ER16M-150	150	113	22	16	21	M10-1.5P	Ø1~Ø10	1.43
BT40-ER20M-70	70	38	28	20	27	M12-1.75P	Ø1~Ø13	1.16
BT40-ER20M-100	100	63	28	20	27	M12-1.75P	Ø1~Ø13	1.24
BT40-ER20M-125	125	88	28	20	27	M12-1.75P	Ø1~Ø13	1.38
BT40-ER20M-150	150	113	28	20	27	M12-1.75P	Ø1~Ø13	1.80
BT50-ER11M-70	70	22	16	11	15	M6-1.0P	Ø1~Ø7	3.80
BT50-ER11M-90	90	42	16	11	15	M6-1.0P	Ø1~Ø7	3.90
BT50-ER11M-105	105	57	16	11	15	M6-1.0P	Ø1~Ø7	4.00
BT50-ER11M-135	135	87	16	11	15	M6-1.0P	Ø1~Ø7	4.10
BT50-ER11M-165	165	92	16	11	15	M6-1.0P	Ø1~Ø7	4.15
BT50-ER16M-70	70	29	22	16	21	M10-1.5P	Ø1~Ø10	3.90
BT50-ER16M-90	90	42	22	16	21	M10-1.5P	Ø1~Ø10	4.00
BT50-ER16M-105	105	57	22	16	21	M10-1.5P	Ø1~Ø10	4.10
BT50-ER16M-135	135	87	22	16	21	M10-1.5P	Ø1~Ø10	4.20
BT50-ER16M-165	165	117	22	16	21	M10-1.5P	Ø1~Ø10	4.30
BT50-ER20M-90	90	42	28	20	27	M12-1.75P	Ø1~Ø13	4.10
BT50-ER20M-105	105	57	28	20	27	M12-1.75P	Ø1~Ø13	4.20
BT50-ER20M-135	135	87	28	20	27	M12-1.75P	Ø1~Ø13	4.40
BT50-ER20M-165	165	117	28	20	27	M12-1.75P	Ø1~Ø13	4.60

選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B612	B634	B650

• 長度單位 Unit of Length (mm)

BT/MLC 直式筒夾銑床夾頭
BT/MLC MULTI-LOCK COLLET CHUCK

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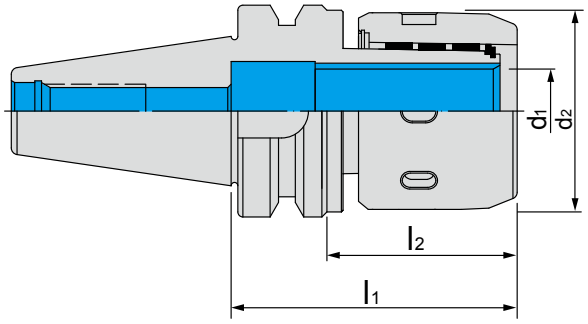


特點 Feature

- 開槽 : 此款刀桿內孔分割 6 槽以防止滑動並加大夾持力
- 另有套裝可選購

-Slotting-the inner hole of the tool holder has 6 slots to prevent slipping and to increase the clamping power.
- Available in a set.

規格 Spec.	l_1	l_2	d_1	d_2	夾持範圍 Clamping Range	重量 (KGS) Weight
BT30-MLC20-75	75	70	20	55	Ø6~Ø20	1.18
BT30-MLC20-90	90	70	20	55	Ø6~Ø20	1.37
BT40-MLC20-80	80	70	20	55	Ø6~Ø20	1.78
BT40-MLC20-100	100	70	20	55	Ø6~Ø20	2.00
BT40-MLC20-135	135	70	20	55	Ø6~Ø20	2.41
BT40-MLC32-90	90	75	32	73	Ø6~Ø32	2.18
BT40-MLC32-105	105	75	32	73	Ø6~Ø32	2.60
BT40-MLC32-135	135	75	32	73	Ø6~Ø32	3.21
BT50-MLC20-105	105	70	20	55	Ø6~Ø20	4.50
BT50-MLC20-150	150	70	20	55	Ø6~Ø20	4.90
BT50-MLC32-110	110	75	32	73	Ø6~Ø32	5.17
BT50-MLC32-135	135	75	32	73	Ø6~Ø32	5.64
BT50-MLC32-165	165	75	32	73	Ø6~Ø32	6.26
BT50-MLC32-200	200	75	32	73	Ø6~Ø32	6.98
BT50-MLC42-110	110	90	42	95	Ø6~Ø42	5.74
BT50-MLC42-130	130	90	42	95	Ø6~Ø42	6.30
BT50-MLC42-165	165	90	42	95	Ø6~Ø42	7.31

- 附扳手 Attaches the spanner.

※ 注意 : 銑刀裝置入筒夾需超過筒夾有效挾持長度，以避免因非完全挾持，導致筒夾損壞、變形
Note: To avoid the improper clamping (no clamp at all) & damage and deformation for collect, it should exceed the effective length of collet when installing the cutter on to collet.

選配表 Option

拉頭 Pull Stud	筒夾 Collet	扳手 Spanner
B645-B647	B631	B653

• 長度單位 Unit of Length (mm)

MLD

直式筒夾銑床夾頭

台灣精品 2014
TAIWAN EXCELLENCE

重切削加工
HEAVY DUTY MACHINING

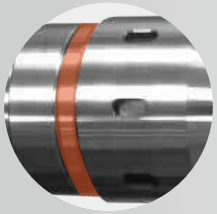
高穩定性
HIGH STABILITY

5μm

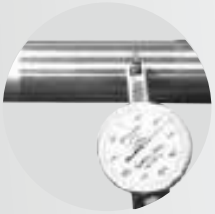
高剛性及最佳防塵效果
High Rigidity And Dust Proof

- 夾持刀具後 (柄徑公差尺寸需小於 h6) ，螺帽及法蘭端面緊貼，可預防軸承網變形、提升剛性及達到防塵效果。
- 具高精度及易於操作的特性，高轉速或重切削加工情況下不易產生振動。
- After clamping tools (the requirement of shank tolerance is less than h6), the nut and the flange contact firmly to prevent the needle bearing cage from deforming, rigidity is increased and achieves the function of dust proof.
- Featured with high precision and easy-to-fasten, vibrations do not occur in high speed machining or heavy duty machining

偏擺精度 5μm內
Runout Accuracy Within 5μm



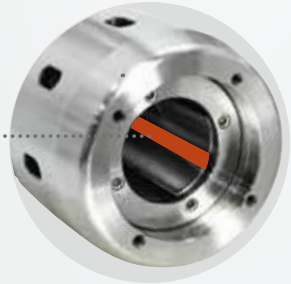
鎖固螺帽後，螺帽與刀桿端面貼合，增加切削鋼性，達到良好的防塵效果。
After fastening,the nuts and tool holders contact tight to enhance the cutting rigidity and achieve dustproof purposes.



MLD 本體 : 四倍長的偏擺精度於 5μm 內。
Runout accuracy within 5μm at 4D length.

軸承網
Needle Bearing Cage

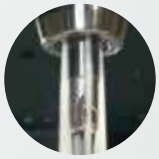
內孔特殊溝槽設計提升夾持力及降低震刀。適用於重切削加工。
Special slotted design of internal hole increases the clamping force and decreases vibration. Suitable for heavy-duty machining.



MLD系列
MLD System

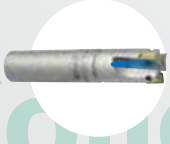
筒夾
Collet

一般刀具
General Tool

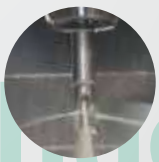


止水端蓋
Sealed Cap

筒夾
Collet



出水型刀具
Coolant Through Tool



Multi-lock Collet Chuck

BT/MLD 直式筒夾銑床夾頭
BT/MLD MULTI-LOCK COLLET CHUCK

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Fig.1

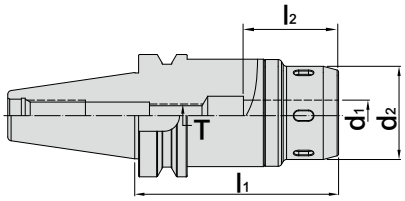
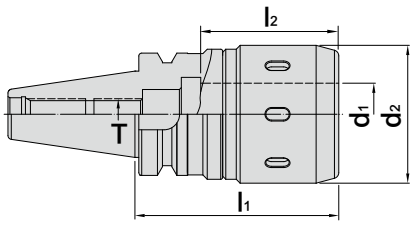


Fig.2



特點 Feature

- 開槽 - 此款刀桿內孔分割 6 槽以防止滑動並加大夾持力
- 另有套裝可選購
- MLD20、MLD-3/4、MLK20 扳手共用
- MLD25、EOC25、MLK25 扳手共用
- MLD32、MLD-1-1/4、MLK32 扳手共用

-Slotting-the inner hole of the tool holder has 6 slots to prevent slipping and to increase the clamping power.
- Available in a set.
- MLD20 and MLD-3/4 MLK20 spanner can be used in common.
- MLD25 and EOC25 MLK25 spanner can be used in common.
- MLD32 and MLD-1-1/4 MLK32 spanner can be used in common.

規格 Spec.	l_1	d_1	d_2	T	Fig.	重量 (KGS) Weight
BT30-MLD12-80	80	12	42	M12-1.75P	2	1.00
BT30-MLD16-75	75	16	48	M12-1.75P	1	1.20
BT30-MLD20-80	80	20	56.5	M12-1.75P	2	1.90
BT30-MLD20-90	90	20	56.5	M16-2.0P	2	2.10
BT30-MLD25-90	90	25	60	M16-2.0P	2	1.34
BT40-MLD12-75	75	12	42	M12-1.75P	1	2.10
BT40-MLD12-105	105	12	42	M12-1.75P	1	2.10
BT40-MLD12-135	135	12	42	M12-1.75P	1	2.20
BT40-MLD16-75	75	16	48	M12-1.75P	1	2.20
BT40-MLD16-105	105	16	48	M12-1.75P	1	2.30
BT40-MLD16-135	135	16	48	M12-1.75P	1	2.30
BT40-MLD20-80	80	20	56.5	M16-2.0P	1	2.30
BT40-MLD20-100	100	20	56.5	M16-2.0P	1	2.50
BT40-MLD20-135	135	20	56.5	M16-2.0P	1	2.40
BT40-MLD25-85	85	25	60	M16-2.0P	1	2.40
BT40-MLD25-100	100	25	60	M16-2.0P	1	2.40
BT40-MLD32-95	95	32	71	M16-2.0P	2	2.70
BT40-MLD32-105	105	32	71	M16-2.0P	2	2.70
BT40-MLD32-135	135	32	71	M16-2.0P	2	3.00

- 附扳手 Attaches the spanner.

※ 注意 : 銑刀裝置入筒夾需超過筒夾有效挾持長度，以避免因非完全挾持，導致筒夾損壞、變形
Note: To avoid the improper clamping (no clamp at all) & damage and deformation for collect, it should exceed the effective length of collet when installing the cutter onto collet.

選配表 Option

拉頭 Pull Stud	筒夾 Collet	筒夾 Collet	扳手 Spanner	止水端蓋 Sealed Cap
B645-B647	B631	B632	B653	B640

• 長度單位 Unit of Length (mm)

BT/MLD 直式筒夾銑床夾頭
BT/MLD MULTI-LOCK COLLET CHUCK

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Fig.1

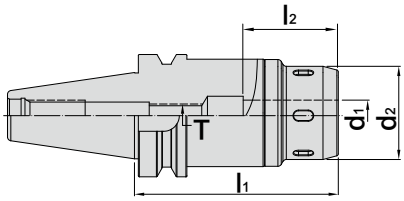
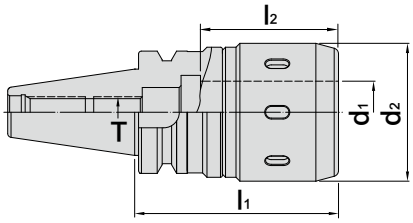


Fig.2



特點 Feature

- 開槽 - 此款刀桿內孔分割 6 槽以防止滑動並加大夾持力
- 另有套裝可選購
- MLD20、MLD-3/4、MLK20 扳手共用
- MLD25、EOC25、MLK25 扳手共用
- MLD32、MLD-1-1/4、MLK32 扳手共用

-Slotting-the inner hole of the tool holder has 6 slots to prevent slipping and to increase the clamping power.
- Available in a set.
- MLD20 and MLD-3/4 MLK20 spanner can be used in common.
- MLD25 and EOC25 MLK25 spanner can be used in common.
- MLD32 and MLD-1-1/4 MLK32 spanner can be used in common.

規格 Spec.	l_1	d_1	d_2	T	Flg.	重量 (KGS) Weight
BT50-MLD12-105	105	12	42	M12-1.75P	1	4.60
BT50-MLD12-135	135	12	42	M12-1.75P	1	5.10
BT50-MLD12-165	165	12	42	M12-1.75P	1	5.80
BT50-MLD16-105	105	16	48	M12-1.75P	1	4.90
BT50-MLD16-135	135	16	48	M12-1.75P	1	5.60
BT50-MLD16-165	165	16	48	M12-1.75P	1	6.50
BT50-MLD20-105	105	20	56.5	M16-2.0P	1	4.50
BT50-MLD20-150	150	20	56.5	M16-2.0P	1	4.90
BT50-MLD25-100	100	25	60	M16-2.0P	1	4.80
BT50-MLD25-130	130	25	60	M16-2.0P	1	5.70
BT50-MLD32-105	105	32	71	M24-3.0P	1	5.00
BT50-MLD32-135	135	32	71	M24-3.0P	1	5.20
BT50-MLD32-165	165	32	71	M24-3.0P	1	6.70
BT50-MLD42-115	115	42	90	M24-3.0P	1	5.50
BT50-MLD42-130	130	42	90	M24-3.0P	1	6.50
BT50-MLD42-165	165	42	90	M24-3.0P	1	7.70

- 附扳手 Attaches the spanner.

※ 注意 : 銑刀裝置入筒夾需超過筒夾有效挾持長度，以避免因非完全挾持，導致筒夾損壞、變形
Note: To avoid the improper clamping (no clamp at all) & damage and deformation for collect, it should exceed the effective length of collet when installing the cutter onto collet.

選配表 Option

拉頭 Pull Stud	筒夾 Collet	扳手 Spanner	止水螺帽 Sealed Cap
B645-B647	B631	B653	B640

• 長度單位 Unit of Length (mm)

BT 斜柄鑽頭套筒
BT MORSE TAPER ADAPTER

DIN-228-B　JIS MAS 403

Fig.1

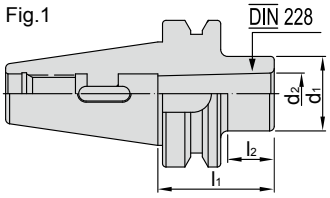
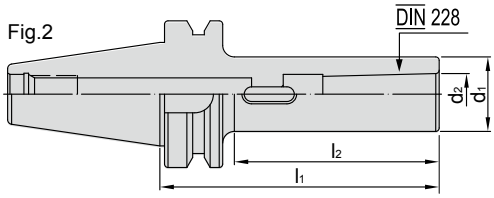


Fig.2



規格 Spec.	l_1	l_2	d_1	d_2	Fig.	重量 (KGS) Weight
BT30-MTA1-45	45	20	25	12.065	1	0.48
BT30-MTA1-105	105	78	25	12.065	2	0.80
BT30-MTA2-60	60	35	32	17.78	1	0.55
BT30-MTA2-120	120	95	32	17.78	2	0.90
BT30-MTA3-80	80	56	40	23.825	1	0.73
BT40-MTA1-45	45	15	25	12.065	1	1.07
BT40-MTA1-120	120	83	25	12.065	2	1.41
BT40-MTA2-50	50	20	32	17.78	1	1.10
BT40-MTA2-120	120	88	32	17.78	2	1.80
BT40-MTA3-70	70	38	40	23.825	1	1.20
BT40-MTA3-135	135	102	40	23.825	2	1.85
BT40-MTA4-95	95	63	48	31.267	1	1.42
BT40-MTA4-165	165	133	48	31.267	2	2.41
BT50-MTA1-45	45	2	25	12.065	1	3.95
BT50-MTA1-120	120	74	25	12.065	2	4.06
BT50-MTA1-180	180	132	25	12.065	2	4.32
BT50-MTA2-60	60	17	32	17.78	1	3.98
BT50-MTA2-135	135	89	32	17.78	2	4.24
BT50-MTA2-180	180	132	32	17.78	2	5.00
BT50-MTA3-65	65	22	40	23.825	1	4.02
BT50-MTA3-150	150	107	40	23.825	2	4.61
BT50-MTA3-180	180	132	40	23.825	2	4.91
BT50-MTA4-95	95	52	48	31.267	1	4.20
BT50-MTA4-180	180	132	48	31.267	2	5.50
BT50-MTA5-105	105	62	63	44.399	1	4.30

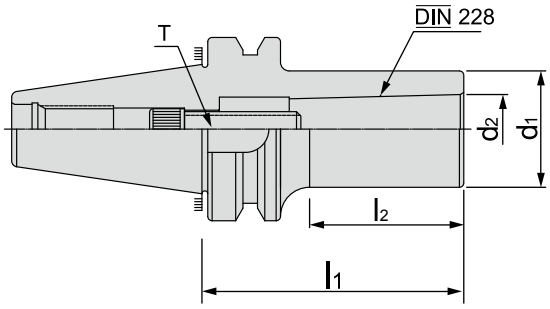
選配表 Option

拉頭 Pull Stud	退鑽器 Hand Drift
B645-B647	B683

• 長度單位 Unit of Length (mm)

BT 斜柄鑽頭套筒
BT MORSE TAPER ADAPTER

DIN-6364 JIS MAS 403



特點 Feature

- 用於夾持莫式錐度、尾端附內螺紋的切削刀具或是延長桿

-For screw-on the cutting tools or extention tools with morse taper.

規格 Spec.	莫式錐度 MT	l_1	l_2	d_1	d_2	T	適用鑽頭	重量 (KGS) Weight
BT30-MTB1-45	1	45	20	25	12.065	M6-1.0P	Ø10~Ø14	0.50
BT30-MTB2-60	2	60	36	32	17.78	M10-1.5P	Ø16~Ø22	0.58
BT40-MTB1-45	1	45	13	25	12.065	M6-1.0P	Ø10~Ø14	1.10
BT40-MTB2-45	2	45	13	32	17.78	M10-1.5P	Ø15~Ø22	1.10
BT40-MTB2-185	2	185	148	32	17.78	M10-1.5P	Ø15~Ø22	1.90
BT40-MTB3-75	3	75	45	40	23.825	M12-1.75P	Ø24~Ø32	1.30
BT40-MTB3-90	3	90	53	40	23.825	M12-1.75P	Ø24~Ø32	1.40
BT40-MTB3-120	3	120	83	40	23.825	M12-1.75P	Ø24~Ø32	1.80
BT40-MTB3-180	3	180	143	40	23.825	M12-1.75P	Ø24~Ø32	2.40
BT40-MTB4-100	4	100	67	48	31.267	M16-2.0P	Ø32~Ø50	1.59
BT40-MTB4-120	4	120	87	48	31.267	M16-2.0P	Ø32~Ø50	1.80
BT40-MTB4-180	4	180	147	48	31.267	M16-2.0P	Ø32~Ø50	2.60
BT50-MTB1-45	1	45	6	25	12.065	M6-1.0P	Ø10~Ø14	4.05
BT50-MTB2-45	2	45	5	32	17.78	M10-1.5P	Ø16~Ø22	4.02
BT50-MTB3-60	3	60	12	40	23.825	M12-1.75P	Ø24~Ø32	4.11
BT50-MTB3-250	3	250	-	34	23.825	M12-1.75P	Ø24~Ø32	6.70
BT50-MTB3-300	3	300	-	34	23.825	M12-1.75P	Ø24~Ø32	7.60
BT50-MTB3-350	3	350	-	34	23.825	M12-1.75P	Ø24~Ø32	8.38
BT50-MTB3-400	3	400	-	34	23.825	M12-1.75P	Ø24~Ø32	9.30
BT50-MTB4-75	4	75	32	48	31.267	M16-2.0P	Ø32~Ø50	4.20
BT50-MTB5-120-M20	5	120	77	63	44.399	M20-2.5P	Ø40	4.57
BT50-MTB5-120-M24	5	120	77	63	44.399	M24-3.0P	Ø40	4.60

• 長度單位 Unit of Length (mm)

GPH

齒驅式鑽夾頭

內部傘型齒輪與傳動齒輪六角孔設計，夾持力達到40~75N·m，可輕鬆夾緊鑽頭、絲攻及絞刀。
The inside bevel gear and hexagonal hole for driving gear make the clamping power achieve 40~75N·m. Easy to tighten drills, taps and reamers.

可正反轉
Clockwise and anticlockwise rotations are workable.

側邊的六角孔鎖固設計
可快速換刀，無須再從機台上卸除刀桿。
The design of fastening from side hexagonal hole allows quick tool change, no need to dismount the chuck from the machine.

鍍鈦夾爪設計，
提升耐磨性。
Titanium-coating jaws improve abrasion resistance.

Gear Driving
Drill Chuck Holder

BT/GPH 齒驅式鑽夾頭
BT/GPH GEAR DRIVING DRILL CHUCK HOLDER

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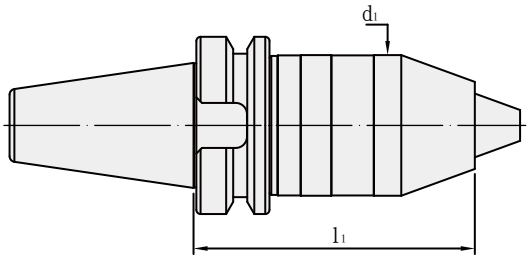
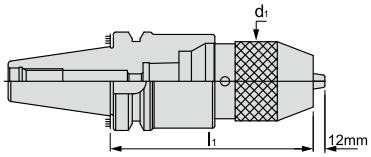
B6339

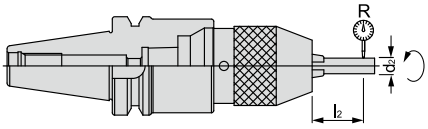
NEW



規格 Spec.	l_1	d_1	夾持範圍 Clamping Capacity	重量 (KGS) Weight
BT40-GPH13-98	98	50	1 ~ 13 mm	1.70
BT50-GPH13-109	109	50	1 ~ 13 mm	4.10

BT/SPU 直結式鑽夾頭
BT/SPU DRILL CHUCK HOLDER





規格 Spec.	l_1	l_2	d_1	d_2	夾持範圍 Clamping Capacity	R	重量 (KGS) Weight
BT30-SPU8-80	80	55	37	6	1~8mm	0.04	0.87
BT30-SPU13-110	110	75	50	13	1~13mm	0.04	1.61
BT40-SPU8-85	85	55	37	6	1~8mm	0.04	1.56
BT40-SPU13-100	100	75	50	13	1~13mm	0.04	2.04
BT40-SPU13-130	130	75	50	13	1~13mm	0.04	2.76
BT40-SPU16-105	105	80	57	16	3~16mm	0.04	2.21
BT50-SPU8-90	90	55	37	6	1~8mm	0.04	4.16
BT50-SPU13-100	100	75	50	13	1~13mm	0.04	4.74
BT50-SPU13-120	120	75	50	13	1~13mm	0.04	5.12
BT50-SPU13-180	180	75	50	13	1~13mm	0.04	6.31
BT50-SPU16-105	105	80	57	16	3~16mm	0.04	4.98
BT50-SPU16-130	130	80	57	16	3~16mm	0.04	5.45
BT50-SPU16-190	190	80	57	16	3~16mm	0.04	7.25

- 附扳手 Attaches the spanner.

選配表 Option

拉頭 Pull Stud
B645-B647

• 長度單位 Unit of Length (mm)

BT/SPH 強力型直結式鑽頭刀桿
BT/SPH DRILL CHUCK HOLDER INTEGRATED TYPE

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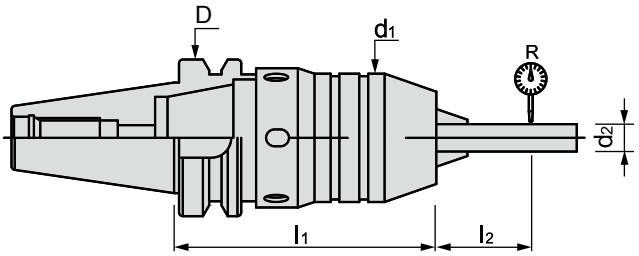
LEMMA



特點 Feature

- 能增加鑽夾頭的堅固性及精準性，於使用綜合加工中心機的換刀系統
- 刀柄和鑽夾頭結合為一體。即使是作重切削的加工，鑽夾頭也不會脫落
- 即使機器主軸立即停止，刀具也不會因此脫落
- 超過長時間的使用，此夾頭仍保持高精度

-Designed to maximize drill chuck rigidity and precision on machine centers with automatic tool changer.
-The shank and Universal Drill Chuck are combined as one body, so that the Drill Chuck will not be fallen out when heavy cutting is being performed.
-The drill will not be dropped out when the main spindle of machine instantly stops.
-High precision can be maintained over a long period of time.

規格 Spec.	l_1	l_2	D	d_1	d_2	夾持範圍 Clamping Range		R	重量 (KGS) Weight
						mm	inch		
BT30-SPH08-80	83	55	46	38	6	1~8	1/24~5/16	0.04	2.20
BT30-SPH13-100	102	80	46	50	8	1~13	1/24~1/2	0.04	2.50
BT40-SPH08-85	87	55	63	38	6	1~8	1/24~5/16	0.04	2.40
BT40-SPH13-105	102	80	63	50	8	1~13	1/24~1/2	0.04	2.18
BT40-SPH16-110	119	80	63	57	10	3~16	1/8~5/8	0.04	3.00
BT50-SPH13-115	115	80	100	50	8	1~13	1/24~1/2	0.04	4.88
BT50-SPH16-120	120	80	100	57	10	3~16	1/8~5/8	0.04	6.00

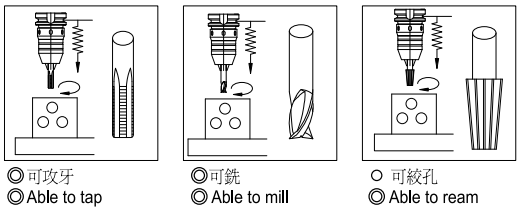
- 附扳手 Attaches the spanner.

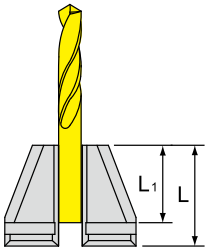
注意事項 Notice

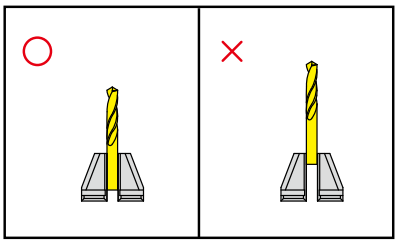
本產品之最大優點為簡單容易操作、快速方便、安全性極高，當使用本產品時，為了減少意外事故發生，延長產品壽命，必須遵守以下列舉的基本事項：夾持長度 (l1) 應將鑽頭柄插入到底或至少爪長 (L) 的 2/3。
The most advantage for this product is easy to operate, item saving and high safety. Please abide by following to avoid the accidents & extend the product life when in use. The shank of drill (clamping length L1) should be inserted into the bottom fully. Or at least 2/3 length of L

以下為各種規格爪長度及夾持量
Following table is the specification for clamping length & volume

規格 Spec.	夾爪長度 L(mm)	夾持量 L1(mm) 至少
3mm (1/8")	14	9
6.5mm (1/4")	20	13
8mm (5/16")	26	17
10mm (3/8")	26	17
13mm (1/2")	28	19
16mm (5/8")	30	20







選配表 Option

拉頭 Pull Stud

B645-B647

• 長度單位 Unit of Length (mm)

BT/FMA 平面銑刀柄
BT/FMA FACE MILL ARBOR(TYPE FMA)

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Fig.1

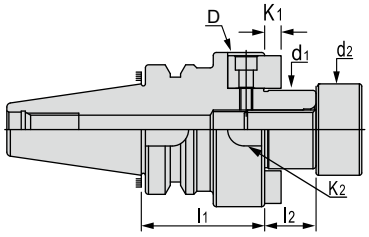
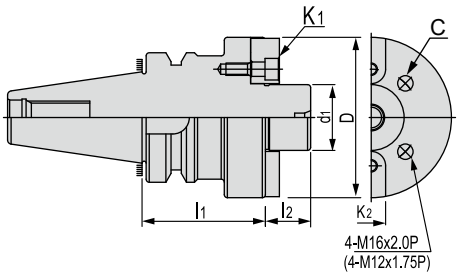


Fig.2



特點 Feature

- 平面銑刀配合部位 (d1)，軸系公差 h6
- 整支通孔，利於出水及抗震

-d1 tolerance is h6.
-The tool holder with through coolant design is better for water to get through vibration resistance.

FMA 為英制規格 FMA is INCH Size

規格 Spec.	l_1	l_2	D	d_1	d_2	K_1	K_2	C	Fig.	重量 (KGS) Weight
BT30-FMA25.4-45	45	20	50	25.4	31.5	4.52	9.52	-	1	1.10
BT30-FMA25.4-60	60	20	50	25.4	31.5	4.52	9.52	-	1	1.10
BT30-FMA31.75-45	45	22	60	31.75	41	6.7	12.7	-	1	1.16
BT40-FMA25.4-45	45	20	50	25.4	31.5	4.52	9.52	-	1	1.44
BT40-FMA25.4-60	60	20	50	25.4	31.5	4.52	9.52	-	1	1.66
BT40-FMA25.4-90	90	20	50	25.4	31.5	4.52	9.52	-	1	2.18
BT40-FMA25.4-105	105	20	50	25.4	31.5	4.52	9.52	-	1	2.39
BT40-FMA31.75-45	45	22	60	31.75	41	6.7	12.7	-	1	1.68
BT40-FMA31.75-75	75	22	60	31.75	41	6.7	12.7	-	1	2.33
BT40-FMA31.75-90	90	22	60	31.75	41	6.7	12.7	-	1	2.72
BT40-FMA38.1-60	60	25	75	38.1	44.5	8.87	15.87	-	1	2.60
BT40-FMA50.8-60	60	36	98	50.8	65	9.75	19.05	-	1	3.82
BT40-FMA47.625-65	65	32	128.75	47.625	-	12.5	25.4	PCD Ø101.6	2	6.50
BT50-FMA25.4-45	45	20	50	25.4	31.5	4.52	9.52	-	1	4.21
BT50-FMA25.4-90	90	20	50	25.4	31.5	4.52	9.52	-	1	4.71
BT50-FMA25.4-150	150	20	50	25.4	31.5	4.52	9.52	-	1	5.54
BT50-FMA31.75-45	45	22	60	31.75	41	6.2	12.7	-	1	4.39
BT50-FMA31.75-75	75	22	60	31.75	41	6.7	12.7	-	1	4.89
BT50-FMA31.75-105	105	22	60	31.75	41	6.7	12.7	-	1	5.70
BT50-FMA38.1-45	45	25	80	38.1	44.5	8.87	15.87	-	1	4.68
BT50-FMA38.1-75	75	25	80	38.1	44.5	8.87	15.87	-	1	5.80
BT50-FMA50.8-45	45	36	98	50.8	65	9.75	19.05	-	1	5.70
BT50-FMA50.8-75	75	36	98	50.8	65	9.75	19.05	-	1	6.82
BT50-FMA47.62-75	75	32	128.75	47.62	-	12.5	25.4	PCD Ø101.6	2	8.82

選配表 Option

拉頭 Pull Stud

B645-B647

• 長度單位 Unit of Length (mm)

BT/FMA 平面銑刀柄（加長斜度柄）
BT/FMA FACE MILL ARBOR(EXTENSION TYPE)

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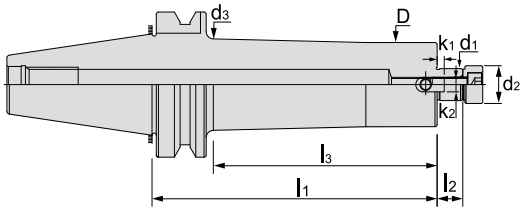


特點 Feature

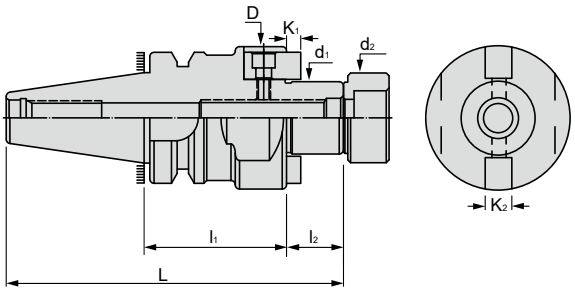
- 平面銑刀配合部位 (d1)，軸系公差 h6
- 整支通孔，利於出水及抗震

-d1 tolerance is h6.
-The tool holder with through coolant design is better for water to get through vibration resistance

FMA 為英制規格 FMA is INCH Size

規格 Spec.	l_1	l_2	l_3	D	d_1	d_2	d_3	K_1	K_2	重量 (KGS) Weight
BT50-FMA25.4-125BG	125	20	79	48	25.4	31.5	60	4.25	9.52	5.36
BT50-FMA25.4-150BG	150	20	102	48	25.4	31.5	60	4.25	9.52	6.40
BT50-FMA25.4-200BG	200	20	152	58	25.4	31.5	63	4.25	9.52	7.40
BT50-FMA25.4-250BG	250	20	202	58	25.4	31.5	63	4.25	9.52	8.60
BT50-FMA25.4-300BG	300	20	252	58	25.4	31.5	63	4.25	9.52	9.70
BT50-FMA25.4-350BG	350	20	302	58	25.4	31.5	66	4.25	9.52	10.8
BT50-FMA25.4-400BG	400	20	352	58	25.4	31.5	66	4.25	9.52	11.9
BT50-FMA31.75-125BG	125	22	82	70	31.75	41	75	6.7	12.7	5.60
BT50-FMA31.75-150BG	150	22	107	70	31.75	41	75	6.7	12.7	7.34
BT50-FMA31.75-175BG	175	22	132	70	31.75	41	75	6.7	12.7	8.30
BT50-FMA31.75-200BG	200	22	157	70	31.75	41	75	6.7	12.7	9.10
BT50-FMA31.75-250BG	250	22	207	70	31.75	41	75	6.7	12.7	10.6
BT50-FMA31.75-300BG	300	22	252	70	31.75	41	75	6.7	12.7	12.1
BT50-FMA31.75-350BG	350	22	302	70	31.75	41	75	6.7	12.7	13.7

BT 平面銑刀柄（削平兩端輕量型）
BT FACE MILL ARBOR(LIGHTWEIGHT TYPE WITH TWO FLAT SIDES)



規格 Spec.	L	l_1	l_2	D	d_1	d_2	k_1	k_2	重量 (KGS) Weight
BT30-FMA25.4-50-BROTHER	118.4	50	20	50	25.4	31.5	4.52	9.52	0.94
BT30-FMA31.75-50-BROTHER	120.4	50	22	60	31.75	41	6.7	12.7	1.22
BT30-FMB22-50-BROTHER	117.7	50	19	48	22	26	4.8	10	0.90
BT30-FMB27-50-BROTHER	118.4	50	20	60	27	31.5	5.8	12	1.00

選配表 Option

拉頭 Pull Stud
B645-B647

• 長度單位 Unit of Length (mm)

BT/FMB 平面銑刀柄
BT/FMB FACE MILL ARBOR(TYPE FMB)

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Fig.1

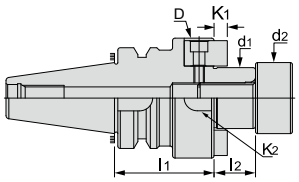
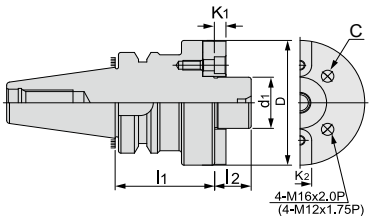


Fig.2



FMB 為公制規格 FMB is METRIC size

規格 Spec.	l_1	l_2	D	d_1	d_2	k_1	k_2	C	Fig.	重量 (KGS) Weight
BT30-FMB16-50	50	16	34	16	-	5	8	-	1	0.68
BT30-FMB22-45	45	19	48	22	26	4.8	10	-	1	0.82
BT30-FMB22-60	60	19	48	22	26	4.8	10	-	1	1.00
BT30-FMB27-45	45	20	60	27	31.5	5.8	12	-	1	1.05
BT30-FMB27-60	60	20	60	27	31.5	5.8	12	-	1	1.30
BT30-FMB32-45	45	22	78	32	41	7	14	-	1	1.58
BT40-FMB16-50	50	16	34	16	-	5	8	-	1	1.22
BT40-FMB16-90	90	16	34	16	-	5	8	-	1	1.48
BT40-FMB22-45	45	19	48	22	26	4.8	10	-	1	1.38
BT40-FMB22-60	60	19	48	22	26	4.8	10	-	1	1.57
BT40-FMB22-100	100	19	48	22	26	4.8	10	-	1	2.17
BT40-FMB22-150	150	19	48	22	26	4.8	10	-	1	2.86
BT40-FMB22-200	200	19	48	22	26	4.8	10	-	1	3.58
BT40-FMB27-45	45	20	60	27	31.5	5.8	12	-	1	1.58
BT40-FMB27-60	60	20	60	27	31.5	5.8	12	-	1	1.89
BT40-FMB27-90	90	20	60	27	31.5	5.8	12	-	1	2.61
BT40-FMB27-105	105	20	60	27	31.5	5.8	12	-	1	2.93
BT40-FMB32-60	60	22	78	32	41	6.8	14	-	1	2.10
BT40-FMB40-60	60	25	80	40	48	8.3	16	-	1	2.80
BT50-FMB16-50	50	16	34	16	-	5	8	-	1	4.02
BT50-FMB16-90	90	16	34	16	-	5	8	-	1	4.14
BT50-FMB22-45	45	19	48	22	26	4.8	10	-	1	4.15
BT50-FMB22-90	90	19	48	22	26	4.8	10	-	1	4.68
BT50-FMB22-150	150	19	48	22	26	4.8	10	-	1	5.35
BT50-FMB22-200	200	19	48	22	26	4.8	10	-	1	6.02
BT50-FMB22-250	250	19	48	22	26	4.8	10	-	1	6.64
BT50-FMB22-300	300	19	48	22	26	4.8	10	-	1	9.40
BT50-FMB22-350	350	19	48	22	26	4.8	10	-	1	10.5
BT50-FMB22-400	400	19	48	22	26	4.8	10	-	1	10.88
BT50-FMB27-50	50	20	60	27	31.5	5.8	12	-	1	4.41
BT50-FMB27-90	90	20	60	27	31.5	5.8	12	-	1	5.09
BT50-FMB27-150	150	20	60	27	31.5	5.8	12	-	1	6.30
BT50-FMB27-200	200	20	60	27	31.5	5.8	12	-	1	7.42
BT50-FMB27-250	250	20	60	27	31.5	5.8	12	-	1	8.43
BT50-FMB32-50	50	22	78	32	41	6.8	14	-	1	4.69
BT50-FMB32-90	90	22	78	32	41	6.8	14	-	1	5.96
BT50-FMB40-50	50	25	89	40	48	8.3	16	-	1	5.20
BT50-FMB40-90	90	25	89	40	48	8.3	16	-	1	6.00
BT50-FMB40-105	105	25	89	40	48	8.3	16	-	1	7.20
BT50-FS40F-75	75	26	110	40	-	8.3	16	PCD Ø66.7	2	6.00
BT50-FS60F-75	75	25	138	60	-	12.5	25.4	PCD Ø101.6	2	8.49

選配表 Option

拉頭 Pull Stud

B645-B647

• 長度單位 Unit of Length (mm)

BT/FMB 平面銑刀柄（加長斜度柄）
BT/FMB FACE MILL ARBOR(EXTENSION TYPE)

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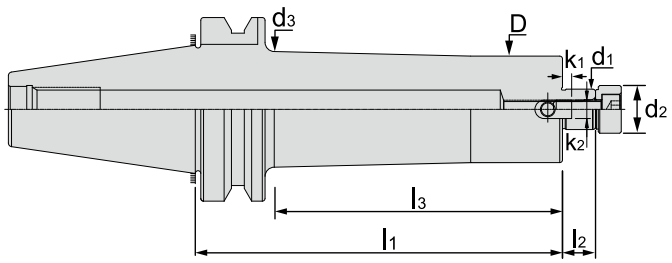

特點 Feature

- 平面銑刀配合部位 (d1)，軸系公差 h6
- 整支通孔，利於出水及抗震

-d1 tolerance is h6.
-The tool holder with through coolant design is better for water to get through vibration resistance

FMB 為公制規格 FMB is METRIC size

規格 Spec.	l_1	l_2	l_3	D	d_1	d_2	d_3	k_1	k_2	重量 (KGS) Weight
BT40-FMB22-150BG	150	19	118	48	22	31.75	51	4.25	10	2.95
BT40-FMB22-200BG	200	19	168	48	22	31.75	51	4.25	10	3.68
BT40-FMB22-250BG	250	19	218	48	22	31.75	51	4.25	10	4.38
BT40-FMB22-300BG	300	19	-	48	22	31.75	51	4.25	10	5.40
BT50-FMB22-100BG	100	19	-	58	22	31.75	62.5	4.25	10	6.00
BT50-FMB22-150BG	150	19	107	58	22	31.75	62.5	4.25	10	6.17
BT50-FMB22-200BG	200	19	157	58	22	31.75	62.5	4.25	10	7.30
BT50-FMB22-250BG	250	19	207	58	22	31.75	62.5	4.25	10	9.40
BT50-FMB22-300BG	300	19	257	58	22	31.75	62.5	4.25	10	10.24
BT50-FMB22-350BG	350	19	307	58	22	31.75	62.5	4.25	10	10.3
BT50-FMB22-400BG	400	19	352	58	22	31.75	62.5	4.25	10	11.4
BT50-FMB22-450BG	450	19	402	58	22	31.75	62.5	4.25	10	12.3
BT50-FMB22-500BG	500	19	452	58	22	31.75	62.5	4.25	10	13.7
BT50-FMB22-600BG	600	19	-	58	22	31.75	62.5	4.25	10	17.2
BT50-FMB27-150BG	150	20	107	60	27	31.5	78	5.8	12	6.82
BT50-FMB27-200BG	200	20	157	60	27	31.5	78	5.8	12	8.50
BT50-FMB27-250BG	250	20	207	60	27	31.5	78	5.8	12	9.50
BT50-FMB27-300BG	300	20	257	60	27	31.5	78	5.8	12	10.4
BT50-FMB27-350BG	350	20	307	60	27	31.5	78	5.8	12	11.4
BT50-FMB27-400BG	400	20	352	60	27	31.5	78	5.8	12	12.4
BT50-FMB27-450BG	450	20	402	60	27	31.5	78	5.8	12	13.4
BT50-FMB27-500BG	500	20	452	60	27	31.5	78	5.8	12	14.4
BT50-FMB32-150BG	150	22	107	78	32	41	85	6.8	14	7.00
BT50-FMB32-200BG	200	22	157	78	32	41	85	6.8	14	8.50
BT50-FMB32-250BG	250	22	207	78	32	41	85	6.8	14	9.50
BT50-FMB32-300BG	300	22	257	78	32	41	85	6.8	14	10.5
BT50-FMB32-350BG	350	22	307	78	32	41	85	6.8	14	11.5
BT50-FMB32-400BG	400	22	352	78	32	41	85	6.8	14	12.5
BT50-FMB32-450BG	450	22	402	78	32	41	85	6.8	14	13.5
BT50-FMB32-500BG	500	22	460	80	32	41	96	6.8	14	14.5

選配表 Option

拉頭 Pull Stud

B645-B647

• 長度單位 Unit of Length (mm)

BT/SCA 側銑刀柄
BT/SCA SIDE CUTTER ADAPTER

DIN-2082-1
DIN-2084-B
NUT FORM DIN-2082-1
BUSH FORM DIN-2084-B
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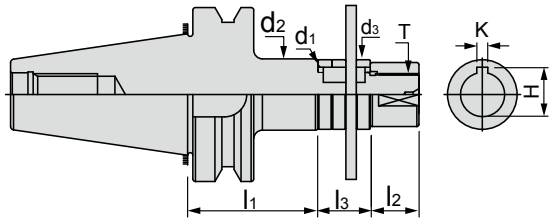

規格 Spec.	l_1	l_2	l_3	d_1	d_2	d_3	K	H	T	重量 (KGS) Weight
BT30-SCA22-60	60	22	30	22	34	34	6	24.3	M20-1.5P	1.20
BT30-SCA22-75	75	22	30	22	34	34	6	24.3	M20-1.5P	1.18
BT40-SCA16-60	60	16	30	16	26	26	4	17.7	M14-1.5P	1.42
BT40-SCA22-60	60	22	30	22	34	34	6	24.3	M20-1.5P	1.60
BT40-SCA22-75	75	22	30	22	34	34	6	24.3	M20-1.5P	1.83
BT40-SCA22-120	120	22	30	22	34	34	6	24.3	M20-1.5P	2.19
BT40-SCA27-75	75	28	30	27	41	40	7	30	M24-1.5P	2.10
BT40-SCA27-120	120	28	30	27	41	40	7	30	M24-1.5P	2.50
BT40-SCA32-90	90	32	30	32	47	46	8	35.5	M30-1.5P	2.72
BT40-SCA25.4-75	75	28	30	25.4	41	40	6.35	28.4	M24-1.5P	2.17
BT40-SCA25.4-120	120	28	30	25.4	41	40	6.35	28.4	M24-1.5P	2.67
BT50-SCA22-90	90	22	30	22	34	34	6	24.3	M20-1.5P	4.40
BT50-SCA22-135	135	22	30	22	34	34	6	24.3	M20-1.5P	4.70
BT50-SCA27-90	90	28	30	27	41	40	7	30	M24-1.5P	4.60
BT50-SCA27-135	135	28	30	27	41	40	7	30	M24-1.5P	5.00
BT50-SCA32-90	90	32	30	32	47	46	8	35.5	M30-1.5P	5.44
BT50-SCA32-135	135	32	30	32	47	46	8	35.5	M30-1.5P	6.16
BT50-SCA40-90	90	40	30	40	55	55	10	43.7	M36-2.0P	5.00
BT50-SCA40-135	135	40	30	40	55	55	10	43.7	M36-2.0P	6.00
BT50-SCA22.22-90	90	22	30	22.22	34	34	3.18	24.6	M20-1.5P	4.40
BT50-SCA22.22-135	135	22	30	22.22	34	34	3.18	24.6	M20-1.5P	4.70
BT50-SCA25.4-90	90	28	30	25.4	41	40	6.35	28.4	M24-1.5P	5.05
BT50-SCA25.4-135	135	28	30	25.4	41	40	6.35	28.4	M24-1.5P	5.58

選配表 Option

拉頭 Pull Stud

B645-B647

• 長度單位 Unit of Length (mm)

BT/SLN 側固式立銑刀柄 (JIS 型)
BT/SLN SIDE LOCK END MILL HOLDER (JIS TYPE)

JIS
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Fig.1

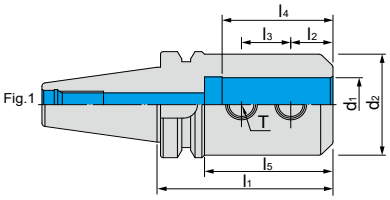
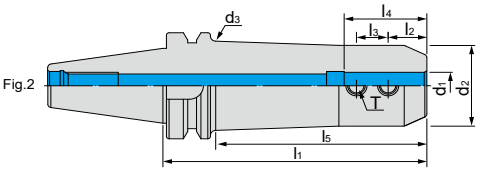


Fig.2



特點 Feature

- 預設定動平衡 G6.3 8000rpm(削平處理)
- 不分孔徑皆為兩只鎖固螺絲

-The pre-balance can reach G6.3 8000rpm.
-With two side-lock screw.

規格 Spec.	l_1	l_2	l_3	l_4	l_5	d_1	d_2	d_3	T	Fig.	重量 (KGS) Weight
BT30-SLN6-60JIS	60	12	10	35		6	25	-	M6-1.0P	1	-
BT30-SLN8-60JIS	60	14	12	35		8	28	-	M8-1.25P	1	-
BT30-SLN10-60JIS	60	15	14	39		10	35	-	M10-1.5P	1	-
BT30-SLN12-60JIS	60	20	16	44		12	40	-	M10-1.5P	1	-
BT30-SLN16-75JIS	75	22	18	47		16	45	-	M10-1.5P	1	-
BT30-SLN20-75JIS	75	25	20	55		20	50	-	M12-1.75P	1	-
BT30-SLN25-90JIS	90	24	25	58	68	25	50	-	M12-1.75P	1	1.70
BT30-SLN32-90JIS	90	24	28	63		32	60	-	M16-2.0P	1	-
BT40-SLN 6-75JIS	75	12	10	35	45	6	25	-	M6-1.0P	1	1.17
BT40-SLN 6-150JIS	150	12	10	35	113	6	25	30	M6-1.0P	2	1.50
BT40-SLN 8-75JIS	75	14	12	35	45	8	28	-	M8-1.25P	1	1.21
BT40-SLN 8-150JIS	150	14	12	35	113	8	28	33	M8-1.25P	2	1.50
BT40-SLN10-75JIS	75	15	14	39	45	10	35	-	M10-1.5P	1	1.35
BT40-SLN10-150JIS	150	15	14	39	118	10	35	40	M10-1.5P	2	1.50
BT40-SLN12-75JIS	75	20	16	44	45	12	42	-	M10-1.5P	1	1.50
BT40-SLN12-150JIS	150	20	16	44	118	12	42	47	M10-1.5P	2	1.70
BT40-SLN16-75JIS	75	22	18	47	45	16	48	-	M10-1.5P	1	1.58
BT40-SLN16-150JIS	150	22	18	47	120	16	48	53	M10-1.5P	2	2.75
BT40-SLN20-90JIS	90	25	20	55	60	20	50	-	M12-1.75P	1	1.77
BT40-SLN20-150JIS	150	25	20	55	120	20	52	57	M12-1.75P	2	1.80
BT40-SLN25-90JIS	90	24	25	58	60	25	50	-	M12-1.75P	1	1.72
BT40-SLN32-100JIS	100	24	28	63	73	32	60	-	M16-2.0P	1	2.08
BT40-SLN40-105JIS	105	28	28	68	78	40	72	62.6	M16-2.0P	2	-

選配表 Option

拉頭 Pull Stud

B645-B647

• 長度單位 Unit of Length (mm)

BT/SLN 側固式立銑刀柄 (JIS 型)
BT/SLN SIDE LOCK END MILL HOLDER (JIS TYPE)

JIS
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Fig.1

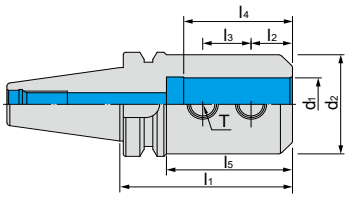
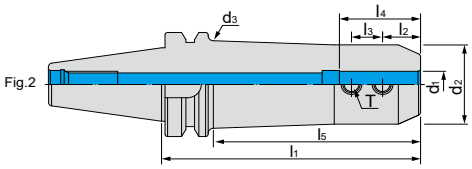


Fig.2



特點 Feature

- 預設定動平衡 G6.3 8000rpm(削平處理)
- 不分孔徑皆為兩只鎖固螺絲

-The pre-balance can reach G6.3 8000rpm.
-With two side-lock screw.

規格 Spec.	l_1	l_2	l_3	l_4	l_5	d_1	d_2	d_3	T	Fig.	重量 (KGS) Weight
BT50-SLN6-75JIS	75	12	10	35	27	6	25	-	M6-1.0P	1	4.04
BT50-SLN8-75JIS	75	14	12	35	27	8	28	-	M8-1.25P	1	4.06
BT50-SLN10-75JIS	75	15	14	39	32	10	35	-	M10-1.5P	-	3.90
BT50-SLN12-90JIS	90	20	16	44	42	12	42	-	M10-1.5P	-	4.35
BT50-SLN12-165JIS	165	20	16	44	124	12	42	47	M10-1.5P	2	5.05
BT50-SLN16-90JIS	90	22	18	47	42	16	48	-	M10-1.5P	1	4.53
BT50-SLN16-150JIS	150	22	18	47	102	16	48	53	M10-1.5P	2	4.98
BT50-SLN16-165JIS	165	22	18	47	117	16	48	53	M10-1.5P	2	5.50
BT50-SLN20-90JIS	90	25	20	55	49	20	50	-	M12-1.75P	1	4.53
BT50-SLN20-150JIS	150	25	20	55	102	20	50	57	M12-1.75P	2	5.98
BT50-SLN20-165JIS	165	25	20	55	117	20	50	57	M12-1.75P	2	5.67
BT50-SLN20-210JIS	210	25	20	55	162	20	50	57	M12-1.75P	2	6.40
BT50-SLN25-100JIS	100	24	25	58	59	25	50	-	M12-1.75P	1	4.58
BT50-SLN25-150JIS	150	24	25	58	102	25	50	57	M12-1.75P	2	5.48
BT50-SLN25-165JIS	165	24	25	58	117	25	50	57	M12-1.75P	2	5.55
BT50-SLN25-210JIS	210	24	25	58	169	25	50	57	M12-1.75P	2	6.25
BT50-SLN25-250JIS	250	24	25	58	202	25	50	60	M12-1.75P	2	7.10
BT50-SLN32-105JIS	105	24	28	63	64	32	60	-	M16-2.0P	1	4.89
BT50-SLN32-150JIS	150	24	28	63	102	32	50	60	M16-2.0P	2	7.48
BT50-SLN32-165JIS	165	24	28	63	117	32	60	65	M16-2.0P	1	6.22
BT50-SLN32-210JIS	210	24	28	63	162	32	50	60	M16-2.0P	2	6.34
BT50-SLN32-250JIS	250	24	28	63	207	32	50	60	M16-2.0P	2	7.50
BT50-SLN32-300JIS	300	24	28	63	257	32	60	65	M16-2.0P	2	9.30
BT50-SLN40-115JIS	115	30	32	85	74	40	90	-	M20-2.0P	1	6.60
BT50-SLN42-120JIS	120	30	32	85	79	42	90	-	M20-2.0P	1	6.73
BT50-SLN42-210JIS	210	30	32	85	-	42	70	75	M20-2.0P	2	7.80
BT50-SLN50-120JIS	120	35	35	90	82	50	90	-	M20-2.0P	1	5.28
● BT50-SLN50.8-120JIS	120	33.9	35.78	90	82	50.8	90	-	M20-2.0P	1	6.61

●有插梢 With pin

選配表 Option

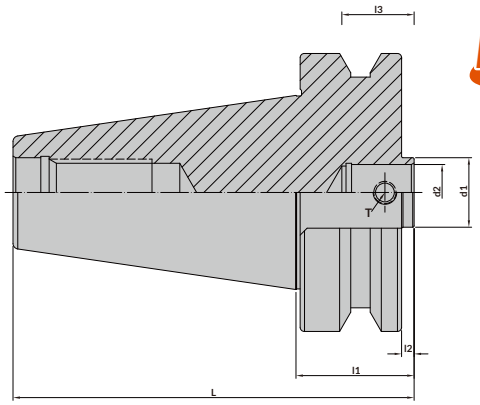
拉頭 Pull Stud

B645-B647

• 長度單位 Unit of Length (mm)

探針刀把
TOUCH PROBE HOLDER

JIS
MAS 403



NEW

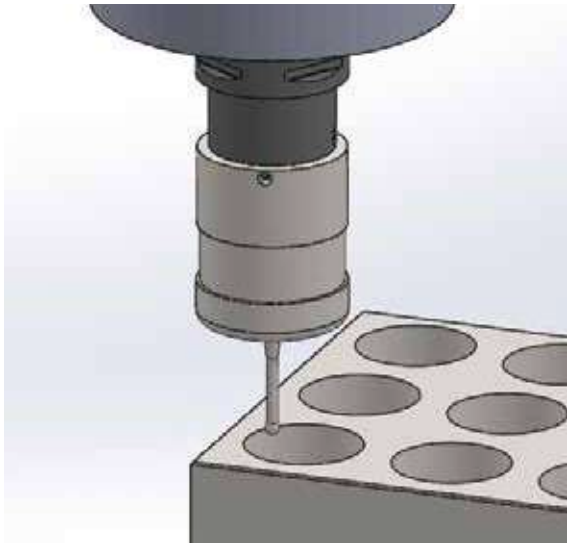
特點 Feature

- 依據探針設計，探針刀把可做中心出水，以利清潔工件後進行量測
- 依客戶需求，客製探針刀桿

-Coolant through holders can be made according to touch probe designs, capable of cleaning workpiece directly before measuring.
-Attached to customer's needs, we provide custom optional.

規格 Spec.	???? Probe
BT30-PSD11.2-27.6	OMP40 OMP400 MP20
BT40-PSD11.2-27.6	
BT50-PSD11.2-37.6	
HSK63A-PSD11.2-43.6	
BT40-PSD20.1-31.5	OMP60 RMP60 MP11 MP12 MP700
BT50-PSD20.1-42.5	
HSK63A-PSD20.1-46.5	
PSC63-PSD20.1-50	
HSK100A-PSD20.1-79	

範例 Example



探針刀把內建校正偏擺微調機構，簡易、快速調整探針的偏擺精度。
Built-in mechanism f or accuracy compensation makes adjusting probe accuracy easy.

• 長度單位 Unit of Length (mm)

三件式校正組
ATC ALIGNRVENT THREE-PIECE TOOL SET

JIS
MAS 403

NEW

Fig.1

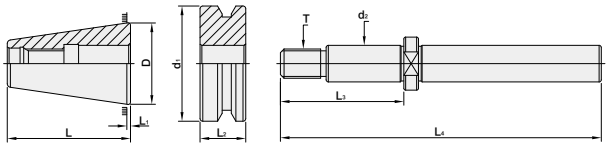


Fig.2

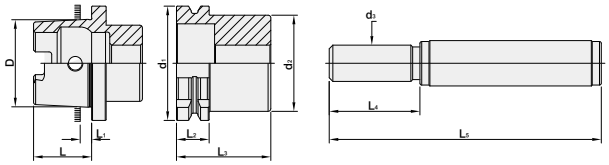
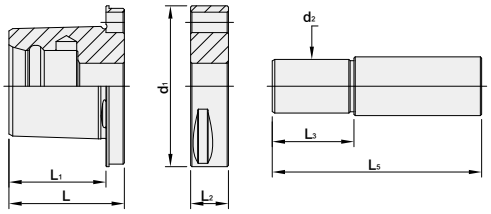


Fig.3



範例 Example

規格 Spec.	L	l_1	l_2	l_3	l_4	l_5	D	d_1	d_2	d_3	T	Fig.
BT30-A.T.C	50.4	2	20	50.4	158.4	-	31.75	46	16	-	M12-1.75P	1
BT40-A.T.C	67.4	2	25	67.5	175.5	-	44.45	63	20	-	M16-2.0P	1
BT50-A.T.C	104.8	3	35	120	320	-	69.85	100	25	-	M24-3.0P	1
HSK32A-A.T.C	16	3.2	14	30	50	100	24.007	32	26	8	-	2
HSK40A-A.T.C	20	4	14	37	61	141	30.007	40	34	12	-	2
HSK50A-A.T.C	25	5	18	43	74	174	38.009	50	42	15	-	2
HSK63A-A.T.C	32	6.3	18	52	90	190	48.010	63	53	20	-	2
HSK80A-A.T.C	40	8	18	54.5	100.5	200.5	60.012	80	68	20	-	2
HSK100A-A.T.C	50	10	19	67	125	275	75.013	100	88	24	-	2
HSK125A-A.T.C	63	12.5	19	74	145	295	95.016	125	111	30	-	2
PSC32-A.T.C	22	19	12	20	-	60	-	32	-	24	-	3
PSC40-A.T.C	28	24	16	28	-	78	-	40	-	12	-	3
PSC50-A.T.C	35	30	15	29	-	79	-	50	-	16	-	3
PSC63-A.T.C	45.2	38	14.8	32	-	82	-	63	-	21	-	3

• 長度單位 Unit of Length (mm)

三件式校正組
ATC ALIGNRVENT THREE-PIECE TOOL SET

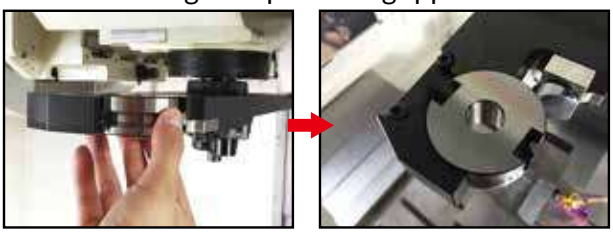
JIS
MAS 403
B6339

NEW

操作說明 Instructions

1.錐度套筒端鎖上拉頭，置入主軸內
The taper adapter with pull stud inserts into spindle.

2.換刀槽零件置入換刀臂內
Install the flange adapter into gripper of ATC arm.



3.將換刀槽旋轉到主軸中心
Press machine controller button to move ATC arm to align with machine spindle.

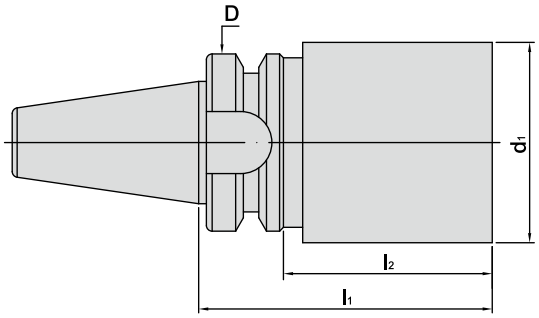
4.將測試圓棒插入錐度套筒及換刀槽的中心孔，如能同時穿過，代表換刀臂與主軸有同心
Insert alignment plug into the holes of flange adapter and taper adapter for alignment. If alignment plug can be inserted with ease and the movement is smooth, the alignment is done.

• 長度單位 Unit of Length (mm)

BT 素材刀桿
BT BLANK

JIS
MAS 403

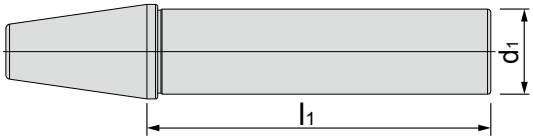
範例 Example



規格 Spec.	l_1	l_2	D	d_1	重量 (KGS) Weight
BT30-Ø50-200	200	173	46	50	3.3
BT40-Ø40.5-160	160	133	63	40.5	2.30
BT40-Ø63.5-160	160	133	63	63.5	4.21
BT40-Ø63.5-250	250	223	63	63.5	6.41
BT50-Ø50-300	300	262	100	50	7.53
BT50-Ø80-160	160	122	100	80	8.29
BT50-Ø80-200	200	162	100	80	9.84
BT50-Ø80-300	300	262	100	80	13.71

主軸檢測棒
SPINDLE MASTER BAR

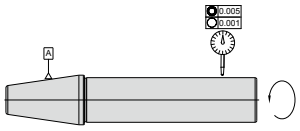
標準型 Standard



特點 Feature

- 皆通過真圓度測試機，精確檢驗通過
- 附精度檢驗表

- Have passed by the roundness testing machine.
- With precision test table.

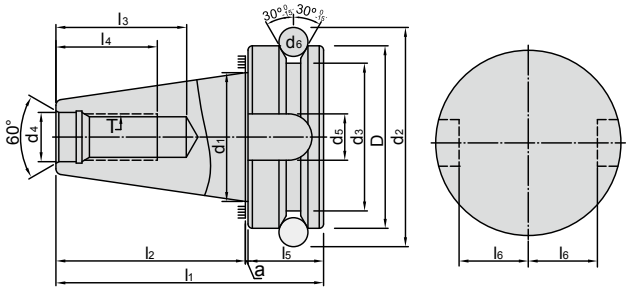


???? Taper Precision	AT2
??? Roundness	0.001mm
????? Surface Roughness	Ra<0.4
??? Concentricity	0.005mm

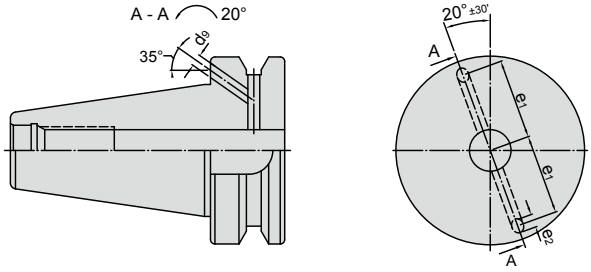
規格 Spec.	l_1	d_1	同心度 Concentricity	真圓度 Roundness	重量 (KGS) Weight
BT30-TS250L	250	32	0.005	0.001	3.59
BT40-TS300L	300	40	0.005	0.001	3.64
BT50-TS300L	300	40	0.005	0.001	5.44

• 長度單位 Unit of Length (mm)

SBT A



SBT AD+B



規格 Spec.	D h8	d_1	d_2	d_3	d_4 H8	d_5 H12	d_6	d_9 H12
SBT30	46	31.75	56.14	38	12.5	16.1	8	-
SBT40	63	44.45	75.679	53	17	16.1	10	4
SBT50	100	69.85	119.02	83	25	25.7	15	6

規格 Spec.	a 0 -0.005	l_1	l_2 ±0.2	l_3 min	l_4 min	l_5	l_6 0 -0.2	e_1 ±0.1	e_2 MAX	T 6H
SBT30	1	70.4	48.4	34	24	21	16	-	-	M12-1.75P
SBT40	1	92.4	65.4	43	30	26	22.6	27	5	M16-2.0P
SBT50	1.5	139.8	101.8	62	45	36.5	35.4	42	7	M24-3.0P

1. 錐度精度 : <AT3
2. 硬度 : >HRC 56°
3. 滲碳深度 : >0.8mm
4. 真圓度 : < 0.8μm
5. 表面粗糙度 : Ra< 0.25μm

1.Taper tolerance < AT3.
2.Hardness > HRC 56°
3.Carbon depth > 0.8mm.
4.Roundness < 0.8μm.
5.Surface roughness : Ra < 0.25μm

• 長度單位 Unit of Length (mm)

SBT

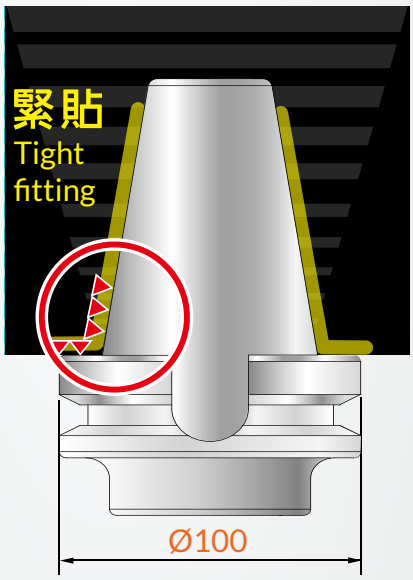
法蘭加厚型(雙面拘束)系列

SBT DUAL DRIVE Tool Holder System

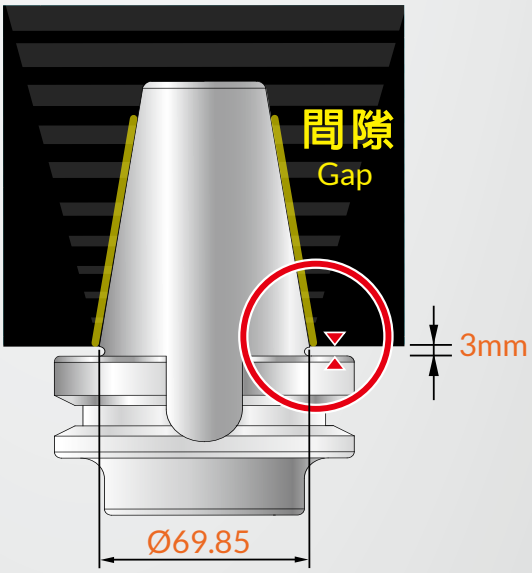
可在高速加工時，增加刀桿的穩定性。降低刀桿在高速切削時，所造成主軸的擴孔及精度不佳的現象；接觸直徑加大，有助於延伸倍數增加。刀具穩定性提升，可增加刀具使用壽命，確保在換刀後，重覆定位精度，並且提高搪孔切削時的真圓度。

Dual DRIVE + SBT Tool Holders features a dual contact with 3mm gap between the machine tool spindle face and the tool holder flange, which improves rigidity and reduce vibration during the high-speed machining. After replacing the cutting tool, the SBT Tool Holder remain the same repeatability and roundness that improves the surface finish, stability, and accuracy, as well as extend the overall tool life.

SBT50 DualDRIVE+



BT50 Tool Holder



DualDRIVE+

SBT/SBL 法蘭加厚型後拉式立銑刀夾頭
SBT/SBL DUAL DRIVE SLIM-FIT COLLET CHUCK

雙面拘束 Dual Contact

Fig.1

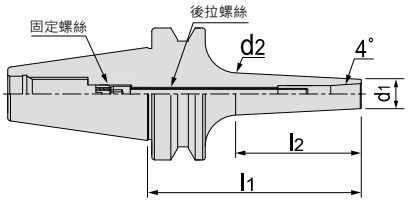
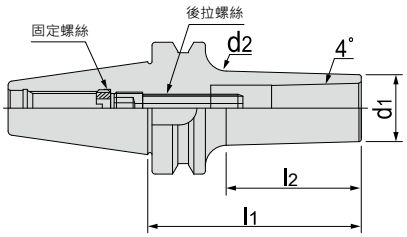


Fig.2



特點 Feature

- 標準動平衡 G2.5 25000rpm

- Dynamic balancing G2.5 at 25000rpm.

規格 Spec.	l_1	夾持範圍 Clamping Range	筒夾 Collet	l_2	d_1	d_2	後拉螺絲 Slim-Fit Screw	固定螺絲 Fixed Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
SBT30-SBL6-70	70	2~6	SLC6	38	14	18	SBL6-M6-40L	SBL6-M12	PT5	6	1	0.60
SBT30-SBL6-100	100	2~6	SLC6	68	14	21	SBL6-M6-70L	SBL6-M12	PT5	6	1	1.25
SBT30-SBL12-70	70	3~12	SLC12	47	26	33	SBL12-M10-25L	SBL12-M15	PT6	10	2	1.20
SBT30-SBL12-100	100	3~12	SLC12	77	26	38	SBL12-M10-25L	SBL12-M15	PT6	10	2	1.45
SBT30-SBL20-80	80	3~20	SLC20	54	34	37	SBL20-M12-30L	SBL20-M18	PT8-S	12	2	1.20
SBT30-SBL20-100	100	3~20	SLC20	76	34	39	SBL20-M12-30L	SBL20-M18	PT8-S	12	2	1.45
SBT40-SBL6-70	70	2~6	SLC6	28	14	17	SBL6-M6-50L	SBL6-M16	PT5	6	1	1.20
SBT40-SBL6-100	100	2~6	SLC6	58	14	20	SBL6-M6-75L	SBL6-M16	PT5	6	1	1.26
SBT40-SBL12-70	70	3~12	SLC12	33	26	31	SBL12-M10-25L	SBL12-M16	PT6	10	2	1.30
SBT40-SBL12-100	100	3~12	SLC12	63	26	31	SBL12-M10-55L	SBL12-M16	PT6	10	2	1.70
SBT40-SBL20-70	70	3~20	SLC20	33	35	38	SBL20-M12-30L	SBL20-M16	PT8-S	12	2	1.50
SBT40-SBL20-100	100	3~20	SLC20	68	35	40	SBL20-M12-52L	SBL20-M16	PT8-S	12	2	1.62
SBT40-SBL20-130	130	3~20	SLC20	106	35	41	SBL20-M12-52L	SBL20-M16	PT8-S	12	2	2.10
SBT50-SBL6-70	70	2~6	SLC6	17	14	15	SBL6-M6-50L	SBL6-M16	PT5-S	6	1	4.00
SBT50-SBL6-100	100	2~6	SLC6	47	14	19	SBL6-M6-40L	SBL6-M16	PT5-S	6	1	4.10
SBT50-SBL12-70	70	3~12	SLC12	22	26	28	SBL12-M10-25L	SBL12-M16	PT6-S	10	2	4.00
SBT50-SBL12-100	100	3~12	SLC12	52	26	30	SBL12-M10-55L	SBL12-M16	PT6-S	10	2	4.30
SBT50-SBL12-125	125	3~12	SLC12	77	26	32	SBL12-M10-55L	SBL12-M16	PT6-S	10	2	4.50
SBT50-SBL20-70	70	3~20	SLC20	22	35	36	SBL20-M12-30L	SBL20-M16	PT8-S	12	2	4.60
SBT50-SBL20-100	100	3~20	SLC20	52	35	39	SBL20-M12-52L	SBL20-M16	PT8-S	12	2	4.70
SBT50-SBL20-125	125	3~20	SLC20	77	35	41	SBL20-M12-52L	SBL20-M16	PT8-S	12	2	4.90

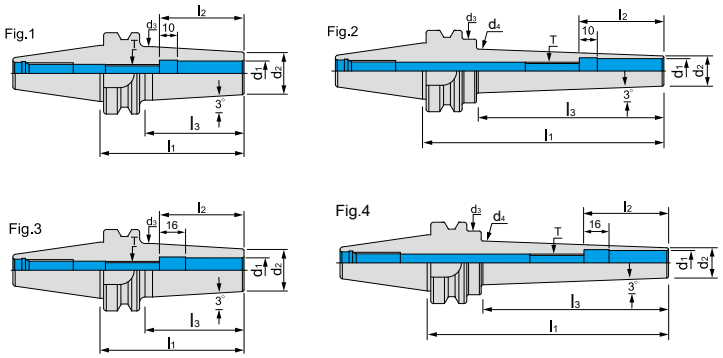
選配表 Option

拉頭 Pull Stud	筒夾 Collet
B645-B647	B630

• 長度單位 Unit of Length (mm)

SBT/SFCT 法蘭加厚型熱膨脹刀桿
SBT/SFCT DUAL DRIVE SHRINK FIT CHUCK

雙面拘束 Dual Contact　燒結式 Shrink-Fit



特點 Feature

- 整支通孔，利於出水及抗震
- 標準動平衡 G2.5 25000rpm

- A through coolant shank which allows water to pass through easily and vibration resistance.
- Dynamic balancing G2.5 at 25000rpm

規格 Spec.	l_1	l_2	l_3	d_1	d_2	d_3	d_4	T	Fig.	重量 (KGS) Weight
SBT30-SFCT4-80	80	20	48	4	10	15	-	M6-1.0P	1	0.40
SBT30-SFCT6-80	80	36	53	6	21	26	-	M5-0.8P	3	0.44
SBT30-SFCT8-80	80	36	53	8	21	26	-	M6-1.0P	1	0.45
SBT30-SFCT10-80	80	42	53	10	24	29	-	M8-1.25P	2	0.50
SBT30-SFCT12-80	80	47	53	12	24	29	-	M10-1.5P	1	0.50
SBT30-SFCT16-80	80	50	55	16	27	32	-	M12-1.75P	1	0.54
SBT30-SFCT20-90	90	52	66	20	33	38	-	M16-2.0P	1	0.58
SBT30-SFCT25-100	100	58	78	25	44	49	-	M20-2.0P	2	0.60
SBT40-SFCT3-90	90	18	53	3	9	14.6	-	M6-1.0P	1	0.99
SBT40-SFCT4-90	90	20	53	4	10	15.6	-	M6-1.0P	1	1.10
SBT40-SFCT5-90	90	20	58	5	16	21	-	M6-1.0P	1	1.00
SBT40-SFCT6-90	90	36	58	6	21	26	-	M5-0.8P	3	1.24
SBT40-SFCT8-90	90	36	58	8	21	26	-	M6-1.0P	1	1.23
SBT40-SFCT10-90	90	42	58	10	24	29	-	M8-1.25P	1	1.28
SBT40-SFCT12-90	90	47	58	12	24	29	-	M10-1.5P	1	1.28
SBT40-SFCT16-90	90	50	58	16	27	32	-	M12-1.75P	1	1.30
SBT40-SFCT20-100	100	52	68	20	33	38	-	M16-2.0P	1	1.40
SBT40-SFCT25-100	100	58	71	25	44	49	-	M20-2.0P	1	1.78
SBT40-SFCT32-100	100	58	71	32	44	49	-	M20-2.0P	1	1.70

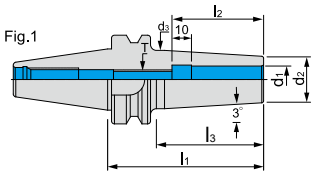
選配表 Option

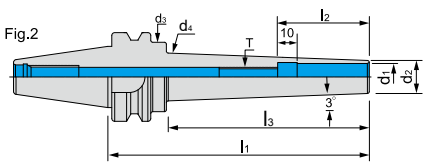
拉頭 Pull Stud	加熱器 Hot-Air
B645-B647	B402

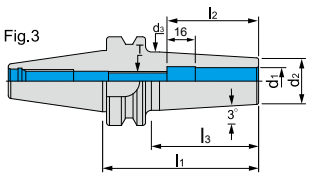
• 長度單位 Unit of Length (mm)

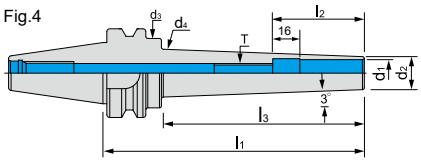
SBT/SFCT 法蘭加厚型熱膨脹刀桿
SBT/SFCT DUAL DRIVE SHRINK FIT CHUCK

雙面拘束 Dual Contact　燒結式 Shrink-Fit









特點 Feature

- 整支通孔，利於出水及抗震
- 標準動平衡 G2.5 25000rpm

- A through coolant shank which allows water to pass through easily and vibration resistance.
- Dynamic balancing G2.5 at 25000rpm

規格 Spec.	l_1	l_2	l_3	d_1	d_2	d_3	d_4	T	Fig.	重量 (KGS) Weight
SBT50-SFCT4-100	100	20	52	4	10	15.5	-	M6-1.0P	1	3.86
SBT50-SFCT6-100	100	36	57	6	21	26	-	M5-0.8P	3	3.92
SBT50-SFCT8-100	100	36	57	8	21	26	-	M6-1.0P	1	3.92
SBT50-SFCT10-100	100	42	58	10	24	29	-	M8-1.25P	1	3.90
SBT50-SFCT12-100	100	47	52	12	24	29	-	M10-1.5P	1	3.94
SBT50-SFCT16-100	100	50	52	16	27	32	-	M12-1.75P	1	3.96
SBT50-SFCT20-110	110	52	67	20	33	38	-	M16-2.0P	1	4.14
SBT50-SFCT25-110	110	58	67	25	44	49	-	M20-2.0P	1	4.46
SBT50-SFCT32-110	110	58	67	32	44	49	-	M20-2.0P	1	4.30

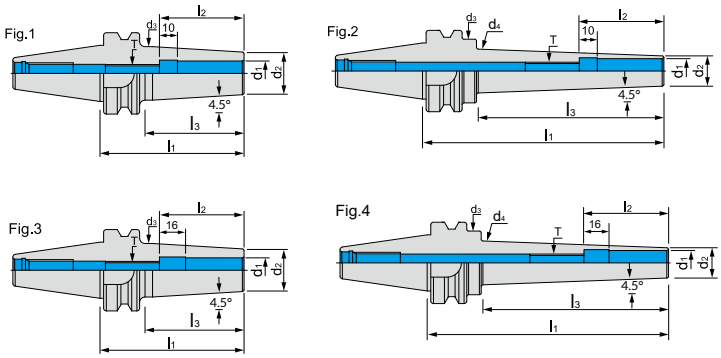
選配表 Option

拉頭 Pull Stud	加熱器 Hot-Air
B645-B647	B402

• 長度單位 Unit of Length (mm)

SBT/SFC 法蘭加厚型熱膨脹刀桿
SBT/SFC DUAL DRIVE SHRINK FIT CHUCK

雙面拘束 Dual Contact　燒結式 Shrink-Fit



特點 Feature

- 整支通孔，利於出水及抗震
- 標準動平衡 G2.5 25000rpm

- A through coolant shank which allows water to pass through easily and vibration resistance.
- Dynamic balancing G2.5 at 25000rpm

規格 Spec.	l_1	l_2	l_3	d_1	d_2	d_3	d_4	T	Fig.	重量 (KGS) Weight
SBT40-SFC6-130	130	36	93	6	21	27	-	M5-0.8P	4	1.41
SBT40-SFC6-160	160	36	93	6	21	27	-	M5-0.8P	4	1.54
SBT40-SFC6-200	200	36	133	6	21	27	-	M5-0.8P	4	1.72
SBT40-SFC8-130	130	36	93	8	21	27	-	M6-1.0P	2	1.41
SBT40-SFC8-160	160	36	93	8	21	27	-	M6-1.0P	2	1.54
SBT40-SFC8-200	200	36	133	8	21	27	-	M6-1.0P	2	1.72
SBT40-SFC10-130	130	42	93	10	24	32	-	M8-1.25P	2	1.66
SBT40-SFC10-160	160	42	93	10	24	32	-	M8-1.25P	2	1.79
SBT40-SFC10-200	200	42	133	10	24	32	-	M8-1.25P	2	1.97
SBT40-SFC12-130	130	47	93	12	27	32	-	M10-1.5P	2	1.86
SBT40-SFC12-160	160	47	93	12	27	32	-	M10-1.5P	2	1.99
SBT40-SFC12-200	200	47	133	12	27	32	-	M10-1.5P	2	2.17
SBT40-SFC14-130	130	47	93	14	27	34	-	M10-1.5P	2	1.94
SBT40-SFC14-160	160	47	93	14	27	34	-	M10-1.5P	2	2.07
SBT40-SFC14-200	200	47	133	14	27	34	-	M10-1.5P	2	2.25
SBT40-SFC16-130	130	50	93	16	27	34	-	M12-1.75P	2	1.75
SBT40-SFC16-160	160	50	93	16	27	34	-	M12-1.75P	2	1.91
SBT40-SFC16-200	200	50	133	16	27	34	-	M12-1.75P	2	2.06
SBT40-SFC18-130	130	50	98	18	33	42	-	M12-1.75P	2	2.31
SBT40-SFC18-160	160	50	98	18	33	42	-	M12-1.75P	2	2.46
SBT40-SFC18-200	200	50	138	18	33	42	-	M12-1.75P	2	2.61
SBT40-SFC20-130	130	52	98	20	33	42	-	M16-2.0P	2	2.28
SBT40-SFC20-160	160	52	98	20	33	42	-	M16-2.0P	2	2.43
SBT40-SFC20-200	200	52	138	20	33	42	-	M16-2.0P	2	2.57

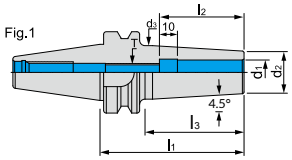
選配表 Option

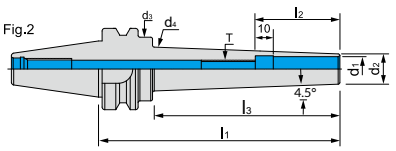
拉頭 Pull Stud	加熱器 Hot-Air
B645-B647	B402

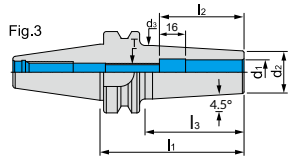
• 長度單位 Unit of Length (mm)

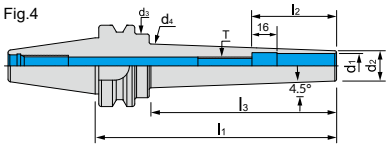
SBT/SFC 法蘭加厚型熱膨脹刀桿
SBT/SFC DUAL DRIVE SHRINK FIT CHUCK

雙面拘束 Dual Contact　燒結式 Shrink-Fit









特點 Feature

- 整支通孔，利於出水及抗震
- 標準動平衡 G2.5 25000rpm

- A through coolant shank which allows water to pass through easily and vibration resistance.
- Dynamic balancing G2.5 at 25000rpm

規格 Spec.	l_1	l_2	l_3	d_1	d_2	d_3	d_4	T	Fig.	重量 (KGS) Weight
SBT40-SFC25-130	130	58	101	25	44	53	-	M20-2.0P	2	2.34
SBT40-SFC25-160	160	58	131	25	44	53	-	M20-2.0P	2	2.85
SBT40-SFC25-200	200	58	171	25	44	53	-	M20-2.0P	2	3.53
SBT40-SFC32-130	130	58	101	32	44	53	--	M20-2.0P	2	2.21
SBT40-SFC32-160	160	58	131	32	44	53	-	M20-2.0P	2	2.71
SBT40-SFC32-200	200	58	171	32	44	53	-	M20-2.0P	2	3.39
SBT50-SFC6-130	130	36	82	6	21	27	-	M5-0.8P	4	3.94
SBT50-SFC6-160	160	36	82	6	21	27	-	M5-0.8P	4	4.07
SBT50-SFC6-200	200	36	122	6	21	27	-	M5-0.8P	4	4.24
SBT50-SFC8-130	130	36	82	8	21	27	-	M6-1.0P	2	3.93
SBT50-SFC8-160	160	36	82	8	21	27	-	M6-1.0P	2	4.06
SBT50-SFC8-200	200	36	122	8	21	27	-	M6-1.0P	2	4.23
SBT50-SFC10-130	130	42	82	10	24	32	-	M8-1.25P	2	4.05
SBT50-SFC10-160	160	42	82	10	24	32	-	M8-1.25P	2	4.18
SBT50-SFC10-200	200	42	122	10	24	32	-	M8-1.25P	2	4.35
SBT50-SFC12-130	130	47	82	12	24	32	-	M10-1.5P	2	4.04
SBT50-SFC12-160	160	47	82	12	24	32	-	M10-1.5P	2	4.17
SBT50-SFC12-200	200	47	122	12	24	32	-	M10-1.5P	2	4.34
SBT50-SFC14-130	130	47	82	14	27	34	-	M10-1.5P	2	4.11
SBT50-SFC14-160	160	47	82	14	27	34	-	M10-1.5P	2	4.24
SBT50-SFC14-200	200	47	122	14	27	34	-	M10-1.5P	2	4.41
SBT50-SFC16-130	130	50	82	16	27	34	-	M12-1.75P	2	4.09
SBT50-SFC16-160	160	50	82	16	27	34	-	M12-1.75P	2	4.26
SBT50-SFC16-200	200	50	122	16	27	34	-	M12-1.75P	2	4.43

選配表 Option

拉頭 Pull Stud	加熱器 Hot-Air
B645-B647	B402

• 長度單位 Unit of Length (mm)

SBT/SFC 法蘭加厚型熱膨脹刀桿
SBT/SFC DUAL DRIVE SHRINK FIT CHUCK

雙面拘束 Dual Contact　燒結式 Shrink-Fit

Fig.1

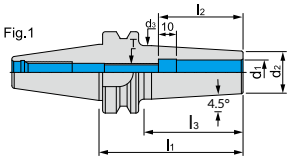


Fig.2

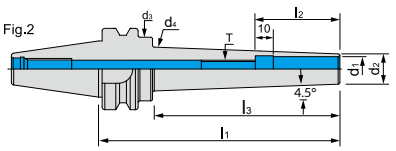


Fig.3

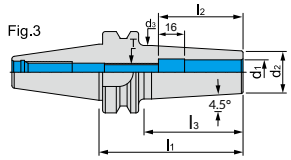
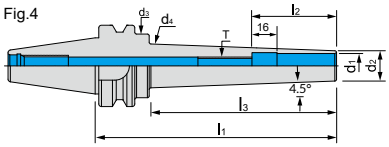


Fig.4



特點 Feature

- 整支通孔，利於出水及抗震
- 標準動平衡 G2.5 25000rpm

- A through coolant shank which allows water to pass through easily and vibration resistance.
- Dynamic balancing G2.5 at 25000rpm

規格 Spec.	l_1	l_2	l_3	d_1	d_2	d_3	d_4	T	Fig.	重量 (KGS) Weight
SBT50-SFC18-130	130	50	82	18	33	42	-	M12-1.75P	2	4.34
SBT50-SFC18-160	160	50	82	18	33	42	-	M12-1.75P	2	4.51
SBT50-SFC18-200	200	50	122	18	33	42	-	M12-1.75P	2	4.30
SBT50-SFC20-130	130	52	82	20	33	42	-	M16-2.0P	2	4.32
SBT50-SFC20-160	160	52	82	20	33	42	-	M16-2.0P	2	4.53
SBT50-SFC20-200	200	52	122	20	33	42	-	M16-2.0P	2	4.70
SBT50-SFC25-130	130	58	82	25	44	53	-	M20-2.0P	2	4.78
SBT50-SFC25-160	160	58	82	25	44	53	-	M20-2.0P	2	4.99
SBT50-SFC25-200	200	58	122	25	44	53	-	M20-2.0P	2	5.16
SBT50-SFC32-130	130	58	82	32	44	53	-	M20-2.0P	2	4.63
SBT50-SFC32-160	160	58	82	32	44	53	-	M20-2.0P	2	4.84
SBT50-SFC32-200	200	58	122	32	44	53	-	M20-2.0P	2	5.01

選配表 Option

拉頭 Pull Stud	加熱器 Hot-Air
B645-B647	B402

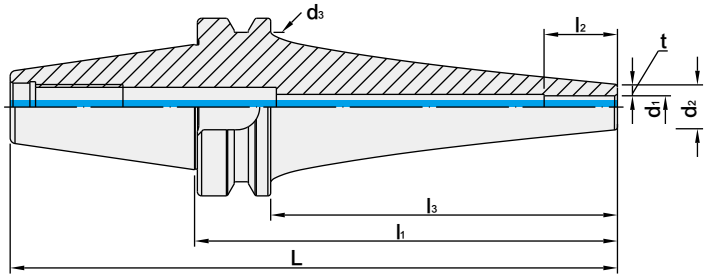
• 長度單位 Unit of Length (mm)

SBT/SFC 法蘭加厚型熱膨脹刀桿 (CUL 威力曲線型)

SBT/SFC DUAL DRIVE SHRINK FIT CHUCK CUL TYPE

燒結式 Shrink-Fit　雙面拘束 Dual Contact

NEW



規格 Spec.	L	l_1	l_2	l_3	d_1	d_2	d_3	t	重量 (KGS) Weight
SBT40-SFC4-150CUL	215.4	150	10	123	4	10	53	3	1.4
SBT40-SFC4-200CUL	265.4	200	10	173	4	10	53	3	1.7
SBT40-SFC4-250CUL	315.4	250	10	223	4	10	53	3	2.2
SBT40-SFC6-150CUL	215.4	150	26	123	6	13	53	3.5	1.5
SBT40-SFC6-200CUL	265.4	200	26	173	6	13	53	3.5	1.7
SBT40-SFC8-150CUL	215.4	250	26	123	8	16	53	4	1.6
SBT40-SFC8-200CUL	265.4	200	26	173	8	16	53	4	1.8
SBT40-SFC8-250CUL	315.4	250	26	223	8	16	53	4	2.0
SBT40-SFC10-150CUL	215.4	150	32	123	10	19	53	4.5	1.6
SBT40-SFC10-200CUL	265.4	200	32	173	10	19	53	4.5	1.8
SBT40-SFC10-250CUL	315.4	250	32	223	10	19	53	4.5	2.0
SBT40-SFC12-150CUL	215.4	150	37	123	12	22	53	5	1.7
SBT40-SFC12-200CUL	265.4	200	37	173	12	22	53	5	1.8
SBT40-SFC12-250CUL	315.4	250	37	223	12	22	53	5	2.0
SBT50-SFC4-150CUL	215.8	150	10	112	4	10	85	3	5.3
SBT50-SFC4-200CUL	301.8	200	10	162	4	10	85	3	5.8
SBT50-SFC4-250CUL	351.8	250	10	212	4	10	85	3	6.3
SBT50-SFC4-300CUL	401.8	300	10	262	4	10	85	3	6.7
SBT50-SFC6-150CUL	215.8	150	26	112	6	13	85	3.5	5.3
SBT50-SFC6-200CUL	301.8	200	26	162	6	13	85	3.5	5.9
SBT50-SFC6-250CUL	351.8	250	26	212	6	13	85	3.5	6.4
SBT50-SFC6-300CUL	401.8	300	26	262	6	13	85	3.5	6.8
SBT50-SFC8-150CUL	215.8	150	26	112	8	16	85	4	4.9
SBT50-SFC8-200CUL	301.8	200	26	162	8	16	85	4	5.5
SBT50-SFC8-250CUL	351.8	250	26	212	8	16	85	4	5.8
SBT50-SFC8-300CUL	401.8	300	26	262	8	16	85	4	6.1
SBT50-SFC10-150CUL	215.8	150	32	112	10	19	85	4.5	5.1
SBT50-SFC10-200CUL	301.8	200	32	162	10	19	85	4.5	5.4
SBT50-SFC10-250CUL	351.8	250	32	212	10	19	85	4.5	6.1
SBT50-SFC10-300CUL	401.8	300	32	262	10	19	85	4.5	6.4
SBT50-SFC12-150CUL	215.8	150	37	112	12	22	85	5	5.1
SBT50-SFC12-200CUL	301.8	200	37	162	12	22	85	5	5.6
SBT50-SFC12-250CUL	351.8	250	37	212	12	22	85	5	5.8
SBT50-SFC12-300CUL	401.8	300	37	262	12	22	85	5	6.3

• 搭配熱風式加熱器 B399-B400

• 長度單位 Unit of Length (mm)

SBT/SKS 法蘭加厚型高速機專用夾頭
SBT/SKS DUAL DRIVE COLLET CHUCK

雙面拘束 Dual Contact

Fig.1

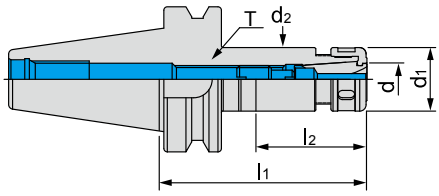
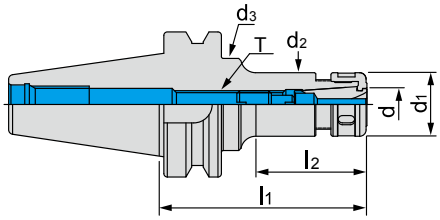


Fig.2



特點 Feature

- 偏擺精度 :5μ 以下 (延伸 4D 長度處)
- 標準動平衡 :G2.5 25000rpm

-Run-out accuracy: within 5μ.
-Dynamic balancing G2.5 at 25000rpm.

規格 Spec.	l_1	l_2	d	d_1	d_2	d_3	T	Fig.	重量 (KGS) Weight
SBT30-SKS6-45	45	22	Ø3~Ø6	18	18	-	M8-1.25P	1	0.80
SBT30-SKS6-60	60	33	Ø3~Ø6	18	18	-	M8-1.25P	1	0.90
SBT30-SKS10-45	45	22	Ø3~Ø10	30	27.6	-	M12-1.75P	1	0.80
SBT30-SKS10-60	60	33	Ø3~Ø10	30	27.6	-	M12-1.75P	1	0.90
SBT30-SKS10-90	90	63	Ø3~Ø10	30	27.6	-	M12-1.75P	1	1.00
SBT30-SKS13-60	60	35	Ø3~Ø13	35	33	-	M12-1.75P	1	1.10
SBT30-SKS13-90	90	65	Ø3~Ø13	35	33	-	M12-1.75P	1	0.78
SBT30-SKS13-120	120	95	Ø3~Ø13	35	33	-	M12-1.75P	1	1.20
SBT30-SKS16-60	60	36	Ø3~Ø16	40	40	-	M18-1.5P	1	0.76
SBT30-SKS16-90	90	66	Ø3~Ø16	40	40	-	M18-1.5P	1	1.02
SBT30-SKS20-60	60	37	Ø3~Ø20	48.5	48.5	45	M12-1.75P	2	0.68
SBT30-SKS20-90	90	67	Ø3~Ø20	48.5	48.5	45	M12-1.75P	2	1.02
SBT40-SKS6-90	90	44	Ø3~Ø6	18	18	32	M8-1.25P	2	1.20
SBT40-SKS6-120	120	74	Ø3~Ø6	18	18	32	M8-1.25P	2	1.21
SBT40-SKS10-60	60	22	Ø3~Ø10	30	27.6	-	M12-1.75P	1	1.36
SBT40-SKS10-90	90	45	Ø3~Ø10	30	27.6	40	M12-1.75P	2	1.20
SBT40-SKS10-120	120	74	Ø3~Ø10	30	27.6	40	M12-1.75P	2	1.40
SBT40-SKS13-60	60	30	Ø3~Ø13	35	33	-	M12-1.75P	1	1.16
SBT40-SKS13-90	90	60	Ø3~Ø13	35	33	-	M12-1.75P	1	1.32
SBT40-SKS13-120	120	90	Ø3~Ø13	35	33	-	M12-1.75P	1	1.56
SBT40-SKS16-60	60	23.2	Ø3~Ø16	40	40	-	M18-1.5P	1	1.14
SBT40-SKS16-90	90	58	Ø3~Ø16	40	40	-	M18-1.5P	1	1.60
SBT40-SKS16-120	120	90	Ø3~Ø16	40	40	-	M18-1.5P	1	1.70
SBT40-SKS20-60	60	32	Ø3~Ø20	48.5	48.5	-	M22-1.5P	1	1.18
SBT40-SKS20-90	90	60	Ø3~Ø20	48.5	48.5	-	M22-1.5P	1	1.56
SBT40-SKS20-120	120	88	Ø3~Ø20	48.5	48.5	-	M22-1.5P	1	1.96
SBT40-SKS25-90	90	61	Ø3~Ø25.4	55.1	55	-	M28-2.0P	1	1.70
SBT40-SKS25-120	120	91	Ø3~Ø25.4	55.1	55	-	M28-2.0P	1	1.80

選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B627	B639	B651

• 長度單位 Unit of Length (mm)

SBT/SKS 法蘭加厚型高速機專用夾頭
SBT/SKS DUAL DRIVE COLLET CHUCK

雙面拘束 Dual Contact

Fig.1

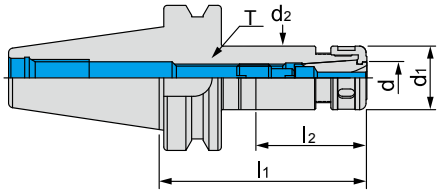
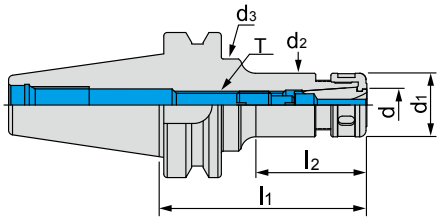


Fig.2



特點 Feature

- 偏擺精度 :5μ 以下 (延伸 4D 長度處)
- 標準動平衡 :G2.5 25000rpm

-Run-out accuracy: within 5μ.
-Balance of G2.5 at 25000rpm.

規格 Spec.	l_1	l_2	d	d_1	d_2	d_3	T	Fig.	重量 (KGS) Weight
SBT50-SKS6-90	90	42	Ø3~Ø6	18	18	-	M8-1.25P	1	4.00
SBT50-SKS6-120	120	59	Ø3~Ø6	18	18	32	M8-1.25P	2	4.20
SBT50-SKS10-105	105	57	Ø3~Ø10	30	27.6	-	M12-1.75P	1	4.50
SBT50-SKS10-150	150	94	Ø3~Ø10	30	27	40	M12-1.75P	2	4.60
SBT50-SKS10-165	165	108	Ø3~Ø10	30	27	40	M12-1.75P	2	4.30
SBT50-SKS10-200	200	143	Ø3~Ø10	30	27	36	M12-1.75P	2	5.20
SBT50-SKS10-250	250	193	Ø3~Ø10	30	27	40	M12-1.75P	2	5.60
SBT50-SKS13-105	105	62	Ø3~Ø13	35	33	-	M12-1.75P	1	4.12
SBT50-SKS13-135	135	92	Ø3~Ø13	35	33	-	M12-1.75P	1	4.70
SBT50-SKS13-165	165	92	Ø3~Ø13	35	33	45	M12-1.75P	2	4.46
SBT50-SKS13-200	200	92	Ø3~Ø13	35	33	45	M12-1.75P	2	5.20
SBT50-SKS13-250	250	92	Ø3~Ø13	35	33	45	M12-1.75P	2	5.70
SBT50-SKS16-105	105	57	Ø3~Ø16	40	40	-	M18-1.5P	1	4.15
SBT50-SKS16-150	150	98	Ø3~Ø16	40	40	52	M18-1.5P	2	4.70
SBT50-SKS16-165	165	108	Ø3~Ø16	40	40	52	M18-1.5P	2	4.50
SBT50-SKS16-200	200	92	Ø3~Ø16	40	40	52	M18-1.5P	2	5.22
SBT50-SKS16-250	250	92	Ø3~Ø16	40	40	52	M18-1.5P	2	6.00
SBT50-SKS20-105	105	62	Ø3~Ø20	48.5	48.5	-	M22-1.5P	1	4.40
SBT50-SKS20-135	135	92	Ø3~Ø20	48.5	48.5	-	M22-1.5P	1	4.60
SBT50-SKS20-165	165	122	Ø3~Ø20	48.5	48.5	-	M22-1.5P	1	5.16
SBT50-SKS20-200	200	157	Ø3~Ø20	48.5	48.5	-	M22-1.5P	1	5.40
SBT50-SKS20-250	250	207	Ø3~Ø20	48.5	48.5	-	M22-1.5P	1	6.10
SBT50-SKS25-105	105	62	Ø3~Ø25.4	55.1	55	-	M28-2.0P	1	4.50
SBT50-SKS25-150	150	107	Ø3~Ø25.4	55.1	55	-	M28-2.0P	1	4.80
SBT50-SKS25-200	200	157	Ø3~Ø25.4	55.1	55	-	M28-2.0P	1	6.00
SBT50-SKS25-250	250	207	Ø3~Ø25.4	55.1	55	-	M28-2.0P	1	6.70

選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B627	B639	B651

• 長度單位 Unit of Length (mm)

SBT/SKS 法蘭加厚型高速機專用夾頭（無風阻）
SBT/SKS DUAL DRIVE COLLET CHUCK(NON WIND RESISTANCE)

雙面拘束 Dual Contact

Fig.1

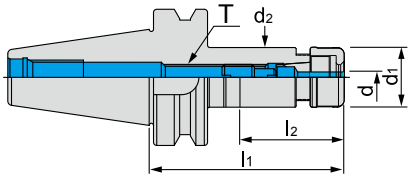
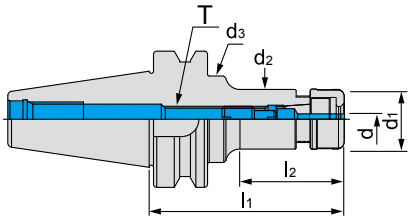


Fig.2



特點 Feature

- 偏擺精度 :5μ 以下 (延伸 4D 長度處)
- 標準動平衡 :G2.5 25000rpm

-Run-out accuracy: within 5μ.
-Balance of G2.5 at 25000rpm.

規格 Spec.	l_1	l_2	d	d_1	d_2	d_3	T	Fig.	重量 (KGS) Weight
SBT30-SKS6-45-HS	45	14.5	Ø3~Ø6	18	18	-	M8-1.25P	1	0.80
SBT30-SKS6-60-HS	60	25	Ø3~Ø6	18	18	-	M8-1.25P	1	0.90
SBT30-SKS10-45-HS	45	14.5	Ø3~Ø10	30	27.6	-	M12-1.75P	1	0.80
SBT30-SKS10-60-HS	60	25	Ø3~Ø10	30	27.6	-	M12-1.75P	1	0.90
SBT30-SKS10-90-HS	90	55	Ø3~Ø10	30	27.6	-	M12-1.75P	1	0.84
SBT30-SKS13-60-HS	60	35	Ø3~Ø13	35	33	-	M12-1.75P	1	1.10
SBT30-SKS13-90-HS	90	65	Ø3~Ø13	35	33	-	M12-1.75P	1	0.70
SBT30-SKS13-120-HS	120	95	Ø3~Ø13	35	33	-	M12-1.75P	1	1.20
SBT30-SKS16-60-HS	60	27.7	Ø3~Ø16	40	40	-	M18-1.75P	1	1.00
SBT30-SKS16-90-HS	90	57.7	Ø3~Ø16	40	40	-	M18-1.75P	1	1.20
SBT30-SKS20-60-HS	60	37	Ø3~Ø20	48.5	48.5	-	M12-1.75P	1	0.70
SBT30-SKS20-90-HS	90	67	Ø3~Ø20	48.5	48.5	-	M12-1.75P	1	1.20
SBT30-SKS25-90-HS	90	57.2	Ø3~Ø25.4	55.1	45	-	M28-2.0P	1	1.40
SBT40-SKS6-90-HS	90	36.352	Ø3~Ø6	18	18	32	M8-1.25P	2	1.20
SBT40-SKS6-120-HS	120	68.476	Ø3~Ø6	18	18	32	M8-1.25P	2	1.42
SBT40-SKS10-60-HS	60	22	Ø3~Ø10	30	27.6	-	M12-1.75P	1	1.40
SBT40-SKS10-90-HS	90	37.721	Ø3~Ø10	30	27.6	40	M12-1.75P	2	1.50
SBT40-SKS10-120-HS	120	68.499	Ø3~Ø10	30	27.6	40	M12-1.75P	2	1.60
SBT40-SKS13-60-HS	60	28	Ø3~Ø13	35	33	-	M12-1.75P	1	1.20
SBT40-SKS13-90-HS	90	58	Ø3~Ø13	35	33	-	M12-1.75P	1	1.32
SBT40-SKS13-120-HS	120	88	Ø3~Ø13	35	33	-	M12-1.75P	1	1.60
SBT40-SKS16-60-HS	60	23.2	Ø3~Ø16	40	40	-	M18-1.5P	1	1.40
SBT40-SKS16-90-HS	90	48.7	Ø3~Ø16	40	40	-	M18-1.5P	1	1.64
SBT40-SKS16-120-HS	120	78.876	Ø3~Ø16	40	40	-	M18-1.5P	1	1.70
SBT40-SKS20-60-HS	60	32	Ø3~Ø20	48.5	48.5	-	M22-1.5P	1	1.30
SBT40-SKS20-90-HS	90	60	Ø3~Ø20	48.5	48.5	-	M22-1.5P	1	1.60
SBT40-SKS20-120-HS	120	90	Ø3~Ø20	48.5	48.5	-	M22-1.5P	1	2.00
SBT40-SKS25-90-HS	90	50.7	Ø3~Ø25.4	55.1	55	-	M28-2.0P	1	1.70
SBT40-SKS25-120-HS	120	80.7	Ø3~Ø25.4	55.1	55	-	M28-2.0P	1	2.26

選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B627	B639	B651

• 長度單位 Unit of Length (mm)

SBT/SKS 法蘭加厚型高速機專用夾頭（無風阻）
SBT/SKS DUAL DRIVE COLLET CHUCK(NON WIND RESISTANCE)

雙面拘束 Dual Contact

Fig.1

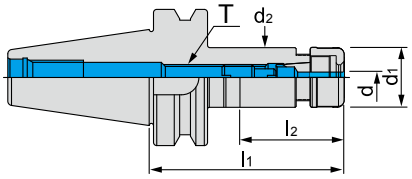
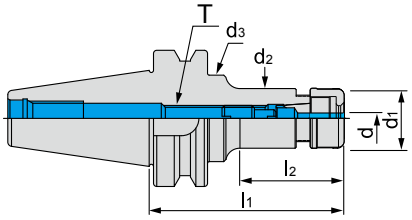


Fig.2



特點 Feature

- 偏擺精度 :5μ 以下 (延伸 4D 長度處)
- 標準動平衡 :G2.5 25000rpm

-Run-out accuracy: within 5μ.
-Balance of G2.5 at 25000rpm.

規格 Spec.	l_1	l_2	d	d_1	d_2	d_3	T	Fig.	重量 (KGS) Weight
SBT50-SKS6-90-HS	90	42	Ø3~Ø6	18	18	-	M8-1.25P	1	4.00
SBT50-SKS6-120-HS	120	59	Ø3~Ø6	18	18	32	M8-1.25P	2	4.20
SBT50-SKS10-105-HS	105	57	Ø3~Ø10	30	27.6	-	M12-1.75P	1	4.50
SBT50-SKS10-150-HS	150	94	Ø3~Ø10	30	27	40	M12-1.75P	2	4.60
SBT50-SKS10-165-HS	165	108	Ø3~Ø10	30	27	40	M12-1.75P	2	5.00
SBT50-SKS10-200-HS	200	143	Ø3~Ø10	30	27	36	M12-1.75P	2	5.20
SBT50-SKS10-250-HS	250	193	Ø3~Ø10	30	27	40	M12-1.75P	2	5.60
SBT50-SKS13-105-HS	105	62	Ø3~Ø13	35	33	-	M12-1.75P	1	4.50
SBT50-SKS13-135-HS	135	92	Ø3~Ø13	35	33	-	M12-1.75P	1	4.70
SBT50-SKS13-165-HS	165	92	Ø3~Ø13	35	33	45	M12-1.75P	2	4.90
SBT50-SKS13-200-HS	200	92	Ø3~Ø13	35	33	45	M12-1.75P	2	5.20
SBT50-SKS13-250-HS	250	92	Ø3~Ø13	35	33	45	M12-1.75P	2	5.70
SBT50-SKS16-105-HS	105	57	Ø3~Ø16	40	40	-	M18-1.5P	1	4.50
SBT50-SKS16-150-HS	150	98	Ø3~Ø16	40	40	52	M18-1.5P	2	4.70
SBT50-SKS16-165-HS	165	108	Ø3~Ø16	40	40	52	M18-1.5P	2	5.00
SBT50-SKS16-200-HS	200	92	Ø3~Ø16	40	40	52	M18-1.5P	2	5.50
SBT50-SKS16-250-HS	250	92	Ø3~Ø16	40	40	52	M18-1.5P	2	6.00
SBT50-SKS20-105-HS	105	62	Ø3~Ø20	48.5	48.5	-	M22-1.5P	1	4.30
SBT50-SKS20-135-HS	135	92	Ø3~Ø20	48.5	48.5	-	M22-1.5P	1	4.60
SBT50-SKS20-165-HS	165	122	Ø3~Ø20	48.5	48.5	-	M22-1.5P	1	5.00
SBT50-SKS20-200-HS	200	157	Ø3~Ø20	48.5	48.5	-	M22-1.5P	1	5.40
SBT50-SKS20-250-HS	250	207	Ø3~Ø20	48.5	48.5	-	M22-1.5P	1	6.10
SBT50-SKS25-105-HS	105	62	Ø3~Ø25.4	55.1	55	-	M28-2.0P	1	4.50
SBT50-SKS25-150-HS	150	107	Ø3~Ø25.4	55.1	55	-	M28-2.0P	1	5.28
SBT50-SKS25-200-HS	200	157	Ø3~Ø25.4	55.1	55	-	M28-2.0P	1	6.00
SBT50-SKS25-250-HS	250	207	Ø3~Ø25.4	55.1	55	-	M28-2.0P	1	6.70

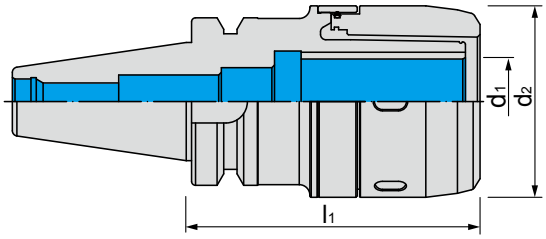
選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B627	B639	B651

• 長度單位 Unit of Length (mm)

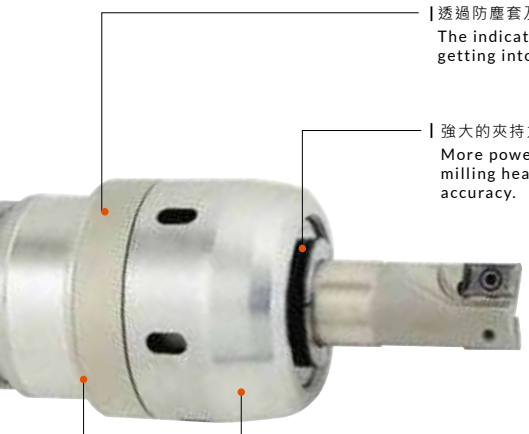
SBT/MLK 法蘭加厚型強力銑削夾頭
SBT/MLK DUAL DRIVE FORCE COLLET CHUCK

雙面拘束 Dual Contact **防塵設計 Dust-proof design**



規格 Spec.	l_1	d_1	d_2	重量 (KGS) Weight
SBT30-MLK12-70	70	12	42	1.03
SBT30-MLK16-85	85	16	48	1.31
SBT30-MLK20-90	90	20	56.5	1.58
SBT30-MLK25-90	90	25	60	-
SBT40-MLK12-80	80	12	42	1.72
SBT40-MLK16-80	80	16	48	1.86
SBT40-MLK20-90	90	20	56.5	2.00
SBT40-MLK25-95	95	25	60	2.28
SBT40-MLK32-105	105	32	72	3.00
SBT40-MLK32-135	135	32	72	2.70
SBT50-MLK12-100	100	12	42	4.56
SBT50-MLK16-100	100	16	48	4.72
SBT50-MLK20-100	100	20	56.5	4.87
SBT50-MLK25-100	100	25	60	4.88
SBT50-MLK32-110	110	32	72	5.64
SBT50-MLK32-165	165	32	72	7.10
SBT50-MLK42-115	115	42	90	6.19

-MLK32 扳手與 EOC32 扳手、MLD32 扳手共用
-MLK32 and MLK32MLD32 spanner can be used in common.



透過防塵套及防塵蓋，防止灰塵、鐵屑進入軸承內部，提高刀桿使用壽命
The indicated sleeve and lid prevent the dust and metal chip from getting into the inside, and extend the chuck life.

強大的夾持力保證新型強力銑削頭刀柄可被用於重切削，加工精度高
More powerful clamping force ensure that new model, powerful milling head shank can be used on heavy cutting with high accuracy.

吸收加工過程中所產生的震動，增加穩定性
Absorb the vibration in machining process, increase stabilities.

緊密貼合
Tight fit

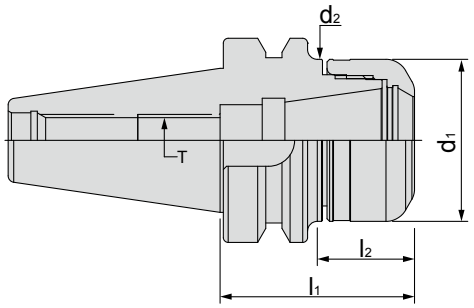
選配表 Option

拉頭 Pull Stud	筒夾 Collet	扳手 Spanner
B645-B647	B631	B651

• 長度單位 Unit of Length (mm)

SBT/PNER 法蘭加厚型立銑刀夾頭
SBT/PNER DUAL DRIVE COLLET CHUCK

雙面拘束 Dual Contact　精度 Accuracy : <3μm



特點 Feature

- 標準動平衡 :G2.5 25000rpm

- Dynamin balancing G2.5 at 25000rpm.

規格 Spec.	l_1	l_2	d_1	d_2	T	夾持範圍 Clamp Range	重量 (KGS) Weight
SBT30-PNER16-50	50	25	30	30	M10-1.5P	3.0~10	0.70
SBT30-PNER16-100	100	75	30	30	M10-1.5P	3.0~10	0.87
SBT30-PNER20-60	60	37	32	32	M12-1.75P	3.0~13	0.74
SBT30-PNER20-100	100	77	32	32	M12-1.75P	3.0~13	0.95
SBT30-PNER25-60	60	37	40	40	M16-2.0P	3.0~16	0.90
SBT30-PNER25-100	100	77	40	40	M16-2.0P	3.0~16	1.17
SBT30-PNER32-60	60	33	50	50	M16-2.0P	3.0~20	1.00
SBT30-PNER32-100	100	73	50	50	M16-2.0P	3.0~20	1.40
SBT40-PNER16-70	70	40	30	30	M10-1.5P	3.0~10	1.40
SBT40-PNER16-100	100	70	30	30	M10-1.5P	3.0~10	1.59
SBT40-PNER16-130	130	100	30	30	M10-1.5P	3.0~10	1.76
SBT40-PNER16-160	160	130	30	30	M10-1.5P	3.0~10	1.88
SBT40-PNER20-70	70	40	32	32	M12-1.75P	3.0~13	1.42
SBT40-PNER20-100	100	70	32	32	M12-1.75P	3.0~13	1.58
SBT40-PNER20-130	130	100	32	32	M12-1.75P	3.0~13	1.78
SBT40-PNER20-160	160	130	32	32	M12-1.75P	3.0~13	1.92
SBT40-PNER25-70	70	40	40	40	M16-2.0P	3.0~16	1.52
SBT40-PNER25-100	100	70	40	40	M16-2.0P	3.0~16	1.78
SBT40-PNER25-130	130	100	40	40	M16-2.0P	3.0~16	2.04
SBT40-PNER25-160	160	130	40	40	M16-2.0P	3.0~16	2.30
SBT40-PNER32-70	70	40	50	50	M16-2.0P	3.0~20	1.62
SBT40-PNER32-100	100	70	50	50	M16-2.0P	3.0~20	2.04
SBT40-PNER32-130	130	100	50	50	M16-2.0P	3.0~20	2.46
SBT40-PNER32-160	160	130	50	50	M16-2.0P	3.0~20	2.90

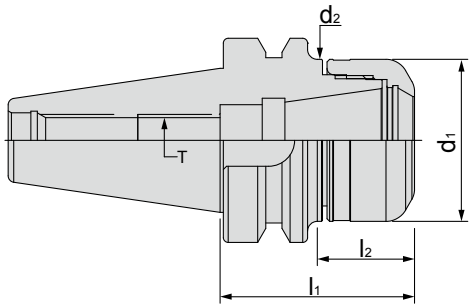
選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B625-B626	B637-B638	B651

• 長度單位 Unit of Length (mm)

SBT/PNER 法蘭加厚型立銑刀夾頭
SBT/PNER DUAL DRIVE COLLET CHUCK

雙面拘束 Dual Contact　精度 Accuracy : <3μm



特點 Feature

- 標準動平衡 :G2.5 25000rpm

- Dynamic balancing G2.5 at 25000rpm.

規格 Spec.	l_1	l_2	d_1	d_2	T	夾持範圍 Clamp Range	重量 (KGS) Weight
SBT40-PNER40-70	70	40	63	63	M20-2.0P	6.0~26	1.80
SBT40-PNER40-100	100	70	63	63	M20-2.0P	6.0~26	2.40
SBT50-PNER16-70	70	29	30	30	M10-1.5P	3.0~10	3.00
SBT50-PNER16-100	100	59	30	30	M10-1.5P	3.0~10	4.28
SBT50-PNER16-130	130	82	30	30	M10-1.5P	3.0~10	4.40
SBT50-PNER16-160	160	112	30	30	M10-1.5P	3.0~10	4.52
SBT50-PNER20-70	70	29	32	32	M12-1.75P	3.0~13	4.13
SBT50-PNER20-100	100	59	32	32	M12-1.75P	3.0~13	4.21
SBT50-PNER20-130	130	82	32	32	M12-1.75P	3.0~13	4.42
SBT50-PNER20-160	160	112	32	32	M12-1.75P	3.0~13	4.60
SBT50-PNER25-70	70	29	40	40	M16-2.0P	3.0~16	4.14
SBT50-PNER25-100	100	59	40	40	M16-2.0P	3.0~16	4.36
SBT50-PNER25-130	130	82	40	40	M16-2.0P	3.0~16	4.64
SBT50-PNER25-160	160	112	40	40	M16-2.0P	3.0~16	4.84
SBT50-PNER32-70	70	31	50	50	M16-2.0P	3.0~20	4.20
SBT50-PNER32-100	100	61	50	50	M16-2.0P	3.0~20	4.56
SBT50-PNER32-130	130	82	50	50	M16-2.0P	3.0~20	5.02
SBT50-PNER32-160	160	112	50	50	M16-2.0P	3.0~20	5.40
SBT50-PNER40-80	80	39	63	63	M20-2.0P	6.0~26	4.42
SBT50-PNER40-100	100	52	63	63	M20-2.0P	6.0~26	4.88
SBT50-PNER40-130	130	82	63	63	M20-2.0P	6.0~26	5.56
SBT50-PNER40-160	160	112	63	63	M20-2.0P	6.0~26	6.22

選配表 Option

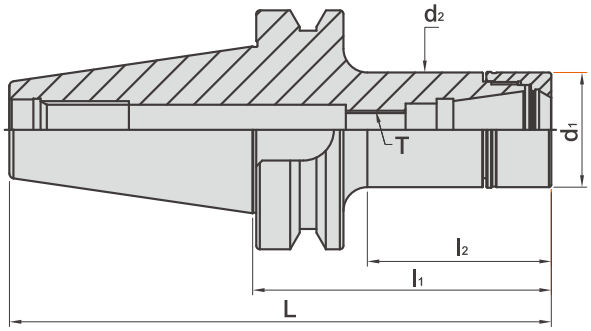
拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B625-B626	B637-B638	B651

• 長度單位 Unit of Length (mm)

SBT/Pro.E 法蘭加厚型筒夾式刀桿
SBT/Pro.E DUAL DRIVE COLLET CHUCK

雙面拘束 Dual Contact

NEW



特點 Feature

- 標準動平衡 :G2.5 25000rpm

- Dynamic balancing G2.5 at 25000rpm.

規格 Spec.	L	l_1	l_2	d_1	d_2	T	夾持範圍 Clamp Range	重量 (KGS) Weight
SBT30-Pro.E16-70	118.4	70	43	30	30	M10-1.5P	1~10	0.58
SBT30-Pro.E16-100	148.4	100	73	30	30	M10-1.5P	1~10	0.73
SBT30-Pro.E16-125	173.4	125	98	30	30	M10-1.5P	1~10	0.85
SBT30-Pro.E16-150	198.4	150	123	30	30	M10-1.5P	1~10	0.97
SBT30-Pro.E20-70	118.4	70	44	35	35	M12-1.75P	1~13	0.65
SBT30-Pro.E20-100	148.4	100	74	35	35	M12-1.75P	1~13	0.85
SBT30-Pro.E20-125	173.4	125	99	35	35	M12-1.75P	1~13	1.02
SBT30-Pro.E20-150	198.4	150	124	35	35	M12-1.75P	1~13	1.19
SBT30-Pro.E25-70	118.4	70	47.5	42	42	M16-2.0P	1~16	0.73
SBT30-Pro.E25-100	148.4	100	77.5	42	42	M16-2.0P	1~16	1.03
SBT30-Pro.E25-125	173.4	125	102.5	42	42	M16-2.0P	1~16	1.28
SBT30-Pro.E25-150	198.4	150	127.5	42	42	M16-2.0P	1~16	1.53
SBT30-Pro.E32-70	118.4	70	47.5	50	50	M16-2.0P	2~20	0.75
SBT30-Pro.E32-100	148.4	100	77.5	50	50	M16-2.0P	2~20	1.14
SBT30-Pro.E32-125	173.4	125	102.5	50	50	M16-2.0P	2~20	1.47
SBT30-Pro.E32-150	198.4	150	127.5	50	50	M16-2.0P	2~20	1.80
SBT40-Pro.E16-70	135.4	70	38	30	30	M10-1.5P	1~10	1.14
SBT40-Pro.E16-100	165.4	100	63	30	30	M10-1.5P	1~10	1.28
SBT40-Pro.E16-125	190.4	125	88	30	30	M10-1.5P	1~10	1.38
SBT40-Pro.E16-150	215.4	150	113	30	30	M10-1.5P	1~10	1.49
SBT40-Pro.E16-200	265.4	200	163	30	30	M10-1.5P	1~10	1.70
SBT40-Pro.E20-70	135.4	70	35	35	35	M12-1.75P	1~13	1.19
SBT40-Pro.E20-100	165.4	100	65	35	35	M12-1.75P	1~13	1.38
SBT40-Pro.E20-125	190.4	125	90	35	35	M12-1.75P	1~13	1.54
SBT40-Pro.E20-150	215.4	150	115	35	35	M12-1.75P	1~13	1.69
SBT40-Pro.E20-200	265.4	200	165	35	35	M12-1.75P	1~13	2.00
SBT40-Pro.E25-70	135.4	70	40	42	42	M16-2.0P	1~16	1.26
SBT40-Pro.E25-100	165.4	100	70	42	42	M16-2.0P	1~16	1.54
SBT40-Pro.E25-125	190.4	125	95	42	42	M16-2.0P	1~16	1.78
SBT40-Pro.E25-150	215.4	150	120	42	42	M16-2.0P	1~16	2.02

選配表 Option

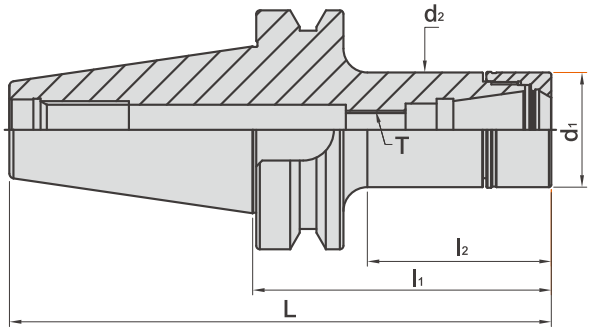
拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B604-B624	B638	B651

• 長度單位 Unit of Length (mm)

SBT/Pro.E 法蘭加厚型筒夾式刀桿
SBT/Pro.E DUAL DRIVE COLLET CHUCK

雙面拘束 Dual Contact

NEW



特點 Feature

- 標準動平衡 :G2.5 25000rpm

- Dynamic balancing G2.5 at 25000rpm.

規格 Spec.	L	l_1	l_2	d_1	d_2	T	夾持範圍 Clamp Range	重量 (KGS) Weight
SBT40-Pro.E25-200	265.4	200	170	42	42	M16-2.0P	1~16	2.49
SBT40-Pro.E32-70	135.4	70	40	50	50	M16-2.0P	2~20	1.27
SBT40-Pro.E32-100	165.4	100	70	50	50	M16-2.0P	2~20	1.65
SBT40-Pro.E32-125	190.4	125	95	50	50	M16-2.0P	2~20	1.97
SBT40-Pro.E32-150	215.4	150	120	50	50	M16-2.0P	2~20	2.29
SBT50-Pro.E16-70	171.8	70	29	30	30	M10-1.5P	1~10	3.68
SBT50-Pro.E16-100	201.8	100	52	30	30	M10-1.5P	1~10	3.78
SBT50-Pro.E16-125	226.8	125	77	30	30	M10-1.5P	1~10	3.92
SBT50-Pro.E16-150	251.8	150	102	30	30	M10-1.5P	1~10	4.03
SBT50-Pro.E16-200	301.8	200	147	30	30	M10-1.5P	1~10	4.27
SBT50-Pro.E16-250	351.8	250	197	30	30	M10-1.5P	1~10	4.48
SBT50-Pro.E20-70	171.8	70	29	35	35	M12-1.75P	1~13	3.70
SBT50-Pro.E20-100	201.8	100	52	35	35	M12-1.75P	1~13	3.86
SBT50-Pro.E20-125	226.8	125	77	35	35	M12-1.75P	1~13	4.06
SBT50-Pro.E20-150	251.8	150	102	35	35	M12-1.75P	1~13	4.22
SBT50-Pro.E20-200	301.8	200	147	35	35	M12-1.75P	1~13	4.56
SBT50-Pro.E20-250	351.8	250	197	35	35	M12-1.75P	1~13	4.87
SBT50-Pro.E25-70	171.8	70	31	42	42	M16-2.0P	1~16	3.74
SBT50-Pro.E25-100	201.8	100	52	42	42	M16-2.0P	1~16	4.00
SBT50-Pro.E25-125	226.8	125	77	42	42	M16-2.0P	1~16	4.20
SBT50-Pro.E25-150	251.8	150	102	42	42	M16-2.0P	1~16	4.40
SBT50-Pro.E25-200	301.8	200	152	42	42	M16-2.0P	1~16	4.80
SBT50-Pro.E25-250	351.8	250	197	42	42	M16-2.0P	1~16	5.24
SBT50-Pro.E32-70	171.8	70	31	50	50	M16-2.0P	2~20	3.74
SBT50-Pro.E32-100	201.8	100	52	50	50	M16-2.0P	2~20	4.10
SBT50-Pro.E32-125	226.8	125	77	50	50	M16-2.0P	2~20	4.38
SBT50-Pro.E32-150	251.8	150	102	50	50	M16-2.0P	2~20	4.66
SBT50-Pro.E32-200	301.8	200	152	50	50	M16-2.0P	2~20	5.23
SBT50-Pro.E32-250	351.8	250	197	50	50	M10-1.5P	2~20	5.83

選配表 Option

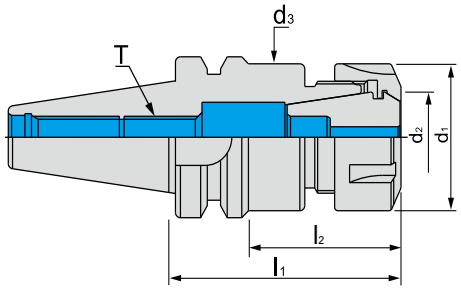
拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B612	B638	B651

• 長度單位 Unit of Length (mm)

SBT/ER 法蘭加厚型立銑刀夾頭
SBT/ER DUAL DRIVE COLLET CHUCK

DIN-6388
DIN-ISO-10897

雙面拘束 Dual Contact



規格 Spec.	l_1	l_2	d_1	d_2	d_3	T	夾持範圍 Clamp Range	重量 (KGS) Weight
SBT30-ER16A-50	50	27	28	16	28	M10-1.5P	Ø1~Ø10	0.45
SBT30-ER16A-60	60	35	28	16	28	M10-1.5P	Ø1~Ø10	0.50
SBT30-ER16A-70	70	40	28	16	28	M10-1.5P	Ø1~Ø10	0.55
SBT30-ER16A-100	100	70	28	16	28	M10-1.5P	Ø1~Ø10	0.57
SBT30-ER16A-120	120	93	28	16	28	M10-1.5P	Ø1~Ø10	0.70
SBT30-ER20A-50	50	28	34	20	34	M12-1.75P	Ø1~Ø13	0.95
SBT30-ER20A-70	70	45	34	20	34	M12-1.75P	Ø1~Ø13	0.61
SBT30-ER20A-100	100	75	34	20	34	M12-1.75P	Ø1~Ø13	0.80
SBT30-ER20A-135	135	110	34	20	34	M12-1.75P	Ø1~Ø13	1.15
SBT30-ER25-70	70	46	42	25	42	M16-2.0P	Ø1~Ø16	0.68
SBT30-ER25-135	135	111	42	25	42	M16-2.0P	Ø1~Ø16	1.47
SBT30-ER32-70	70	48	50	32	45	M16-2.0P	Ø2~Ø20	0.69
SBT30-ER32-100	100	78	50	32	45	M16-2.0P	Ø2~Ø20	1.04
SBT30-ER40-80	80	58	63	40	53	M16-2.0P	Ø3~Ø26	0.94
SBT40-ER16A-70	70	40	28	16	28	M10-1.5P	Ø1~Ø10	1.16
SBT40-ER16A-100	100	63	28	16	28	M10-1.5P	Ø1~Ø10	1.29
SBT40-ER16A-125	125	88	28	16	28	M10-1.5P	Ø1~Ø10	1.36
SBT40-ER16A-150	150	103	28	16	28	M10-1.5P	Ø1~Ø10	1.50
SBT40-ER16A-180	180	143	28	16	28	M10-1.5P	Ø1~Ø10	2.00
SBT40-ER20A-70	70	40	34	20	34	M12-1.75P	Ø1~Ø13	1.19
SBT40-ER20A-100	100	63	34	20	34	M12-1.75P	Ø1~Ø13	1.40
SBT40-ER20A-135	135	98	34	20	34	M12-1.75P	Ø1~Ø13	1.69
SBT40-ER20A-150	150	113	34	20	34	M12-1.75P	Ø1~Ø13	1.78
SBT40-ER25-70	70	40	42	25	42	M16-2.0P	Ø1~Ø16	1.24
SBT40-ER25-100	100	70	42	25	42	M16-2.0P	Ø1~Ø16	1.52
SBT40-ER25-125	125	95	42	25	42	M16-2.0P	Ø1~Ø16	1.76
SBT40-ER25-150	150	115	42	25	42	M16-2.0P	Ø1~Ø16	2.11
SBT40-ER32-70	70	40	50	32	45	M16-2.0P	Ø2~Ø20	1.92
SBT40-ER32-100	100	70	50	32	45	M16-2.0P	Ø2~Ø20	1.70
SBT40-ER32-150	150	118	50	32	45	M16-2.0P	Ø2~Ø20	2.49
SBT40-ER40-80	80	53	63	40	53	-	Ø3~Ø26	1.49
SBT40-ER40-100	100	73	63	40	53	M20-2.0P	Ø3~Ø26	1.90
SBT40-ER40-120	120	93	63	40	53	M20-2.0P	Ø3~Ø26	2.45
SBT40-ER40-150	150	123	63	40	53	M20-2.0P	Ø3~Ø26	3.05
SBT40-ER50-85	85	58	78	50	60	M24-2.0P	Ø5~Ø34	1.70
SBT40-ER50-100	100	73	78	50	60	M24-2.0P	Ø5~Ø34	2.01

選配表 Option

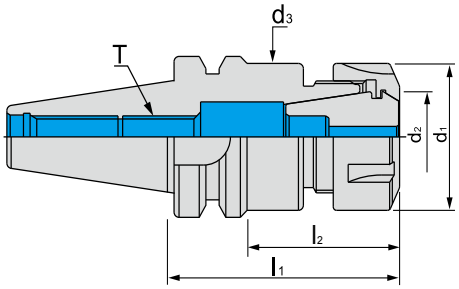
拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B612	B634	B650

• 長度單位 Unit of Length (mm)

SBT/ER 法蘭加厚型立銑刀夾頭
SBT/ER DUAL DRIVE COLLET CHUCK

DIN-6388
DIN-ISO-10897

雙面拘束 Dual Contact



規格 Spec.	l_1	l_2	d_1	d_2	d_3	T	夾持範圍 Clamp Range	重量 (KGS) Weight
SBT50-ER16A-70	70	28	28	16	28	M10-1.5P	Ø1~Ø10	4.10
SBT50-ER16A-90	90	47	28	16	28	M10-1.5P	Ø1~Ø10	4.16
SBT50-ER16A-105	105	57	28	16	28	M10-1.5P	Ø1~Ø10	4.19
SBT50-ER16A-135	135	87	28	16	28	M10-1.5P	Ø1~Ø10	4.40
SBT50-ER16A-150	150	102	28	16	28	M10-1.5P	Ø1~Ø10	4.50
SBT50-ER16A-165	165	117	28	16	28	M10-1.5P	Ø1~Ø10	4.36
SBT50-ER20A-70	70	29	34	20	34	M12-1.75P	Ø1~Ø13	4.09
SBT50-ER20A-90	90	47	34	20	34	M12-1.75P	Ø1~Ø13	4.18
SBT50-ER20A-105	105	57	34	20	34	M12-1.75P	Ø1~Ø13	4.22
SBT50-ER20A-135	135	87	34	20	34	M12-1.75P	Ø1~Ø13	4.52
SBT50-ER20A-150	150	102	34	20	34	M12-1.75P	Ø1~Ø13	4.47
SBT50-ER20A-165	165	117	34	20	34	M12-1.75P	Ø1~Ø13	4.55
SBT50-ER20A-200	200	152	34	20	34	M12-1.75P	Ø1~Ø13	4.90
SBT50-ER25-70	70	29	42	25	42	M16-2.0P	Ø1~Ø16	4.16
SBT50-ER25-105	105	57	42	25	42	M16-2.0P	Ø1~Ø16	4.45
SBT50-ER25-135	135	87	42	25	42	M16-2.0P	Ø1~Ø16	4.57
SBT50-ER25-165	165	117	42	25	42	M16-2.0P	Ø1~Ø16	4.89
SBT50-ER32-80	80	39	50	32	50	M16-2.0P	Ø2~Ø20	4.21
SBT50-ER32-100	100	57	50	32	50	M16-2.0P	Ø2~Ø20	4.46
SBT50-ER32-120	120	72	50	32	50	M16-2.0P	Ø2~Ø20	4.66
SBT50-ER32-150	150	102	50	32	50	M16-2.0P	Ø2~Ø20	5.01
SBT50-ER32-200	200	152	50	32	50	M16-2.0P	Ø2~Ø20	5.71
SBT50-ER40-80	80	39	63	40	63	M20-2.0P	Ø3~Ø26	4.26
SBT50-ER40-100	100	57	63	40	63	M20-2.0P	Ø3~Ø26	4.71
SBT50-ER40-120	120	72	63	40	63	M20-2.0P	Ø3~Ø26	5.05
SBT50-ER40-135	135	87	63	40	63	M20-2.0P	Ø3~Ø26	5.36
SBT50-ER40-150	150	102	63	40	63	M20-2.0P	Ø3~Ø26	5.76
SBT50-ER50-90	90	49	78	50	78	M24-2.0P	Ø5~Ø34	4.45
SBT50-ER50-120	120	79	78	50	78	M24-2.0P	Ø5~Ø34	5.40
SBT50-ER50-165	165	124	78	50	78	M24-2.0P	Ø5~Ø34	7.10

選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B612	B634	B650

• 長度單位 Unit of Length (mm)

SBT/FMA 法蘭加厚型平面銑刀柄
SBT/FMA DUAL DRIVE FACE MILL ARBOR

雙面拘束 Dual Contact

Fig.1

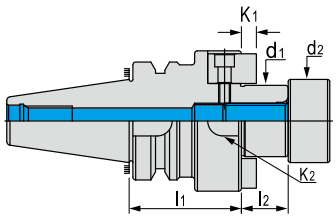
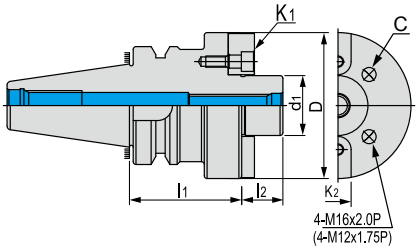


Fig.2



規格 Spec.	l_1	l_2	D	d_1	d_2	K_1	K_2	C	Fig.	重量 (KGS) Weight
SBT30-FMA25.4-45	45	20	50	25.4	31.5	4.52	9.52	-	1	1.10
SBT30-FMA25.4-60	60	20	50	25.4	31.5	4.52	9.52	-	1	1.30
SBT30-FMA31.75-45	45	22	60	31.75	41	6.7	12.7	-	1	1.16
SBT40-FMA25.4-45	45	20	50	25.4	31.5	4.52	9.52	-	1	1.44
SBT40-FMA25.4-60	60	20	50	25.4	31.5	4.52	9.52	-	1	1.66
SBT40-FMA25.4-90	90	20	50	25.4	31.5	4.52	9.52	-	1	2.18
SBT40-FMA25.4-105	105	20	50	25.4	31.5	4.52	9.52	-	1	2.39
SBT40-FMA31.75-45	45	22	60	31.75	41	6.7	12.7	-	1	1.52
SBT40-FMA31.75-75	75	22	60	31.75	41	6.7	12.7	-	1	2.45
SBT40-FMA31.75-90	90	22	60	31.75	41	6.7	12.7	-	1	2.72
SBT40-FMA38.10-60	60	25	75	38.1	44.5	8.87	15.87	-	1	2.50
SBT40-FMA50.80-60	60	36	98	50.8	65	9.75	19.05	-	1	2.25
SBT40-FMA47.625-65	65	32	128.75	47.62	-	12.5	25.4	PCD Ø101.6	2	6.50
SBT50-FMA25.4-45	45	20	50	25.4	31.5	4.52	9.52	-	1	4.21
SBT50-FMA25.4-90	90	20	50	25.4	31.5	4.52	9.52	-	1	4.71
SBT50-FMA25.4-150	150	20	50	25.4	31.5	4.52	9.52	-	1	5.54
SBT50-FMA31.75-45	45	22	60	31.75	41	6.2	12.7	-	1	4.39
SBT50-FMA31.75-75	75	22	60	31.75	41	6.7	12.7	-	1	4.89
SBT50-FMA31.75-105	105	22	60	31.75	41	6.7	12.7	-	1	5.70
SBT50-FMA38.10-45	45	25	80	38.1	44.5	8.87	15.87	-	1	5.20
SBT50-FMA38.10-75	75	25	80	38.1	44.5	8.87	15.87	-	1	5.78
SBT50-FMA50.80-45	45	36	98	50.8	65	9.75	19.05	-	1	5.70
SBT50-FMA50.80-75	75	36	98	50.8	65	9.75	19.05	-	1	6.80
SBT50-FMA47.62-75	75	32	128.75	47.62	-	12.5	25.4	PCD Ø101.6	2	8.82

選配表 Option

拉頭 Pull Stud

B645-B647

• 長度單位 Unit of Length (mm)

SBT/FMB 法蘭加厚型平面銑刀柄
SBT/FMB DUAL DRIVE FACE MILL ARBOR

雙面拘束 Dual Contact

Fig.1

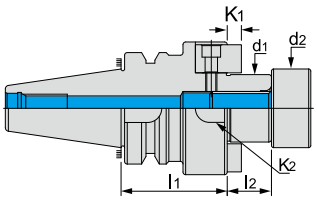
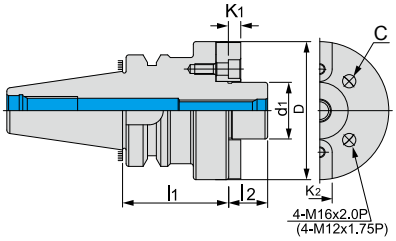


Fig.2



規格 Spec.	l_1	l_2	D	d_1	d_2	k_1	k_2	C	Fig.	重量 (KGS) Weight
SBT30-FMB22-45	45	19	48	22	26	4.8	10	-	1	0.82
SBT30-FMB22-60	60	19	48	22	26	4.8	10	-	1	1.00
SBT30-FMB27-60	60	20	60	27	31.5	5.8	12	-	1	1.30
SBT30-FMB32-60	60	22	78	32	41	6.8	14	-	1	1.62
SBT40-FMB22-45	45	19	48	22	26	4.8	10	-	1	1.37
SBT40-FMB22-60	60	19	48	22	26	4.8	10	-	1	1.57
SBT40-FMB22-100	100	19	48	22	26	4.8	10	-	1	2.19
SBT40-FMB22-150	150	19	48	22	26	4.8	10	-	1	2.87
SBT40-FMB22-200	200	19	48	22	26	4.8	10	-	1	3.58
SBT40-FMB27-60	60	20	60	27	31.5	5.8	12	-	1	1.87
SBT40-FMB27-90	90	20	60	27	31.5	5.8	12	-	1	2.61
SBT40-FMB27-105	105	20	60	27	31.5	5.8	12	-	1	2.93
SBT40-FMB32-60	60	22	78	32	41	6.8	14	-	1	2.10
SBT40-FMB40-60	60	25	80	40	48	8.3	16	-	1	2.80
SBT50-FMB22-45	45	19	48	22	26	4.8	10	-	1	4.15
SBT50-FMB22-90	90	19	48	22	26	4.8	10	-	1	4.68
SBT50-FMB22-150	150	19	48	22	26	4.8	10	-	1	5.31
SBT50-FMB22-200	200	19	48	22	26	4.8	10	-	1	6.06
SBT50-FMB22-250	250	19	48	22	26	4.8	10	-	1	8.00
SBT50-FMB22-300	300	19	48	22	26	4.8	10	-	1	10.0
SBT50-FMB22-350	350	19	48	22	26	4.8	10	-	1	10.5
SBT50-FMB22-400	400	19	48	22	26	4.8	10	-	1	12.5
SBT50-FMB27-50	50	20	60	27	31.5	5.8	12	-	1	4.41
SBT50-FMB27-90	90	20	60	27	31.5	5.8	12	-	1	5.40
SBT50-FMB27-150	150	20	60	27	31.5	5.8	12	-	1	6.30
SBT50-FMB27-200	200	20	60	27	31.5	5.8	12	-	1	7.42
SBT50-FMB27-250	250	20	60	27	31.5	5.8	12	-	1	8.43
SBT50-FMB32-50	50	22	78	32	41	6.8	14	-	1	4.69
SBT50-FMB32-90	90	22	78	32	41	6.8	14	-	1	5.96
SBT50-FMB40-50	50	25	89	40	48	8.3	16	-	1	5.04
SBT50-FMB40-90	90	25	89	40	48	8.3	16	-	1	6.00
SBT50-FMB40-105	105	25	89	40	48	8.3	16	-	1	7.20
SBT50-FS40F-75	75	26	110	40	-	8.3	16	PCD Ø66.7	2	6.00
SBT50-FS60F-75	75	25	138	60	-	12.5	25.4	PCD Ø101.6	2	8.49

選配表 Option

拉頭 Pull Stud

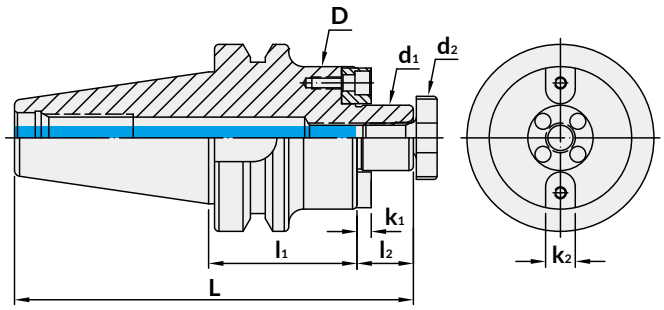
B645-B647

• 長度單位 Unit of Length (mm)

SBT/FMC 法蘭加厚型平面銑刀柄
SBT/FMC DUAL DRIVE FACE MILL ARBOR

雙面拘束 Dual Contact

NEW



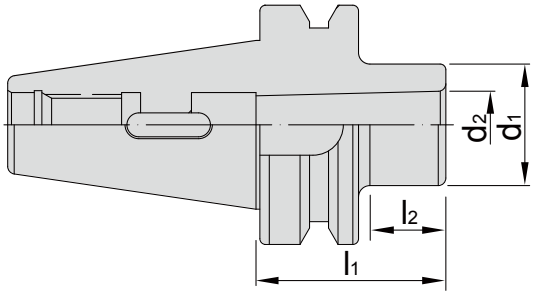
規格 Spec.	L	l_1	l_2	D	d_1	d_2	k_1	k_2	重量 (KGS) Weight
SBT30-FMC16-35	100.4	35	17	40	16	20	5	8	0.72
SBT30-FMC22-40	107.4	40	19	45	22	28	4.8	10	0.80
SBT30-FMC27-40	109.4	40	21	60	27	35	5.8	12	1.06
SBT40-FMC16-45	127.4	45	17	38	16	20	5	8	1.20
SBT40-FMC22-45	129.4	45	19	50	22	28	4.8	10	1.34
SBT40-FMC27-45	131.4	45	21	60	27	35	5.8	12	1.56
SBT40-FMC32-50	139.4	50	24	78	32	42	6.8	14	1.96
SBT50-FMC16-50	168.8	50	17	40	16	20	5	8	4.00
SBT50-FMC22-60	180.8	60	19	50	22	28	4.8	10	4.10
SBT50-FMC27-60	182.8	60	21	60	27	35	5.8	12	4.30
SBT50-FMC32-60	185.8	60	24	78	32	42	6.8	14	4.60
SBT50-FMC40-70	198.8	70	27	89	40	52	8.3	16	5.20
SBT40-FMC22.225-45	127.4	45	17	47	22.225	28	3.5	8	1.50
SBT40-FMC22.225-60	142.4	60	17	47	22.225	28	3.5	8	1.80
SBT40-FMC22.225-90	172.4	90	17	47	22.225	28	3.5	8	2.50
SBT40-FMC25.4-60	147.4	60	22	70	25.4	35	5	9.525	2.00
SBT40-FMC25.4-90	177.4	90	22	70	25.4	35	5	9.525	2.70
SBT40-FMC25.4-105	192.4	105	22	70	25.4	35	5	9.525	3.40
SBT40-FMC31.75-60	155.4	60	30	76	31.75	42	7	12.7	2.50
SBT40-FMC31.75-90	185.4	90	30	76	31.75	42	7	12.7	3.20
SBT50-FMC22.225-90	208.8	90	17	47	22.225	28	3.5	8	4.40
SBT50-FMC22.225-105	223.8	105	17	47	22.225	28	3.5	8	4.70
SBT50-FMC22.225-150	268.8	150	17	47	22.225	28	3.5	8	5.30
SBT50-FMC22.225-200	318.8	200	17	47	22.225	28	3.5	8	6.00
SBT50-FMC22.225-250	368.8	250	17	47	22.225	28	3.5	8	6.60
SBT50-FMC22.225-300	418.8	300	17	47	22.225	28	3.5	8	7.70
SBT50-FMC22.225-350	468.8	350	17	47	22.225	28	3.5	8	8.90
SBT50-FMC25.4-45	168.8	45	22	70	25.4	35	5	9.525	4.00
SBT50-FMC25.4-60	183.8	60	22	70	25.4	35	5	9.525	4.50
SBT50-FMC25.4-90	213.8	90	22	70	25.4	35	5	9.525	5.40
SBT50-FMC25.4-150	273.8	150	22	70	25.4	35	5	9.525	7.20
SBT50-FMC25.4-200	232.8	200	22	70	25.4	35	5	9.525	8.70
SBT50-FMC25.4-250	373.8	250	22	70	25.4	35	5	9.525	10.3
SBT50-FMC25.4-300	423.8	300	22	70	25.4	35	5	9.525	11.8

• 長度單位 Unit of Length (mm)

SBT/MTA 法蘭加厚型斜柄鑽頭套筒
SBT/MTA DUAL DRIVE MORSE TAPER ADAPTER

DIN-228-B

雙面拘束 Dual Contact



規格 Spec.	l_1	l_2	d_1	d_2	重量 (KGS) Weight
SBT30-MTA1-45	45	20	25	12.065	0.55
SBT30-MTA1-105	105	78	25	12.065	0.80
SBT30-MTA2-60	60	35	32	17.78	0.60
SBT30-MTA2-120	120	95	25	12.065	0.90
SBT30-MTA3-80	80	56	40	23.825	0.80
SBT40-MTA1-45	45	15	25	12.065	1.05
SBT40-MTA1-120	120	83	25	12.065	1.32
SBT40-MTA2-50	50	20	32	17.78	1.10
SBT40-MTA2-120	120	88	32	17.78	1.42
SBT40-MTA3-70	70	38	40	23.825	1.70
SBT40-MTA3-135	135	102	40	23.825	1.40
SBT40-MTA4-95	95	63	48	31.267	2.00
SBT40-MTA4-165	165	133	48	31.267	2.50
SBT50-MTA1-45	45	2	25	12.065	3.80
SBT50-MTA1-120	120	74	25	12.065	4.30
SBT50-MTA1-180	180	132	25	12.065	5.00
SBT50-MTA2-60	60	17	32	17.78	4.00
SBT50-MTA2-135	135	89	32	17.78	4.70
SBT50-MTA2-180	180	132	32	17.78	5.00
SBT50-MTA3-65	65	22	40	23.825	3.90
SBT50-MTA3-150	150	107	40	23.825	5.00
SBT50-MTA3-180	180	132	40	23.825	5.50
SBT50-MTA4-95	95	52	48	31.267	4.20
SBT50-MTA4-180	180	132	48	31.267	5.50
SBT50-MTA5-105	105	62	63	44.399	4.30

選配表 Option

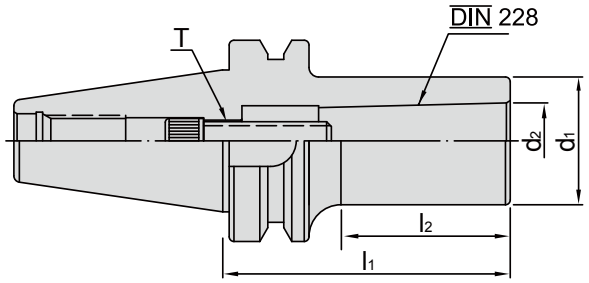
拉頭 Pull Stud	退鑽器 Hand Drift
B645-B647	B683

• 長度單位 Unit of Length (mm)

SBT/MTB 法蘭加厚型斜柄鑽頭套筒
SBT/MTB DUAL DRIVE MORSE TAPER ADAPTER

DIN-6364

雙面拘束 Dual Contact



規格 Spec.	T	l_1	l_2	d_1	d_2	重量 (KGS) Weight
SBT30-MTB1-45	M6-1.0P	45	20	25	12.065	0.55
	1/4"-20	45	20	25	12.065	0.55
SBT30-MTB2-60	M10-1.5P	60	36.5	32	17.78	0.60
	3/8"-16	60	36.5	32	17.78	0.60
SBT40-MTB1-45	M6-1.0P	45	13	25	12.065	1.10
	1/4"-20	45	13	25	12.065	1.10
SBT40-MTB2-45	M10-1.5P	45	13	32	17.78	1.10
	3/8"-16	45	13	32	17.78	1.10
SBT40-MTB2-185	M10-1.5P	185	148	32	17.78	1.90
	3/8"-16	185	148	32	17.78	1.90
SBT40-MTB3-75	M12-1.75P or 1/2"-12	75	45	40	23.825	1.30
SBT40-MTB3-90		90	53	40	23.825	1.40
SBT40-MTB3-120		120	83	40	23.825	1.80
SBT40-MTB3-180		180	143	40	23.825	2.40
SBT40-MTB4-100	M16-2.0P or 5/8"-10	100	67	48	31.267	1.60
SBT40-MTB4-120		120	87	48	31.267	1.80
SBT40-MTB4-180		180	147	48	31.267	2.60
SBT50-MTB1-45	M6-1.0P	45	6	25	12.065	3.80
	1/4"-20	45	6	25	12.065	3.80
SBT50-MTB2-45	M10-1.5P	45	5	32	17.78	3.90
	3/8"-16	45	5	32	17.78	3.90
SBT50-MTB3-60	M12-1.75P	60	12	40	23.825	3.90
	1/2"-12	60	12	40	23.825	3.90
SBT50-MTB4-75	M16-2.0P	75	32	48	31.267	4.20
	5/8"-11	75	32	48	31.267	4.20
SBT50-MTB5-120	M24-3.0P	120	77	63	44.399	4.30
	1"-8	120	77	63	44.399	4.30

選配表 Option

拉頭 Pull Stud

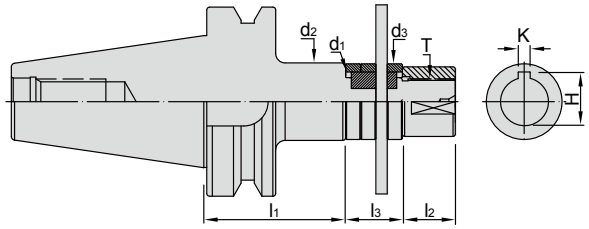
B645-B647

• 長度單位 Unit of Length (mm)

SBT/SCA 法蘭加厚型側銑刀柄
SBT/SCA DUAL DRIVE SIDE CUTTER ADAPTER

Nut form DIN-2082-1
Bush form DIN-2084-B

雙面拘束 Dual Contact



特點 Feature

- 螺帽標準 : DIN-2082-I
- 間隔環標準 : DIN-2084-B

- Nut standard: DIN-2082-I
- Bush standard: DIN-2084-B

規格 Spec.	l_1	l_2	l_3	d_1	d_2	d_3	K	H	T	重量 (KGS) Weight
SBT30-SCA10-60	60	12	35	10	18	18	-	-	M8-1.25P	0.80
SBT30-SCA16-60	60	16	30	16	26	26	4	17.7	M14-1.5P	1.00
SBT30-SCA22-60	60	22	30	22	34	34	6	24.3	M20-1.5P	1.20
SBT30-SCA22-75	75	22	30	22	34	34	6	24.3	M20-1.5P	1.40
SBT40-SCA16-60	60	16	30	16	26	26	4	17.7	M14-1.5P	1.50
SBT40-SCA22-60	60	22	30	22	34	34	6	24.3	M20-1.5P	1.60
SBT40-SCA22-75	75	22	30	22	34	34	6	24.3	M20-1.5P	1.70
SBT40-SCA22-120	120	22	30	22	34	34	6	24.3	M20-1.5P	2.00
SBT40-SCA27-75	75	28	30	27	41	40	7	30	M24-1.5P	2.10
SBT40-SCA27-120	120	28	30	27	41	40	7	30	M24-1.5P	2.50
SBT40-SCA32-90	90	32	30	32	47	47	8	35	M30-1.5P	2.60
SBT40-SCA22.22-75	75	22	30	22.22	34	34	3.18	24.6	M20-1.5P	2.70
SBT40-SCA22.22-120	120	22	30	22.22	34	34	3.18	24.6	M20-1.5P	2.00
SBT40-SCA25.4-75	75	28	30	25.4	41	40	6.35	28.4	M24-1.5P	2.00
SBT40-SCA25.4-120	120	28	30	25.4	41	40	6.35	28.4	M24-1.5P	2.40
SBT40-SCA31.75-90	90	32	30	31.75	47	47	7.93	34.8	M30-1.5P	2.60
SBT50-SCA22-90	90	22	30	22	34	34	6	24.3	M20-1.5P	4.40
SBT50-SCA22-135	135	22	30	22	34	34	6	24.3	M20-1.5P	4.70
SBT50-SCA27-90	90	28	30	27	41	40	7	30	M24-1.5P	4.60
SBT50-SCA27-135	135	28	30	27	41	40	7	30	M24-1.5P	5.00
SBT50-SCA32-90	90	32	30	32	47	47	8	35	M30-1.5P	4.70
SBT50-SCA32-135	135	32	30	32	47	47	8	35	M30-1.5P	5.20
SBT50-SCA40-90	90	40	30	40	55	55	10	43.7	M36-2.0P	5.00
SBT50-SCA40-135	135	40	30	40	55	55	10	43.7	M36-2.0P	6.00
SBT50-SCA22.22-90	90	22	30	22.22	34	34	3.18	24.6	M20-1.5P	4.40
SBT50-SCA22.22-135	135	22	30	22.22	34	34	3.18	24.6	M20-1.5P	4.70
SBT50-SCA25.4-90	90	28	30	25.4	41	40	6.35	28.4	M24-1.5P	4.50
SBT50-SCA25.4-135	135	28	30	25.4	41	40	6.35	28.4	M24-1.5P	4.90
SBT50-SCA31.75-90	90	32	30	31.75	47	47	7.93	34.8	M30-1.5P	4.70
SBT50-SCA31.75-135	135	32	30	31.75	47	47	7.93	34.8	M30-1.5P	5.20
SBT50-SCA38.1-90	90	40	30	38.1	55	55	9.525	42.4	M36-2.0P	4.90
SBT50-SCA38.1-135	135	40	30	38.1	55	55	9.525	42.4	M36-2.0P	5.90

選配表 Option

拉頭 Pull Stud

B645-B647

• 長度單位 Unit of Length (mm)

SBT/SLN 法蘭加厚型側固式銑刀柄 (JIS 型)
SBT/SLN DUAL DRIVE SIDE LOCK END MILL HOLDERS(JIS TYPE)

雙面拘束 Dual Contact

Fig.1

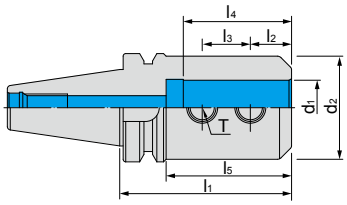
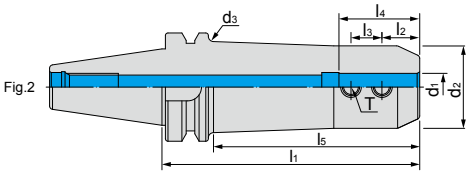


Fig.2



規格 Spec.	l_1	l_2	l_3	l_4	l_5	d_1	d_2	d_3	T	Fig.	重量 (KGS) Weight
SBT40-SLN6-75JIS	75	12	10	35	45	6	25	-	M6-1.0P	1	1.17
SBT40-SLN6-150JIS	150	12	10	35	113	6	25	30	M6-1.0P	2	1.50
SBT40-SLN8-75JIS	75	14	12	35	45	8	28	-	M8-1.25P	1	1.21
SBT40-SLN8-150JIS	150	14	12	35	113	8	28	33	M8-1.25P	2	1.50
SBT40-SLN10-75JIS	75	15	14	39	45	10	35	-	M10-1.5P	1	1.35
SBT40-SLN10-150JIS	150	15	14	39	118	10	35	40	M10-1.5P	2	1.50
SBT40-SLN12-75JIS	75	20	16	44	45	12	42	-	M10-1.5P	1	1.50
SBT40-SLN12-150JIS	150	20	16	44	118	12	42	47	M10-1.5P	2	1.70
SBT40-SLN16-75JIS	75	22	18	47	45	16	48	-	M10-1.5P	1	1.58
SBT40-SLN16-150JIS	150	22	18	47	120	16	48	53	M10-1.5P	2	2.75
SBT40-SLN20-90JIS	90	25	20	55	60	20	50	-	M12-1.75P	1	1.77
SBT40-SLN20-150JIS	150	25	20	55	120	20	52	57	M12-1.75P	2	1.80
SBT40-SLN25-90JIS	90	24	25	58	60	25	50	-	M12-1.75P	1	1.92
SBT40-SLN32-100JIS	100	24	28	63	73	32	60	-	M16-2.0P	1	2.30
SBT50-SLN6-75JIS	75	12	10	35	31	6	25	-	M6-1.0P	1	4.04
SBT50-SLN8-75JIS	75	14	12	35	27	8	28	-	M8-1.25P	1	4.06
SBT50-SLN10-75JIS	75	15	14	39	32	10	35	-	M10-1.5P	-	3.90
SBT50-SLN12-90JIS	90	20	16	44	42	12	42	-	M10-1.5P	-	4.35
SBT50-SLN12-165JIS	165	20	16	44	124	12	42	47	M10-1.5P	2	5.05
SBT50-SLN16-90JIS	90	22	18	47	42	16	48	-	M10-1.5P	1	4.53
SBT50-SLN16-165JIS	165	22	18	47	117	16	48	53	M10-1.5P	2	5.50
SBT50-SLN20-90JIS	90	25	20	55	49	20	50	-	M12-1.75P	1	4.53
SBT50-SLN20-165JIS	165	25	20	55	117	20	50	57	M12-1.75P	2	5.67
SBT50-SLN20-210JIS	210	25	20	55	162	20	50	57	M12-1.75P	2	6.40
SBT50-SLN25-100JIS	100	24	25	68	59	25	50	57	M12-1.75P	1	4.58
SBT50-SLN25-165JIS	165	24	25	68	117	25	50	57	M12-1.75P	2	5.55
SBT50-SLN25-210JIS	210	24	25	68	169	25	50	57	M12-1.75P	2	6.25
SBT50-SLN25-250JIS	250	24	25	68	202	25	50	60	M12-1.75P	2	7.10
SBT50-SLN32-105JIS	105	24	28	73	64	32	60	-	M16-2.0P	1	4.89
SBT50-SLN32-165JIS	165	24	28	73	117	32	60	65	M16-2.0P	1	6.33
SBT50-SLN32-210JIS	210	24	28	73	162	32	60	60	M16-2.0P	2	6.34
SBT50-SLN32-250JIS	250	24	28	73	207	32	50	60	M16-2.0P	2	7.50
SBT50-SLN32-300JIS	300	24	28	73	257	32	60	65	M16-2.0P	2	8.00
SBT50-SLN40-115JIS	115	30	32	85	74	40	90	-	M20-2.0P	1	6.60
SBT50-SLN42-120JIS	120	30	32	85	79	42	90	-	M20-2.0P	1	6.73
SBT50-SLN42-210JIS	210	30	32	85	-	42	70	75	M20-2.0P	2	7.80
SBT50-SLN50-120JIS	120	35	35	90	82	50	90	-	M20-2.0P	1	5.28
● SBT50-SLN50.8-120JIS	120	33.9	35.78	90	82	50.8	90	-	M20-2.0P	1	6.61

●有插梢 With pin

選配表 Option

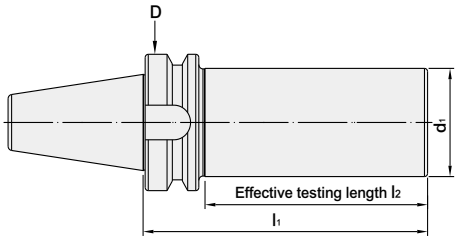
拉頭 Pull Stud

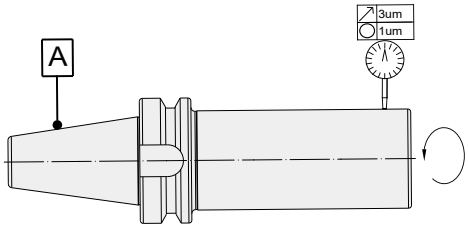
B645-B647

• 長度單位 Unit of Length (mm)

SBT 主軸精密標準棒
SBT SPINDLE MASTER BAR

NEW





錐度精度 Taper Precision	AT2
真圓度 Roundness	1um
表面粗糙度 Surface Roughness	Ra<0.15um
偏擺精度 Runout	3um
圓柱度 Cylindrical	5um

規格 Spec.	l1	l2	D	d1	重量 (KGS) Weight
SBT30-TS250L-P	250	225	46	25	0.91
SBT30-TS150L-P	150	125	46	32	1.09
SBT30-TS235L-P	235	210	46	32	1.57
SBT40-TS200L-P	200	170	63	50	2.94
SBT40-TS350L-P	350	320	63	50	4.64
SBT50-TS200L-P	200	159	100	50	5.28
SBT50-TS360L-P	360	319	100	50	7.1
SCAT40-TS300L-P	300	277.95	44.45	50	4.03
SCAT50-TS300L-P	300	280	98.425	50	6.88

• 長度單位 Unit of Length (mm)

SOM 模組化示意圖 Modular combination

SBT/SOM
螺紋鎖固式刀桿
Screwed End
Mill Holder

直柄C/M螺紋鎖固式
鎢鋼延長桿
C/M Straight Shank
Tungsten Carbide
Extension Shank

CAT/SOM
鎖牙式刀桿
Screwed-on End
Mill Holder

SOM鎖牙式延長桿
SOM Screwed-on End
Mill Extension Shank

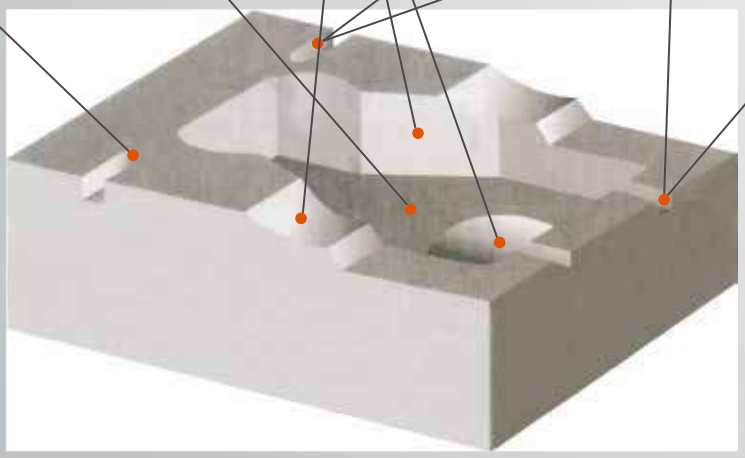
MAS 鎖牙式迷你銑刀
MAS Screwed-on
End Mill Cutter

STR鎖牙式切削刀具
STR Screwed-on
End Mill Cutter

BR鎖牙式球型銑刀
Screwed-on Rounded Corner
End Mill Cutter

NHF 高進給鎖牙銑刀
High Feed Screwed-on
End mill Cutter

HAS鎖牙式大進給切削刀具
Screwed-on High
Speed Mill Cutter



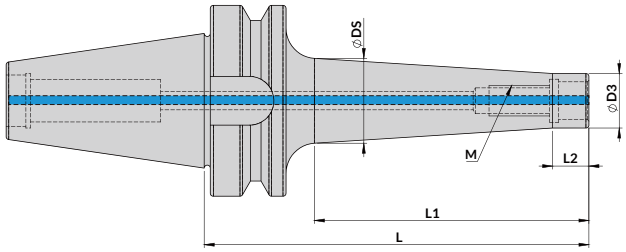
※ 刀桿通孔，利於出水及抗震。

Through-hole design for better water coolant and anti-vibration

SBT/SOM 鎖牙式刀桿
SBT/SOM SCREWED END MILL HOLDER

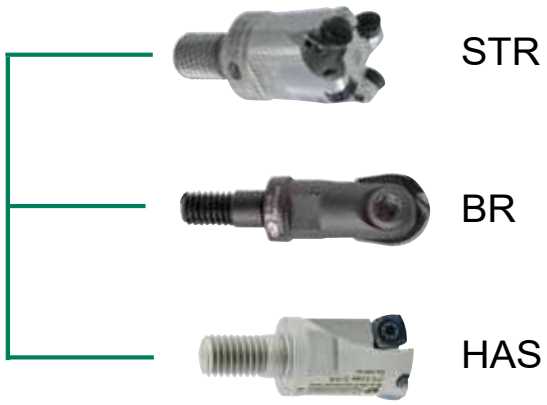
LEMMA

NEW



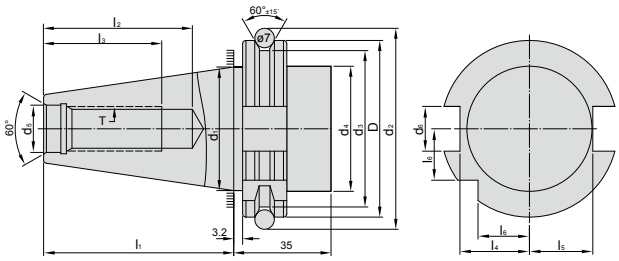
規格 Spec.	M	Ds	D_3	L	L_1	L_2
SBT40-SOM6-110	M6	25	9.7	110	80	10
SBT40-SOM8-105	M8	30	15	105	75	10
SBT40-SOM10-100	M10	35	18	100	70	10
SBT40-SOM10-130	M10	35	18	130	100	10
SBT40-SOM12-95	M12	40	21	95	65	10
SBT40-SOM12-130	M12	40	21	130	100	10
SBT40-SOM16-90	M16	48	28	90	60	10
SBT40-SOM16-140	M16	48	28	140	110	10
SBT50-SOM12-150	M12	41	21	150	105	30
SBT50-SOM12-200	M12	42.5	21	200	155	30
SBT50-SOM16-150	M16	49	28	150	105	30
SBT50-SOM16-200	M16	50	28	200	155	35

範例 Example

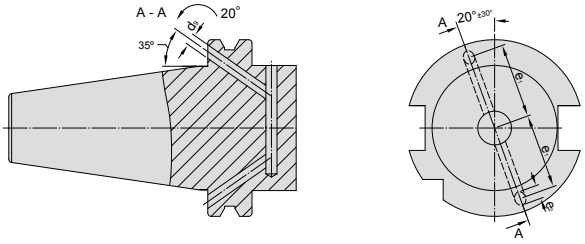


• 長度單位 Unit of Length (mm)

DIN69871/DAT A



DIN 69871/DAT AD+B



規格 Spec.	D 0 -0.1	d_1	d_2 ±0.05	d_3 0 -0.5	d_4 Max.	d_5 H7	d_6 H12	d_9	l_1 0 -0.3	l_2 min.	l_3 min.	l_4 0 -0.4	l_5 0 -0.5	l_6 0 -0.3	e_1 ±0.1	e_2 max.	T
DAT30	50	31.75	59.30	44.30	45	13	16.1	4	47.8	33.5	24	19	16.4	15	21	5	M12
DAT40	63.55	44.45	72.30	56.25	50	17	16.1	4	68.4	42.5	32	25	22.8	18.5	27	5	M16
DAT50	97.50	69.85	107.25	91.25	80	25	25.7	6	101.75	61.5	47	37.7	35.5	30	42	7	M24

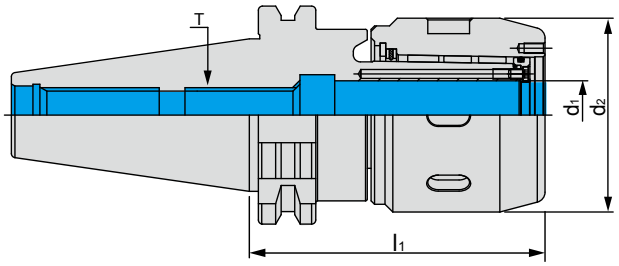
1. 錐度精度 : <AT3
2. 硬度 : >HRC 56°
3. 滲碳深度 : >0.8mm
4. 真圓度 : < 0.8μm
5. 表面粗糙度 : Ra< 0.25μm

1.Taper tolerance < AT3.
2.Hardness > HRC 56°
3.Carbon depth > 0.8mm.
4.Roundness < 0.8μm.
5.Surface roughness : Ra < 0.25μm

• 長度單位 Unit of Length (mm)

DAT/MLD 直式筒夾銑床夾頭
DAT/MLD MULTI-LOCK COLLET CHUCK

DIN 69871



特點 Feature

- 內孔特殊溝槽設計，防止所夾持刀具脫刀滑落，可以割斷附著油膜，不會有脫刀現象產生，提高了使用的安全性
- 刀桿本體厚，可產生充分的夾持力。採用滾針軸承原理設計，滾動磨擦及脫落減到最小，裝置操作省力便捷
- 螺帽與刀桿端面鎖固後，緊貼牢靠，提高剛性並徹底的防塵
- 偏擺精度 :0.001~0.005 以內，真圓度 :0.02mm
- MLD20、MLD-3/4、MLK20 扳手共用
- MLD25、EOC25、MLK25 扳手共用
- MLD32、MLD-1-1/4、MLK32 扳手共用

- There is a special design for the slots of internal hole. It prevents the cutting tools from slipping and increases the clamping power.
- The body of the tool holder is thick, so it has good clamping power. It adopts the needle bearing design to prevent the slipping. The operation is convenient and easy.
- After locking the cutting tool (The tolerance of the cutting tool must be less than h6), it is more contacted with the flange while locking the clamping nut and tool holder. It can prevent the bearing cage from deformation easily. Also, rigidity and dust-proof function is improved.
- Run-out: Within 0.001~0.005mm. Concentricity: 0.02mm.
- MLD20 and MLD-3/4 MLK20 spanner can be used in common.
- MLD25 and EOC25 MLK25 spanner can be used in common.
- MLD32 and MLD-1-1/4 MLK32 spanner can be used in common.

使用 MLD 止水環可使冷卻液從刀具排出，利於散熱及有效排屑

When using MLD sealed cap, the coolantfluid discharges from the cutting tool.It's good for heat dissipation and metal chips removal.

規格 Spec.	l_1	d_1	d_2	T	重量 (KGS) Weight
DAT30-MLD20-85	85	20	56.5	M12-1.75P	1.90
DAT30-MLD20-100	100	20	56.5	M12-1.75P	2.10
DAT40-MLD20-85	85	20	56.5	M16-2.0P	2.40
DAT40-MLD20-135	135	20	56.5	M16-2.0P	2.50
DAT40-MLD32-105	105	32	71	M16-2.0P	2.70
DAT40-MLD32-135	135	32	71	M16-2.0P	3.00
DAT50-MLD20-105	105	20	56.5	M24-3.0P	4.50
DAT50-MLD20-150	150	20	56.5	M16-2.0P	4.90
DAT50-MLD32-105	105	32	71	M24-3.0P	5.10
DAT50-MLD32-135	135	32	71	M16-2.0P	5.90

選配表 Option

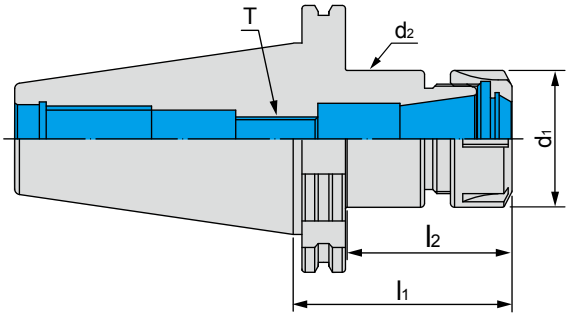
拉頭 Pull Stud	筒夾 Collet	扳手 Spanner	止水端蓋 Sealed Cap
B648	B631	B651	B640

• 長度單位 Unit of Length (mm)

DAT/ER 立銑刀夾頭
DAT/ER COLLET CHUCK

DIN ISO-15488

DIN 69871



DAT

特點 Feature

- 筒夾樣式有彈性、止水、剛性攻牙、伸縮攻牙、極小內孔、燒結式熱膨脹可供選擇
- 彈性筒夾偏擺精度有標準級 (0.02mm 以內)，A 級 (0.01mm 以內)，UP(0.005mm 以內)
- 螺帽預設動平衡設計，可在 RPM10,000 下使用
- 整支通孔，利於出水及抗震
- 如需擋刀螺絲可另外指定
- 裝置時筒夾必須先置入螺帽，再裝入刀具，接著鎖固入本體
- 刀具置入筒夾內孔，必須超出筒夾內孔有效夾持長度，避免不當鎖固，造成損壞
- 務必使用正確扳手來裝置不可任意改變，避免不當鎖固，造成損壞

-There are various features for collet, like flexibility, water sealed, rigid tapping, extend tapping, minimized inner hole, shrink-fitting for your selection.
- The ER collet has three kinds of classes for precision : general class 0.02mm, A class 0.01mm, and UP class 0.05mm.
-The pre-balance can reach 10000rpm.
-The tool holder with through coolant design is better for water to get through vibration resistance
-Additional selection if stop screw is needed.
-When using, please put the nut into the collet and then put them into the body together.
-It must exceed the effective clamping length of collet when inserting the cutter into collet to avoid the improper lock & damage.
-Please use the right wrench on installation to avoid the improper lock & damage.

規格 Spec.	l_1	l_2	d_1	d_2	T	使用筒夾 Collet	夾持範圍 Clamp Range	重量 (KGS) Weight
DAT40-ER11A-80	80	50	19	19	M6-1.0P	ER11	1~7	1.05
DAT40-ER11A-125	125	95	19	19	M6-1.0P	ER11	1~7	1.15
DAT40-ER16A-70	70	40	28	28	M10-1.5P	ER16	1~10	1.30
DAT40-ER16A-100	100	70	28	28	M10-1.5P	ER16	1~10	1.40
DAT40-ER16A-125	125	95	28	28	M10-1.5P	ER16	1~10	1.60
DAT40-ER16A-150	150	120	28	28	M10-1.5P	ER16	1~10	1.65
DAT40-ER16A-180	180	150	28	28	M10-1.5P	ER16	1~10	1.85
DAT40-ER20A-70	70	47	34	34	M12-1.75P	ER20	1~13	1.40
DAT40-ER20A-100	100	70	34	34	M12-1.75P	ER20	1~13	1.50
DAT40-ER20A-135	135	105	34	34	M12-1.75P	ER20	1~13	1.95
DAT40-ER20A-160	160	130	34	34	M12-1.75P	ER20	1~13	2.20
DAT40-ER25-70	70	50	42	42	M16-2.0P	ER25	1~16	1.60
DAT40-ER25-100	100	80	42	42	M16-2.0P	ER25	1~16	1.85
DAT40-ER25-150	150	130	42	42	M16-2.0P	ER25	1~16	2.25
DAT40-ER25-180	180	160	42	42	M16-2.0P	ER25	1~16	2.45
DAT40-ER25-200	200	180	42	42	M16-2.0P	ER25	1~16	2.55
DAT40-ER32-70	70	50	50	49.7	M16-2.0P	ER32	2~20	1.22
DAT40-ER32-100	100	80	50	49.5	M16-2.0P	ER32	2~20	1.64
DAT40-ER32-135	135	115	50	49.7	M16-2.0P	ER32	2~20	2.15
DAT40-ER32-150	150	130	50	49.7	M16-2.0P	ER32	2~20	2.65
DAT40-ER40-70	70	50	63	50	M20-2.0P	ER40	3~26	1.50
DAT40-ER40-100	100	80	63	50	M20-2.0P	ER40	3~26	2.00
DAT40-ER40-135	135	115	63	50	M20-2.0P	ER40	3~26	3.30
DAT40-ER50-100	100	80	78	64	M24-2.0P	ER50	5~34	1.70

選配表 Option

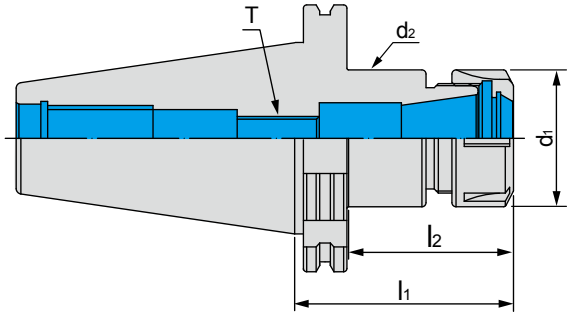
拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B648	B612	B637	B650

• 長度單位 Unit of Length (mm)

DAT/ER 立銑刀夾頭
DAT/ER COLLET CHUCK

DIN ISO-15488

DIN 69871



特點 Feature

- 筒夾樣式有彈性、止水、剛性攻牙、伸縮攻牙、極小內孔、燒結式熱膨脹可供選擇
- 彈性筒夾偏擺精度有標準級 (0.02mm 以內)，A 級 (0.01mm 以內)，UP(0.005mm 以內)
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- 整支通孔，利於出水及抗震
- 如需擋刀螺絲可另外指定
- 裝置時筒夾必須先置入螺帽，再裝入刀具，接著鎖固入本體
- 刀具置入筒夾內孔，必須超出筒夾內孔有效夾持長度，避免不當鎖固，造成損壞
- 務必使用正確扳手來裝置不可任意改變，避免不當鎖固，造成損壞

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-Additional selection if stop screw is needed.
-When using, please put the nut into collet and then put them into the body together.
-It must exceed the effective clamping length of collet when inserting the cutter into collet to avoid the improper lock & damage.
-Please use the right wrench on installation to avoid the improper lock & damage.

規格 Spec.	l_1	l_2	d_1	d_2	T	使用筒夾 Collet	夾持範圍 Clamp Range	重量 (KGS) Weight
DAT50-ER16A-100	100	70	28	28	M10-1.5P	ER16	1~10	3.20
DAT50-ER16A-135	135	105	28	28	M10-1.5P	ER16	1~10	4.30
DAT50-ER16A-160	160	130	28	28	M10-1.5P	ER16	1~10	4.50
DAT50-ER16A-180	180	150	28	28	M10-1.5P	ER16	1~10	4.80
DAT50-ER20A-100	100	70	34	34	M12-1.75P	ER20	1~13	3.40
DAT50-ER20A-135	135	105	34	34	M12-1.75P	ER20	1~13	3.60
DAT50-ER20A-160	160	130	34	34	M12-1.75P	ER20	1~13	3.80
DAT50-ER25-70	70	40	42	42	M16-2.0P	ER25	1~16	3.40
DAT50-ER25-100	100	70	42	42	M16-2.0P	ER25	1~16	4.15
DAT50-ER25-150	150	120	42	42	M16-2.0P	ER25	1~16	4.50
DAT50-ER25-200	200	170	42	42	M16-2.0P	ER25	1~16	4.70
DAT50-ER32-80	80	50	50	50	M20-2.0P	ER32	2~20	3.60
DAT50-ER32-120	120	90	50	50	M20-2.0P	ER32	2~20	3.93
DAT50-ER32-160	160	130	50	50	M20-2.0P	ER32	2~20	4.75
DAT50-ER32-200	200	170	50	50	M20-2.0P	ER32	2~20	4.90
DAT50-ER40-80	80	50	63	60	M20-2.0P	ER40	3~26	3.65
DAT50-ER40-120	120	90	63	60	M20-2.0P	ER40	3~26	4.80
DAT50-ER40-160	160	130	63	60	M20-2.0P	ER40	3~26	5.20
DAT50-ER40-200	200	170	63	60	M20-2.0P	ER40	3~26	5.40
DAT50-ER50-80	80	57	78	-	M24-2.0P	ER50	5~34	4.85
DAT50-ER50-120	120	99	78	78	M24-2.0P	ER50	5~34	5.45
DAT50-ER50-160	160	139	78	78	M24-2.0P	ER50	5~34	5.55
DAT50-ER50-200	200	179	78	78	M24-2.0P	ER50	5~34	5.70

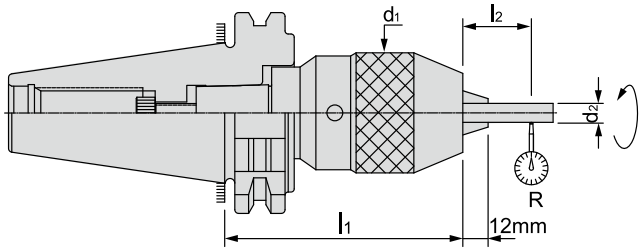
選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B648	B612	B634	B650

• 長度單位 Unit of Length (mm)

DAT/SPU 直結式鑽夾頭
DAT/SPU DRILL CHUCK ADAPTER

DIN 69871



特點 Feature

- 直結式設計，提高使用後工件的效果
- SPU 偏精度為 0.04mm，如需更高精度要求，請使用 ER 或 SKS 系列

- The series type design, enhances the use effect.
- The SPU leaning precision is 0.04mm. To request higher degree of accuracy, please use ER or SKS series

規格 Spec.	l_1	l_2	d_1	d_2	夾持範圍 Clamp Range		R	重量 (KGS) Weight
					mm	inch		
DAT40-SPU8-75	75	55	37	6	1~8	1/24~5/16	0.04	1.35
DAT40-SPU13-100	100	75	50	13	1~13	1/24~1/2	0.04	1.94
DAT40-SPU16-115	115	80	57	16	3~16	1/8~5/8	0.04	2.33
DAT50-SPU8-75	75	55	37	6	1~8	1/24~5/16	0.04	3.43
DAT50-SPU13-100	100	75	50	13	1~13	1/24~1/2	0.04	4.40
DAT50-SPU16-105	105	80	57	16	3~16	1/8~5/8	0.04	4.73

- 附扳手 Attaches the spanner.

選配表 Option

拉頭 Pull Stud

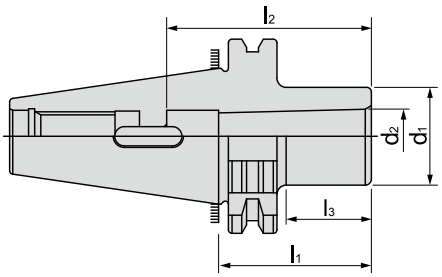
B648

• 長度單位 Unit of Length (mm)

DAT 斜柄鑽頭套筒
DAT MORSE TAPER ADAPTER

DIN 228-2
DIN 6383

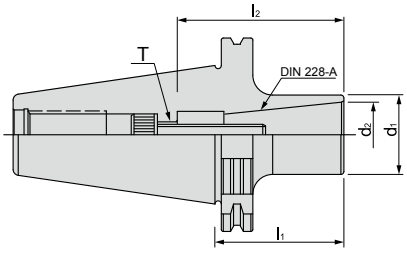
DIN 69871



規格 Spec.	l_1	l_2	l_3	d_1	d_2	重量 (KGS) Weight
DAT40-MTA1-50	50	56	22	25	12.065	1.20
DAT40-MTA2-50	50	67	27	32	17.78	1.00
DAT40-MTA3-70	70	84	47	40	23.825	1.10
DAT40-MTA4-95	95	107	74	48	31.267	1.35
DAT50-MTA1-45	45	56	22	25	12.065	3.00
DAT50-MTA2-60	60	67	35	32	17.78	3.10
DAT50-MTA2-135	135	67	-	32	17.78	4.70
DAT50-MTA3-65	65	84	40	40	23.825	3.20
DAT50-MTA3-150	150	84	-	40	23.825	5.00
DAT50-MTA4-95	95	107	70	48	31.267	3.40
DAT50-MTA5-105	105	133	80	63	44.399	3.60

DAT 斜柄鑽頭套筒
DAT MORSE TAPER ADAPTER

DIN 228-2
DIN 6383



特點 Feature

- 高精密的運作過程，即使長時間鑽孔，同心圓仍然在 0.015mm 之內

-High accurate working process.Even though usingprolonged drill, the concentricity is still within 0.015mm.

規格 Spec.	l_1	l_2	d_1	d_2	T	重量 (KGS) Weight
DAT40-MTB2-45	45	67	32	17.78	M10-1.5P	0.96
DAT40-MTB3-75	75	84	40	23.825	M12-1.75P	1.30
DAT40-MTB4-100	100	107	48	31.267	M16-2.0P	1.50
DAT50-MTB2-45	45	67	32	17.78	M10-1.5P	3.90
DAT50-MTB3-65	65	84	40	23.825	M12-1.75P	4.02
DAT50-MTB4-75	75	107	48	31.267	M16-2.0P	4.20
DAT50-MTB4-95	95	107	48	31.267	M16-2.0P	4.40
DAT50-MTB5-105	105	135	63	44.399	M24-3.0P	4.25

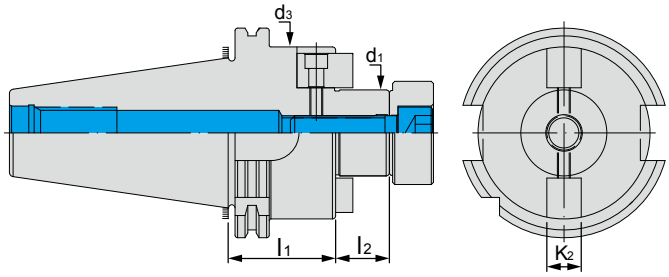
選配表 Option

拉頭 Pull Stud	退鑽器 Hand Drift
B648	B683

• 長度單位 Unit of Length (mm)

DAT/FMA 平面銑刀柄
DAT/FMA FACE MILL ARBOR(TYPE FMA)

DIN 69871



特點 Feature

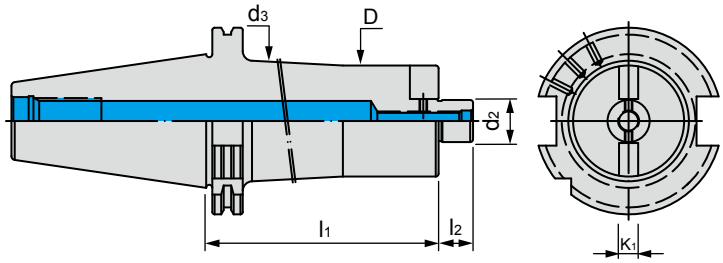
- 平面銑刀配合部位 (d1)，軸系公差 h6
- 預設動平衡達 G6.3 8000rpm，不含檢測報告
- 若需更好的動平衡，須另外加價

- d1 tolerance is h6.
- Dynamic pre-balancing G6.3 at 8000rpm, without an inspection report.
- The balancing grade and revolution can be done according to customer request but the additional charge is needed.

規格 Spec.	l_1	l_2	d_1	d_3	k_2	重量 (KGS) Weight
DAT50-FMA31.75-50	50	22	31.75	60	12.7	4.80
DAT50-FMA38.1-100	100	25	38.1	80	15.875	6.70

DAT/FMB 平面銑刀柄（加長斜度柄）
DAT/FMB FACE MILL ARBOR(EXTENSION TYPE)

DIN 6537-B



特點 Feature

- 平面銑刀配合部位 (d1)，軸系公差 h6
- 預設動平衡達 G6.3 8000rpm，不含檢測報告
- 若需更好的動平衡，須另外加價

- d1 tolerance is h6.
- Dynamic pre-balancing G6.3 at 8000rpm, without an inspection report.
-The balancing grade and revolution can be done according to customer request but the additional charge is needed.

規格 Spec.	l_1	l_2	D	d_1	d_2	d_3	k_1	重量 (KGS) Weight
DAT50-FMB22-100BG	100	19	58	22	23	62.5	10	2.50
DAT50-FMB22-150BG	150	19	58	22	23	62.5	10	2.90
DAT50-FMB22-200BG	200	19	58	22	23	62.5	10	6.74
DAT50-FMB22-250BG	250	19	58	22	23	62.5	10	7.30
DAT50-FMB22-300BG	300	19	58	22	23	62.5	10	5.40

選配表 Option

拉頭 Pull Stud
B648

• 長度單位 Unit of Length (mm)

DAT/FMB 平面銑刀柄
DAT/FMB FACE MILL ARBOR(TYPE FMB)

DIN 6357-B　DIN 69871

Fig.1

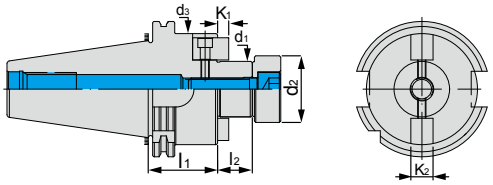


Fig.2

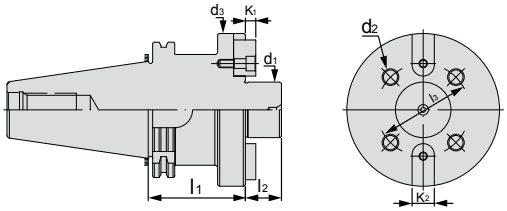
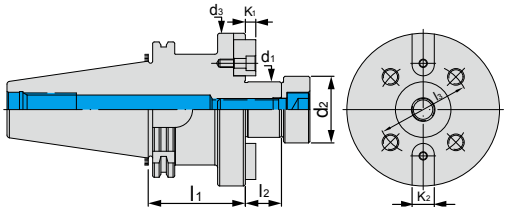


Fig.3



特點 Feature

- 平面銑刀配合部位 (d1)，軸系公差 h6
- 預設動平衡達 G6.3 8000rpm，不含檢測報告
- 若需更好的動平衡，須另外加價

- d1 tolerance is h6.
- The Dynamic pre-balance can reach G6.3 8,000 rpm, without an inspection report.
-The balancing grade and revolution can be done according to customer request but the additional charge is needed.

規格 Spec.	l_1	l_2	d_1	d_2	d_3	k_1	k_2	Fig.	重量 (KGS) Weight
DAT40-FMB22-35	35	19	22	26	48	4.8	10	1	1.20
DAT40-FMB22-60	60	19	22	26	48	4.8	10	1	1.50
DAT40-FMB22-100	100	19	22	26	48	4.8	10	1	2.12
DAT40-FMB22-150	150	19	22	26	48	4.8	10	1	1.80
DAT40-FMB27-60	60	20	27	31.5	58	5.8	12	1	1.80
DAT40-FMB32-60	60	22	32	41	66	6.8	14	1	2.30
DAT40-FMB40-60	60	25	40	48	80	8.3	16	1	2.80
DAT50-FMB22-35	35	19	22	26	48	4.8	10	1	3.40
DAT50-FMB22-75	75	19	22	26	48	4.8	10	1	3.72
DAT50-FMB22-90	90	19	22	26	48	4.8	10	1	3.86
DAT50-FMB22-150	150	19	22	26	48	4.8	10	1	4.90
DAT50-FMB22-200	200	19	22	26	48	4.8	10	1	5.30
DAT50-FMB27-35	35	20	27	31.5	60	5.8	12	1	3.50
DAT50-FMB32-35	35	22	32	41	66	6.8	14	1	3.70
DAT50-FMB40-50	50	25	40	48	80	8.3	16	1	4.63
DAT50-FMB50-60	60	30	50	68	95	9.7	19	1	5.80
DAT40-FMB40F-60	60	30	40	M12	89	8.3	16	2	2.90
DAT50-FMB40F-70	70	30	40	M12	89	8.3	16	2	5.50
DAT50-FMB60F-70	70	40	60	M16	129	12.5	25.4	2	5.70
DAT40-FS40-60	60	26	40	50	110	8.3	16	3	3.20
DAT50-FS40-70	70	26	40	50	110	8.3	16	3	5.70
DAT50-FS60-70	70	25	60	M16	140	12.5	25.4	3	5.50

選配表 Option

拉頭 Pull Stud

B648

• 長度單位 Unit of Length (mm)

DAT/SLN 側固式立銑刀柄
DAT/SLN SIDE LOCK END MILL HOLDER

DIN-1835 DIN 69871

Fig.1

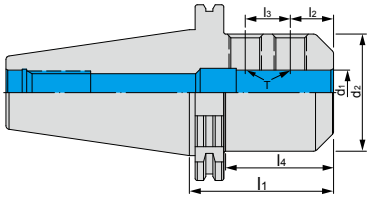
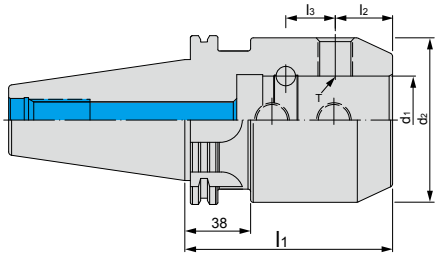


Fig.2



特點 Feature

- 孔徑公差 H5
- 預設動平衡達 G6.3 8000rpm，不含檢測報告
- 若需更好的動平衡，須另外加價

- Internal hole tolerance is H5.
- Dynamic pre=balancing G6.3 at 8000rpm, without an inspection report.
- The balancing grade and revolution can be done according to customer request but the additional charge is needed.

規格 Spec.	l_1	l_2	l_3	l_4	d_1	d_2	T	Fig.	重量 (KGS) Weight
DAT40-SLN6-50	50	18	-	27	6	25	M6-1.0P	1	0.97
DAT40-SLN8-50	50	18	-	27	8	28	M8-1.25P	1	1.00
DAT40-SLN10-50	50	20	-	27	10	35	M10-1.5P	1	1.04
DAT40-SLN12-50	50	22.5	-	30	12	42	M12-1.75P	1	1.15
DAT40-SLN16-63	63	24	-	43	16	48	M14-2.0P	1	1.40
DAT40-SLN20-63	63	25	-	43	20	52	M16-2.0P	1	1.30
DAT40-SLN25-100	100	24	25	80	25	65	M18-2.0P	1	2.40
DAT40-SLN32-100	100	24	28	80	32	72	M20-2.0P	1	2.70
DAT50-SLN6-63	63	18	-	33	6	25	M6-1.0P	1	3.10
DAT50-SLN8-63	63	18	-	33	8	28	M8-1.25P	1	3.10
DAT50-SLN10-63	63	20	-	33	10	35	M10-1.5P	1	3.30
DAT50-SLN12-63	63	22.5	-	40	12	42	M12-1.75P	1	3.35
DAT50-SLN16-63	63	24	-	40	16	48	M14-2.0P	1	3.45
DAT50-SLN20-63	63	25	-	40	20	52	M16-2.0P	1	3.47
DAT50-SLN25-80	80	24	25	59	25	65	M18-2.0P	1	4.20
DAT50-SLN32-100	100	24	28	78	32	72	M20-2.0P	1	4.88
DAT50-SLN40-100	100	30	32	80	40	90	M20-2.0P	1	5.60
DAT50-SLN42-100	100	30	32	80	42	90	M20-2.0P	1	5.70
DAT50-SLN50-125	125	35	35	105	50	100	M24-2.0P	1	5.90
DAT50-SLN63-150	150	40	40	130	63	125	M20-2.0P	1	6.20
DAT50-SLN63-150	150	40	24	130	63	125	M16-2.0P	2	6.20

選配表 Option

拉頭 Pull Stud

B648

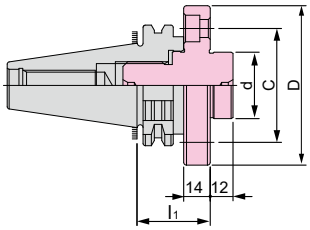
• 長度單位 Unit of Length (mm)

DAT/NBH DAT/BST 搪孔刀柄
DAT BORING HEAD SHANK

DIN 69871

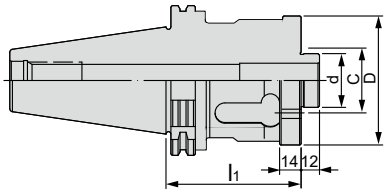
NBH

Fig.1



NBH/BST

Fig.2



特點 Feature

- 孔徑公差 H5
- 預設動平衡達 G6.3 8000rpm，不含檢測報告
- 若需更好的動平衡，須另外加價

- Internal hole tolerance is H5.
-Dynamic pre-balancing G6.3 at 8000rpm, without an inspection report.
- The balancing grade and revolution can be done according to customer request but the additional charge is needed.

規格 Spec.	l_1	D	d	C	Fig.	重量 (KGS) Weight
DAT40-NBH2084A	35	84	35	PCD.Ø60 4-M8-1.25P	1	1.70
DAT50-NBH2084A	35	84	35		1	3.50
FR60-NBH2084	14	84	35	PCD.Ø60	-	-
DAT40-NBH2084B-100	100	84	35	PCD.Ø60 4-M8-1.25P	2	2.00
DAT50-NBH2084B-100	100	84	35		2	4.00
DAT50-NBH2084B-200	200	84	35		2	11.00
DAT50-BST-100	100	95	50	PCD.Ø72 4-Ø13	2	5.60
DAT50-BST-150	150	95	50		2	4.00
DAT50-BST-200	200	95	50		2	8.75
DAT50-BST-250	250	95	50		2	9.76
DAT50-BST-350	350	95	50		2	12.8
DAT50-BST-400	400	95	50		2	14.0

選配表 Option

拉頭 Pull Stud	搪頭 Boring Head		
B648	B728	B731	B753

• 長度單位 Unit of Length (mm)

主軸檢測棒
SPINDLE MASTER BAR

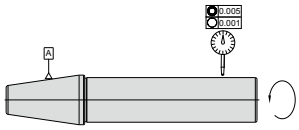
DIN 69871

標準型 Standard

特點 Feature

- 皆通過真圓度測試機，精確檢驗通過
- 附精度檢驗表

- Have passed the roundness testing machine, exact test passed.
- With precision test table.



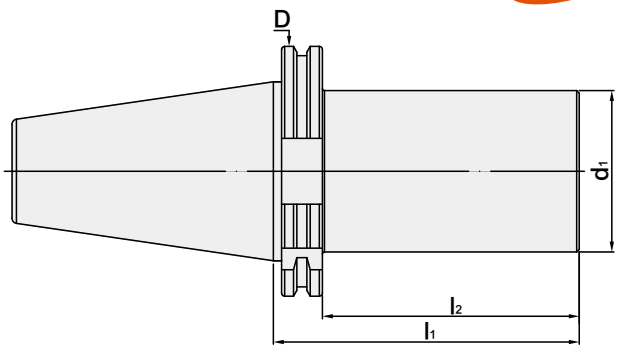
???? Taper Precision	AT2
??? Roundness	0.001mm
????? Surface Roughness	Ra<0.4
??? Concentricity	0.005mm

規格 Spec.	l_1	d_1	同心度 Concentricity	真圓度 Roundness	重量 (KGS) Weight
DAT40-TS302L	302	40	0.005	0.001	3.00

※ DAT30 與 BT30 共用；DAT50 與 BT50 共用　DAT30 and BT30 can be used in common. DAT50 and BT50 can be used in common.

DAT 素材
DAT BLANK

NEW



規格 Spec.	l_1	l_2	D	d_2	重量 (KGS) Weight
DAT50-?2.75"-4.734"	4.734	3.982	3.84	2.75	5.56
DAT50-?4.5"-3.324"	3.324	2.572	3.84	4.5	7.09

選配表 Option

拉頭 Pull Stud

B648

• 長度單位 Unit of Length (mm)

CAT 精密刀桿系列
CAT PRECISION TOOL HOLDER SERIES

ANSI B5.50

CAT/EOC

CAT/ER

M 型 CAT/ER

CAT/SPU

CAT/SPH

CAT/JTA

CAT/MTA

CAT/FMA

CAT/SLN

CAT/TG

CAT/ETP

CAT/MLD

CAT/SBL

CAT/SKS

CAT/OSL

CAT/OHER

CAT/SOM

CAT 套筒

※ 詳細規格歡迎來電洽詢

Please feel free to contact us for more detailed spec.

• 長度單位 Unit of Length (mm)

NT/MLC 直式筒夾銑床夾具組
STRAIGHT COLLET MULTI-LOCK COLLET CHUCK SET

- NT30-MLC20-5 PCS
- NT40-MLC32-7 PCS
- NT50-MLC32-7 PCS
- NT50-MLC42-8 PCS

EOC/OZ 銑床夾頭組
MILLING CHUCK SET

- NT30-EOC25-7M-SYOZ
- NT40-EOC25-7M-SYOZ
- NT50- EOC25-7M-SYOZ

EOC 立銑刀夾頭
COLLET CHUCK

- NT30-EOC25
- NT40-EOC25
- NT40-EOC32
- NT50-EOC25
- NT50-EOC32

ER 銑床夾頭組
MILLING CHUCK SET

- NT30-ER32-SET
- NT30-ER40-SET
- NT40-ER32-SET
- NT40-ER40-SET
- NT50-ER40-SET
- NT50-ER50-SET

NT/ER 銑床夾頭柄
COLLET HOLDER

- NT30-ER16A
- NT30-ER20A
- NT30-ER25
- NT30-ER32
- NT30-ER40
- NT40-ER16A
- NT40-ER20A
- NT40-ER25
- NT40-ER32
- NT40-ER40
- NT40-ER50
- NT50-ER16A
- NT50-ER20A
- NT50-ER25
- NT50-ER32
- NT50-ER40
- NT50-ER50

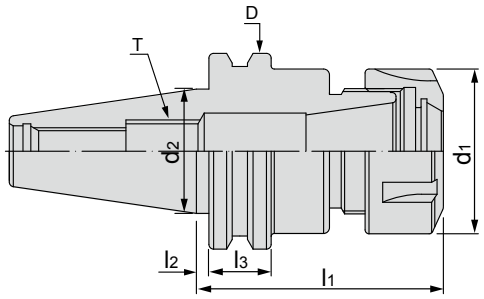
直結式鑽夾頭
DRILL CHUCK TYPE

- NT30-SPU13-100
- NT40-SPU13-90
- NT50-SPU13-120

• 長度單位 Unit of Length (mm)

CAT&NT

ISO/ER 立銑刀夾頭
ISO/ER COLLET CHUCK(FOR W/OUT SLOTS)



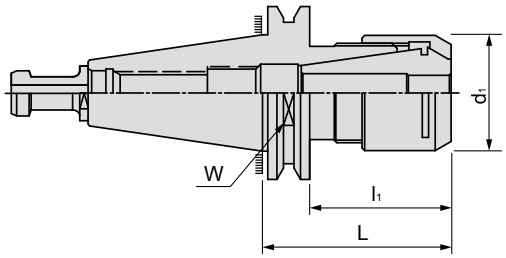
特點 Feature

- 無鍵槽適用於高轉速下使用
- 動平衡校正 G2.5 36000rpm

- Is suitable without the key slot under the high speed uses.
- Dynamic balancing G2.5 at 36000rpm.

規格 (無鍵槽) Spec.	l_1	l_2	l_3	D	d_1	d_2	夾持範圍 Clamp Range	T	重量 (KGS) Weight
ISO20-ER11A-52	52	2	8	33	19	21.642	1~7	M6-1.0P	0.55
ISO20-ER16AD-52	52	2	15.9	30	32	22.255	1~10	M10-1.5P	0.22
ISO20-ER20AD-52	52	2	15.9	30	35	22.255	1~13	M12-1.75P	0.25
ISO25-ER11A-52	52	2.95	8	37	19	25.114	1~7	M6-1.0P	0.60
ISO25-ER16A-52	52	2.95	8	37	28	24.91	1~10	M10-1.5P	0.65
ISO25-ER20A-52	52	2.95	8	37	34	25.114	1~13	M12-1.75P	0.70
ISO30-ER11A-80	80	3.2	15.9	50	19	31.75	1~7	M6-1.0P	0.70
ISO30-ER16A-63	63	3.2	15.9	50	28	31.75	1~10	M10-1.5P	0.57
ISO30-ER20A-63	63	3.2	15.9	50	34	31.75	1~13	M12-1.75P	0.62
ISO30-ER25-63	63	3.2	15.9	50	42	31.75	1~16	M16-2.0P	0.67
ISO30-ER32-63	63	3.2	15.9	50	50	31.75	2~20	M16-2.0P	0.68
ISO30-ER40-57	57	3.2	15.9	50	63	31.75	3~26	M16-2.0P	1.00

ISO/ER 高速刀把
ISO/ER HIGH SPEED COLLET CHUCK



特點 Feature

- 標準動平衡 G2.5 40000rpm

-Dynamic balancing G2.5 at 40000rpm.

規格 Spec.	L	l_1	d_1	W	扳手 Spanner	螺帽 Nut	重量 (KGS) Weight
ISO20-ER16M-35HG	35	27.2	22	ISO20-W	ER16-MHG-W	ER16-MHG	0.14
ISO25-ER16M-36HG	36	27.2	22	ISO25-W	ER16-MHG-W	ER16-MHG	0.18
ISO25-ER20M-36HG	36	27.2	28	ISO25-W	ER20-MHG-W	ER20-MHG	0.20
ISO30-ER16M-60HG	60	40.9	22	ISO30-W	ER16-MHG-W	ER16-MHG	0.58
ISO30-ER20M-60HG	60	40.9	28	ISO30-W	ER20-MHG-W	ER20-MHG	0.6
ISO30-ER25M-60HG	60	40.9	35	ISO30-W	ER25-MHG-W	ER25-MHG	0.58

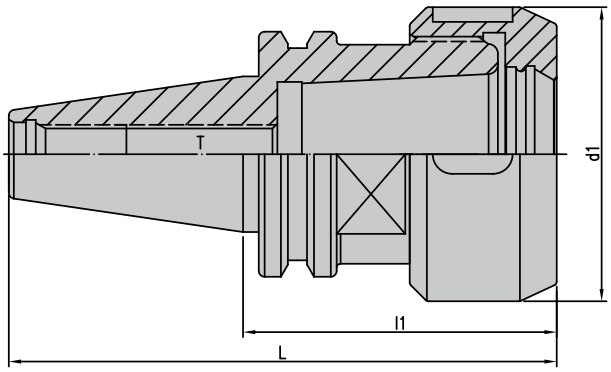
選配表 Option

拉頭 Pull Stud	螺帽 Nut	扳手 Spanner	ISO/MHG 專用鎖刀座 Locking Device	鎖刀座 Locking Device
B646/B649	B637	B652	B657	B657

• 長度單位 Unit of Length (mm)

SK-EOC 銑床夾頭無鍵槽
SK-EOC COLLET CHUCK(WITHOUT KEYWAY)

NEW



ISO

特點 Feature

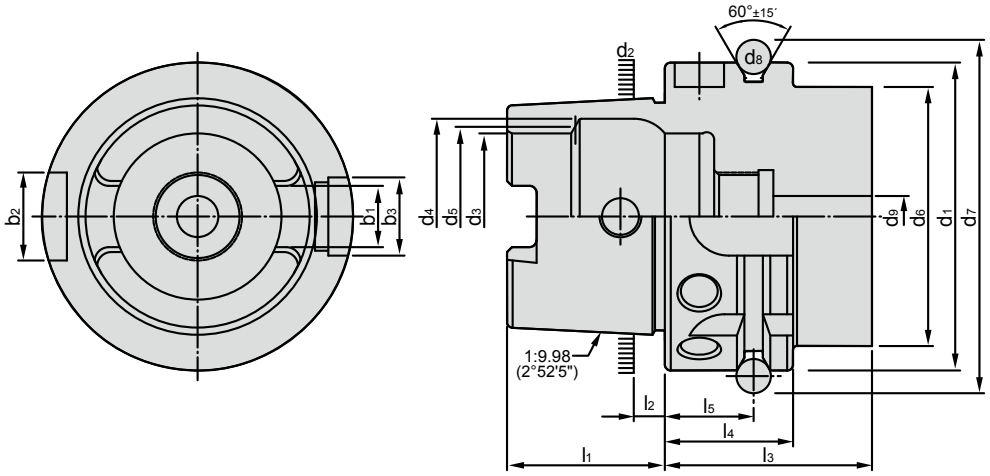
- 標準動平衡 G2.5 18000rpm

-Dynamic balancing G2.5 at 18000rpm.

規格 Spec.	L	l_1	d_1	T
SK30-EOC25-70	117.8	70	60	M12-1.75P

• 長度單位 Unit of Length (mm)

DIN 69893 A



HSK

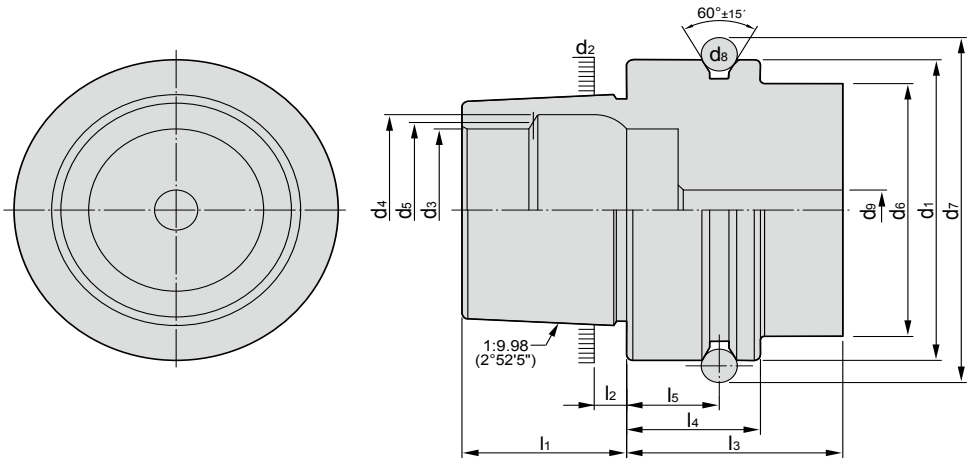
規格 Spec.	d_1 h10	d_2	d_3 H10	d_4 H11	d_5	d_6 Max.	d_7 0 -0.1	d_8	d_9 Max.	l_1 0 -0.2	l_2	l_3 Min.	l_4 0 -0.1	l_5 ±0.1	b_1 ±0.04	b_2 H10	b_3 H10
HSK25	25	19.006	14	16.4	15	20	28.5	3	3	13	2.5	20	10	4.5	6.05	6	7
HSK32	32	24.007	17	20.5	19	26	37	4	4.2	16	3.2	35	20	16	7.05	7	9
HSK40	40	30.007	21	25.5	23	34	45	4	5	20	4	35	20	16	8.05	9	11
HSK50	50	38.009	26	32	29	42	59.3	7	6.8	25	5	42	26	18	10.54	12	14
HSK63	63	48.010	34	40	37	53	72.3	7	8.4	32	6.3	42	26	18	12.54	16	18
HSK80	80	60.012	42	50	46	68	88.8	7	10.2	40	8	42	26	18	16.04	18	20
HSK100	100	75.013	53	63	58	88	109.75	7	12	50	10	45	29	20	20.02	20	22
HSK125	125	95.016	67	80	73	111	134.75	7	14	63	12.5	45	29	20	25.02	25	28

1. 錐度精度 : <AT3
2. 硬度 : > HRC 56°
3. 滲碳深度 : >0.8mm
4. 真圓度 : < 0.6μm
5. 表面粗糙度 : Ra< 0.25μm
6. 刀桿有預設標準動平衡 G6.3，可另外指定精密動平衡 G2.5
7. 本體規範 : DIN 69893-1

1.Taper tolerance < AT3.
2.Hardness > HRC 56°
3. Carbon depth > 0.8mm.
4.Roundness < 0.6μm.
5.Surface roughness : Ra < 0.25μm.
6.The shank has pre-balance at G6.3,and can provide precision balance at G2.5, made by request.
7.Shank body standard : DIN69893-1

• 長度單位 Unit of Length (mm)

DIN 69893 E



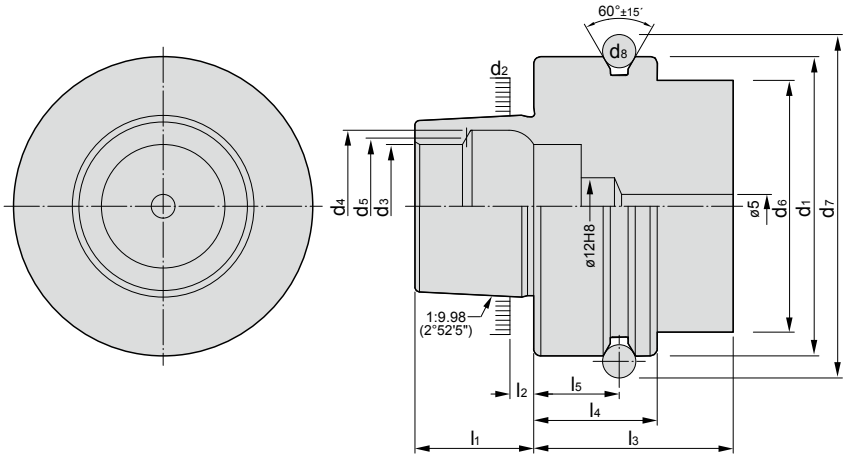
規格 Spec.	d_1 h10	d_2	d_3 H10	d_4 H11	d_5	d_6 Max.	d_7 0 -0.1	d_8	d_9 Max.	l_1 0 -0.2	l_2	l_3 Min.	l_4 0 -0.1	l_5 ±0.1
HSK25	25	19.006	14	16.4	15	20	28.5	3	3	13	2.5	20	10	4.5
HSK32	32	24.007	17	20.5	19	26	37	4	4.2	16	3.2	35	20	16
HSK40	40	30.007	21	25.5	23	34	45	4	5	20	4	35	20	16
HSK50	50	38.009	26	32	29	42	59.3	7	6.8	25	5	42	26	18
HSK63	63	48.010	34	40	37	53	72.3	7	8.4	32	6.3	42	26	18
HSK80	80	60.012	42	50	46	68	88.8	7	10.2	40	8	42	26	18
HSK100	100	75.013	53	63	58	88	109.75	7	12	50	10	45	29	20
HSK125	125	95.016	67	80	73	111	134.75	7	14	63	12.5	45	29	20

1. 錐度精度 : <AT3
2. 硬度 : > HRC 56°
3. 滲碳深度 : >0.8mm
4. 真圓度 : < 0.6μm
5. 表面粗糙度 : Ra< 0.25μm
6. 刀桿有預設標準動平衡 G6.3，可另外指定精密動平衡 G2.5
7. 本體規範 : DIN 69893-E

1.Taper tolerance < AT3.
2.Hardness > HRC 56°
3. Carbon depth > 0.8mm.
4.Roundness < 0.6μm.
5.Surface roughness : Ra < 0.25μm.
6.The shank has pre-balance at G6.3,and can provide precision balance at G2.5,made by request.
7.Shank body standard : DIN69893-E

• 長度單位 Unit of Length (mm)

DIN 69893 F



規格 Spec.	d_1 h10	d_2	d_3 H10	d_4 H11	d_5	d_6 Max.	d_7 0 -0.1	d_8	l_1 0 -0.2	l_2	l_3 Min.	l_4 0 -0.1	l_5 ±0.1
HSK50	50	30.007	21	25.5	23	42	59.3	7	20	4	42	26	18
HSK63	63	38.009	26	32	29	53	72.3	7	25	5	42	26	18

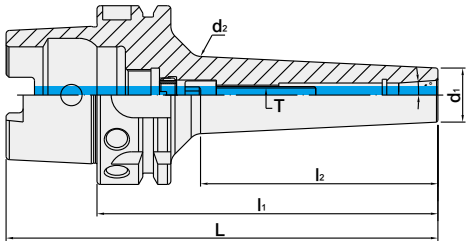
1. 錐度精度 : <AT3
2. 硬度 : > HRC 56°
3. 滲碳深度 : >0.8mm
4. 真圓度 : < 0.6μm
5. 表面粗糙度 : Ra< 0.25μm
6. 刀桿有預設標準動平衡 G6.3，可另外指定精密動平衡 G2.5
7. 本體規範 : DIN 69893-F

1.Taper tolerance < AT3.
2.Hardness > HRC 56°
3. Carbon depth > 0.8mm.
4.Roundness < 0.6μm.
5.Surface roughness : Ra < 0.25μm.
6.The shank has pre-balance at G6.3,and can provide precision balance at G2.5,made by request.
7.Shank body standard : DIN69893-F

• 長度單位 Unit of Length (mm)

HSK/EBL 後拉式刀桿
HSK/EBL SLIM-FIT COLLET CHUCK

DIN 69893-A



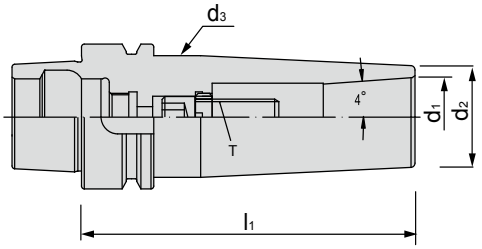
NEW

規格 Spec.	L	l_1	l_2	d_1	d_2	T	Torque		夾持範圍 clamp Range	重量 (KGS) Weight
							N.m	lbf-ft		
HSK63A-EBL6-125	157	125	88.8	19.05	27.7	M6-1.0P	12	9	3 ~ 6	1.06
HSK63A-EBL6-150	182	150	115	19.05	30.3	M6-1.0P	12	9	3 ~ 6	1.19
HSK63A-EBL8-125	157	125	90.4	22.225	31	M8-1.25P	29	21	3 ~ 8	1.12
HSK63A-EBL8-150	182	150	116.7	22.225	33.2	M8-1.25P	29	21	3 ~ 8	1.26
HSK100A-EBL6-125	175	125	85.6	19.05	27.4	M6-1.0P	12	9	3 ~ 6	2.34
HSK100A-EBL6-150	200	150	111.9	19.05	30	M6-1.0P	12	9	3 ~ 6	2.49
HSK100A-EBL8-125	175	125	87.3	22.225	30.7	M8-1.25P	29	21	3 ~ 8	2.41
HSK100A-EBL8-150	200	150	113.6	22.225	33.3	M8-1.25P	29	21	3 ~ 8	2.55

HSK

HSK/SBL 後拉式立銑刀夾頭
HSK/SBL SLIM-FIT COLLET CHUCK(FOR TYPE E)

DIN 69893/ISO 12164



特點 Feature

- 標準動平衡 G2.5 25000rpm

- The balancing garde reaches the revoluting of G2.5 25000rpm.

規格 Spec.	l_1	d_1	d_2	d_3	T	夾持範圍 Clamp Range	重量 (KGS) Weight
HSK50E-SBL6-80	80	9.93	14	19.188	M6-1.0P	2~6	1.40
HSK50E-SBL12-110	110	18	26	42	M10-1.5P	3~12	1.50
HSK50E-SBL20-110	110	27	35	42	M12-1.75P	3~20	1.80
HSK50E-SBL20-120	120	27	35	42	M12-1.75P	3~20	1.80

- 附扳手 Attaches the spanner.

選配表 Option

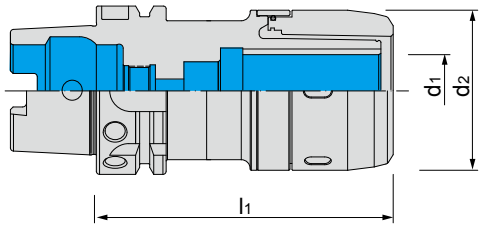
筒夾 Collet		扳手 Spanner	給水管 Coolant Supply Unti
B630	B630	B519	B519

• 長度單位 Unit of Length (mm)

HSK/MLK 強力銑削夾頭
HSK/MLK FORCE COLLET CHUCK

DIN 69893-A

防塵設計 Dust-proof design

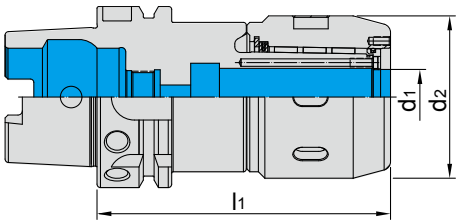


規格 Spec.	l_1	d_1	d_2	重量 (KGS) Weight
HSK63AxMLK12-90	90	12	42	-
HSK63AxMLK16-100	100	16	48	-
HSK63AxMLK20-120	120	20	56.5	-
HSK63AxMLK25-105	105	25	60	-
HSK63AxMLK32-120	120	32	72	2.53
HSK63AxMLK32-150	150	32	72	-
HSK100AxMLK12-115	115	12	42	-
HSK100AxMLK16-120	120	16	48	-
HSK100AxMLK20-120	120	20	56.5	-
HSK100AxMLK25-115	115	25	60	-
HSK100AxMLK32-120	120	32	72	4.36

HSK/MLD 直式筒夾銑床夾頭
HSK/MLD MULTI-LOCK COLLET CHUCK

DIN 69893 NO.M430337

DIN 69893-A



特點 Feature

- 偏擺精度 :0.001~0.005 以內， 真圓度 :0.02mm
- 預設動平衡至 G6.3 8000rpm，可依照客戶指定動平衡等級及轉速，並附檢驗報告，但需另外付費
- MLD20、MLD-3/4、MLK20 扳手共用
- MLD25、EOC25、MLK25 扳手共用
- MLD32、MLD-1-1/4、MLK32 扳手共用

-Run-out: Within 0.001~0.005mm. Concentricity: 0.02mm.
-Dynamic pre-balancing G6.3 at 8000rpm., with an inspection report. The balancing grade and revolution can be done according to customer request but the additional charge is needed.
- MLD20 and MLD-3/4 MLK20 spanner can be used in common.
- MLD25 and EOC25 MLK25 spanner can be used in common.
- MLD32 and MLD-1-1/4 MLK32 spanner can be used in common.

規格 Spec.	l_1	d_1	d_2	重量 (KGS) Weight
HSK50AxMLD20-120	120	20	56.5	1.62
HSK50AxMLD32-130	130	32	71	1.80
HSK63AxMLD20-120	120	20	56.5	2.07
HSK63AxMLD32-120	120	32	71	2.54
HSK100AxMLD20-120	120	20	56.5	3.40
HSK100AxMLD32-120	120	31	71	4.00

※ 注意 : 銑刀裝置入筒夾需超過筒夾有效挾持長度，以避免因非完全挾持，導致筒夾損壞、變形

Note: To avoid the improper clamping (no clamp at all) & damage and deformation for collet, it should exceed the effective length of collet when installing the cutter onto collet.

選配表 Option

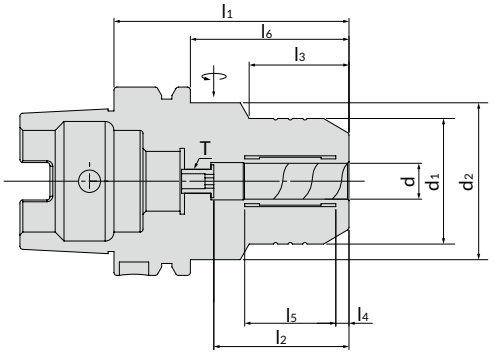
筒夾 Collet	扳手 Spanner	給水管 Coolant Supply Unti
B631	B651	B519

• 長度單位 Unit of Length (mm)

HSK/LHC 扭力型液壓刀桿
HSK/LHC TORQUE HYDRAULIC TOOLHOLDER

DIN 69893-A

同心度和重覆精度在 0.003mm 以內 (2.5D)

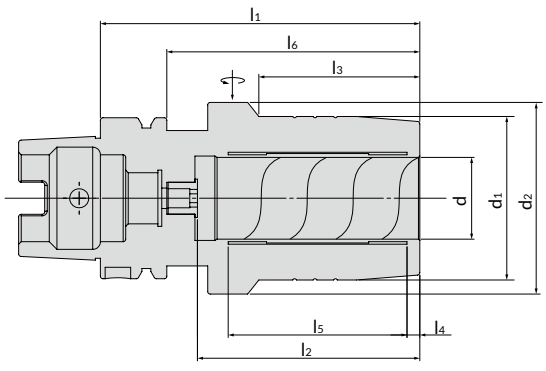


特點 Feature

- 小徑液壓刀桿 : 外徑降低干涉，無需使用減壓徑套筒
- 直徑為 20mm 時，最大夾持扭矩高達 900Nm 最小扭矩 520Nm 以上。
- 直徑為 32mm 時，最大夾持扭矩高達 2000Nm 最小扭矩 900Nm 以上。
- Small-diameter hydraulic shank: Prevent interference from shank, no need to use collet reducer
- diameter 20mm, .

規格 Spec.	l1	l2	l3	l4	l5	l6	d	d1	d2	T	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
HSK63AxLHC6-70	70	37	25	-	21	43	6	26	50	M5	PT5	-	-
NEW HSK63AxLHC8-70	70	37	25	-	21	43	8	28	50	M6	PT5	-	-
HSK63AxLHC10-80	80	41	35	-	31	53	10	30	50	M8-1.0P	PT5	-	-
HSK63AxLHC12-80	80	46	34	4.5	31	54	12	42	52.5	M8-1.0P	PT5	110	1.25
HSK63AxLHC16-80	80	51	-	5	37	54	16	52.5	-	M8-1.0P	PT5	350	1.30
HSK63AxLHC20-80	80	51	-	5	37	54	20	52.5	-	M8-1.0P	PT5	520	1.32
HSK63AxLHC32-120	120	61	-	6	44	94.05	32	62.5	-	M8-1.0P	PT6	900	2.66
HSK100AxLHC20-90	90	51	-	5	37	61	20	52.5	-	M8-1.0P	PT5	520	2.80
HSK100AxLHC32-100	100	61	-	6	44	71	32	72	-	M8-1.0P	PT6	900	3.80

HSK/LHC-P 精密型液壓刀桿
HSK/LHC-P PRECISION HYDRAULIC TOOLHOLDER



規格 Spec.	l1	l2	l3	l4	l5	l6	d	d1	d2	T	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
HSK63AxLHC32-125-P	125	61	10	63	47.7	99	32	64	75	M16-1.0P	PT6	650	2.70

選配表 Option

筒夾 Collet	給水管 Coolant Supply Unti
B632	B519

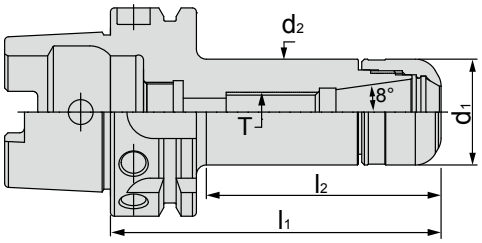
• 長度單位 Unit of Length (mm)

HSK

HSK/PNER 立銑刀夾頭
HSK/PNER COLLET CHUCK(FOR TYPE A)

DIN 69893-A

精度 Accuracy : <3μm



特點 Feature

- 標準動平衡 G2.5 25000rpm

- The Dynamic balancing grade reaches the revoluting of G2.5 25000rpm.

規格 Spec.	l_1	l_2	d_1	d_2	T	夾持範圍 Clamp Range	重量 (KGS) Weight
HSK32AxPNER16-50	50	29	30	26	-	3.0~10	0.14
HSK32AxPNER20-60	60	39	32	-	-	3.0~13	0.24
HSK40AxPNER16-60	60	37	30	26	-	3.0~10	0.36
HSK40AxPNER20-60	60	38	32	32	-	3.0~13	0.37
HSK40AxPNER25-60	60	38	40	-	-	3.0~16	0.47
HSK40AxPNER32-70	70	35	50	40.5	-	3.0~20	0.57
HSK50AxPNER16-60	60	31	30	26	-	3.0~10	0.54
HSK50AxPNER20-60	60	31	32	32	-	3.0~13	0.55
HSK50AxPNER25-60	60	32	40	32.5	-	3.0~16	0.65
HSK50AxPNER32-70	70	42	50	-	-	3.0~20	0.75
HSK50AxPNER40-80	80	38	63	-	-	6.0~26	0.85
HSK63AxPNER16-60	60	31	30	26	-	3.0~10	1.00
HSK63AxPNER16-100	100	64	30	26	M10-1.5P	3.0~10	1.10
HSK63AxPNER16-130	130	94	30	26	M10-1.5P	3.0~10	1.20
HSK63AxPNER16-160	160	124	30	26	M10-1.5P	3.0~10	1.30
HSK63AxPNER20-60	60	31	32	32	-	3.0~13	1.60
HSK63AxPNER20-100	100	71	32	32	M12-1.75P	3.0~13	1.70
HSK63AxPNER20-130	130	99	32	32	M12-1.75P	3.0~13	1.80
HSK63AxPNER20-160	160	129	32	32	M12-1.75P	3.0~13	1.90
HSK63AxPNER25-100	100	71	40	40	M16-2.0P	3.0~16	1.80
HSK63AxPNER25-130	130	101	40	40	M16-2.0P	3.0~16	1.90
HSK63AxPNER25-160	160	131	40	40	M16-2.0P	3.0~16	2.00
HSK63AxPNER32-100	100	71	50	50	-	3.0~20	2.55
HSK63AxPNER32-130	130	101	50	50	M16-2.0P	3.0~20	2.65
HSK63AxPNER32-160	160	131	50	50	M16-2.0P	3.0~20	2.75
HSK63AxPNER40-100	100	71	63	-	M20-2.0P	6.0~26	2.65
HSK63AxPNER40-130	130	101	63	-	M20-2.0P	6.0~26	2.75
HSK63AxPNER40-160	160	131	63	-	M20-2.0P	6.0~26	2.85

選配表 Option

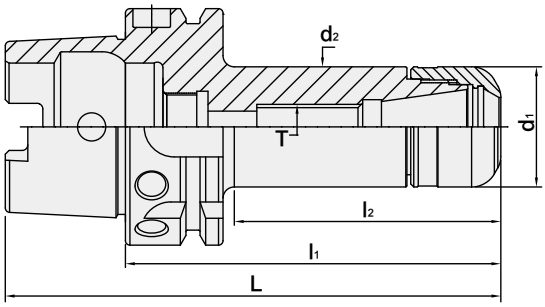
筒夾 Collet	螺帽 Nut	扳手 Spanner	給水管 Coolant Supply Unti
B625-B626	B637-B638	B651	B519

• 長度單位 Unit of Length (mm)

HSK/PNER 立銑刀夾頭
HSK/PNER COLLET CHUCK(FOR TYPE A)

DIN 69893-A

精度 Accuracy : <3μm



特點 Feature

- 標準動平衡 G2.5 25000rpm

- The Dynamic balancing grade reaches the revoluting of G2.5 25000rpm.

規格 Spec.	l_1	l_2	d_1	d_2	T	夾持範圍 Clamp Range	重量 (KGS) Weight
HSK80AxPNER32-100	100	69	50	50	-	3.0~20	3.10
HSK80AxPNER40-120	120	91	63	63	M20-2.0P	6.0~26	3.20
HSK100AxPNER16-100	100	61	30	30	M10-1.5P	3.0~10	2.90
HSK100AxPNER16-130	130	91	30	30	M10-1.5P	3.0~10	
HSK100AxPNER16-160	160	115	30	30	M10-1.5P	3.0~10	
HSK100AxPNER16-200	200	161	30	30	M10-1.5P	3.0~10	
HSK100AxPNER20-100	100	43	32	32	M12-1.75P	3.0~13	3.00
HSK100AxPNER20-130	130	73	32	32	M12-1.75P	3.0~13	
HSK100AxPNER20-160	160	103	32	32	M12-1.75P	3.0~13	
HSK100AxPNER20-200	200	161	32	32	M12-1.75P	3.0~13	
HSK100AxPNER25-100	100	61	40	40	M16-2.0P	3.0~16	3.10
HSK100AxPNER25-130	130	91	40	40	M16-2.0P	3.0~16	
HSK100AxPNER25-160	160	121	40	40	M16-2.0P	3.0~16	
HSK100AxPNER25-200	200	161	40	40	M16-2.0P	3.0~16	
HSK100AxPNER32-100	100	61	50	50	M16-2.0P	3.0~20	3.20
HSK100AxPNER32-130	130	91	50	50	M16-2.0P	3.0~20	
HSK100AxPNER32-160	160	121	50	50	M16-2.0P	3.0~20	
HSK100AxPNER32-200	200	161	50	50	M16-2.0P	3.0~20	
HSK100AxPNER40-100	100	61	63	63	M20-2.0P	6.0~26	3.30
HSK100AxPNER40-130	130	91	63	63	M20-2.0P	6.0~26	
HSK100AxPNER40-160	160	121	63	63	M20-2.0P	6.0~26	
HSK100AxPNER40-200	200	161	63	63	M20-2.0P	6.0~26	

選配表 Option

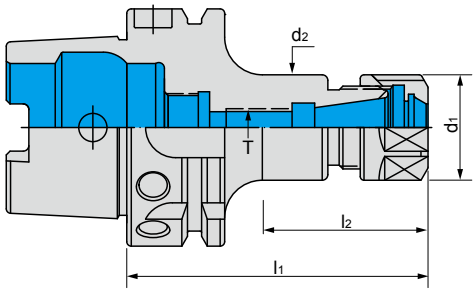
筒夾 Collet	螺帽 Nut	扳手 Spanner	給水管 Coolant Supply Unti
B625-B626	B637-B638	B651	B519

• 長度單位 Unit of Length (mm)

HSK

HSK/ER 立銑刀夾頭
HSK/ER COLLET CHUCK(FOR TYPE A)

DIN 6499/ISO 15488 DIN 69893-A



規格 Spec.	l_1	l_2	d_1	d_2	T	重量 (KGS) Weight
HSK40AxER20A-80	80	59	34	32	M10-1.5P	0.35
HSK40AxER25-80	80	59	42	32	M10-1.5P	0.40
HSK50AvER16A-80	80	49	28	28	M10-1.5P	0.50
HSK50AxER16A-100	100	71	28	28	M10-1.5P	0.55
HSK50AxER16A-120	120	91	28	28	M10-1.5P	0.70
HSK50AxER20A-80	80	53	34	34	M12-1.75P	0.60
HSK50AxER20A-100	100	71	34	34	M12-1.75P	0.65
HSK50AxER20A-120	120	91	34	34	M12-1.75P	0.70
HSK50AxER25-80	80	53	42	40	M16-2.0P	0.70
HSK50AxER25-100	100	73	42	42	M16-2.0P	0.80
HSK50AxER25-135	135	108	42	42	M16-2.0P	0.90
HSK50AxER32-100	100	73	50	50	M16-2.0P	1.08
HSK50AxER32-135	135	108	50	50	M16-2.0P	1.50
HSK50AxER32-160	160	133	50	50	M16-2.0P	1.70
HSK63AxER16A-80	80	44	28	28	M10-1.5P	0.90
HSK63AxER16A-100	100	64	28	28	M10-1.5P	0.98
HSK63AxER16A-120	120	84	28	28	M10-1.5P	1.70
HSK63AxER16A-160	160	124	28	28	M10-1.5P	1.28
HSK63AxER20A-80	80	49	34	34	M12-1.75P	0.96
HSK63AxER20A-100	100	66	34	34	M12-1.75P	1.09
HSK63AxER20A-120	120	91	34	34	M12-1.75P	1.19
HSK63AxER20A-160	160	131	34	34	M12-1.75P	2.00
HSK63AxER25-80	80	49	42	42	M16-2.0P	1.07
HSK63AxER25-100	100	69	42	42	M16-2.0P	1.25
HSK63AxER25-120	120	89	42	42	M16-2.0P	1.44
HSK63AxER25-150	150	119	42	42	M16-2.0P	2.30
HSK63AxER32-80	80	53	50	50	-	1.16
HSK63AxER32-100	100	72	50	50	M16-2.0P	1.44
HSK63AxER32-145	145	118	50	50	M16-2.0P	2.70
HSK63AxER32-160	160	133	50	50	M16-2.0P	2.33
HSK63AxER40-80	80	53	63	52	-	1.28
HSK63AxER40-100	100	73	63	60	M20-2.0P	1.69
HSK63AxER40-120	120	93	63	60	M20-2.0P	2.03
HSK63AxER40-150	150	123	63	60	M20-2.0P	2.95
HSK63AxER40-170	170	143	63	60	M20-2.0P	3.10
HSK63AxER50-120	120	93	78	60	M24-2.0P	3.50

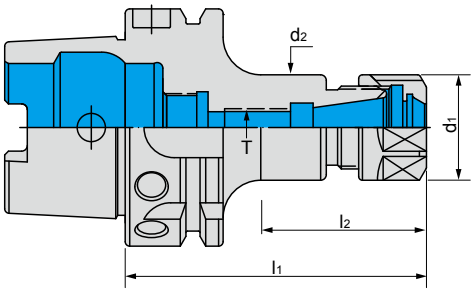
選配表 Option

筒夾 Collet	螺帽 Nut	扳手 Spanner	給水管 Coolant Supply Unti
B612	B634	B650	B519

• 長度單位 Unit of Length (mm)

HSK/ER 立銑刀夾頭
HSK/ER COLLET CHUCK(FOR TYPE A)

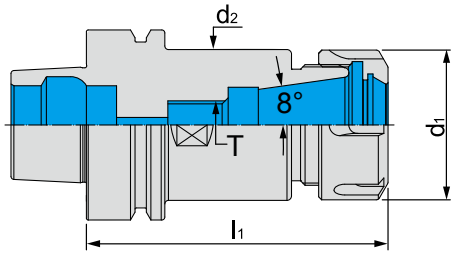
DIN 6499/ISO 15488 DIN 69893-A



規格 Spec.	l_1	l_2	d_1	d_2	T	重量 (KGS) Weight
HSK100AxER16A-80	80	41	28	28	M10-1.5P	2.90
HSK100AxER16A-100	100	61	28	28	M10-1.5P	2.95
HSK100AxER16A-160	160	116	28	28	M10-1.5P	3.45
HSK100AxER20A-80	80	41	34	34	M12-1.75P	2.9
HSK100AxER20A-100	100	61	34	34	M12-1.75P	2.57
HSK100AxER20A-160	160	121	34	34	M12-1.75P	3.30
HSK100AxER25-100	100	61	42	42	M16-2.0P	3.00
HSK100AxER25-130	130	96	42	42	M16-2.0P	3.00
HSK100AxER32-100	100	61	50	50	M16-2.0P	2.92
HSK100AxER32-135	135	96	50	50	M16-2.0P	3.35
HSK100AxER32-150	150	116	50	50	M16-2.0P	3.50
HSK100AxER40- 80	80	46	63	62	-	3.30
HSK100AxER40-120	120	86	63	63	M20-2.0P	3.71
HSK100AxER40-175	175	141	63	60	M20-2.0P	4.20
HSK100AxER50-100	100	68	78	78	-	4.50
HSK100A-ER50-120	120	88	78	64	M24-2.0P	5.00

HSK/ER 立銑刀夾頭
HSK/ER COLLET CHUCK(FOR TYPE F)

DIN 6499/ISO 15488



規格 Spec.	l_1	d_1	d_2	T	重量 (KGS) Weight
HSK63FxER32-70	70	50	53	-	0.97
HSK63FxER32-100	100	50	53	M16-2.0P	2.55
HSK63FxER40-75	75	63	53	-	2.65
HSK63FxER40-100	100	63	53	M20-2.0P	2.50
HSK63FxER40-120	120	63	53	M20-2.0P	2.77

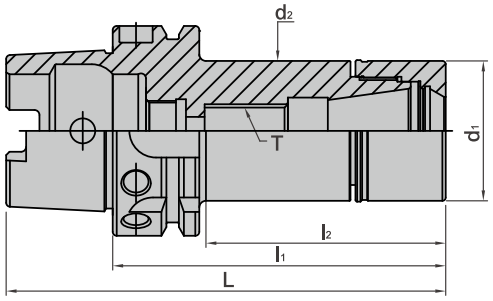
選配表 Option

筒夾 Collet	螺帽 Nut	扳手 Spanner
B612	B634	B650

• 長度單位 Unit of Length (mm)

HSK/Pro.E 筒夾式刀桿
HSK/Pro.E COLLET CHUCK(FOR TYPE A)

DIN 69893-A



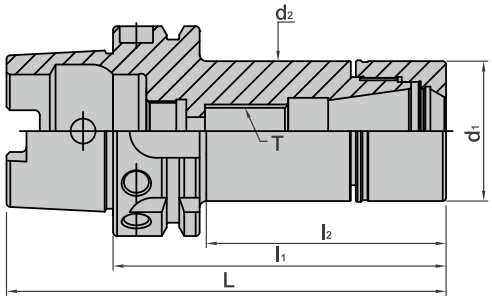
NEW

規格 Spec.	L	l1	l2	d1	d2	T	夾持範圍 Size Range	重量 (KGS) Weight
HSK40AxPro.E16-70	90	70	48	30	30	-	1~10	0.40
HSK40AxPro.E16-100	120	100	78	30	30	M10-1.5P	1~10	0.55
HSK40AxPro.E20-70	90	70	49	35	34	-	1~13	0.47
HSK40AxPro.E20-100	120	100	79	35	34	M12-1.75P	1~13	0.63
HSK40AxPro.E25-70	90	70	35	42	42	-	1~16	0.51
HSK40AxPro.E25-100	120	100	65	42	42	M16-2.0P	1~16	0.80
HSK40AxPro.E32-70	90	70	35	50	50	-	2~20	0.52
HSK40AxPro.E32-100	120	100	65	50	50	M16-2.0P	2~20	0.90
HSK50AxPro.E16-70	95	70	42	30	30	-	1~10	0.56
HSK50AxPro.E16-100	125	100	71	30	30	M10-1.5P	1~10	0.71
HSK50AxPro.E16-125	150	125	96	30	30	M10-1.5P	1~10	0.84
HSK50AxPro.E16-150	175	150	121	30	30	M10-1.5P	1~10	0.97
HSK50AxPro.E20-70	95	70	42	35	35	-	1~13	0.62
HSK50AxPro.E20-100	125	100	71	35	35	M12-1.75P	1~13	0.83
HSK50AxPro.E20-125	150	125	96	35	35	M12-1.75P	1~13	1.01
HSK50AxPro.E20-150	175	150	121	35	35	M12-1.75P	1~13	1.19
HSK50AxPro.E25-70	95	70	43.5	42	42	-	1~16	0.71
HSK50AxPro.E25-100	125	100	73.5	42	42	M16-2.0P	1~16	1.00
HSK50AxPro.E25-125	150	125	98.5	42	42	M16-2.0P	1~16	1.26
HSK50AxPro.E25-150	175	150	123.5	42	42	M16-2.0P	1~16	1.52
HSK50AxPro.E32-80	105	80	53	50	50	-	2~20	0.82
HSK50AxPro.E32-100	125	100	73	50	50	M16-2.0P	2~20	1.05
HSK50AxPro.E32-125	150	125	98	50	50	M16-2.0P	2~20	1.37
HSK50AxPro.E32-150	175	150	123	50	50	M16-2.0P	2~20	1.71
HSK63AxPro.E16-70	102	70	39	30	30	-	1~10	0.82
HSK63AxPro.E16-100	132	100	69	30	30	M10-1.5P	1~10	0.97
HSK63AxPro.E16-125	157	125	94	30	30	M10-1.5P	1~10	1.09
HSK63AxPro.E16-150	182	150	119	30	30	M10-1.5P	1~10	1.22
HSK63AxPro.E16-200	232	200	169	30	30	M10-1.5P	1~10	1.47
HSK63AxPro.E20-70	102	70	39	35	35	-	1~13	0.88
HSK63AxPro.E20-100	132	100	69	35	35	M12-1.75P	1~13	1.08
HSK63AxPro.E20-125	157	125	94	35	35	M12-1.75P	1~13	1.25
HSK63AxPro.E20-150	182	150	119	35	35	M12-1.75P	1~13	1.43
HSK63AxPro.E20-200	232	200	169	35	35	M12-1.75P	1~13	1.78
HSK63AxPro.E25-70	102	70	41	42	42	-	1~16	0.97
HSK63AxPro.E25-100	132	100	71	42	42	M16-2.0P	1~16	1.26
HSK63AxPro.E25-125	157	125	96	42	42	M16-2.0P	1~16	1.51
HSK63AxPro.E25-150	192	150	121	42	42	M16-2.0P	1~16	1.77
HSK63AxPro.E25-200	232	200	171	42	42	M16-2.0P	1~16	2.28
HSK63AxPro.E32-80	112	80	53	50	50	-	2~20	1.01
HSK63AxPro.E32-100	132	100	71	50	50	M16-2.0P	2~20	1.39
HSK63AxPro.E32-125	157	125	96	50	50	M16-2.0P	2~20	1.69
HSK63AxPro.E32-150	182	150	121	50	50	M16-2.0P	2~20	2.02
HSK63AxPro.E32-200	232	200	171	50	50	M16-2.0P	2~20	2.70

• 長度單位 Unit of Length (mm)

HSK/Pro.E 筒夾式刀桿
HSK/Pro.E COLLET CHUCK(FOR TYPE A)

DIN 69893-A



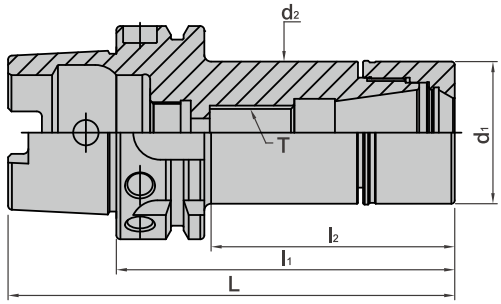
NEW

規格 Spec.	L	l_1	l_2	d_1	d_2	T	夾持範圍 Clamp Range	重量 (KGS) Weight
HSK80AxPro.E16-70	110	70	39	30	30	-	1~10	1.25
HSK80AxPro.E16-100	140	100	69	30	30	M10-1.5P	1~10	1.40
HSK80AxPro.E16-125	165	125	94	30	30	M10-1.5P	1~10	1.52
HSK80AxPro.E16-150	190	150	119	30	30	M10-1.5P	1~10	1.64
HSK80AxPro.E16-200	240	200	169	30	30	M10-1.5P	1~10	1.88
HSK80AxPro.E20-70	110	70	39	35	35	-	1~13	1.31
HSK80AxPro.E20-100	140	100	69	35	35	M12-1.75P	1~13	1.52
HSK80AxPro.E20-125	165	125	94	35	35	M12-1.75P	1~13	1.69
HSK80AxPro.E20-150	190	150	119	35	35	M12-1.75P	1~13	1.86
HSK80AxPro.E20-200	240	200	169	35	35	M12-1.75P	1~13	2.20
HSK80AxPro.E25-70	110	70	39	42	42	-	1~16	1.41
HSK80AxPro.E25-100	140	100	69	42	42	M16-2.0P	1~16	1.69
HSK80AxPro.E25-125	165	125	94	42	42	M16-2.0P	1~16	1.94
HSK80AxPro.E25-160	200	160	129	42	42	M16-2.0P	1~16	2.29
HSK80AxPro.E25-200	240	200	169	42	42	M16-2.0P	1~16	2.69
HSK80AxPro.E32-100	140	100	69	50	50	-	2~20	1.81
HSK80AxPro.E32-125	165	125	94	50	50	M16-2.0P	2~20	2.12
HSK80AxPro.E32-150	190	150	119	50	50	M16-2.0P	2~20	2.46
HSK80AxPro.E32-200	240	200	169	50	50	M16-2.0P	2~20	3.12
HSK100AxPro.E16-100	150	100	61	30	30	M10-1.5P	1~10	2.29
HSK100AxPro.E16-125	175	125	86	30	30	M10-1.5P	1~10	2.41
HSK100AxPro.E16-150	200	150	111	30	30	M10-1.5P	1~10	2.52
HSK100AxPro.E16-200	250	200	161	30	30	M10-1.5P	1~10	2.75
HSK100AxPro.E20-100	150	100	61	35	35	-	1~13	2.40
HSK100AxPro.E20-125	175	125	86	35	35	M12-1.75P	1~13	2.57
HSK100AxPro.E20-150	200	150	111	35	35	M12-1.75P	1~13	2.73
HSK100AxPro.E20-200	250	200	161	35	35	M12-1.75P	1~13	3.06
HSK100AxPro.E25-100	150	100	61	42	42	-	1~16	2.58
HSK100AxPro.E25-125	175	125	86	42	42	M16-2.0P	1~16	2.81
HSK100AxPro.E25-150	200	150	111	42	42	M16-2.0P	1~16	3.06
HSK100AxPro.E25-200	250	200	161	42	42	M16-2.0P	1~16	3.55
HSK100AxPro.E32-100	150	100	61	50	50	-	2~20	2.68
HSK100AxPro.E32-125	175	125	86	50	50	M16-2.0P	2~20	2.98
HSK100AxPro.E32-150	200	150	111	50	50	M16-2.0P	2~20	3.32
HSK100AxPro.E32-200	250	200	161	50	50	M16-2.0P	2~20	3.98
HSK125AxPro.E16-100	163	100	41	30	30	M10-1.5P	1~10	3.91
HSK125AxPro.E16-125	188	125	66	30	30	M10-1.5P	1~10	4.03
HSK125AxPro.E16-150	213	150	91	30	30	M10-1.5P	1~10	4.13
HSK125AxPro.E16-200	263	200	141	30	30	M10-1.5P	1~10	4.34
HSK125AxPro.E20-100	163	100	44	35	35	M12-1.75P	1~13	3.97
HSK125AxPro.E20-125	188	125	69	35	35	M12-1.75P	1~13	4.13
HSK125AxPro.E20-150	213	150	94	35	35	M12-1.75P	1~13	4.29
HSK125AxPro.E20-200	263	200	144	35	35	M12-1.75P	1~13	4.60
HSK125AxPro.E25-100	163	100	47	42	42	M16-2.0P	1~16	4.07

• 長度單位 Unit of Length (mm)

HSK/Pro.E 筒夾式刀桿
HSK/Pro.E COLLET CHUCK(FOR TYPE A)

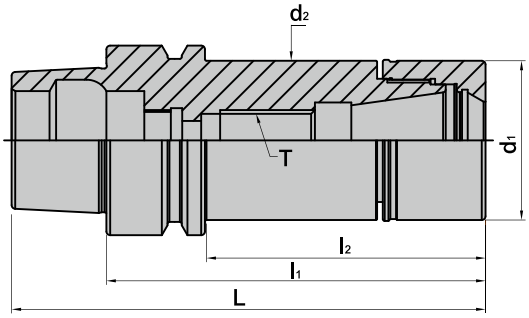
DIN 69893-A



NEW

規格 Spec.	L	l1	l2	d1	d2	T	夾持範圍 Clamp Range	重量 (KGS) Weight
HSK125AxPro.E25-125	188	125	72	42	42	M16-2.0P	1~16	4.31
HSK125AxPro.E25-150	213	150	97	42	42	M16-2.0P	1~16	4.55
HSK125AxPro.E25-200	263	200	147	42	42	M16-2.0P	1~16	5.02
HSK125AxPro.E32-100	163	100	61	50	50	M16-2.0P	2~20	3.94
HSK125AxPro.E32-125	188	125	86	50	50	M16-2.0P	2~20	4.30
HSK125AxPro.E32-150	213	150	111	50	50	M16-2.0P	2~20	4.59
HSK125AxPro.E32-200	263	200	161	50	50	M16-2.0P	2~20	5.23

HSK/Pro.E 筒夾式刀桿
HSK/Pro.E COLLET CHUCK(FOR TYPE E)



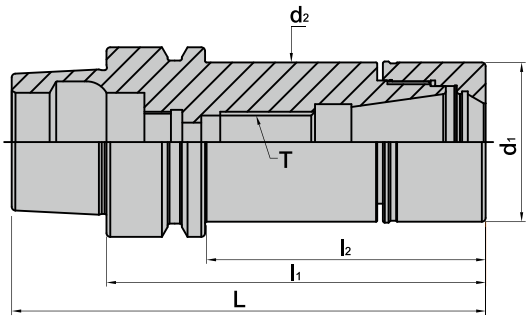
NEW

規格 Spec.	L	l1	l2	d1	d2	T	夾持範圍 Clamp Range	重量 (KGS) Weight
HSK25ExPro.E16-60	73	60	49	30	30	-	1~10	0.22
HSK32ExPro.E16-65	81	65	44	30	30	-	1~10	0.29
HSK40ExPro.E16-60	80	60	39	30	30	-	1~10	0.37
HSK40ExPro.E20-100	120	100	79	35	34	M12-1.75P	1~13	0.68
HSK40ExPro.E20-125	145	125	104	35	34	M12-1.75P	1~13	0.85
HSK40ExPro.E25-70	90	70	49.5	42	42	-	1~16	0.53
HSK40ExPro.E25-100	120	100	79.5	42	42	M16-2.0P	1~16	0.82
HSK40ExPro.E25-125	145	125	104.5	42	42	M16-2.0P	1~16	1.08
HSK40ExPro.E25-150	170	150	129.5	42	42	M16-2.0P	1~16	1.34
HSK40ExPro.E32-70	90	70	49.5	50	50	M16-2.0P	2~20	0.53
HSK40ExPro.E32-100	120	100	79.5	50	50	M16-2.0P	2~20	0.92
HSK50ExPro.E16-70	95	70	41	30	30	-	1~10	0.60
HSK50ExPro.E16-100	125	100	71	30	30	M10-1.5P	1~10	0.75
HSK50ExPro.E20-70	95	70	41	35	35	-	1~13	0.66
HSK50ExPro.E20-100	125	100	71	35	35	M12-1.75P	1~13	0.86
HSK50ExPro.E20-125	150	125	96	35	35	M12-1.75P	1~13	1.04
HSK50ExPro.E20-150	175	150	121	35	35	M12-1.75P	1~13	1.22
HSK50ExPro.E25-70	95	70	43.5	42	42	-	1~16	0.70
HSK50ExPro.E25-100	125	100	73.5	42	42	M16-2.0P	1~16	0.99
HSK50ExPro.E32-70	95	70	43.5	50	50	-	2~20	0.73
HSK50ExPro.E32-100	125	100	73	50	50	M16-2.0P	2~20	1.06
HSK50ExPro.E32-125	150	125	98	50	50	M16-2.0P	2~20	1.41
HSK50ExPro.E32-150	175	150	123	50	50	M16-2.0P	2~20	1.75

• 長度單位 Unit of Length (mm)

HSK-F/Pro.E 筒夾式刀桿
HSK-F/Pro.E COLLET CHUCK(FOR TYPE F)

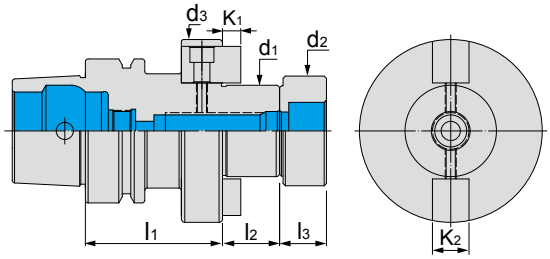
DIN 69893-A



NEW

規格 Spec.	L	l_1	l_2	d_1	d_2	T	夾持範圍 Size Range	重量 (KGS) Weight
HSK63FxPro.E16-70	95	70	39	30	30	-	1~10	0.82
HSK63FxPro.E16-100	125	100	69	30	30	M10-1.5P	1~10	0.97
HSK63FxPro.E16-125	150	125	94	30	30	M10-1.5P	1~10	1.10
HSK63FxPro.E20-70	95	70	39	35	35	-	1~13	0.88
HSK63FxPro.E20-100	125	100	69	35	35	M12-1.75P	1~13	1.09
HSK63FxPro.E20-125	150	125	94	35	35	-	1~13	1.27
HSK63FxPro.E20-150	175	150	119	35	35	M16-2.0P	1~13	1.45
HSK63FxPro.E25-70	95	70	41	42	42	M16-2.0P	1~16	0.97
HSK63FxPro.E25-100	125	100	71	42	42	M16-2.0P	1~16	1.26
HSK63FxPro.E25-125	150	125	96	42	42	M16-2.0P	1~16	1.52
HSK63FxPro.E32-70	95	70	41	50	50	M16-2.0P	2~20	1.00
HSK63FxPro.E32-100	125	100	71	50	50	-	2~20	1.38
HSK63FxPro.E32-125	150	125	96	50	50	M10-1.5P	2~20	1.70
HSK63FxPro.E32-150	175	150	121	50	50	-	2~20	2.04

HSK/FMB 平面銑刀柄
HSK/FMB FACE MILL ARBOR(FOR TYPE E)



特點 Feature

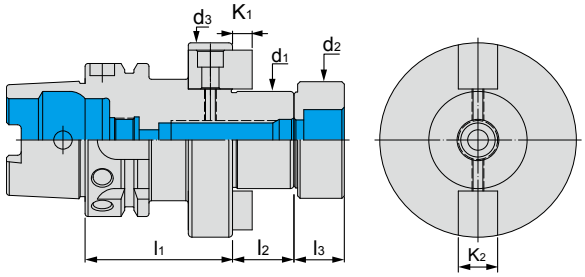
- 平面銑刀配合部位 (d1) 軸系公差 h6.
- d1 tolerance: h6.

規格 Spec.	l_1	l_2	l_3	d_1	d_2	d_3	k_1	k_2	重量 (KGS) Weight
HSK40ExFMB22-60	60	19	14	22	26	48	4.8	10	0.86
HSK50ExFMB22-60	60	19	14	22	26	48	4.8	10	1.20
HSK50ExFMB27-60	60	21	16	27	31.5	60	5.8	12	1.30

• 長度單位 Unit of Length (mm)

HSK/FMB 平面銑刀柄
HSK/FMB FACE MILL ARBOR(FOR TYPE A)

DIN 69893-A



特點 Feature

- 平面銑刀配合部位 (d1) 軸系公差 h6.
- d1 tolerance: h6.

規格 Spec.	l_1	l_2	l_3	d_1	d_2	d_3	k_1	k_2	重量 (KGS) Weight
HSK40AxFMB16-50	50	17	-	16	-	40	5	8	0.70
HSK40AxFMB22-60	60	19	14	22	26	52	4.8	10	0.86
HSK40AxFMB27-60	60	21	16	27	31.5	60	5.8	12	1.00
HSK40AxFMB32-60	60	24	16	32	41	78	6.8	14	1.10
HSK50AxFMB16-50	50	17	-	16	-	40	5	8	1.10
HSK50AxFMB22-60	60	19	14	22	26	48	4.8	10	0.95
HSK50AxFMB27-60	60	21	16	27	31.5	60	5.8	12	1.30
HSK50AxFMB32-60	60	24	-	32	41	78	6.8	14	1.50
HSK63AxFMB16-50	50	17	-	16		40	5	8	1.20
HSK63AxFMB22-50	50	17	14	22	26	50	4.8	10	1.30
HSK63AxFMB22-100	100	19	14	22	26	50	4.8	10	
HSK63AxFMB22-150BG	150	19	14	22	26	50	4.8	10	
HSK63AxFMB27-60	60	19	16	27	31.5	53	5.8	12	1.50
HSK63AxFMB27-100	100	21	16	27	31.5	53	5.8	12	
HSK63AxFMB27-150BG	150	21	16	27	31.5	60	5.8	12	
HSK63AxFMB32-60	60	21	16	32	41	78	6.8	14	1.60
HSK63AxFMB32-100	100	24	16	32	41	78	6.8	14	
HSK63AxFMB32-150BG	150	24	16	32	41	78	6.8	14	
HSK63AxFMB40-60	60	24	20.5	40	48	80	8.3	16	2.10
HSK63AxFMB40-100	100	25	20.5	40	48	80	8.3	16	
HSK100AxFMB22-50	50	19	14	22	26	48	4.8	10	2.7
HSK100AxFMB22-150 BG	150	19	14	22	26	58	4.8	10	

選配表 Option

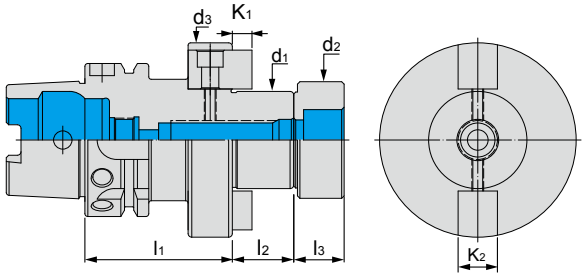
給水管 Coolant Supply Unti

B519

• 長度單位 Unit of Length (mm)

HSK/FMB 平面銑刀柄
HSK/FMB FACE MILL ARBOR(FOR TYPE E)

DIN 69893-A



特點 Feature

- 平面銑刀配合部位 (d1) 軸系公差 h6.

- d1 tolerance: h6.

規格 Spec.	l_1	l_2	l_3	d_1	d_2	d_3	k_1	k_2	重量 (KGS) Weight
HSK100AxFMB22-200 BG	200	19	14	22	26	58	4.8	10	
HSK100AxFMB27-50	50	21	16	27	31.5	60	5.8	12	2.9
HSK100AxFMB27-100	100	21	16	27	31.5	60	5.8	12	
HSK100AxFMB27-150BG	150	21	16	27	31.5	60	5.8	12	
HSK100AxFMB27-200BG	200	21	16	27	31.5	60	5.8	12	
HSK100AxFMB32-50	50	24	16	32	41	78	6.8	14	3.0
HSK100AxFMB32-100	100	24	16	32	41	78	6.8	14	
HSK100A-xFMB32-150BG	150	25	20.5	40	48	80	8.3	16	
HSK100AxFMB32-200BG	200	25	20.5	40	48	80	8.3	16	
HSK100AxFMB40-60	60	25	20.5	40	48	88	8.3	16	4.0
HSK100AxFMB40-100	100	25	20.5	40	48	88	8.3	16	
HSK100AxFMB40-150BG	150	30	24	50	65	120	9.7	19	
HSK100AxFMB40-200BG	200	40	-	60	-	129	12.5	25.4	
HSK100AxFMB50-70	70	30	25	50	68	120	9.7	19	5.1
HSK100AxFMB60-70	70	40	-	60	-	129	12.5	25.4	5.5

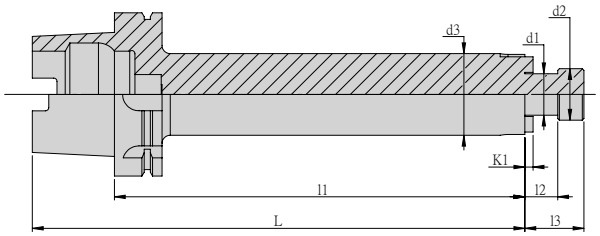
選配表 Option

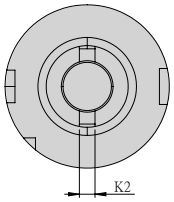
給水管 Coolant Supply Unti
B519

• 長度單位 Unit of Length (mm)

HSK/FMA 平面銑刀柄
HSK/FMA FACE MILL ARBOR(FOR TYPE A)

DIN 69893-A





NEW

規格 Spec.	l_1	l_2	l_3	d_1	d_2	d_3	k_1	k_2	重量 (KGS) Weight
HSK63A-FMA25.4-75	75	20		25.4		50	4.52	9.52	
HSK63A-FMA25.4-100	100	20		25.4		50	4.52	9.52	
HSK63A-FMA25.4-150BG	150	20		25.4		48	4.52	9.52	
HSK63A-FMA31.75 -75	75	22		31.75		60	6.7	12.7	
HSK63A-FMA31.75-100	100	22		31.75		60	6.7	12.7	
HSK63A-FMA31.75-150BG	150	22		31.75		60	6.7	12.7	
HSK63A-FMA38.1-75	75	25		38.1		75	8.87	15.87	
HSK63A-FMA38.1 -100	100	25		38.1		75	8.87	15.87	
HSK100A-FMA25.4-75	75	20		25.4		50	4.52	9.52	
HSK100A-FMA25.4-150BG	150	20		25.4		48	4.52	9.52	
HSK100A-FMA25.4-200BG	200	20		25.4		58	4.52	9.52	
HSK100A-FMA31.75-75	75	22		25.4		60	6.7	12.7	
HSK100A-FMA31.75-150BG	150	22		31.75		70	6.7	12.7	
HSK100A-FMA31.75-200BG	200	22		31.75		70	6.7	12.7	
HSK100A-FMA38.1-75	75	25		31.75		80	8.87	15.87	
HSK100A-FMA38.1-150BG	150	25		38.1		80	8.87	15.87	
HSK100A-FMA38.1-200BG	200	25		38.1		80	8.87	15.87	
HSK100A-FMA50.8-75	75	36		50.8		98	9.75	19.05	
HSK100A-FMA50.8-150BG	150	36		50.8		98	9.75	19.05	

選配表 Option

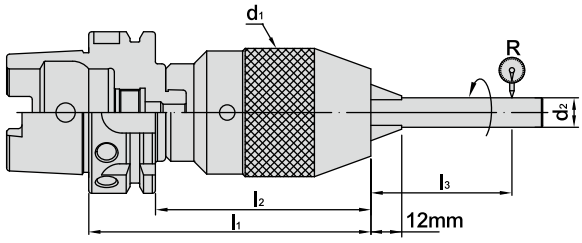
給水管 Coolant Supply Unti

B519

• 長度單位 Unit of Length (mm)

HSK/SPU 直結式鑽夾頭
HSK/SPU DRILL CHUCK HOLDER(FOR TYPE A)

DIN 69893-A



特點 Feature

- 本產品因為增加了多層安全性設計，能提供給綜合切削中心機使用，在電腦操作的全自動作業中，以及無人化的管理整個流程，都能夠安全及順利地進行

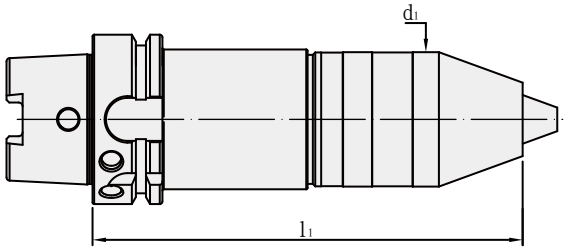
- This product with multi-safety design can be used at Machine Center. It will be very safety to process under automatic computer operation and unmanned management.

規格 Spec.	l_1	l_2	l_3	d_1	d_2	R	重量 (KGS) Weight
HSK50AxSPU13-150	150	124	55	50	5	0.04	1.40
HSK63AxSPU13-150	150	124	55	50	10	0.04	2.69
HSK100AxSPU13-155	155	126	75	50	13	0.04	4.30

- 附扳手 Attaches the spanner.

HSK/GPH 齒驅式鑽夾頭
HSK/GPH GEAR DRIVING HOLDER(FOR TYPE A)

NEW



規格 Spec.	l_1	d_1	夾持範圍 Capacity Range	重量 (KGS) Weight
HSK63AxGPH13-105	105	50	1 ~ 13	2.53

選配表 Option

給水管 Coolant Supply Unti
B519

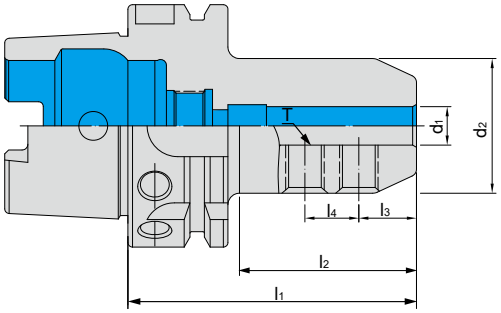
• 長度單位 Unit of Length (mm)

HSK

HSK/SLN 側固式立銑刀柄 (JIS 型)
HSK/SLN SIDE LOCK END MILL HOLDER(JIS TYPE)

DIN 69893-A

NEW



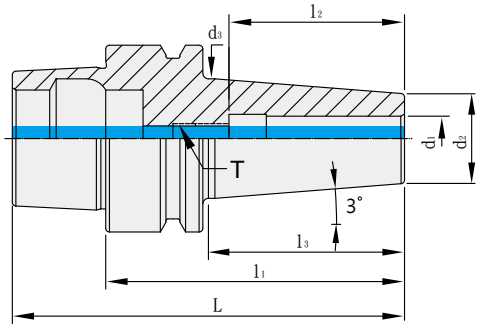
規格 Spec.	l_1	l_2	l_3	l_4	d_1	d_2	T	重量 (KGS) Weight
HSK63AxSLN10-75JIS	75	46	15	14	10	35	M10-1.5P	-
HSK63AxSLN12-80JIS	80	51	20	16	12	42	M10-1.5P	-
HSK63AxSLN16-90JIS	90	62	22	18	16	48	M10-1.5P	-
HSK63AxSLN16-150JIS	150	124	22	18	16	48	M10-1.5P	-
HSK63AxSLN20-90JIS	90	62.5	25	20	20	50	M12-1.75P	-
HSK63AxSLN20-150JIS	150	124	25	20	20	50	M12-1.75P	-
HSK63AxSLN25-90JIS	90	62.5	24	25	25	50	M12-1.75P	-
HSK63AxSLN25-150JIS	150	124	24	25	25	50	M12-1.75P	-
HSK63AxSLN32-105JIS	105	79	24	28	32	60	M16-2.0P	-
HSK100AxSLN16-90JIS	90	40	22	18	16	48	M10-1.5P	-
HSK100AxSLN16-150JIS	150	100	22	18	16	48	M10-1.5P	-
HSK100AxSLN20-100JIS	100	56	25	20	20	50	M12-1.75P	-
HSK100AxSLN20-150JIS	150	111	25	20	20	50	M12-1.75P	-
HSK100AxSLN25-100JIS	100	66	24	25	25	50	M12-1.75P	-
HSK100AxSLN25-150JIS	150	111	24	25	25	50	M12-1.75P	-
HSK100AxSLN32-105JIS	105	71	24	32	32	60	M16-2.0P	-
HSK100AxSLN32-150JIS	150	111	24	32	32	60	M16-2.0P	-

• 長度單位 Unit of Length (mm)

HSK/SFW 不鏽鋼熱膨脹刀桿
HSK/SFW SHRINK-FIT CHUCK FOR STAINLESS STEEL

DIN 69893-A

燒結式 Shrink-Fit



NEW

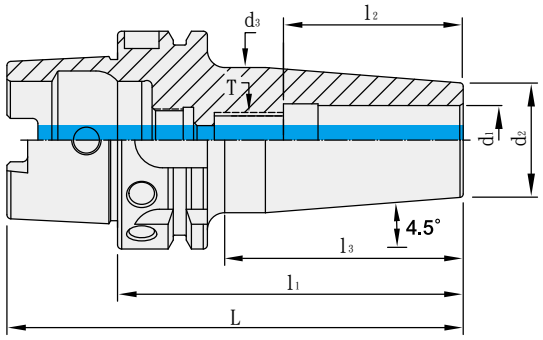
規格 Spec.	l_1	l_2	l_3	d_1	d_2	d_3	重量 (KGS) Weight
HSK25ExSFW3-35L G2.5 RPM36000	35	20	17	3	6	18	
HSK25ExSFW3.175-35L G2.5 RPM36000	35	20	17	3.175	6.175	18	
HSK25ExSFW4-35L G2.5 RPM36000	35	20	17	4	7	18	
HSK25ExSFW6-35L G2.5 RPM36000	35		17	6	9	18	
HSK32ExSFW3-50L G2.5 RPM36000	50	20	22	3	6	20	
HSK32ExSFW3.175-50L G2.5 RPM36000	50	20	22	3.175	6.175	20	
HSK32ExSFW4-50L G2.5 RPM36000	50	20	22	4	7	20	
HSK32ExSFW4-50L-R G2.5 RPM36000	50	20	22	4	10	20	
HSK32ExSFW6-70L G2.5 RPM36000	50		22	6	9	20	
HSK32ExSFW6-50L-R G2.5 RPM36000	50		22	6	12	26	
HSK32ExSFW8-50L-R G2.5 RPM36000	50		22	8	14	26	
HSK32ExSFW10-55L-R G2.5 RPM36000	50		22	10	16	26	
HSK32ExSFW12-55L-R G2.5 RPM36000	50		22	12	20	26	
HSK40ExSFW3-50L G2.5 RPM36000	50	42	22	3	6	20	
HSK40ExSFW3.175-50 G2.5 RPM36000	50	42	22	3.175	6.175	20	
HSK40ExSFW4-50L G2.5 RPM36000	50	42	22	4	7	20	
HSK40ExSFW6-50L G2.5 RPM36000	50	39	22	6	9	20	
HSK40ExSFW8-60L G2.5 RPM36000	50	49	22	8	11	26	
HSK40ExSFW10-60L G2.5 RPM36000	50	49	22	10	13	26	
HSK40ExSFW12-55L-R G2.5 RPM36000	50	44	22	12	20	30	
HSK40ExSFW12-85L-R G2.5 RPM36000	50	74	22	12	20	32	

• 長度單位 Unit of Length (mm)

HSK/SFC 熱膨脹刀桿
HSK/SFC SHRINK-FIT CHUCK(FOR TYPE A)

DIN 69893-A

燒結式 Shrink-Fit



特點 Feature

- 整支通孔，利於出水及抗震
- 標準動平衡 G2.5 25000rpm

- A through coolant shank which allows water to pass through easily and vibration resistance.
- Dynamic balancing G2.5 at 25000rpm

規格 Spec.	L	l_1	l_2	l_3	d_1	d_2	d_3	T	重量 (KGS) Weight
HSK50AxSFC3-80	105	80	18	49	3	9	16.7	-	0.54
HSK50AxSFC4-80	105	80	20	49	4	10	17.7	-	0.55
HSK50AxSFC5-80	105	80	20	49	5	16	22	-	0.56
HSK50AxSFC6-80	105	80	36	49	6	21	27	M5-0.8P	0.57
HSK50AxSFC8-80	105	80	36	49	8	21	27	M6-1.0P	0.58
HSK50AxSFC10-85	110	85	42	54	10	24	32	M8-1.25P	0.07
HSK50AxSFC12-90	115	90	47	59	12	24	32	M10-1.5P	0.67
HSK50AxSFC14-90	115	90	47	59	14	24	32	M10-1.5P	0.72
HSK50AxSFC16-95	120	95	50	64	16	27	34	M12-1.75P	0.73
HSK50AxSFC18-95	120	95	52	67	18	33	42	M12-1.75P	0.90
HSK50AxSFC20-100	125	100	52	73	20	33	42	M16-2.0P	0.92
HSK50AxSFC25-115	140	115	47	88	25	44	53	M20-2.0P	0.95
HSK63AxSFC3-80	112	80	18	40	3	9	18	-	0.70
HSK63AxSFC4-80	112	80	20	44	4	10	17.049	-	0.70
HSK63AxSFC5-80	112	80	20	51	5	16	22	-	0.70
HSK63AxSFC6-80	112	80	36	51	6	21	27	M5-0.8P	0.89
HSK63AxSFC6-130	162	130	36	94	8	21	27	M6	1.06
HSK63AxSFC6-160	192	160	36	124	8	21	27	M6	1.19
HSK63AxSFC8-80	112	80	36	51	8	21	27	M6-1.0P	0.82
HSK63AxSFC8-130	162	130	36	94	8	21	27	M6	1.05
HSK63AxSFC8-160	192	160	36	124	8	21	27	M6	1.18
HSK63AxSFC10-85	117	85	42	54	10	24	32	M8-1.25P	0.91
HSK63AxSFC10-130	162	130	42	94	10	24	32	M8	1.81
HSK63AxSFC10-160	192	160	42	124	10	24	32	M8	1.36
HSK63AxSFC12-90	122	90	47	59	12	24	32	M10-1.5P	0.97
HSK63AxSFC12-130	162	130	47	94	12	24	32	M10	1.17
HSK63AxSFC12-160	192	160	47	124	12	24	32	M10	1.35
HSK63AxSFC14-90	122	90	47	59	14	27	34	M10-1.5P	0.97
HSK63AxSFC14-130	162	130	47	99	14	27	34	M10	1.23
HSK63AxSFC14-160	192	160	47	129	14	27	34	M10	1.44
HSK63AxSFC16-95	127	95	50	64	16	27	34	M12-1.75P	0.98
HSK63AxSFC16-130	162	130	50	99	16	27	34	M12	1.21

選配表 Option

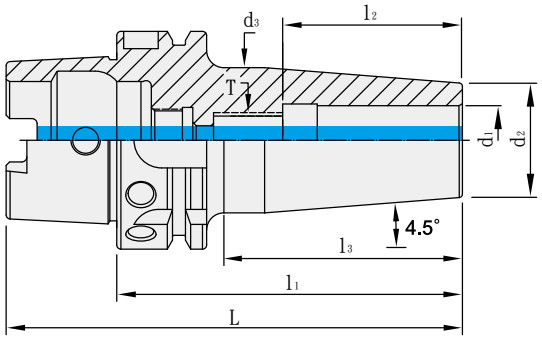
給水管 Coolant Supply Unti	加熱器 Hot-Air
B519	B400

• 長度單位 Unit of Length (mm)

HSK/SFC 熱膨脹刀桿
HSK/SFC SHRINK-FIT CHUCK(FOR TYPE A)

DIN 69893-A

燒結式 Shrink-Fit



特點 Feature

- 整支通孔，利於出水及抗震
- 標準動平衡 G2.5 25000rpm

- A through coolant shank which allows water to pass through easily and vibration resistance.
- Dynamic balancing G2.5 at 25000rpm

規格 Spec.	L	l_1	l_2	l_3	d_1	d_2	d_3	T	重量 (KGS) Weight
HSK63AxSFC16-160	192	160	50	129	16	27	34	M12	1.42
HSK63AxSFC18-95	127	95	50	64	18	33	42	M12-1.75P	0.99
HSK63AxSFC18-130	162	130	50	89	18	33	42	M12	1.51
HSK63AxSFC18-160	192	160	50	89	18	33	42	M12	1.83
HSK63AxSFC20-100	132	100	52	69	20	33	42	M16-2.0P	1.00
HSK63AxSFC20-130	162	130	52	89	20	33	42	M16	1.48
HSK63AxSFC20-160	192	160	52	89	20	33	42	M16	1.80
HSK63AxSFC25-115	147	115	58	88	25	44	53	M20-2.0P	1.40
HSK63AxSFC25-130	162	130	58	104	25	44	53	M20	2.00
HSK63AxSFC25-160	192	160	58	134	25	44	53	M20	2.51
HSK63AxSFC32-120	152	120	58	93	32	44	53	M20-2.0P	1.39
HSK100AxSFC6-85	135	85	36	46	6	21	27	M5-0.8P	2.15
HSK100AxSFC6-130	180	130	36	91	6	21	27	M5	2.36
HSK100AxSFC6-160	210	160	36	91	6	21	27	M5	2.50
HSK100AxSFC8-85	135	85	36	46	8	21	27	M6-1.0P	2.15
HSK100AxSFC8-130	180	130	36	91	8	21	27	M6	2.35
HSK100AxSFC8-160	210	160	36	91	8	21	27	M6	2.49
HSK100AxSFC10-90	140	90	42	51	10	24	32	M8-1.25P	2.23
HSK100AxSFC10-130	180	130	42	91	10	24	32	M8	2.49
HSK100AxSFC10-160	210	160	42	91	10	24	32	M8	2.68
HSK100AxSFC12-95	145	95	47	56	12	24	32	M10-1.5P	2.25
HSK100AxSFC12-130	180	130	47	91	12	24	32	M10	2.47
HSK100AxSFC12-160	210	160	47	91	12	24	32	M10	2.66
HSK100AxSFC14-130	180	130	47	91	14	27	34	M10	2.55
HSK100AxSFC14-160	210	160	47	91	14	27	34	M10	2.76
HSK100AxSFC16-100	150	100	50	61	16	27	34	M12-1.75P	2.31
HSK100AxSFC16-130	180	130	50	91	16	27	34	M12	2.53
HSK100AxSFC16-160	210	160	50	91	16	27	34	M12	2.74
HSK100AxSFC20-105	155	105	52	71	20	33	42	M16-2.0P	2.51
HSK100AxSFC20-130	180	130	52	96	20	33	42	M16-2.0P	2.79
HSK100AxSFC20-160	210	160	52	91	20	33	42	M16-2.0P	3.11
HSK100AxSFC25-115	165	115	58	81	25	44	53	M20-2.0P	3.04
HSK100AxSFC25-160	210	160	58	91	25	44	53	M20-2.0P	3.82
HSK100AxSFC32-120	152	120	58	93	32	44	53	M20-2.0P	1.67
HSK100AxSFC32-160	192	160	58	134	32	44	53	M20	2.37

• 長度單位 Unit of Length (mm)

HSK/SFC 熱膨脹刀桿
HSK/SFC SHRINK-FIT CHUCK(FOR TYPE E)

DIN 69893-A

燒結式 Shrink-Fit

Fig.1

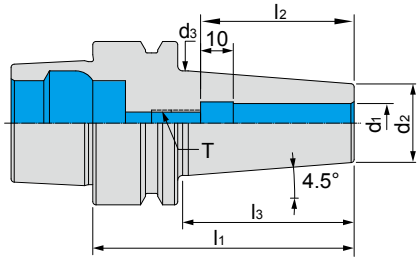
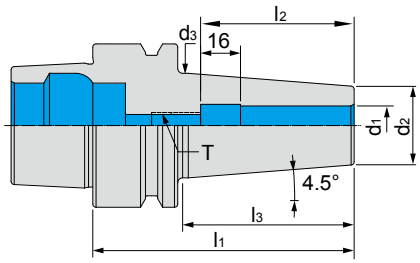


Fig.2



特點 Feature

- 整支通孔，利於出水及抗震
- 標準動平衡 G2.5 25000rpm

- A through coolant shank which allows water to pass through easily and vibration resistance.
- Dynamic balancing G2.5 at 25000rpm.

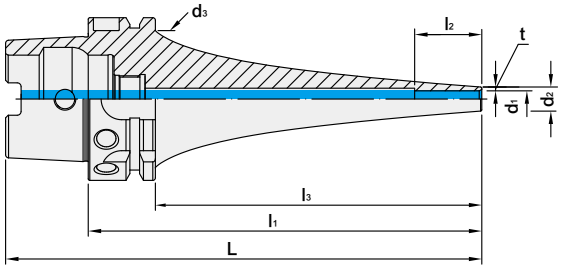
規格 Spec.	l_1	l_2	l_3	d_1	d_2	d_3	T	Fig.	重量 (KGS) Weight
HSK25ExSFC3-50	50	20	37	3	9	13	-	1	0.14
HSK25ExSFC4-50	50	20	38	4	10	16.079	-	1	0.15
HSK25ExSFC5-50	50	20	39	5	16	20	-	1	0.16
HSK32ExSFC3-50	50	18	27	3	9	13.287	-	1	0.54
HSK32ExSFC4-50	50	20	27	4	10	14.287	-	1	0.55
HSK32ExSFC5-50	50	20	29	5	16	20	-	1	0.56
HSK32ExSFC6-50	50	36	29	6	21	25	-	2	0.57
HSK32ExSFC8-60	60	36	39	8	21	26	M6-1.0P	1	0.58
HSK32ExSFC10-60	60	42	39	10	21	26	M8-1.25P	1	0.60
HSK32ExSFC12-70	70	47	49	12	21	26	M10-1.5P	1	0.70
HSK40ExSFC3-80	80	20	49	3	9	18	-	1	0.54
HSK40ExSFC4-80	80	20	49	4	10	22	-	1	0.55
HSK40ExSFC5-80	80	20	55	5	16	22	-	1	0.56
HSK40ExSFC6-80	80	36	59	6	21	27	M5-0.8P	2	0.57
HSK40ExSFC8-80	80	36	59	8	21	27	M6-1.0P	1	0.58
HSK40ExSFC10-85	85	42	64	10	24	32	M8-1.25P	1	0.65
HSK40ExSFC12-90	90	47	69	12	24	32	M10-1.5P	1	0.67
HSK50ExSFC3-80	80	20	42	3	9	18	M6-1.0P	1	0.54
HSK50ExSFC4-80	80	20	49	4	10	17.7	M6-1.0P	1	0.58
HSK50ExSFC5-80	80	20	49	5	16	22	M6-1.0P	1	0.56
HSK50ExSFC6-80	80	36	49	6	21	27	M5-0.8P	2	0.67
HSK50ExSFC8-80	80	36	49	8	21	27	M6-1.0P	1	0.68
HSK50ExSFC10-80	80	42	52	10	24	32	M8-1.25P	1	0.72
HSK50ExSFC12-80	80	47	52	12	24	32	M10-1.5P	1	0.70
HSK50ExSFC16-95	95	50	67	16	27	34	M12-1.75P	1	0.73
HSK50ExSFC20-100	100	52	73	20	33	42	M16-2.0P	1	0.92
HSK50ExSFC25-115	115	47	88	25	44	53	M20-2.0P	1	0.95

• 長度單位 Unit of Length (mm)

HSK/SFC 熱膨脹刀桿 (CUL 威力曲線型)
HSK /SFC SHRINK-FIT CHUCK (CUL TYPE)

DIN 69893-A

燒結式 Shrink-Fit



NEW

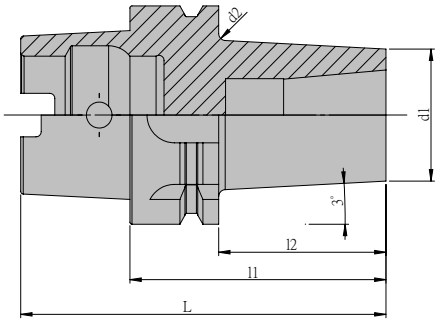
規格 Spec.	L	l_1	l_2	l_3	d_1	d_2	d_3	t	重量 (KGS) Weight
HSK63AxSFC4-150CUL	182	150	10	124	4	10	53	3	0.9
HSK63AxSFC4-200CUL	232	200	10	174	4	10	53	3	1.1
HSK63AxSFC4-250CUL	282	250	10	224	4	10	53	3	1.6
HSK63AxSFC6-150CUL	182	150	20	124	6	13	53	3.5	1.3
HSK63AxSFC6-200CUL	232	200	20	174	6	13	53	3.5	1.4
HSK63AxSFC6-250CUL	282	250	20	224	6	13	53	3.5	1.8
HSK63AxSFC8-150CUL	182	150	26	124	8	16	53	4	1.4
HSK63AxSFC8-200CUL	232	200	26	174	8	16	53	4	1.6
HSK63AxSFC8-250CUL	282	250	26	224	8	16	53	4	1.9
HSK63AxSFC10-150CUL	182	150	32	124	10	19	53	4.5	1.3
HSK63AxSFC10-200CUL	232	200	32	174	10	19	53	4.5	1.6
HSK63AxSFC10-250CUL	282	250	32	224	10	19	53	4.5	2.1
HSK100AxSFC4-150CUL	200	150	10	121	4	10	85	3	3.6
HSK100AxSFC4-200CUL	250	200	10	171	4	10	85	3	4.1
HSK100AxSFC4-250CUL	300	250	10	221	4	10	85	3	4.5
HSK100AxSFC4-300CUL	350	300	10	271	4	10	85	3	4.8
HSK100AxSFC6-150CUL	200	150	20	121	6	13	85	3.5	6.6
HSK100AxSFC6-200CUL	250	200	20	171	6	13	85	3.5	4.7
HSK100AxSFC6-250CUL	300	250	20	221	6	13	85	3.5	5.4
HSK100AxSFC6-300CUL	350	300	20	271	6	13	85	3.5	6.1
HSK100AxSFC8-150CUL	200	150	26	121	8	16	85	4	6.5
HSK100AxSFC8-200CUL	250	200	26	171	8	16	85	4	6.9
HSK100AxSFC8-250CUL	300	250	26	221	8	16	85	4	4.6
HSK100AxSFC8-300CUL	350	300	26	271	8	16	85	4	4.9
HSK100AxSFC10-150CUL	200	150	32	121	10	19	85	4.5	3.5
HSK100A-SFC10-200CUL	250	200	32	171	10	19	85	4.5	4.1
HSK100AxSFC10-250CUL	300	250	32	221	10	19	85	4.5	4.9
HSK100AxSFC10-300CUL	350	300	32	271	10	19	85	4.5	5.2
HSK100AxSFC12-150CUL	200	150	37	121	12	22	85	5	3.6
HSK100AxSFC12-200CUL	250	200	37	171	12	22	85	5	4.4
HSK100AxSFC12-250CUL	300	250	37	221	12	22	85	5	4.6
HSK100AxSFC12-300CUL	350	300	37	271	12	22	85	5	4.8

• 搭配熱風式加熱器 B399-B400

• 長度單位 Unit of Length (mm)

HSK/SFS 後拉式立銑刀夾頭
HSK/SFS SLIM-FIT COLLET CHUCK

DIN 69893-A

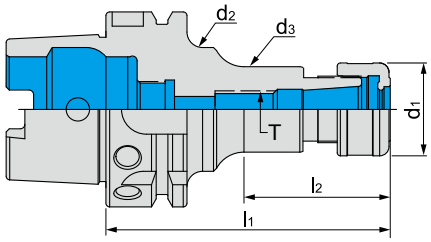


NEW

規格 Spec.	L	l_1	l_2	d_1	d_2	重量 (KGS) Weight
HSK50AxSFS12-75	100	75	48.6	38.1	42	0.8
HSK63AxSFS12-75	107	75	47.105	38.1	43	1.0
HSK63AxSFS12-135	167	135	107.5	38.1	49.3	1.7
HSK40ExSFS12-75	95	75	55	38.1	40	0.7
HSK50ExSFS12-75	110	75	48.6	38.1	42	0.8
HSK63FxSFS12-75	100	75	47.1	38.1	43	1.0

※ 其他加長型可依需求接單生產

HSK/SKS 高速機專用夾頭 (無風阻)
HSK/SKS COLLET CHUCK(FOR TYPE A) (NON WIND RESISTANCE)



特點 Feature

- 偏擺精度 :5μ 以下 (延伸 4D 長度處)
- SKS 筒夾錐度 :4°，增加夾持力、提高穩定性
- 標準動平衡 :G2.5 25000rpm

- Run-out accuracy: within 5μ.
- SKS tapered collet: 4° degrees, increases clamping power and stability.
- Dynamic balancing G2.5 at 25000rpm.

規格 Spec.	l_1	l_2	d_1	d_2	d_3	T	重量 (KGS) Weight
HSK32AxSKS10-60-HS	60	-	30	40	-	M12-1.75P	0.26
HSK40AxSKS10-60-HS	60	-	30	40	-	M12-1.75P	0.60

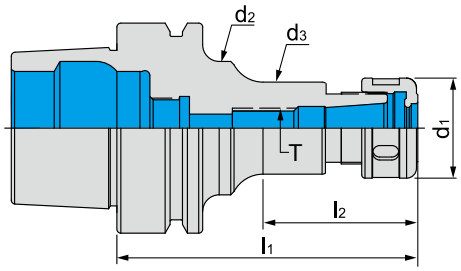
選配表 Option

熱膨脹刀桿 Shrink-fit Extension	筒夾 Collet	螺帽 Nut		扳手 Spanner		給水管 Coolant Supply Unti
B394	B627	B639	B639	B651	B651	B519

• 長度單位 Unit of Length (mm)

HSK/SKS 高速機專用夾頭
HSK/SKS COLLET CHUCK (FOR TYPE E)

DIN 69893-A



特點 Feature

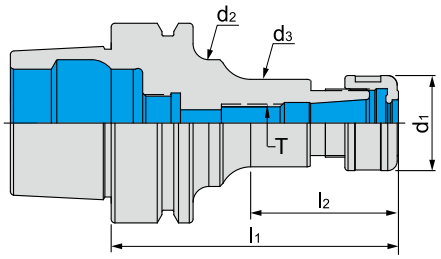
- 偏擺精度 :5μ 以下 (延伸 4D 長度處)
- SKS 筒夾錐度 :4°，增加夾持力、提高穩定性
- 標準動平衡 :G2.5 25000rpm

- Run-out accuracy: within 5μ.
- SKS tapered collet: 4° degrees, increases clamping power and stability.
- Dynamic balancing G2.5 at 25000 rpm.

規格 Spec.	l_1	l_2	d_1	d_2	d_3	T	重量 (KGS) Weight
HSK50ExSKS10-90	90	45	30	40	27.6	M12-1.75P	0.83
HSK50ExSKS10-120	120	75	30	40	27.6	M12-1.75P	0.93
HSK50ExSKS16-90	90	63	40	40	-	M18-1.5P	0.90
HSK50ExSKS16-120	120	93	40	40	-	M18-1.5P	1.13

HSK

HSK/SKS 高速機專用夾頭 (無風阻)
HSK/SKS COLLET CHUCK (FOR TYPE E) (NON WIND RESISTANCE)



特點 Feature

- 偏擺精度 :5μ 以下 (延伸 4D 長度處)
- SKS 筒夾錐度 :4°，增加夾持力、提高穩定性
- 標準動平衡 :G2.5 25000rpm

- Run-out accuracy: within 5μ.
- SKS tapered collet: 4° degrees, increases clamping power and stability.
- Dynamic balancing G2.5 at 25000rpm.

規格 Spec.	l_1	l_2	d_1	d_2	d_3	T	重量 (KGS) Weight
HSK40ExSKS6-60-HS	60	44	18	32	18	M8-1.25P	0.32
HSK40ExSKS10-60-HS	60	45	30	40	27.6	M12-1.75P	0.42
HSK40ExSKS16-90-HS	90	59	40	40	-	M18-1.5P	0.68
HSK50ExSKS10-90-HS	90	45	30	40	27.6	M12-1.75P	0.80
HSK50ExSKS10-120-HS	120	75	30	40	27.6	M12-1.75P	1.00
HSK50ExSKS16-90-HS	90	63	40	40	-	M18-1.5P	1.00
HSK50ExSKS16-120-HS	120	93	40	40	-	M18-1.5P	1.20

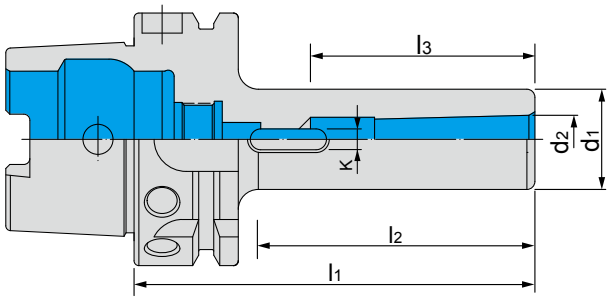
選配表 Option

筒夾 Collet	螺帽 Nut		扳手 Spanner	
B627	B639	B639	B651	B651

• 長度單位 Unit of Length (mm)

HSK/MTA 斜柄鑽頭套筒
HSK/MTA MORSE TAPER ADAPTER(FOR TYPE A)

DIN 69893-A



特點 Feature

- MTA= 榫舌型式本 =DIN 228-B

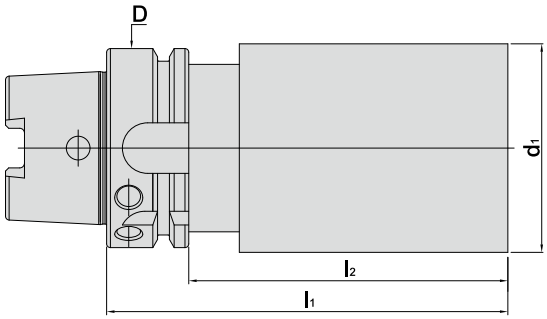
- MTA=TANG TYPE=DIN 228-B

規格 Spec.	l_1	l_2	l_3	d_1	d_2	K	重量 (KGS) Weight
HSK63AxMTA1-100	100	69	56	25	12.065	5.2	1.90
HSK63AxMTA2-120	120	89	67	32	17.78	6.3	1.15
HSK63AxMTA3-140	140	109	84	40	23.825	7.9	2.20
HSK63AxMTA4-160	160	132	107	48	31.267	11.9	1.99
HSK100AxMTA1-110	110	71	56	25	12.065	5.2	3.40
HSK100AxMTA2-120	120	81	67	32	17.78	6.3	3.80
HSK100AxMTA3-150	150	111	84	40	23.825	7.9	4.00
HSK100AxMTA4-170	170	131	107	48	31.267	11.9	4.60
HSK100A-MTA5-200	200	166	135	63	44.399	15.9	5.20

• 長度單位 Unit of Length (mm)

HSK 素材
HSK BLANK

DIN
69893-A



規格 Spec.	l_1	l_2	D	d_1	重量 (KGS) Weight
HSK32A-Ø67-43.8	43.8	23.8	32	67	0.46
HSK63A-Ø64-240	240	224	63	64	-
HSK63A-Ø80-250	250	224	63	80	-
HSK63A-Ø100-150	150	124	63	100	-
HSK100A-Ø97-250	250	221	100	97	-

HSK

HSK 測試棒
HSK TEST BAR

Fig.1

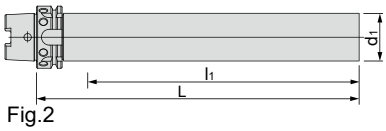
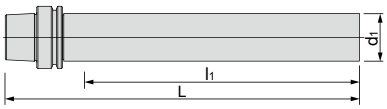
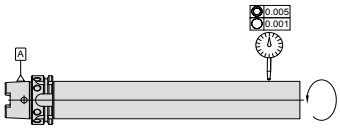


Fig.2

Fig.3

Fig.4





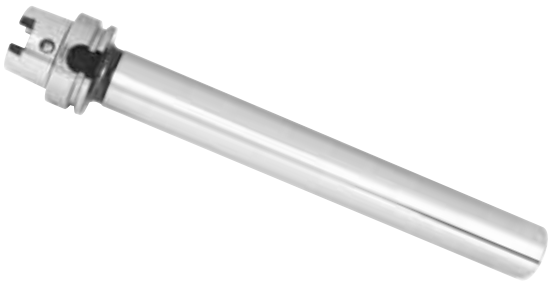
???? Taper Precision	AT2
??? Roundness	0.001mm
????? Surface Roughness	Ra<0.4
??? Concentricity	0.005mm

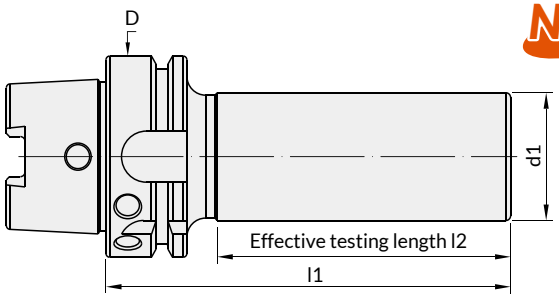
規格 Spec.	L	l_1	d_1	Fig.	重量 (KGS) Weight
HSK40A-TS180L	215	180	32	1	2.86
HSK50A-TS240L	282	240	32	1	-
HSK63A-TS300L	374	300	40	3	3.66
HSK100A-TS300L	395	300	50	3	7.61
HSK25E-TS175L	195	175	20	2	-
HSK32E-TS180L	215	180	20	2	2.38
HSK40E-TS180L	215	180	32	2	2.98
HSK50E-TS240L	282	240	32	2	3.70
HSK63F-TS300L	367	300	40	4	4.48

• 長度單位 Unit of Length (mm)

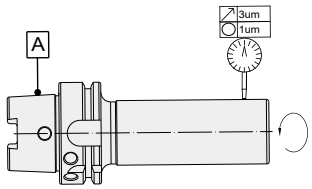
HSK 主軸精密標準棒
HSK SPINDLE MASTER BAR

DIN 69893-A





NEW



錐度精度 Taper Precision	AT2
真圓度 Roundness	1um
表面粗糙度 Surface Roughness	Ra<0.15um
偏擺精度 Runout	3um
圓柱度 Cylindrical	5um

規格 Spec.	l1	l2	d1	重量 (KGS) Weight
HSK40A-TS200L-P	200	170	32	2.86
HSK40A-TS300L-P	300	270	32	1.77
HSK50A-TS240L-P	240	211	32	1.44
HSK50A-TS300L-P	300	274	32	2.83
HSK63A-TS346L-P	346	300	40	3.66
HSK80A-TS200L-P	200	168	50	3.13
HSK80A-TS350L-P	350	318	50	4.83
HSK100A-TS349L-P	349	300	40	7.61
HSK100A-TS350L-P	350	318	50	5.73

HSK 主軸精密標準棒
HSK SPINDLE MASTER BAR

NEW

Fig.1

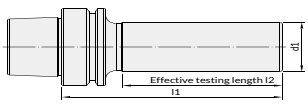
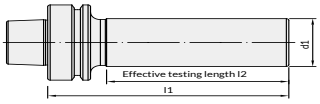
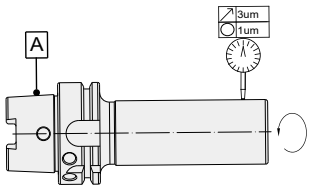


Fig.2





錐度精度 Taper Precision	AT2
真圓度 Roundness	1um
表面粗糙度 Surface Roughness	Ra<0.15um
偏擺精度 Runout	3um
圓柱度 Cylindrical	5um

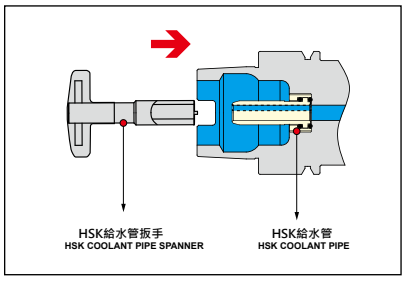
規格 Spec.	l1	l2	d1	Fig.	重量 (KGS) Weight
HSK25E-TS175L-P	175	163	25	1	0.58
HSK32E-TS180L-P	180	158	20	1	0.41
HSK40E-TS180L-P	180	157	32	1	2.98
HSK50E-TS180L-P	180	151	32	1	3.7
HSK63F-TS346L-P	346	300	40	2	4.48

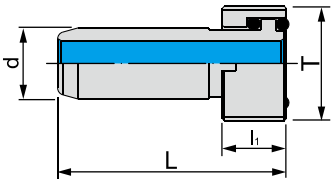
• 長度單位 Unit of Length (mm)

給水管 COOLANT SUPPLY UNIT

DIN 69893-A

範例 Example





特點 Feature

-HSK 刀桿中心出水使用導管

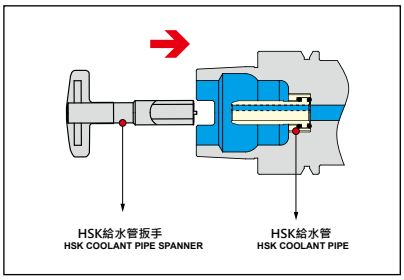
- HSK cutter bar center water leakage use drive pipe.

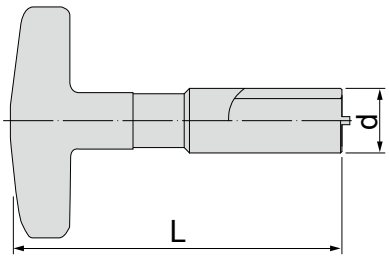
規格 Spec.	L	l_1	d	T	重量 (KGS) Weight
HSK32-CP	26	5.5	6	M10-1.0P	0.01
HSK40-CP	29.3	7.5	8	M12-1.0P	0.01
HSK50-CP	33	9.5	10	M16-1.0P	0.02
HSK63-CP	36.3	11.5	12	M18-1.0P	0.02
HSK100-CP	44	15.5	16	M24-1.5P	0.06

HSK

給水管扳手 KEY FOR COOLANT SUPPLY UNIT

範例 Example





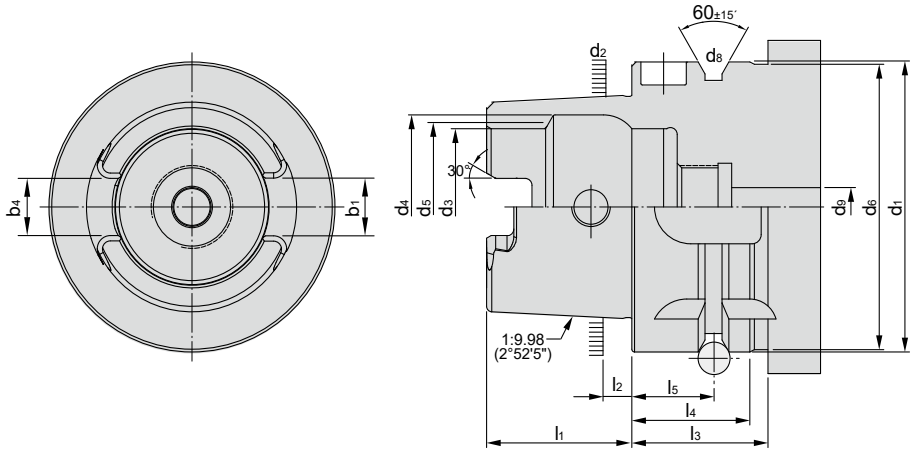
特點 Feature

- HSK 給水管鎖緊扳手

- In HSK cold tube locking spanner.

規格 Spec.	L	d	重量 (KGS) Weight
HSK32-CPW	90	10	0.10
HSK40-CPW	90	13.5	0.12
HSK50-CPW	95	15.5	0.14
HSK63-CPW	100	17.5	0.16
HSK100-CPW	125	23.5	0.32

• 長度單位 Unit of Length (mm)



規格 Spec.	d_1 h10	d_2	d_3 H10	d_4 H11	d_5	d_6 Max.	d_8	d_9 Max.	l_1 0 -0.2	l_2	l_3 Min.	l_4 0 -0.1	l_5 ±0.1	b_1 ±0.04	b_4	
HSK-T32	32	24.007	17	20.5	19	31	4	4.2	16	3.2	23	20	16	7.05	6.932	+0.03 0
HSK-T40	40	30.007	21	25.5	23	39	4	5	20	4	23	20	16	8.05	7.932	+0.03 0
HSK-T50	50	38.009	26	32	29	49	7	6.8	25	5	30	26	18	10.54	10.425	+0.035 0
HSK-T63	63	48.010	34	40	37	62	7	8.4	32	6.3	30	26	18	12.54	12.425	+0.035 0
HSK-T80	80	60.012	42	50	46	79	7	10.2	40	8	30	26	18	16.04	15.93	+0.035 0
HSK-T100	100	75.013	53	63	58	99	7	12	50	10	34	26	20	20.02	19.91	+0.035 0

1. 錐度精度 : <AT3
2. 硬度 : > HRC 56°
3. 滲碳深度 : >0.8mm
4. 真圓度 : < 0.8μm
5. 表面粗糙度 : Ra< 0.25μm
6. 刀桿有預設標準動平衡 G6.3，可另外指定精密動平衡 G2.5
7. 本體規範 : DIN ISO 12164-3:20008

1.Taper tolerance < AT3.
2.Hardness > HRC 56°
3. Carbon depth > 0.8mm.
4.Roundness < 0.8μm.
5.Surface roughness : Ra < 0.25μm.
6.The shank has pre-balance at G6.3,and can provide precision balance at G2.5, made by request.
7.Shank body standard : DIN ISO 12164-3:20008

• 長度單位 Unit of Length (mm)

鎖固方式Clamp mechanism			
A	Back clamp system	M	Multi-clamp system
C	Clamp-on system	P	Pin lock system
D	Double clamp system	S	Screw-on system
E	Off-set pin system	T	Taper lock system
JS	Screw-on system	W	Wedge-on system
JT	Back clamp system		

離隙角 Insert clearance	
A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°

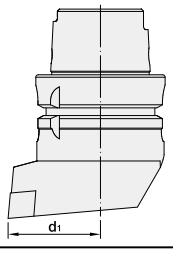
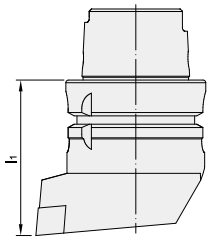
刀具長度 Insert edge length					
Insert inscribed circle	6.35	7.94	9.525	12.00	12.70
80°	06	08	09	-	12
55°	07	-	11	-	15
35°	11	-	16	-	-
	-	-	-	12	-
	11	13	16	-	22
	-	-	09	-	12

HSK - T63 – M C L N R – 45 065 – 12

刀片形狀 Insert geometry		
C		80°
D		55°
K		55°
R		
S		
T		
V		35°
W		80°
L		
H		120°
A		85°
B		82°
E		75°
M		86°
O		135°
P		108°

進刀角度 Cutting edge gemoetry			
90° A	75° B	90° C	45° D
60° E	90° F	90° G	107.5° H
93° J	75° K	95° 95° L	50° M
63° N	117.5° P	75° R	45° S
60° T	93° U	72.5° V	60° W
85° Y			

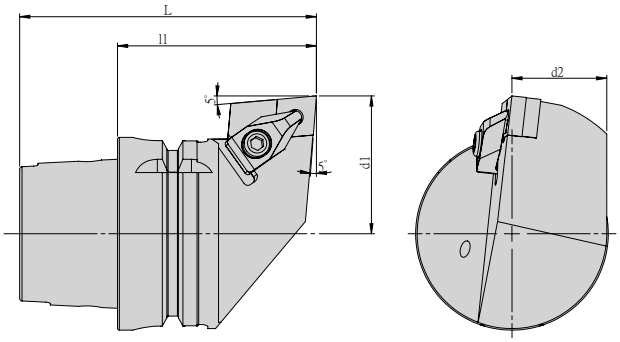
切削方向 Hand	
R	
L	
N	

d1尺寸 d_1 Dimension	刀具尺寸 Tool length, metric
	

HSK-T

• 長度單位 Unit of Length (mm)

DCLN 外徑車刀
DCLN EXTERNAL TURNING TOOL

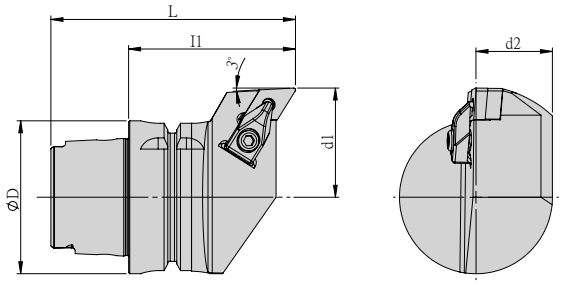


規格 Spec.	L	l_1	d_1	d_2	刀片 Insert	重量 (KGS) Weight
HSK-T63-DCLNR-45065-12	97	65	45	31	CN..1204	1.26
HSK-T63-DCLNL-45065-12	97	65	45	31	CN..1204	1.26

配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
CN..1204	CNS1204	M4-10-5.7-60	T15	3.0	DCP-2	M5-20-4.9	PL4	5.0

DDJN 外徑車刀
DDJN EXTERNAL TURNING TOOL



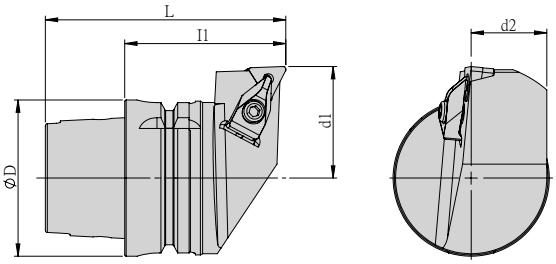
規格 Spec.	L	l_1	d_1	d_2	刀片 Insert	重量 (KGS) Weight
HSK-T63-DDJNR-45075-15	107	75	45	31	DN..1504	1.38
HSK-T63-DDJNL-45075-15	107	75	45	31	DN..1504	1.38

配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
DN..1504	DNS1504	-	-	-	DCP-2	M5-20-4.9	PL4	5.0

• 長度單位 Unit of Length (mm)

DTJN 外徑車刀
DTJN EXTERNAL TURNING TOOL

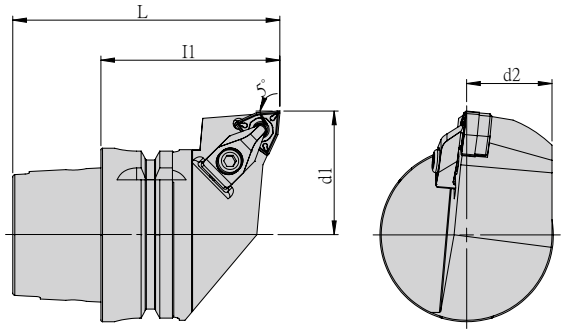


規格 Spec.	L	l_1	d_1	d_2	刀片 Insert	重量 (KGS) Weight
HSK-T63-DTJNR-45065-16	97	65	45	31	TN..1604	1.27
HSK-T63-DTJNL-45065-16	97	65	45	31	TN..1604	1.27

配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
TN..1604	TNS1604	M4-9-5.15-47	T15	3.0	DCP-1	M5-20-4.9	PL4	5.0

DWLN 外徑車刀
DWLN EXTERNAL TURNING TOOL



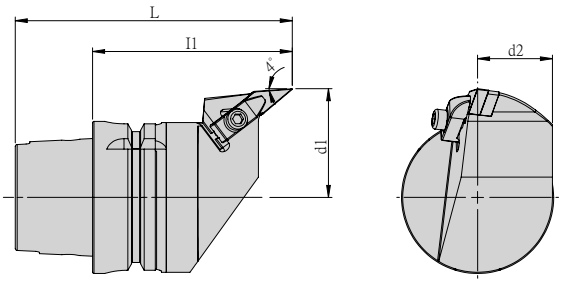
規格 Spec.	L	l_1	d_1	d_2	刀片 Insert	重量 (KGS) Weight
HSK-T63-DWLNR-45065-08	97	65	45	31	WN..0804	1.22
HSK-T63-DWLNL-45065-08	97	65	45	31	WN..0804	1.22

配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
WN..0804	WNS0804	M5-12-7.3-60	T20	5.0	DCP-2	M5-20-4.9	PL4	5.0

• 長度單位 Unit of Length (mm)

DVLN 外徑車刀
DVLN EXTERNAL TURNING TOOL

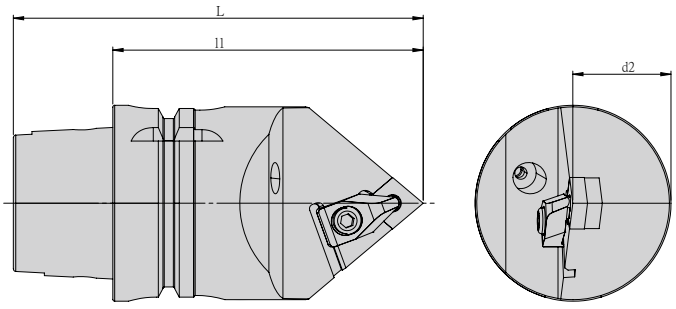


規格 Spec.	L	l_1	d_1	d_2	刀片 Insert	重量 (KGS) Weight
HSK-T63-DVLNR-45075-16	107	75	45	31	VN..1604	1.30
HSK-T63-DVLNL-45075-16	107	75	45	31	VN..1604	1.30

配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
VN..1604	VNS1604	-	-	-	DCP-4	M5-20-4.9	PL4	5.0

DCMN 外徑車刀
DCMN EXTERNAL TURNING TOOL



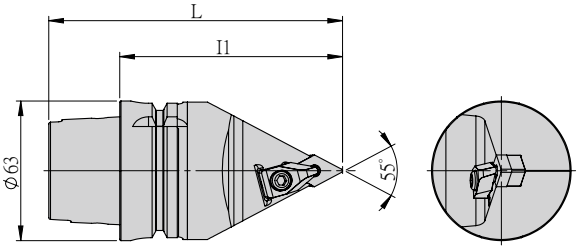
規格 Spec.	L	l_1	刀片 Insert	重量 (KGS) Weight
HSK-T63-DCMNN-00100-12	132	100	CN..1204	1.68
HSK-T63-DCMNN-00140-12	172	140	CN..1204	1.68

配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
CN..1204	CNS1204	M4-10-5.7-60	T15	3.0	DCP-2	M5-20-4.9	PL4	5.0

• 長度單位 Unit of Length (mm)

DDNN 外徑車刀
DDNN EXTERNAL TURNING TOOL

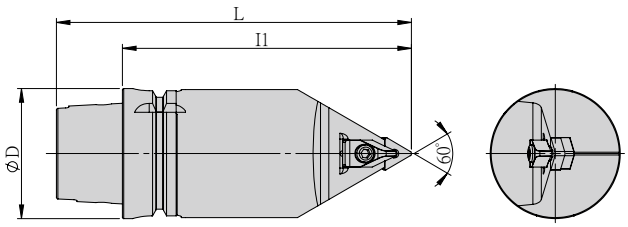


規格 Spec.	L	l_1	D	刀片 Insert	重量 (KGS) Weight
HSK-T63-DDNNN-00100-15	132	100	63	DN..1504	1.55
HSK-T63-DDNNN-00140-15	172	140	63	DN..1504	1.55

配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
DN..1504	DNS1504	-	-	-	DCP-2	M5-20-4.9	PL4	5.0

DTEN 外徑車刀
DTEN EXTERNAL TURNING TOOL



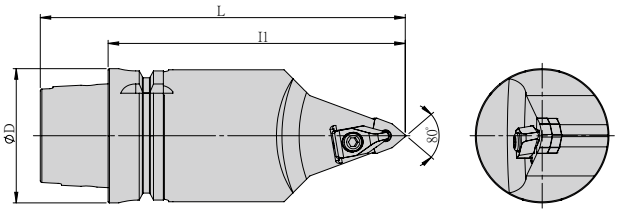
規格 Spec.	L	l_1	D	刀片 Insert	重量 (KGS) Weight
HSK-T63-DTENN-00100-16	132	100	63	TN..1604	1.62
HSK-T63-DTENN-00140-16	172	140	63	TN..1604	1.62

配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
TN..1604	TNS1604	M4-9-5.15-47	T15	3.0	DCP-1	M5-20-4.9	PL4	5.0

• 長度單位 Unit of Length (mm)

DWMN 外徑車刀
DWMN EXTERNAL TURNING TOOL

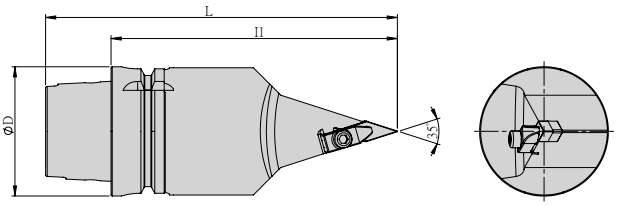


規格 Spec.	L	l_1	D	刀片 Insert	重量 (KGS) Weight
HSK-T63-DWMNN-00100-08	132	100	63	WN..0804	1.48
HSK-T63-DWMNN-00140-08	172	140	63	WN..0804	1.48

配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
WN..0804	WNS0804	M5-12-7.3-60	T20	5.0	DCP-2	M5-20-4.9	PL4	5.0

DVVN 外徑車刀
DVVN EXTERNAL TURNING TOOL



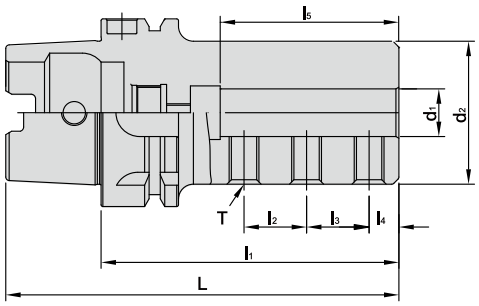
規格 Spec.	L	l_1	D	刀片 Insert	重量 (KGS) Weight
HSK-T63-DVVNN-00100-16	132	100	63	VN..1604	1.40
HSK-T63-DVVNN-00140-16	172	140	63	VN..1604	1.40

配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
VN..1604	VNS1604	-	-	-	DCP-4	M5-20-4.9	PL4	5.0

• 長度單位 Unit of Length (mm)

SLT 側固式刀柄
SIDE LOCK INTERNAL TURNING BAR



規格 Spec.	L	l_1	l_2	l_3	l_4	l_5	d_1	d_2	T	重量 (KGS) Weight
HSK-T63-SLT8-70	102	70	10	10	6	32	8	28	M6	0.93
HSK-T63-SLT10-80	112	80	12	12	8	40	10	35	M8	1.10
HSK-T63-SLT12-90	122	90	16	16	8	45	12	42	M8	1.36
HSK-T63-SLT16-100	132	100	21	21	10	60	16	48	M10	1.60
HSK-T63-SLT20-120	152	120	20	20	12	60	20	52	M10	2.03
HSK-T63-SLT25-140	172	140	23	23	14	67	25	56	M12	2.52
HSK-T63-SLT32-160	192	160	26	26	16	74	32	64	M12	3.34

Fig.1

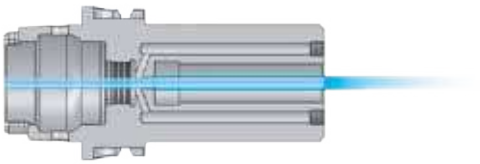
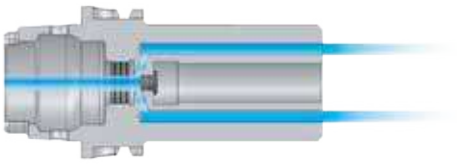


Fig.2



刀具中心出水螺絲 Screw For Coolant Outlet From Tool Holder

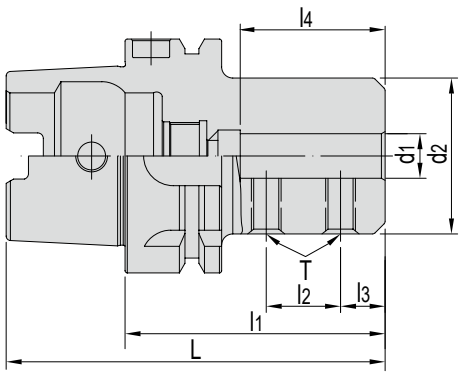
規格 Spec.	適用規格 Applicable Spec.	T	Fig.	重量 (KGS) Weight
B06-01M4-0.7P-503	SLT8	M4-0.7P	1	-
B06-01M5-0.5P-503	SLT10	M5-0.8P		-
B06-01M6-1.0P-603	SLT12	M6-1.0P		-
	SLT16			-
	SLT20			-
B06-01M8-1.25P-603	SLT25	M8-1.25P		-
	SLT32			-

刀具中心出水螺絲 Screw For Coolant Outlet From Tool Holder

規格 Spec.	適用規格 Applicable Spec.	T	Fig.	重量 (KGS) Weight
C-EBSS6-8	SLT8	M6-1.0P	2	-
	SLT10			-
	SLT12			-
	SLT16			-
	SLT20			-
	SLT25			-
	SLT32			-

• 長度單位 Unit of Length (mm)

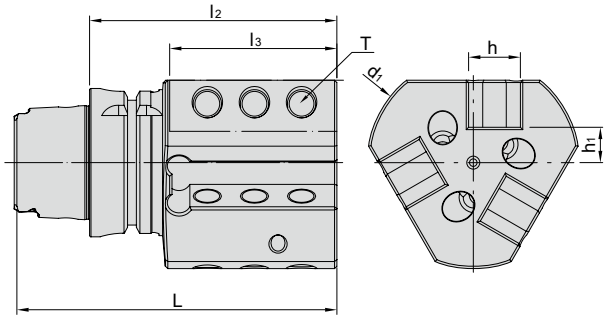
SLD 側固式鑽頭用刀柄
SIDE LOCK HIGH SPEED DRILL



規格 Spec.	L	l_1	l_2	l_3	l_4	d_1	d_2	T	重量 (KGS) Weight
HSK-T63-SLD8-65	97	65	18	10	34	8	28	M8	0.84
HSK-T63-SLD10-70	102	70	20	12	39	10	35	M8	0.97
HSK-T63-SLD12-70	102	70	20	12	39	12	42	M8	1.10
HSK-T63-SLD16-75	107	75	20	15	44	16	48	M10	1.26
HSK-T63-SLD20-75	104	75	20	15	44	20	52	M10	1.34
HSK-T63-SLD25-85	117	85	23	17	52	25	62	M12	1.79
HSK-T63-SLD32-90	122	90	27	17	56	32	62	M12	1.74
HSK-T63-SLD40-100	132	100	28	22	62	40	68	M16	2.00

HSK-T

SV 外徑車刀架
EXTERNAL TURNING TOOL

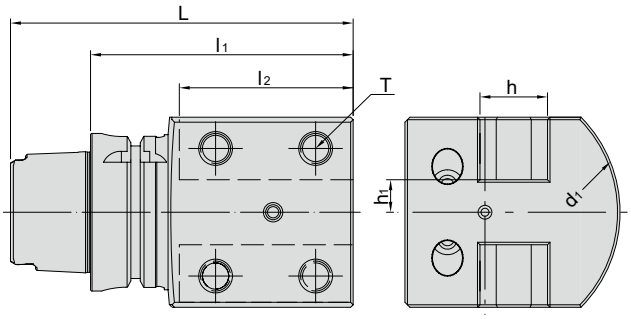


規格 Spec.	L	l_2	l_3	d_1	h	h_1	T	重量 (KGS) Weight
HSK-T63-SV20R-105	137	105	70	90	20	15	M12-1.75P	2.72
HSK-T63-SV20L-105	137	105	70	90	20	15	M12-1.75P	2.72

TAP

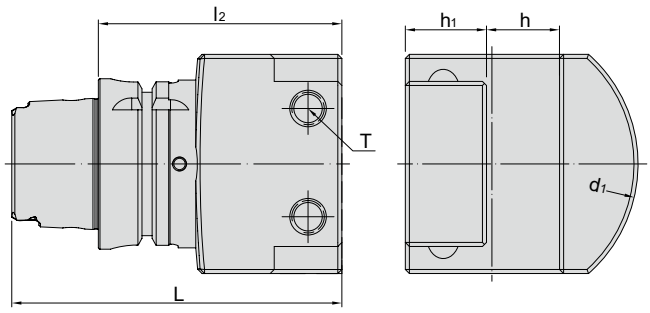
• 長度單位 Unit of Length (mm)

SB 外徑車刀架
EXTERNAL TURNING TOOL



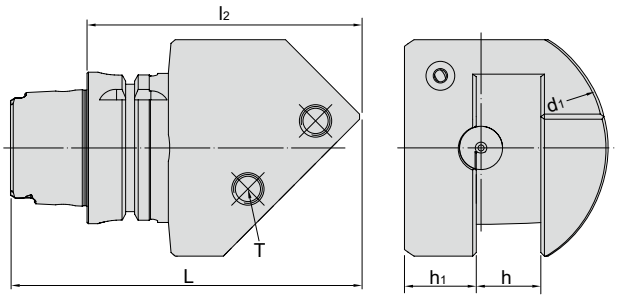
規格 Spec.	L	l1	l2	h	h1	d1	T	重量 (KGS) Weight
HSK-T63-SB25R-105	137	105	70	25	13	54	M12-1.75P	2.98

SF 外徑車刀架
EXTERNAL TURNING TOOL



規格 Spec.	L	l2	h	h1	d1	T	重量 (KGS) Weight
HSK-T63-SF25-90	122	90	25	30	54	M12-1.75P	3.05
HSK-T63-SF25-120	152	120	25	30	54	M12-1.75P	3.99

SN 外徑車刀架
EXTERNAL TURNING TOOL

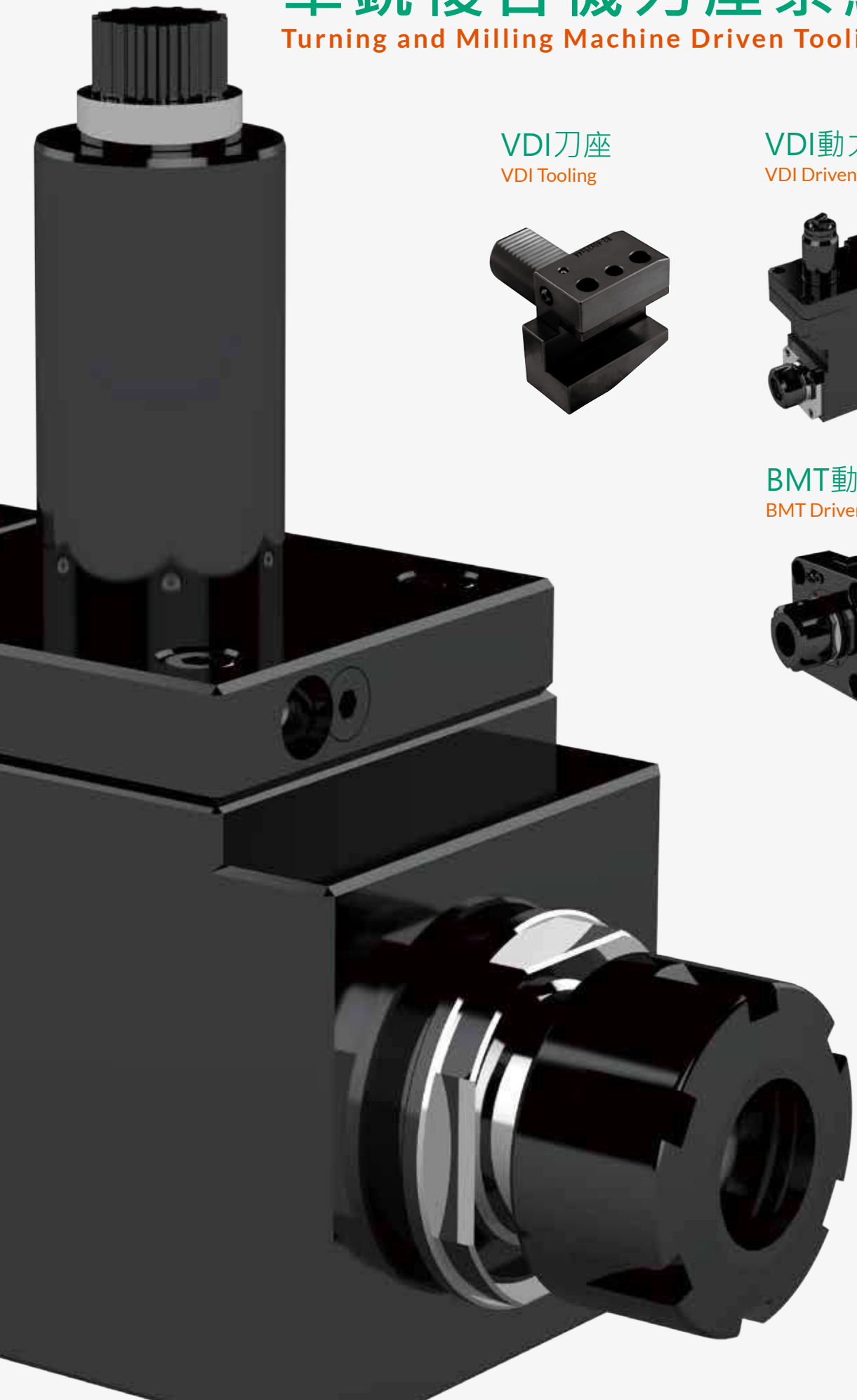


規格 Spec.	L	l2	d1	h	h1	T	重量 (KGS) Weight
HSK-T63-SN25R-115	147	115	53	25	30	M12-1.75P	3.40
HSK-T63-SN25L-115	147	115	53	25	30	M12-1.75P	3.40

• 長度單位 Unit of Length (mm)

車銑複合機刀座系統

Turning and Milling Machine Driven Tooling System



VDI刀座
VDI Tooling

VDI動力刀座
VDI Driven Tooling

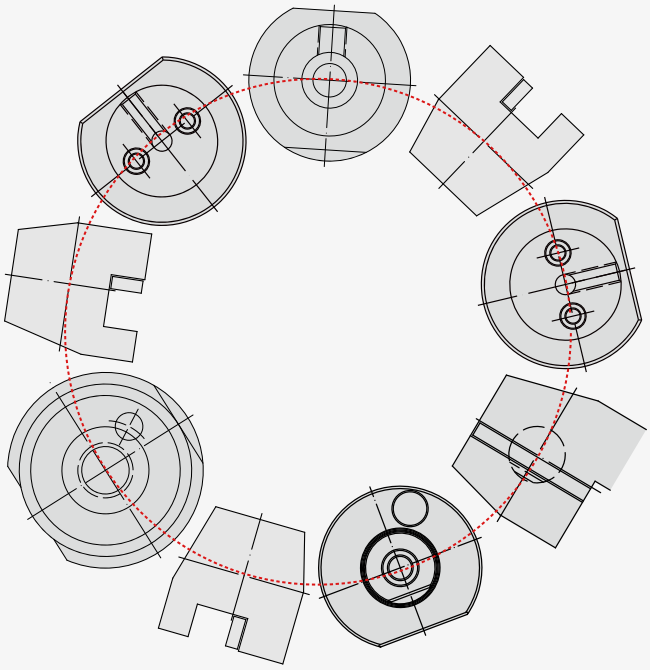
BMT動力刀座
BMT Driven Tooling

車銑複合機

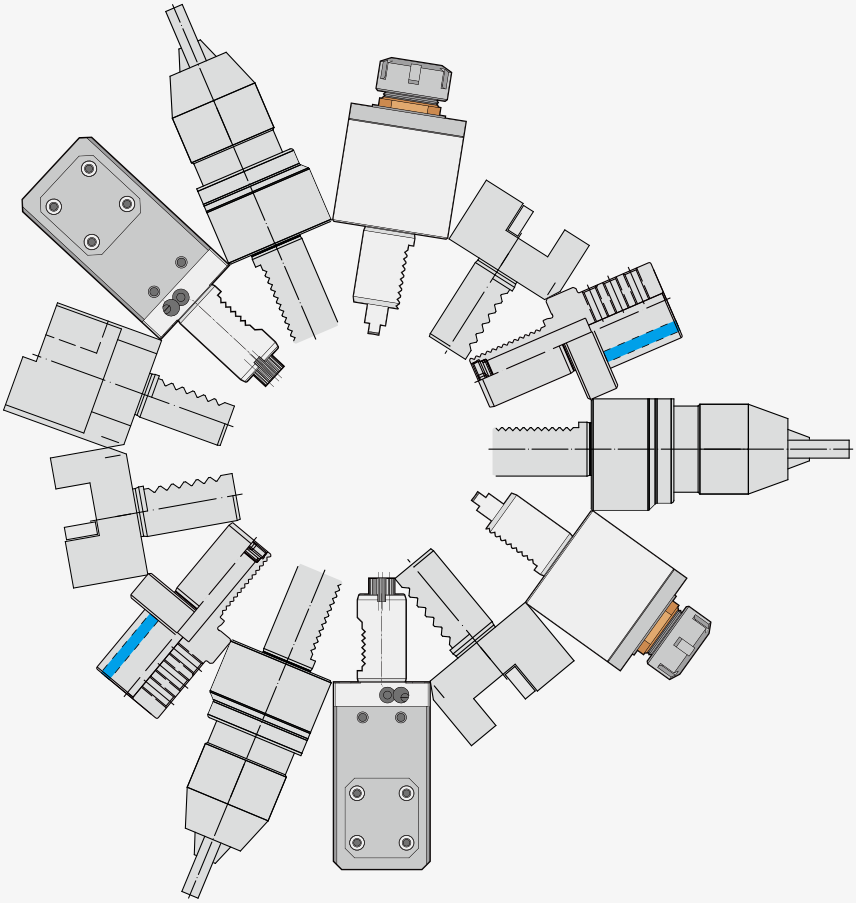
Turning and Milling Machine(DIN 69880 系列)

依入刀方向
Insert Toolholder into Turret Direction

軸向入刀
(axial),(axial turret)



徑向入刀
(radial),(radial turret)



VDI 動力刀座系列
Driven Tooling System

- 研磨級齒輪-高精度、低噪音 、低溫升
- 提供客製化服務

- Grinding gears - high precision, low noise, low temperature rise.
- Provide customized service.

傳動方式
Driven Method

-DIN1809

-DIN5480

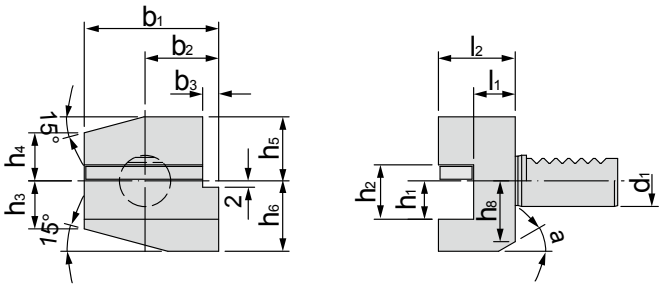
-DIN5482

-TOME

外徑刀座
TURNING TOOL HOLDER

DIN ISO 10889-3

DIN ISO 10889



特點 Feature

- 徑向 - 右撇
- 短刀架
- 附出水孔

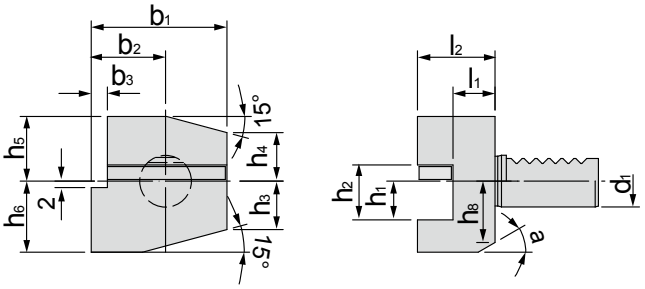
-Radial – right handed
-Short tool holder.
-With coolant hole.

規格 Spec.	尺寸 Size d1 x h2 x l2	d_1	b_1	b_2	b_3	h_1	h_2	h_3	h_4	h_5	h_6	h_8	l_1	l_2	a	重量 (KGS) Weight
150.B1.30.20.40	30 x 20 x 40	30	70	35	10	20	29	26	22	28	38	30	22	40	25°	1.38
150.B1.30.20.60	30 x 20 x 60	30	70	35	10	20	29	26	22	28	38	30	42	60	25°	2.02
150.B1.40.25.44	40 x 25 x 44	40	85	42.5	12.5	25	34	35	30	32.5	48	-	22	44	-	2.36
150.B1.50.32.55	50 x 32 x 55	50	100	50	16	32	41	42	35	35	60	-	30	55	-	4.14

VDI

外徑刀座
TURNING TOOL HOLDER

DIN ISO 10889-3



特點 Feature

- 徑向 - 左撇
- 短刀架
- 附出水孔

-Radial – Left handed
-Short tool holder.
-With coolant hole

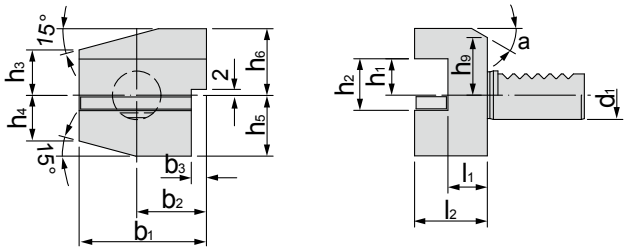
規格 Spec.	尺寸 Size d1 x h2 x l2	d_1	b_1	b_2	b_3	h_1	h_2	h_3	h_4	h_5	h_6	h_8	l_1	l_2	a	重量 (KGS) Weight
150.B2.30.20.40	30 x 20 x 40	30	70	35	10	20	29	26	22	28	38	30	22	40	25°	1.40
150.B2.30.20.60	30 x 20 x 60	30	70	35	10	20	29	26	22	28	38	30	42	60	25°	2.02
150.B2.40.25.44	40 x 25 x 44	40	85	42.5	12.5	25	34	35	30	32.5	48	-	22	44	-	2.38
150.B2.50.32.55	50 x 32 x 55	50	100	50	16	32	41	42	35	35	60	-	30	55	-	-

• 長度單位 Unit of Length (mm)

外徑刀座
TURNING TOOL HOLDER

DIN ISO 10889-3

DIN ISO 10889



特點 Feature

- 徑向 - 右撇
- 短刀架
- 刀片向下
- 附出水孔

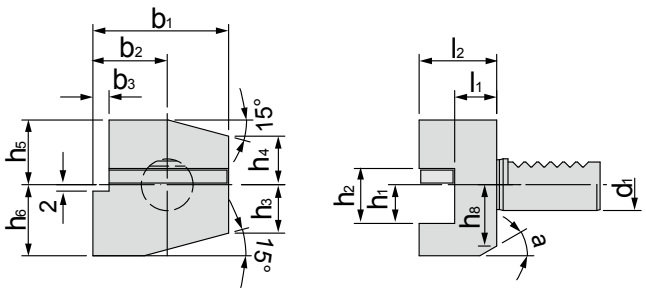
- Radial – right handed
- Short tool holder.
- Turning insert downwards.
- With coolant hole.

規格 Spec.	尺寸 Size d_1 X h_1 X l_2	d_1	b_1	b_2	b_3	h_1	h_2	h_3	h_4	h_6	h_7	h_8	l_1	l_2	a	重量 (KGS) Weight
150.B3.30.20.40	30 x 20 x 40	30	70	35	10	20	29	26	22	38	35	28	22	40	25°	1.42
150.B3.30.20.60	30 x 20 x 60	30	70	35	10	20	29	26	22	38	35	28	42	60	25°	2.1
150.B3.40.25.44	40 x 25 x 44	40	85	42.5	12.5	25	34	35	30	48	42.5	-	22	44	-	2.52
150.B3.50.32.55	50 x 32 x 55	50	100	50	16	32	41	42	35	60	50	-	30	55	-	-

VDI

外徑刀座
TURNING TOOL HOLDER

DIN ISO 10889-3



特點 Feature

- 徑向 - 左撇
- 短刀架
- 刀片向下
- 附出水孔

- Radial – left handed
- Short tool holder.
- Turning insert downwards.
- With coolant hole.

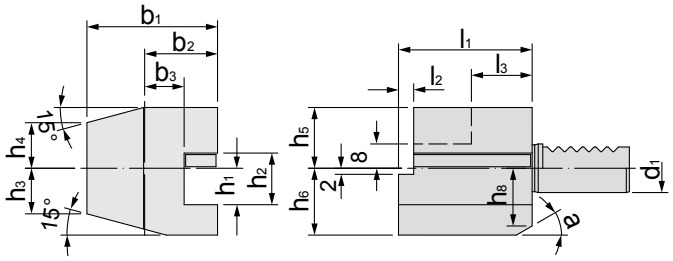
規格 Spec.	尺寸 Size d_1 x h_1 x l_2	d_1	b_1	b_2	b_3	h_1	h_2	h_3	h_4	h_6	h_7	h_8	l_1	l_2	a	重量 (KGS) Weight
150.B4.30.20.40	30 x 20 x 40	30	70	35	10	20	29	26	22	38	35	28	22	40	25°	-
150.B4.30.20.60	30 x 20 x 60	30	70	35	10	20	29	26	22	38	35	28	42	60	25°	-
150.B4.40.25.44	40 x 25 x 44	40	85	42.5	12.5	25	34	35	30	48	42.5	-	22	44	-	2.52
150.B4.50.32.55	50 x 32 x 55	50	100	50	16	32	41	42	35	60	50	-	30	55	-	-

• 長度單位 Unit of Length (mm)

端面刀座
FACE TURNING TOOL HOLDER

DIN ISO 10889-4

DIN ISO 10889



特點 Feature

- 軸向 - 右撇
- 短刀架
- 附出水孔

- Axial – right handed
- Short tool holder.
-With coolant hole.

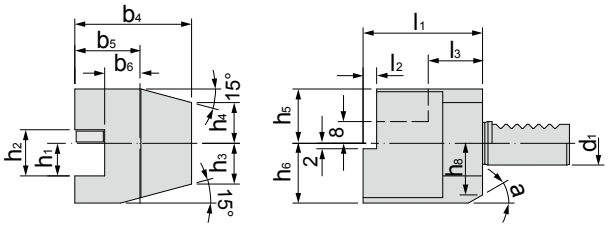
規格 Spec.	尺寸 Size d1 X h1	d1	b1	b2	b3	h1	h2	h3	h4	h5	h6	h8	l1	l2	l3	a	重量 (KGS) Weight
150.C1.30.20	30 x 20	30	70	35	17	20	29	26	22	28	38	30	70	10	30	25°	1.90
150.C1.40.25	40 x 25	40	85	42.5	21	25	34	35	30	32.5	48	-	85	12.5	30	-	3.38
150.C1.50.32	50 x 32	50	100	50	26	32	41	42	35	35	60	-	100	16	40	-	-

VDI

CHAIN HEADWAY

端面刀座
FACE TURNING TOOL HOLDER

DIN ISO 10889-4



特點 Feature

- 軸向 - 左撇
- 短刀架
- 附出水孔

- Axial – left handed
- Short tool holder.
- With coolant hole.

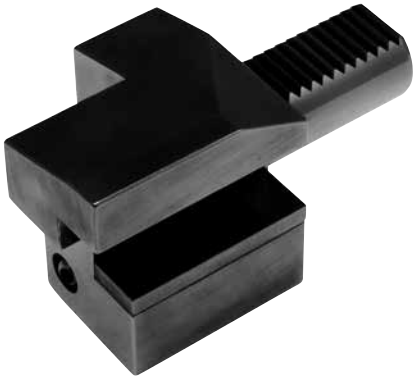
規格 Spec.	尺寸 Size d1 X h1	d1	b4	b5	b6	h1	h2	h3	h4	h5	h6	h8	l1	l2	l3	a	重量 (KGS) Weight
150.C2.30.20	30 x 20	30	76	41	23	20	29	26	22	28	38	30	70	10	30	25°	2.06
150.C2.40.25	40 x 25	40	90	47.5	25.5	25	34	35	30	32.5	48	-	85	12.5	30	-	3.64
150.C2.50.32	50 x 32	50	105	55	30.5	32	41	42	35	35	60	-	100	16	40	-	-

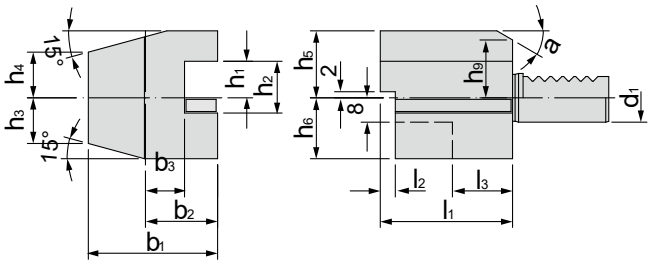
• 長度單位 Unit of Length (mm)

端面刀座
FACE TURNING TOOL HOLDER

DIN ISO 10889-4

DIN ISO 10889





特點 Feature

- 軸向 - 右撇
- 短刀架
- 刀片向下
- 附出水孔

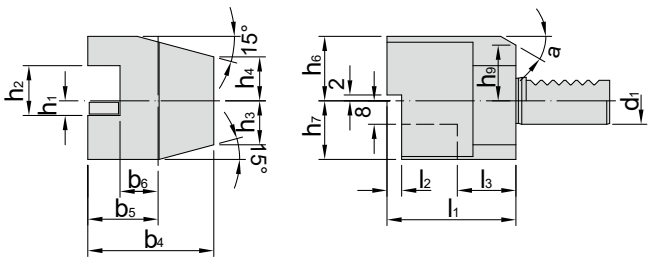
- Axial – right handed
- Short tool holder.
- Turning insert downwards.
- With coolant hole.

規格 Spec.	尺寸 Size d_1 X h_1	d_1	b_1	b_2	b_3	h_1	h_2	h_3	h_4	h_6	h_7	h_9	l_1	l_2	l_3	a	重量 (KGS) Weight
150.C3.30.20	30 x 20	30	70	35	17	20	29	26	22	28	35	28	70	10	30	25°	1.96
150.C3.40.25	40 x 25	40	85	42.5	21	25	34	35	30	48	42.5	-	85	12.5	30	-	3.54
150.C3.50.32	50 x 32	50	100	50	26	32	41	42	35	60	50	-	100	16	40	-	-

VDI

端面刀座
FACE TURNING TOOL HOLDER

DIN ISO 10889-4



特點 Feature

- 軸向 - 左撇
- 短刀架
- 刀片向下
- 附出水孔

- Axial – left handed
- Short tool holder.
- Turning insert downwards.
- With coolant hole.

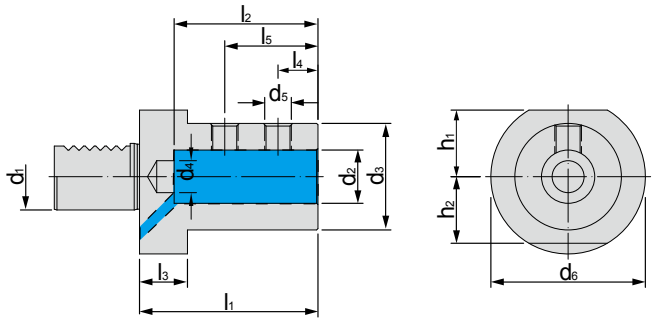
規格 Spec.	尺寸 Size d_1 X h_1	d_1	b_4	b_5	b_6	h_1	h_2	h_3	h_4	h_6	h_7	h_9	l_1	l_2	l_3	a	重量 (KGS) Weight
150.C4.30.20	30 x 20	30	76	41	23	20	29	26	22	38	35	28	70	10	30	25°	2.2
150.C4.40.25	40 x 25	40	90	47.5	25.5	25	34	35	30	48	42.5	-	85	12.5	30	-	3.86
150.C4.50.32	50 x 32	50	105	55	30.5	32	41	42	35	60	50	-	100	16	40	-	-

• 長度單位 Unit of Length (mm)

內孔搪刀座
FACE TURNING TOOL HOLDER

DIN ISO 10889-5

DIN ISO 10889



特點 Feature

- 內徑公差：H5
- 中心出水

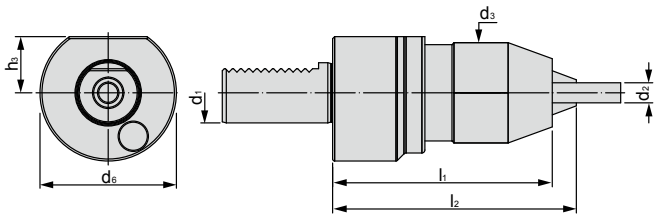
- Tolerance of internal hole: H5.
- With center coolant.

規格 Spec.	尺寸 Size d1 X d2	d1	d2	d3	d4	d5	d6	h1	h2	l1	l2	l3	l4	l5	重量 (KGS) Weight
150.E1.30.20	30 x 20	30	20	40	12	M10-1	68	28	30	67	54	22	15	35	1.28
150.E1.30.25	30 x 25	30	25	45	17	M12-1	68	28	30	71	59	22	17	40	1.34
150.E1.30.32	30 x 32	30	32	52	24	M12-1	68	28	30	75	63	22	17	44	1.43
150.E1.30.40	30 x 40	30	40	65	24	M16-1	68	28	30	90	73	22	22	50	-
150.E1.40.18	40 x 18	40	18	40	12	M10-1	83	32.5	-	67	54	22	15	35	-
150.E1.40.20	40 x 20	40	20	40	12	M10-1	83	32.5	-	67	54	22	15	35	1.84
150.E1.40.25	40 x 25	40	25	45	17	M12-1	83	32.5	-	75	59	22	17	40	1.98
150.E1.40.32	40 x 32	40	32	52	24	M12-1	83	32.5	-	75	63	22	17	44	1.98
150.E1.40.40	40 x 40	40	40	65	24	M16-1	83	32.5	-	90	73	22	22	50	2.58
150.E1.40.50	40 x 50	40	50	75	32	M16-1	83	32.5	-	100	83	22	24	60	3.54
150.E1.50.20	50 x 20	50	20	40	12	M10-1	98	35	-	67	54	30	15	35	-
150.E1.50.25	50 x 25	50	25	45	17	M12-1	98	35	-	80	59	30	17	40	-
150.E1.50.32	50 x 32	50	32	52	24	M12-1	98	35	-	80	63	30	17	44	-
150.E1.50.40	50 x 40	50	40	65	32	M16-1	98	35	-	90	73	30	22	50	-
150.E1.50.50	50 x 50	50	50	75	42	M16-1	98	35	-	100	83	30	24	60	-

VDI

VDI 車刀架
VDI DRILLING CHUCK

TYPE SPU



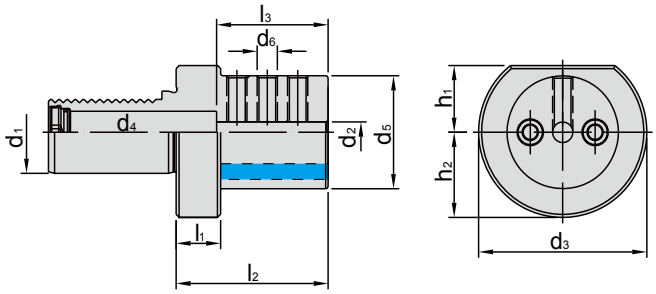
規格 Spec.	尺寸 Size	d1	d2	d3	d6	h3	l1	l2	重量 (KGS) Weight
150.30.669.08	30-SPU8	30	0.5-8	36	68	28	68	71	-
150.30.669.13	30-SPU13	30	1-13	50	68	28	90	96	2.32
150.30.669.16	30-SPU16	30	3-16	57	68	28	90	101	2.46
150.40.669.08	40-SPU8	40	0.5-8	36	83	32.5	68	71	1.84
150.40.669.13	40-SPU13	40	1-13	50	83	32.5	90	96	2.46
150.40.669.16	40-SPU16	40	3-16	57	83	32.5	90	101	3.12
150.50.669.13	50-SPU13	50	1-13	57	98	35	90	96	-
150.50.669.16	50-SPU16	50	3-16	57	98	35	90	101	-

• 長度單位 Unit of Length (mm)

內孔搪刀座
FACE TURNING TOOL HOLDER

DIN ISO 10889-6

DIN ISO 10889



特點 Feature

- 內徑公差：H5
- 中心出水

- Tolerance of internal hole: H5.
- With center coolant.

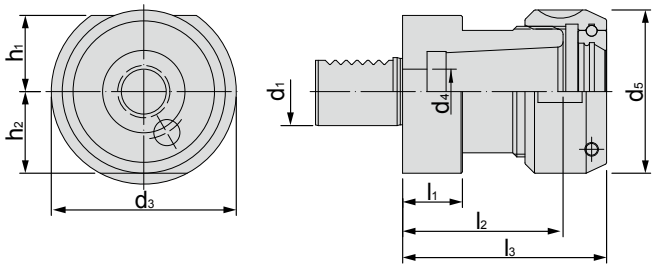
規格 Spec.	尺寸 Size d_1 X d_2	d_1	d_2	d_3	d_4	d_5	d_6	h_1	h_2	l_1	l_2	l_3	重量 (KGS) Weight
150.E2.30.08	30 x 8	30	8	68	6	55	M6	28	30	22	60	51	1.60
150.E2.30.10	30 x 10	30	10	68	8	55	M6	28	30	22	60	51	1.59
150.E2.30.12	30 x 12	30	12	68	10	55	M8	28	30	22	60	51	1.57
150.E2.30.14	30 x 14	30	14	68	10	55	M8	28	30	22	60	52	1.82
150.E2.30.16	30 x 16	30	16	68	12	55	M8	28	30	22	60	51	1.48
150.E2.30.18	30 x 18	30	18	68	10	55	M8	28	30	22	60	52	-
150.E2.30.20	30 x 20	30	20	68	16	55	M8	28	30	22	60	51	1.44
150.E2.30.25	30 x 25	30	25	68	16	55	M8	28	30	22	60	51	1.36
150.E2.30.32	30 x 32	30	32	68	16	68	M8	28	30	22	75	51	1.88
150.E2.40.10	40 x 10	40	10	83	8	55	M10	32.5	-	22	75	67	-
150.E2.40.12	40 x 12	40	12	83	10	55	M10	32.5	-	22	75	61	2.44
150.E2.40.14	40 x 14	40	14	83	10	55	M8	32.5	-	22	75	63	-
150.E2.40.16	40 x 16	40	16	83	12	55	M10	32.5	-	22	75	61	2.30
150.E2.40.18	40 x 18	40	18	83	10	55	M8	32.5	-	22	75	62	-
150.E2.40.20	40 x 20	40	20	83	16	55	M10	32.5	-	22	75	61	2.25
150.E2.40.25	40 x 25	40	25	83	20.5	55	M10	32.5	-	22	75	61	2.23
150.E2.40.32	40 x 32	40	32	83	20.5	83	M10	32.5	-	22	75	61	3.20
150.E2.40.40	40 x 40	40	40	83	20.5	83	M10	32.5	-	22	90	76	3.64
150.E2.40.50	40 x 50	40	50	83	20.5	83	M12	32.5	-	22	75	75	1.86
150.E2.50.12	50 x 12	50	12	98	10	68	M8	35	-	30	90	76	-
150.E2.50.16	50 x 16	50	16	98	12	68	M10	35	-	30	90	76	-
150.E2.50.20	50 x 20	50	20	98	16	68	M12	35	-	30	90	76	-
150.E2.50.25	50 x 25	50	25	98	20	68	M12	35	-	30	90	76	-
150.E2.50.32	50 x 32	50	32	98	25	68	M12	35	-	30	90	76	-
150.E2.50.40	50 x 40	50	40	98	25	98	M12	35	-	30	90	76	-
150.E2.50.50	50 x 50	50	50	98	25	98	M12	35	-	30	100	86	5.24

• 長度單位 Unit of Length (mm)

EOC 套筒式刀座
EOC COLLET CHUCK HOLDER FOR EOC COLLET

DIN ISO 10889-6

DIN ISO 10889

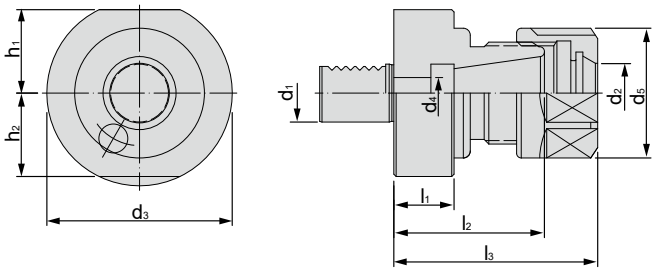


規格 Spec.	尺寸 Size	d_1	d_3	d_4 min	d_5	h_1	h_2	l_1	l_2	l_3	重量 (KGS) Weight
150.E3.30.25	30 x EOC25	30	68	16.5	60	28	30	22	59	75	-
150.E3.40.25	40 x EOC25	40	83	20.5	60	32.5	-	22	59	75	-
150.E3.40.32	40 x EOC32	40	83	20.5	72	32.5	-	22	73	90	2.6
150.E3.50.25	50 x EOC25	50	98	25.5	60	35	-	30	59	75	-
150.E3.50.32	50 x EOC32	50	98	25.5	72	35	-	30	73	90	-

ER 套筒式刀座
ER COLLET CHUCK HOLDER FOR ER COLLET

DIN ISO 10889-6
DIN ISO 15488

VDI



特點 Feature

- 搭配 DIN-15488 系列彈性筒夾，可夾持各直柄刀具
- 使用包固得螺帽提高剛性
- 無風阻螺帽搭配使用，夾持力大、穩定性與精度提高

- It can match with ER Spring Collet (DIN-15488 standard) and can clamp all kinds of straight shank tools.
- Rigidity can be raised by using ER Power Good Clamping Nut.
- Matching with non wind resistance nut can raise clamping power, stability and precision.

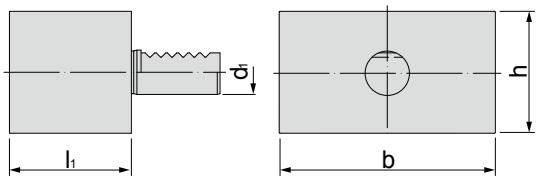
規格 Spec.	尺寸 Size	d_1	d_2 ER	d_3	d_4 min	d_5	h_1	h_2	l_1	l_2	l_3	重量 (KGS) Weight
150.E4.30.25	30 x ER25	30	25	68	16.5	42	28	30	22	45	57	1.08
150.E4.30.32	30 x ER32	30	32	68	16.5	50	28	30	22	49	62	-
150.E4.30.40	30 x ER40	30	40	68	16.5	63	28	30	22	56	70	-
150.E4.40.25	40 x ER25	40	25	83	20.5	42	32.5	-	22	45	57	1.66
150.E4.40.32	40 x ER32	40	32	83	20.5	50	32.5	-	22	49.5	62	1.77
150.E4.40.40	40 x ER40	40	40	83	20.5	63	32.5	-	22	61	75	2.10
150.E4.50.40	50 x ER40	50	40	98	20.5	63	35	-	30	61	75	-

• 長度單位 Unit of Length (mm)

VDI 素材
VDI BLANK

DIN ISO 10889-2

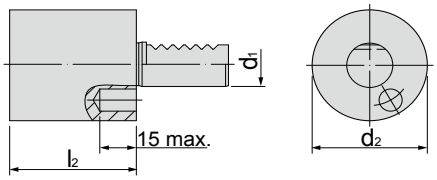
DIN ISO 10889



規格 Spec.	尺寸 Size d_1 X l_1	d_1	l_1	b	h	重量 (KGS) Weight
150.A1.30.85	30 x 85	30	85	130	76	-
150.A1.40.100	40 x 100	40	100	151	96	-

VDI 素材
VDI BLANK

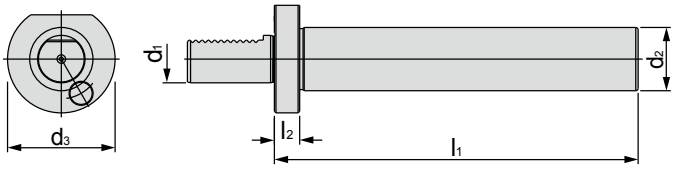
DIN ISO 10889-2

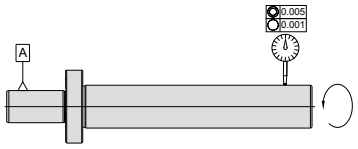


規格 Spec.	尺寸 Size d_1 X l_2	d_1	d_2	l_2	重量 (KGS) Weight
150.A2.30.100	30 x 100	30	68	100	-
150.A2.30.240	30 x 240	30	68	240	-
150.A2.40.120	40 x 120	40	83	120	-
150.A2.40.200	40 x 200	40	83	200	-
150.A2.40.320	40 x 320	40	83	320	-

VDI 主軸檢測棒
VDI SPINDLE MASTER BAR

TYPE BC

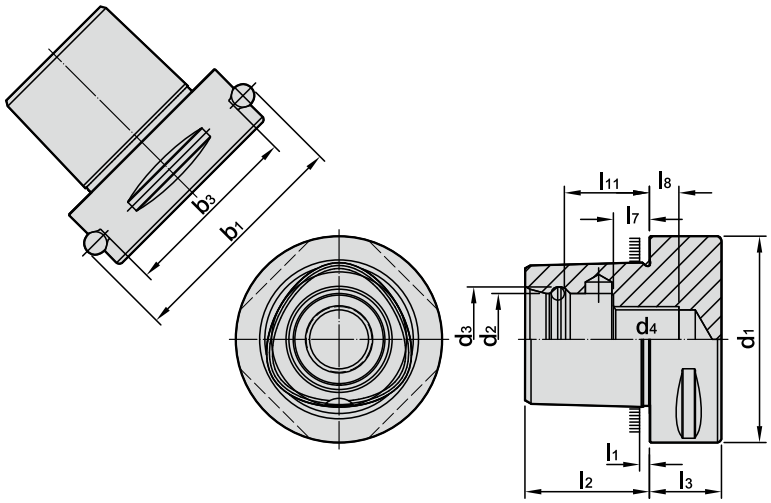




???? Taper Precision	AT2
??? Roundness	0.001mm
????? Surface Roughness	Ra<0.4
??? Concentricity	0.005mm

規格 Spec.	尺寸 Size d_1 X d_2 X l_1	l_1	l_2	d_1	d_2	d_3	重量 (KGS) Weight
150.30.40.230	30 x 40 x 230	230	16	30	40	68	4.30
150.40.40.200	40 x 40 x 200	200	16	40	40	83	4.42
150.50.40.200	50 x 40 x 200	200	15	50	40	98	5.22

• 長度單位 Unit of Length (mm)



規格 Spec.	b_1 ±0.1	b_3 ±0.1	d_1 ±0.1	d_2 +0.1 -0.05	d_3 ±0.05	d_4	l_1	l_2 ±0.1	l_3 Min	l_7 ±0.15	l_8 Min	l_{11} ±0.1
PSC32	39	27.9	32	15	16.5	M12-1.5P	2.5	19	15	6	6	13.5
PSC40	46	34.9	40	18	20	M14-1.5P	2.5	24	20	9	6	17.5
PSC50	59.3	44	50	21	24	M16-1.5P	3	30	20	10	7	22
PSC63	70.7	55.4	63	28	32	M20-2.0P	3	38	22	11	9	26
PSC80	86	70.7	80	32	38	M20-2.0P	3	48	30	20	0	34
PSC80X	110	88.3	10	32	38	M20-2.0P	3	48	32	20	0	34

1. 錐度精度 :<AT3
2. 硬度 :HRC 56°
3. 滲碳深度 >0.8mm
4. 真圓度 :< 0.8μm
5. 表面粗糙度 :Ra< 0.25μm
6. 刀桿有預設標準動平衡 G6.3，可另外指定精密動平衡 G2.5
7. 本體規範 :ISO 26623-1

1. Taper tolerance < AT3.
2. Hardness>HRC 56°.
3. Carbon depth>0.8mm.
4. Roundness < 0.8μm.
5. Surface roughness :Ra < 0.25μm.
6. The shank has pre-balance at G6.3,and can provide precision balance at G2.5,made by request.
7. Shank body standard : ISO 26623-1.

• 長度單位 Unit of Length (mm)

PSC 編碼規範
PSC CODING STANDARDS

① PSC Style

Code
PSC32(C3)
PSC40(C4)
PSC50(C5)
PSC63(C6)
PSC80(C8)
PSC80X(C8X)

② Clamping System

Code	Function	Code	Function
A	Back Clamp System	M	Multi Top and Hole Clamping
C	Top Clamping Without Hole	P	Pin Lock Hole Clamping
D	Double Clamp System	S	Screw On
E	Off-set pin System	T	Taper lock System
JS	Screw-on System	W	Wedge Top and Hole Clamping
JT	Back Clamp System		

⑤ Clearance Angle

Code	Clearance Angle
A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°

⑨ Length

Code	6.35	7.94	9.525	12.00	12.70
80°	06	08	09	-	12
55°	07	-	11	-	15
35°	11	-	16	-	-
	-	-	-	12	-
	11	13	16	-	22
	-	-	09	-	12
	-	-	06	-	08

PSC63 – M C L N R – 45 065 12

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

③ Insert Shape

Code	Angle	Figure
C	80°	
D	55°	
K	55°	
R	-	
S	-	
T	-	
V	35°	
W	80°	
L	-	
H	120°	
A	85°	
B	82°	
E	75°	
M	86°	
O	135°	
P	108°	

④ Lead Angle

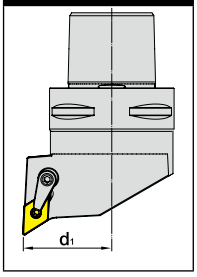
Code	Figure	Code	Figure
A	90°	M	50°
B	75°	N	63°
C	90°	P	117.5°
D	45°	R	75°
E	60°	S	45°
F	90°	T	60°
G	90°	U	93°
H	107.5°	V	72.5°
J	93°	W	60°
K	75°	Y	85°
L	95°		

⑥ Hand

Code	Figure
L	
N	
R	

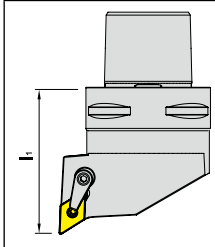
⑦ d_1 Size

Figure



⑧ Effective Length

Figure



• 長度單位 Unit of Length (mm)

PSC

PSC 特點
PSC FEATURE

Triangular polygon cone driver
三角錐系統

Through-Tool Coolant
出水孔

4 ATC Sockets
四等分夾持溝槽，
利於ATC精準定位

Magazine and Spindle Socket
主軸定位槽

1:20 taper with dual-contact
採用1:20錐度
雙面拘束的結構

Extension Alignment
搭配等徑
異徑套筒時的對齊點

重複定位精度高
XYZ軸向的重複定位精度是±2μm，刀具延伸四倍長的偏擺精度是3μm。

獨特的雙面拘束設計
連接結構是高精度的三角錐體，採用1:20錐度雙面拘束的夾緊結構，在車削加工中，因為沒有定位誤差，即不懼軸高位移，且切削扭矩呈現均勻分布，提高扭轉剛性。

增進生產效率
穩固的夾持、良好的穩定性與精度，可以有效降低磨耗並增加刀具壽命。廣泛的應用方式配上模組化的組合模式，讓加工者得以節省時間與空間。

High Precision Coupling
The precision during repeated coupling in the XYZ direction is ±2μm and the run-out accuracy is 3μm.

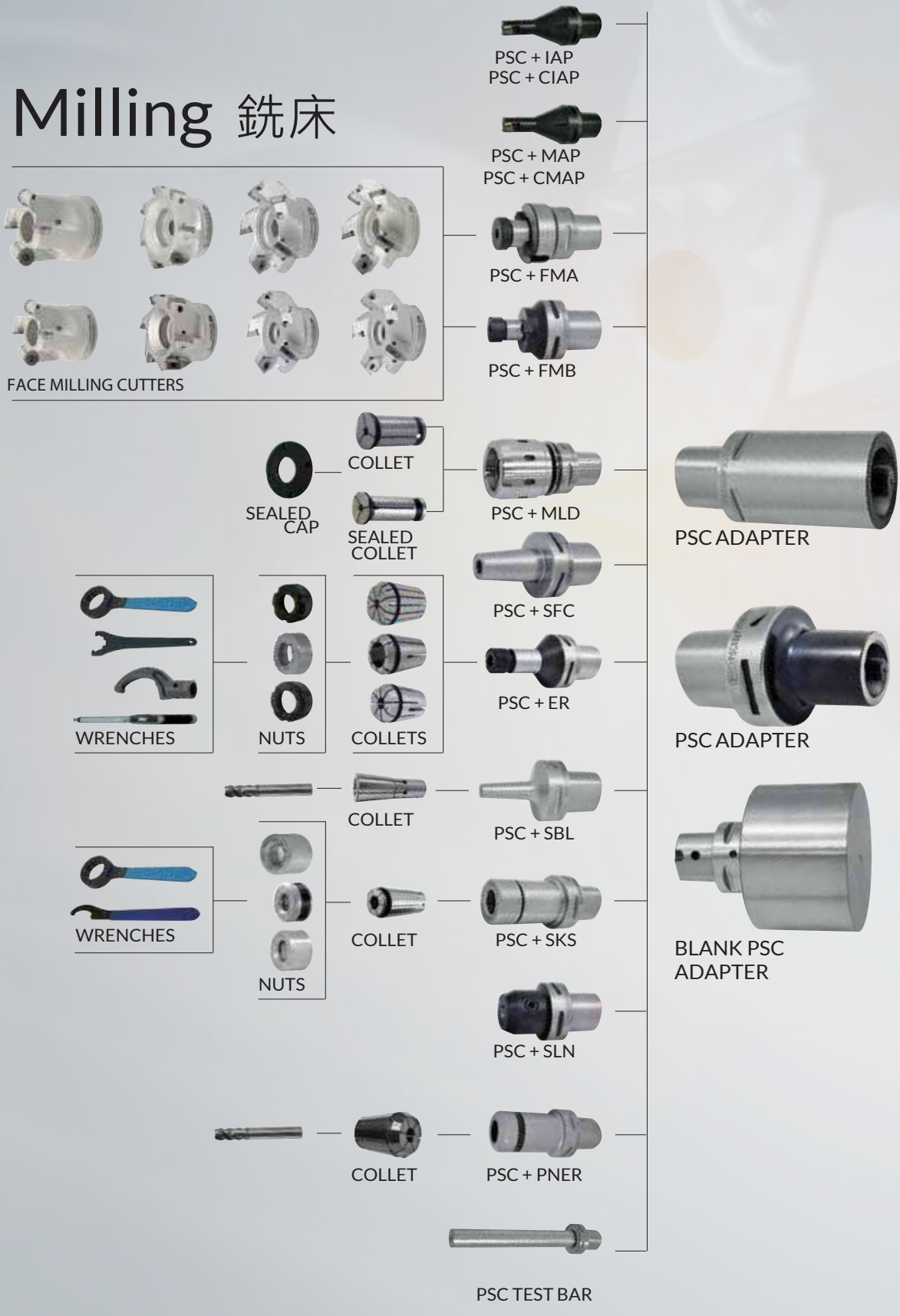
Unique Dual Contact Design
The coupling structure is a high precision triangular form with a 1:20 taper for dual contact and tight clamping. Designed without drive keys evenly distributes torque without balance irregularities. There are no axial discrepancies during lathe turning due to consistant positioning.

Increase Productivity
Rigid clamping for superior stability and precision, which produces minimal wear and a longer tool life. The universal applications and modular interface allow manufacturers to save time and space.

• 長度單位 Unit of Length (mm)

PSC

模組化示意圖
Modular combination



Turning 車床

PSC / DWLN

PSC / DTJN

PSC / DDNN

PSC / DCMN

PSC / SF

PSC / DCLN

PSC / DDJN

PSC / DVLN

PSC / DVVN

PSC / S25R

PSC / SN20

PSC / SV20R/L

PSC / DTJN

BT + PSC ADAPTER

DAT + PSC ADAPTER

HSK + PSC ADAPTER

Boring 搪孔

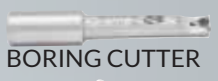
PSC + PBJ

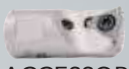
PSC + PCK

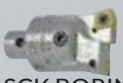
PSC + SBJ

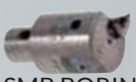
PSC + MCK

EXTENSION SPACER

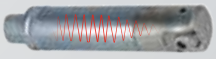

BORING CUTTER


ACCESSORIES


SCK BORING HEAD


SMB BORING HEAD

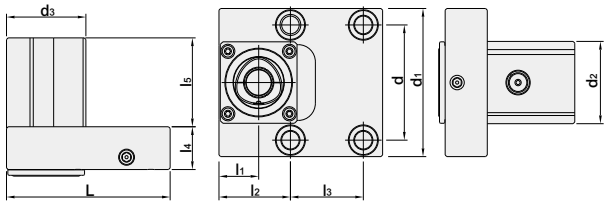
PSC + PMB


PSC / PMB-DP

EOTP 一體式外徑刀座
EOTP ONE-PIECE EXTERNAL TOOL POST FOR LATHE

ISO 26623-1

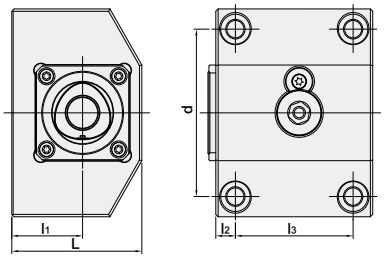
NEW



規格 Spec.	L	l_1	l_2	l_3	l_4	l_5	d	d_1	d_2	d_3	適用主軸 Applicable type	機器品牌 Machine brand	重量 (KGS) Weight
EOTP40-OR	108.5	24.5	43.5	35	26	54	76	105	50	49	PSC40	VICTOR TAICHUNG	2.81
EOTP40-HA	101	24.5	44.1	45	26	54	70	90	50	49	PSC40	HAAS	2.40
EOTP40-MO	108.5	24.5	44	35	26	54	76	105	50	49	PSC40	DMG MORI	2.88
EOTP40-MA	104	24.5	32.75	60	33.5	45	84	104	49	47.75	PSC40	MAZAK	2.90
EOTP40-GW	114	24.5	49	35	26	54	76	105	50	49	PSC40	GOODWAY	2.99
EOTP40-EX	104	24.5	39	45	26	54	92	114	50	59	PSC40	TAKISAWA	2.90

IOTP 一體式內徑刀座 [後拉式]
IOTP ONE-PIECE INTERNAL TOOL POST FOR LATHE

NEW



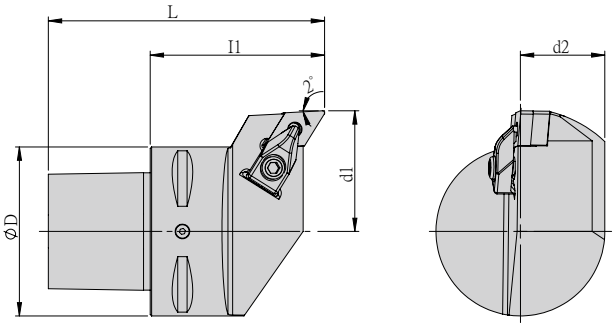
規格 Spec.	L	l_1	l_2	l_3	d	適用主軸 Applicable type	機器品牌 Machine brand	重量 (KGS) Weight
IOTP40-HA	60	30.4	21.3	45	70	PSC40	HAAS	2.70
IOTP40-MA	93.2	63	10	60	84	PSC40	MAZAK	4.41
IOTP40-MO	80	46	25	35	76	PSC40	DMG MORI	4.10
IOTP40-OR	81	46	25	35	76	PSC40	VICTOR TAICHUNG	4.15
IOTP40-GW	75	40	25	35	76	PSC40	GOODWAY	4.20

- 各機械廠牌，刀座尺寸眾多，其他尺寸採客製樣式

• 長度單位 Unit of Length (mm)

PSC/DDJN 外徑車刀
PSC/DDJN EXTERNAL TURNING TOOL

ISO 26623-1



規格 Spec.	L	l_1	D	d_1	d_2	刀片 Insert	重量 (KGS) Weight
PSC32-DDJNR-22045-15	64	45	32	22	18.1	DN..1504	0.22
PSC32-DDJNL-22045-15	64	45	32	22	18.1	DN..1504	0.22
PSC40-DDJNR-27050-15	74	50	40	27	22.5	DN..1504	0.42
PSC40-DDJNL-27050-15	74	50	40	27	22.5	DN..1504	0.42
PSC50-DDJNR-3506015	90	60	50	35	28.65	DN..1504	0.78
PSC50-DDJNL-35060-15	90	60	50	35	28.65	DN..1504	0.78
PSC63-DDJNR-45075-15	113	75	63	45	31	DN..1504	0.80
PSC63-DDJNL-45075-15	113	75	63	45	31	DN..1504	0.80

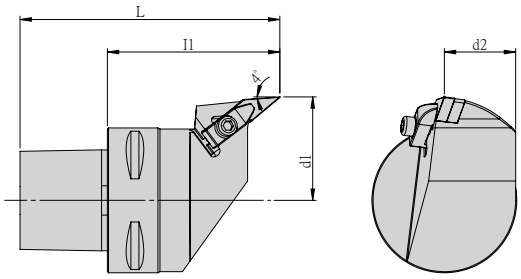
配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
DN..1504	DNS1504	-	-	-	DCP-2	M5-20-4.9	PL4	5.0

• 長度單位 Unit of Length (mm)

PSC/DVLN 外徑車刀
PSC/DVLN EXTERNAL TURNING TOOL

ISO 26623-1

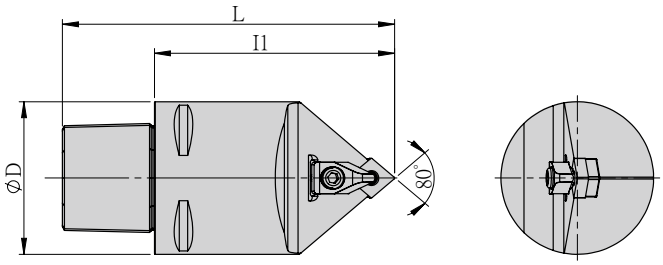


規格 Spec.	L	l_1	D	d_1	d_2	刀片 Insert	重量 (KGS) Weight
PSC32-DVLNR-20050-16	69	50	32	20	18.1	VN..1604	0.22
PSC32-DVLNL-20050-16	69	50	32	20	18.1	VN..1604	0.22
PSC40-DVLNR-27055-16	79	55	40	27	22.5	VN..1604	0.42
PSC40-DVLNL-27055-16	79	55	40	27	22.5	VN..1604	0.42
PSC50-DVLNR-35060-16	90	60	50	35	28.65	VN..1604	0.78
PSC50-DVLNL-35060-16	90	60	50	35	28.65	VN..1604	0.78
PSC63-DVLNR-45075-16	113	75	63	45	31	VN..1604	0.80
PSC63-DVLNL-45075-16	113	75	63	45	31	VN..1604	0.80

配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
VN..1604	VNS1604	-	-	-	DCP-4	M5-20-4.9	PL4	5.0

PSC/DCMN 外徑車刀
PSC/DCMN EXTERNAL TURNING TOOL



規格 Spec.	L	l_1	D	刀片 Insert	重量 (KGS) Weight
PSC32-DCMNN-00050-12	69	50	32	CN..1204	0.24
PSC40-DCMNN-00060-12	84	60	40	CN..1204	0.44
PSC50-DCMNN-00070-12	100	70	50	CN..1204	0.76
PSC63-DCMNN-00100-12	138	100	63	CN..1204	0.86

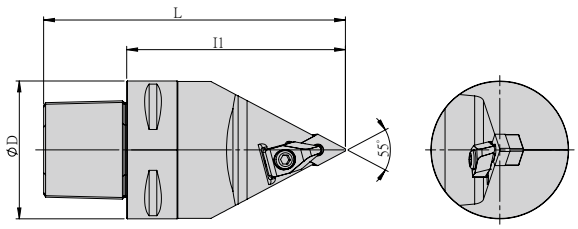
配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
CN..1204	CNS1204	M4-10-5.7-60	T15	3.0	DCP-2	M5-20-4.9	PL4	5.0

• 長度單位 Unit of Length (mm)

PSC/DDNN 外徑車刀
PSC/DDNN EXTERNAL TURNING TOOL

ISO 26623-1

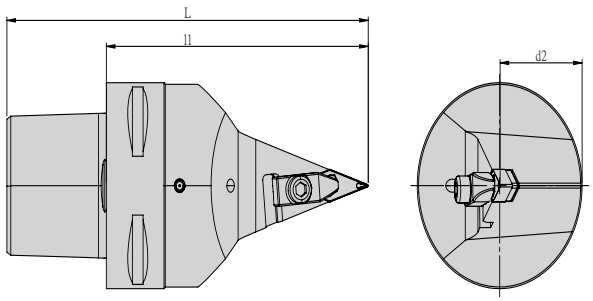


規格 Spec.	L	l_1	D	刀片 Insert	重量 (KGS) Weight
PSC32-DDNNN-00050-15	69	50	32	DN..1504	0.22
PSC40-DDNNN-00060-15	84	60	40	DN..1504	0.40
PSC50-DDNNN-00070-15	100	70	50	DN..1504	0.70
PSC63-DDNNN-00100-15	138	100	63	DN..1504	0.80

配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
DN..1504	DNS1504	-	-	-	DCP-2	M5-20-4.9	PL4	5.0

PSC/DVVN 外徑車刀
PSC/DVVN EXTERNAL TURNING TOOL



規格 Spec.	L	l_1	D	刀片 Insert	重量 (KGS) Weight
PSC32-DVVNN-00055-16	74	55	32	VN..1604	0.22
PSC40-DVVNN-00060-16	84	60	40	VN..1604	0.38
PSC50-DVVNN-00070-16	100	70	50	VN..1604	0.68
PSC63-DVVNN-00100-16	138	100	63	VN..1604	0.78

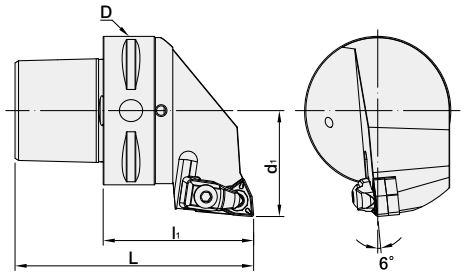
配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
VN..1604	VNS1604	-	-	-	DCP-4	M5-20-4.9	PL4	5.0

• 長度單位 Unit of Length (mm)

PSC/DWLN 外徑車刀
PSC/DWLN EXTERNAL TURNING TOOL

ISO 26623-1

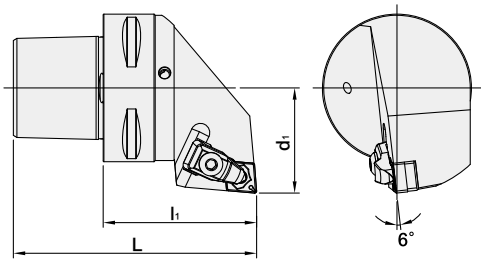


規格 Spec.	L	l_1	D	d_1	刀片 Insert	重量 (KGS) Weight
PSC40-DWLNR-27050-08	74	50	40	27	WN..0804	0.42
PSC40-DWLNL-27050-08	74	50	40	27	WN..0804	0.42
PSC50-DWLNR-35060-08	90	60	50	35	WN..0804	0.78
PSC50-DWLNL-35060-08	90	60	50	35	WN..0804	0.78
PSC63-DWLNR-45065-08	103	65	63	45	WN..0804	0.80
PSC63-DWLNL-45065-08	103	65	63	45	WN..0804	0.80
PSC80-DWLNR-55080-08	128	80	80	55	WN..0804	2.64
PSC80-DWLNL-55080-08	128	80	80	55	WN..0804	2.64

配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	扳手 Wrench	扭力值 (N.m) Torque
WN..0804	WNS0804	M5-12-7.3-60	T20	5.0	DCP-2	M5-20-4.9	PL4	5.0

PSC/DCLN 外徑車刀
PSC/DCLN EXTERNAL TURNING TOOL



規格 Spec.	L	l_1	d_1	刀片 Insert	重量 (KGS) Weight
PSC32-DCLNR-22045-12	64	45	22	CN..1204	0.22
PSC32-DCLNL-22045-12	64	45	22	CN..1204	0.22
PSC40-DCLNR-27050-12	74	50	27	CN..1204	0.42
PSC40-DCLNL-27050-12	74	50	27	CN..1204	0.42
PSC50-DCLNR-35060-12	90	60	35	CN..1204	0.78
PSC50-DCLNR-35060-12	90	60	35	CN..1204	0.78
PSC63-DCLNR-45065-12	103	65	45	CN..1204	0.80
PSC63-DCLNL-45065-12	103	65	45	CN..1204	0.80
PSC80-DCLNR-55080-12	128	80	55	CN..1204	2.64
PSC80-DCLNL-55080-12	128	80	55	CN..1204	2.64

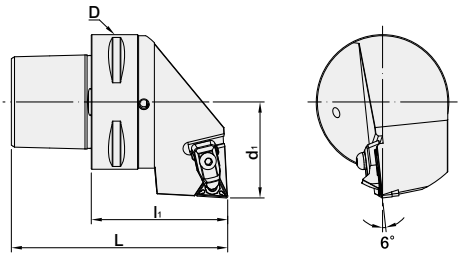
配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	扳手 Wrench	扭力值 (N.m) Torque
CN..1204	CNS1204	M4-10-5.7-60	T15	3.0	DCP-2	M5-20-4.9	PL4	5.0

• 長度單位 Unit of Length (mm)

PSC/DTJN 外徑車刀
PSC/DTJN EXTERNAL TURNING TOOL

ISO 26623-1

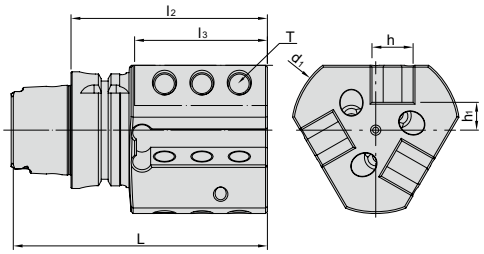


規格 Spec.	L	l_1	D	d_1	刀片 Insert	重量 (KGS) Weight
PSC32-DTJNR-22040-16	59	40	32	22	TN..1604	0.22
PSC32-DTJNL-22040-16	59	40	32	22	TN..1604	0.22
PSC40-DTJNR-27050-16	74	50	40	27	TN..1604	0.42
PSC40-DTJNL-27050-16	74	50	40	27	TN..1604	0.42
PSC50-DTJNR-35060-16	90	60	50	35	TN..1604	0.78
PSC50-DTJNL-35060-16	90	60	50	35	TN..1604	0.78
PSC63-DTJNR-45065-16	103	65	63	45	TN..1604	0.80
PSC63-DTJNL-45065-16	103	65	63	45	TN..1604	0.80

配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	扳手 Wrench	扭力值 (N.m) Torque
TN..1604	TNS1604	M4-9-5.15-47	T15	3.0	DCP-1	M5-20-4.9	PL4	5.0

PSC/SV 外徑車刀架
PSC/SV EXTERNAL TURNING TOOL



NEW

規格 Spec.	L	l_1	l_2	d_1	h	h_1	重量 (KGS) Weight
PSC50-SV20R-123	153	123	97	90	20	16	3.56
PSC50-SV20L-123	153	123	97	90	20	16	3.56
PSC63-SV20R-125	163	125	97	90	20	16	3.58
PSC63-SV20L-125	163	125	97	90	20	16	3.58
PSC80-SV32R-150	198	150	114	120	32	20	7.13
PSC80-SV32L-150	198	150	114	120	32	20	7.13

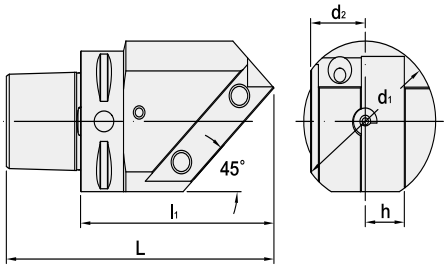
配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	壓板 Clamp	壓板螺絲 Clamp Screw	彈簧 Spring
CN..1204	C12BM	SM6-10-A1	C2RA	CM6-25C	SPR4

• 長度單位 Unit of Length (mm)

PSC/SN 外徑車刀架
PSC/SN EXTERNAL TURNING TOOL

ISO 26623-1



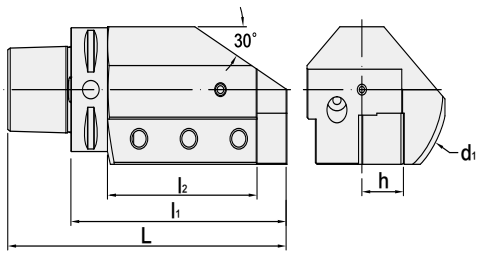
NEW

規格 Spec.	L	l_1	d_1	d_2	h	重量 (KGS) Weight
PSC50-SN20R-97	127	97	72	31.5	20	1.66
PSC50-SN20L-97	127	97	72	31.5	20	1.66
PSC63-SN20R-99	137	99	72	31.5	20	2.10
PSC63-SN20R-99	137	99	72	31.5	20	2.10
PSC80-SN32R-135	183	135	140	45	32	6.51
PSC80-SN32L-135	183	135	140	45	32	6.51

配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	壓板 Clamp	壓板螺絲 Clamp Screw	彈簧 Spring
WN..0804	W08BM	SM6-10-A1	C2RA	CM6-25C	SPR4

PSC/S 外徑車刀架
PSC/S EXTERNAL TURNING TOOL



NEW

規格 Spec.	L	l_1	l_2	d_1	h	重量 (KGS) Weight
PSC50-S20R-98	128	98	68	90	20	2.22
PSC50-S20L-98	128	98	68	90	20	2.22
PSC63-S20R-100	138	100	75	90	20	2.34
PSC63-S20L-100	138	100	75	90	20	2.34
PSC63-S25R-130	168	130	102	103.5	25	3.93
PSC63-S25L-130	168	130	102	103.5	25	3.93
PSC80-S32L-140	188	140	130	110	32	5.05
PSC80-S32R-140	188	140	130	110	32	5.05
PSC80X-S32L-143	191	143	133	145	32	7.75
PSC80X-S32R-143	191	143	133	145	32	7.75

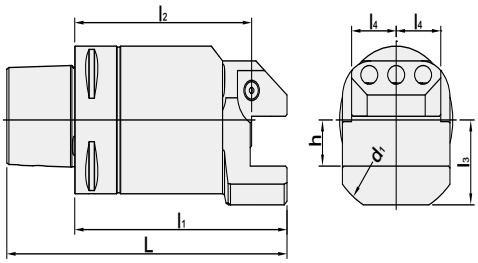
配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	壓板 Clamp	壓板螺絲 Clamp Screw	彈簧 Spring
CN..1204	C12BM	SM6-10-A1	C2RA	CM6-25C	SPR4

• 長度單位 Unit of Length (mm)

PSC/SF 外徑車刀架
PSC/SF EXTERNAL TURNING TOOL

ISO 26623-1



規格 Spec.	L	l_1	l_2	l_3	l_4	h	d_1	重量 (KGS) Weight
PSC40-SF20-55	79	55	35	36	30	20	80	0.84
PSC50-SF20-65	95	65	45	39	25.5	20	85	1.43
PSC63-SF20-70	108	70	50	39	25.5	20	85	1.84
PSC63-SF25-80	118	80	55	46	31.5	25	103	2.55
PSC63-SF32-80	118	80	48	65	40	32	142	3.64
PSC80-SF25-75	123	75	50	46	31.5	25	103	3.01
PSC80-SF25-150	198	150	125	46	31.5	25	103	5.84
PSC80-SF25-180	228	180	155	46	31.5	25	103	6.97
PSC80-SF32-85	133	85	53	65	40	32	142	4.52
PSC80X-SF32-90	138	90	58	65	40	32	142	5.65
PSC100-SF32-90	150	90	58	65	40	32	145	6.45

PSC

配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	壓板 Clamp	壓板螺絲 Clamp Screw	彈簧 Spring
CN..1204	C12BM	SM6-10-A1	C2RA	CM6-25C	SPR4

• 長度單位 Unit of Length (mm)

PSC/SFC 熱膨脹刀桿
PSC/SFC SHRINK-FIT CHUCK

ISO 26623-1

Fig.1

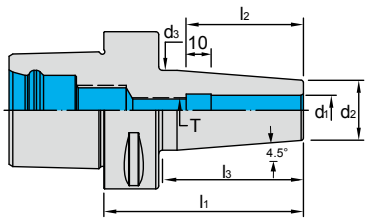
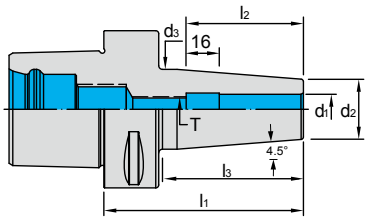


Fig.2



特點 Feature

- 標準動平衡 G2.5 25000rpm

-Dynamic balancing G2.5 at 25000 rpm.

規格 Spec.	l_1	l_2	l_3	d_1	d_2	d_3	T	Fig.	重量 (KGS) Weight
PSC40-SFC6-75	75	36	53	6	20	26	M5-0.8P	2	-
PSC40-SFC8-75	75	36	53	8	20	26	M6-1.0P	1	-
PSC40-SFC10-75	75	42	54	10	24	32	M8-1.25P	1	-
PSC40-SFC12-75	75	47	54	12	24	32	M10-1.5P	1	-
PSC40-SFC14-80	80	47	59	14	27	34	M10-1.5P	1	-
PSC40-SFC16-80	80	50	59	16	27	34	M12-1.75P	1	-
PSC40-SFC18-80	80	52	59	18	33	42	M12-1.75P	1	-
PSC40-SFC20-85	85	52	64	20	33	42	M16-2.0P	1	-
PSC50-SFC6-75	75	36	53	6	20	26	M5-0.8P	2	-
PSC50-SFC8-75	75	36	53	8	20	26	M6-1.0P	1	-
PSC50-SFC10-75	75	42	54	10	24	32	M8-1.25P	1	-
PSC50-SFC12-75	75	47	59	12	24	32	M10-1.5P	1	-
PSC50-SFC14-80	80	47	59	14	27	34	M10-1.5P	1	-
PSC50-SFC16-80	80	50	59	16	27	34	M12-1.75P	1	-
PSC50-SFC18-80	80	52	59	18	33	42	M12-1.75P	1	-
PSC50-SFC20-85	85	52	64	20	33	42	M16-2.0P	1	-
PSC50-SFC25-90	90	58	68	25	44	53	M20-2.0P	1	-
PSC63-SFC6-80	80	36	53	6	20	26	M5-0.8P	2	-
PSC63-SFC8-80	80	36	53	8	20	26	M6-1.0P	1	-
PSC63-SFC10-80	80	52	53	10	24	32	M8-1.25P	1	-
PSC63-SFC12-80	80	52	56	12	24	32	M10-1.5P	1	-
PSC63-SFC14-85	85	47	58	14	27	34	M10-1.5P	1	-
PSC63-SFC16-85	85	52	58	16	27	34	M12-1.75P	1	-
PSC63-SFC18-85	85	52	58	18	33	42	M12-1.75P	1	-
PSC63-SFC20-85	85	52	58	20	33	42	M16-2.0P	1	-
PSC63-SFC25-90	90	58	66	25	44	53	M20-2.0P	1	-
PSC63-SFC32-95	95	58	71	32	44	53	M20-2.0P	1	-

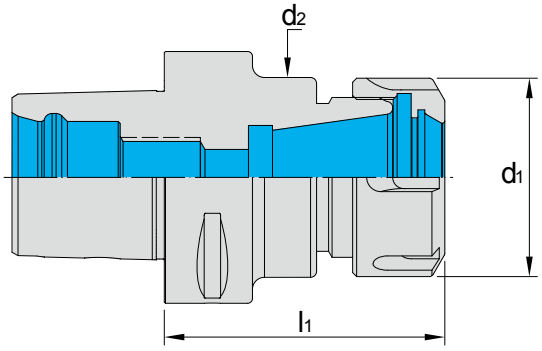
選配表 Option

加熱器 Hot-Air	鎖刀座 Lock Device
B400	B655

• 長度單位 Unit of Length (mm)

PSC/ER 立銑刀夾頭
PSC/ER COLLET CHUCK

ISO 26623-1



規格 Spec.	l_1	d_1	d_2	夾持範圍 Clamp Range	重量 (KGS) Weight
PSC32-ER16-45	45	28	28	Ø1~Ø10	0.20
PSC32-ER20-45	45	34	34	Ø2~Ø13	0.30
PSC40-ER16-70	70	28	28	Ø1~Ø10	0.40
PSC40-ER20-52	52	34	34	Ø2~Ø13	0.30
PSC40-ER25-52	52	42	42	Ø2~Ø16	0.40
PSC40-ER32-54	54	50	50	Ø3~Ø20	0.50
PSC50-ER16-100	100	28	28	Ø1~Ø10	0.90
PSC50-ER20-55	55	34	34	Ø2~Ø13	0.50
PSC50-ER20-100	100	34	34	Ø2~Ø13	0.80
PSC50-ER25-55	55	42	42	Ø2~Ø16	0.50
PSC50-ER32-57	57	50	50	Ø3~Ø20	0.60
PSC50-ER32-100	100	50	50	Ø3~Ø20	0.90
PSC63-ER16-100	100	28	28	Ø1~Ø10	1.30
PSC63-ER20-60	60	34	34	Ø2~Ø13	0.80
PSC63-ER25-60	60	42	42	Ø2~Ø16	1.08
PSC63-ER25-100	100	42	42	Ø2~Ø16	1.30
PSC63-ER32-70	70	50	50	Ø3~Ø20	0.80
PSC63-ER32-100	100	50	50	Ø3~Ø20	1.50
PSC63-ER40-65	65	63	63	Ø3~Ø26	1.10

PSC

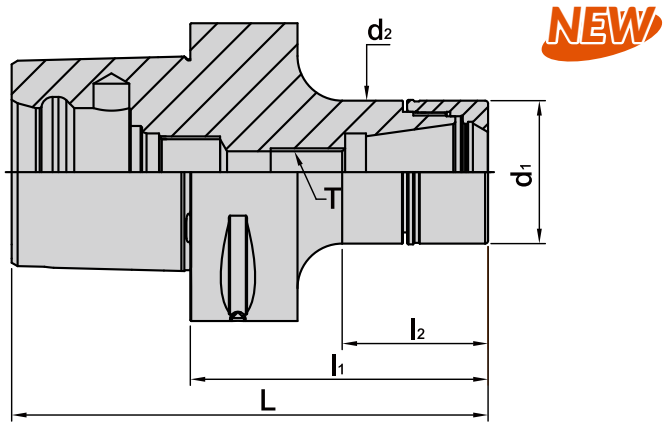
選配表 Option

筒夾 Collet	螺帽 Nut	扳手 Spanner	鎖刀座 Lock Device
B612	B634	B650	B655

• 長度單位 Unit of Length (mm)

PSC/Pro.E 筒夾式刀桿
PSC/Pro.E COLLET CHUCK

ISO 26623-1



NEW

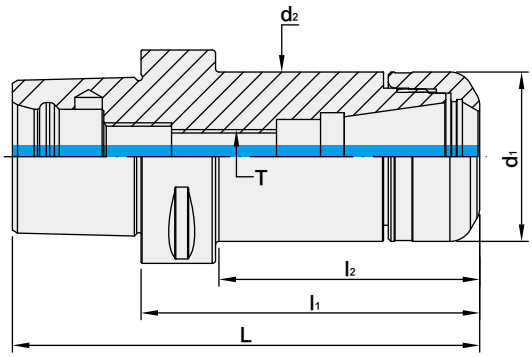
規格 Spec.	L	l1	l2	d1	d2	T	夾持範圍 Clamp Range	重量 (KGS) Weight
PSC40-Pro.E32-100	124	100	76	50	50	M16-2.0P	2~20	1.04
PSC40-Pro.E32-125	149	125	101	50	50	M16-2.0P	2~20	1.36
PSC40-Pro.E32-150	174	150	126	50	50	M16-2.0P	2~20	1.69
PSC50-Pro.E25-100	130	100	79	42	42	M16-2.0P	1~16	1.09
PSC50-Pro.E25-125	155	125	104	42	42	M16-2.0P	1~16	1.32
PSC50-Pro.E25-150	180	150	129	42	42	M16-2.0P	1~16	1.56
PSC50-Pro.E32-70	100	70	49	50	50	-	2~20	0.84
PSC50-Pro.E32-100	130	100	79	50	50	M16-2.0P	2~20	1.23
PSC50-Pro.E32-125	155	125	104	50	50	M16-2.0P	2~20	1.54
PSC50-Pro.E32-150	180	150	129	50	50	M16-2.0P	2~20	1.85
PSC63-Pro.E16-70	108	70	43	30	30	-	1~10	0.94
PSC63-Pro.E16-100	138	100	73	30	30	M10-1.5P	1~10	1.09
PSC63-Pro.E16-125	163	125	98	30	30	M10-1.5P	1~10	1.18
PSC63-Pro.E16-150	188	150	123	30	30	M10-1.5P	1~10	1.26
PSC63-Pro.E16-200	238	200	173	30	30	M10-1.5P	1~10	1.44
PSC63-Pro.E20-70	108	70	43	35	35	-	1~13	1.00
PSC63-Pro.E20-100	138	100	70	35	35	M12-1.75P	1~13	1.21
PSC63-Pro.E20-125	163	125	95	35	35	M12-1.75P	1~13	1.35
PSC63-Pro.E20-150	188	150	120	35	35	M12-1.75P	1~13	1.49
PSC63-Pro.E20-200	238	200	170	35	35	M12-1.75P	1~13	1.76
PSC63-Pro.E25-70	108	70	45	42	42	-	1~16	1.11
PSC63-Pro.E25-100	138	100	75	42	42	M16-2.0P	1~16	1.39
PSC63-Pro.E25-125	163	125	100	42	42	M16-2.0P	1~16	1.60
PSC63-Pro.E25-150	188	150	125	42	42	M16-2.0P	1~16	1.82
PSC63-Pro.E25-200	238	200	175	42	42	M16-2.0P	1~16	2.26
PSC63-Pro.E32-70	108	70	45	50	50	-	2~20	1.16
PSC63-Pro.E32-100	138	100	75	50	50	M16-2.0P	2~20	1.52
PSC63-Pro.E32-125	163	125	100	50	50	M16-2.0P	2~20	1.82
PSC63-Pro.E32-150	188	150	125	50	50	M16-2.0P	2~20	2.12
PSC63-Pro.E32-200	238	200	175	50	50	M16-2.0P	2~20	2.72
PSC80-Pro.E16-100	148	100	65	30	30	M10-1.5P	1~10	2.00
PSC80-Pro.E16-125	173	125	90	30	30	M10-1.5P	1~10	2.13
PSC80-Pro.E16-150	198	150	110	30	30	M10-1.5P	1~10	2.27
PSC80-Pro.E16-200	248	200	160	30	30	M10-1.5P	1~10	2.52
PSC80-Pro.E20-100	148	100	65	35	35	M12-1.75P	1~13	2.10
PSC80-Pro.E20-125	173	125	90	35	35	M12-1.75P	1~13	2.28
PSC80-Pro.E20-150	198	150	110	35	35	M12-1.75P	1~13	2.46
PSC80-Pro.E20-200	248	200	160	35	35	M12-1.75P	1~13	2.80

• 長度單位 Unit of Length (mm)

PSC/PNER 立銑刀夾頭
PSC/PNER COLLET CHUCK

ISO 26623-1

精度 Accuracy : < 3μm



特點 Feature

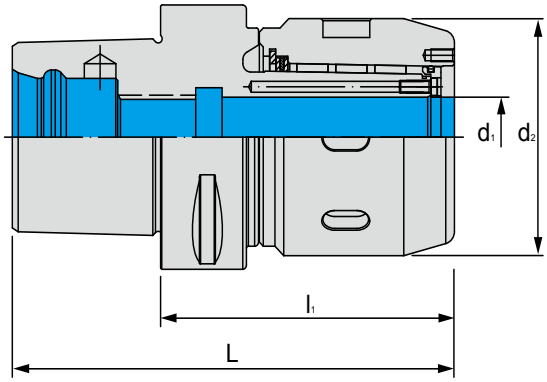
- 標準動平衡 G2.5 25000rpm
- Standard balance of G2.5 at 25000 rpm.

規格 Spec.	L	l1	l2	d1	d2	T	夾持範圍 Size Range	重量 (KGS) Weight
PSC32-PNER16-45	64	45	29	30	30	-	3~10	0.21
PSC32-PNER20-45	64	45	30	32	32	-	3~13	0.21
PSC40-PNER16-55	79	55	30	30	30	-	3~10	0.36
PSC40-PNER20-55	79	55	31	32	32	-	3~13	0.36
PSC50-PNER16-60	90	60	34	30	30	-	3~10	0.56
PSC50-PNER16-100	130	100	74	30	30	M10-1.5P	3~10	0.75
PSC50-PNER20-60	90	60	34	32	32	-	3~13	0.57
PSC50-PNER25-60	90	60	37	40	40	-	3~16	0.63
PSC50-PNER32-60	90	60	37	50	50	-	3~20	0.70
PSC63-PNER16-60	98	60	35	30	30	-	3~10	0.87
PSC63-PNER16-100	138	100	75	30	30	M10-1.5P	3~10	1.07
PSC63-PNER20-60	98	60	35	32	32	-	3~13	0.88
PSC63-PNER20-100	138	100	75	32	32	M12-1.75P	3~13	1.10
PSC63-PNER25-60	98	60	35	40	40	-	3~16	0.94
PSC63-PNER25-100	138	100	75	40	40	M16-2.0P	3~16	1.28
PSC63-PNER25-130	168	130	105	40	40	M16-2.0P	3~16	1.53
PSC63-PNER25-160	198	160	135	40	40	M16-2.0P	3~16	1.79
PSC63-PNER32-60	98	60	35	50	50	-	3~20	1.00
PSC63-PNER32-100	138	100	75	50	50	M16-2.0P	3~20	1.55
PSC63-PNER32-130	168	130	105	50	50	M16-2.0P	3~20	1.97
PSC63-PNER40-60	98	60	38	63	63	-	6~26	1.18
PSC63-PNER40-100	138	100	68	63	63	M20-2.0P	6~26	2.03
PSC80-PNER32-100	148	100	65	50	50	M16-2.0P	3~20	2.38
PSC80-PNER40-100	148	100	69	63	63	M20-2.0P	6~26	2.73

• 長度單位 Unit of Length (mm)

PSC/MLD 直式筒夾銑床夾頭
PSC/MLD MULTI-LOCK COLLET CHUCK

ISO 26623-1



特點 Feature

- 內孔特殊溝槽設計，防止所夾持刀具脫刀滑落，可以割斷附著油膜，不會有脫刀現象產生，提高了使用的安全性
- 刀桿本體厚，可產生充分的夾持力。採用滾針軸承原理設計，滾動磨擦及脫落減到最小，裝置操作省力便捷
- 螺帽與刀桿端面鎖固後，緊貼牢靠，提高剛性並徹底的防塵
- 偏擺精度 :0.001~0.005 以內，真圓度 :0.02mm
-MLD20、MLD-3/4、MLK20 扳手共用
-MLD32、MLD-1-1/4、MLK32 扳手共用

- There is a special design for the slots of internal hole. It prevents the cutting tools from slipping and increases the clamping power.
- The body of the tool holder is thick, so it has good clamping power. It adopts the needle bearing design to prevent the slipping. The operation is convenient and easy.
- After locking the cutting tool (The tolerance of the cutting tool must be less than h6), it is more contacted with the flange while locking the clamping nut and tool holder. It can prevent the bearing cage from deformation easily. Also, rigidity and dust-proof function is improved.
- Run-out: Within 0.001~0.005mm.Concentricity: 0.02mm.
- MLD20 and MLD-3/4 MLK20 spanner can be used in common.
- MLD32 and MLD-1-1/4 MLK32 spanner can be used in common.

規格 Spec.	l_1	d_1	d_2	重量 (KGS) Weight
PSC50-MLD20-75	75	20	56.5	1.20
PSC50-MLD32-90	90	32	71	1.90
PSC63-MLD20-75	75	20	56.5	1.40
PSC63-MLD32-85	85	32	71	2.20

※ 英制規格，接單生產 INCH size made to order.

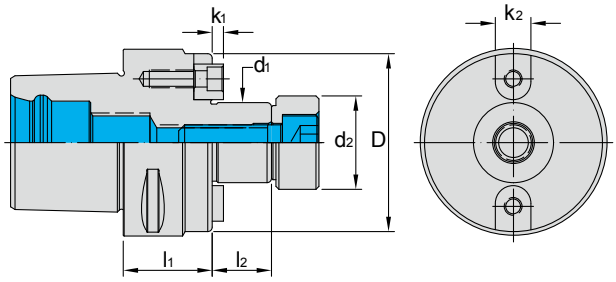
選配表 Option

筒夾 Collet	扳手 Spanner	止水端蓋 Sealed Cap	鎖刀座 Lock Device
B631	B653	B640	B655

• 長度單位 Unit of Length (mm)

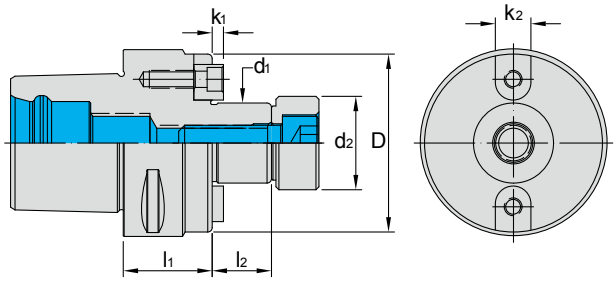
PSC/FMA 平面銑刀柄
PSC/FMA FACE MILL ARBOR

ISO 26623-1



規格 Spec.	l_1	l_2	d_1	d_2	D	K_1	K_2	重量 (KGS) Weight
PSC50-FMA25.4-40	40	17.449	25.4	31.496	55.626	4.775	9.525	-
PSC63-FMA25.4-50	50	17.449	25.4	31.496	55.626	4.775	9.525	-
PSC63-FMA31.75-50	50	17.449	31.75	40.995	69.85	6.35	12.7	-
PSC63-FMA38.1-50	50	23.825	38.1	44.5	96.774	8.864	15.875	-

PSC/FMB 平面銑刀柄
PSC/FMB FACE MILL ARBOR

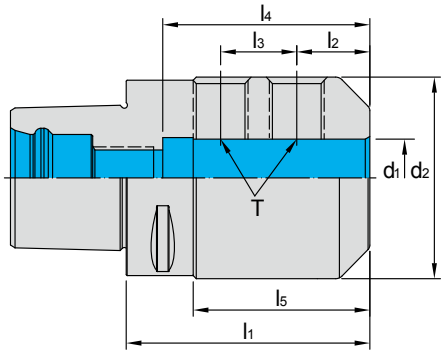


規格 Spec.	l_1	l_2	D	d_1	d_2	K_1	K_2	重量 (KGS) Weight
PSC32-FMB16-30	30	16	34	16	23.5	4	8	0.30
PSC40-FMB16-32	32	16	34	16	23.5	4	8	0.30
PSC40-FMB16-55	55	16	34	16	23.5	4	8	0.40
PSC40-FMB22-25	25	22	50	22	26	4.8	10	0.40
PSC40-FMB22-55	55	22	50	22	26	4.8	10	0.70
PSC50-FMB16-35	35	16	34	16	23.5	4	8	0.60
PSC50-FMB16-70	70	16	34	16	23.5	4	8	0.70
PSC50-FMB22-25	25	16	50	22	26	4.8	10	0.60
PSC50-FMB22-70	70	16	50	22	26	4.8	10	1.00
PSC50-FMB27-25	25	18	50	27	31.5	5.8	12	0.70
PSC50-FMB32-40	40	22	63	32	41	6.8	14	1.20
PSC63-FMB16-40	40	16	34	16	23.5	4	8	0.90
PSC63-FMB22-40	40	16	50	22	26	4.8	10	0.90
PSC63-FMB27-30	30	18	50	27	31.5	5.8	12	1.00
PSC63-FMB32-45	45	22	63	32	41	6.8	14	1.60
PSC63-FMB40-45	45	25	80	40	48	8.3	16	1.60

• 長度單位 Unit of Length (mm)

PSC/SLN 側固式立銑刀柄
PSC/SLN SIDE LOCK END MILL HOLDER

ISO 26623-1



規格 Spec.	l_1	l_2	l_3	l_4	l_5	d_1	d_2	T	重量 (KGS) Weight
PSC32-SLN6-45	45	18	-	35	27.5	6	25	M6	0.30
PSC32-SLN8-45	45	18	-	35	29	8	28	M8	0.30
PSC32-SLN10-50	50	20	-	39	27.5	10	35	M10	0.40
PSC32-SLN12-55	55	22.5	-	44	36	12	42	M12	0.30
PSC40-SLN6-50	50	18	-	35	25.5	6	25	M6	0.40
PSC40-SLN8-50	50	18	-	35	26	8	28	M8	0.40
PSC40-SLN10-50	50	20	-	39	27.5	10	35	M10	0.50
PSC40-SLN12-55	55	22.5	-	44	36	12	42	M12	0.60
PSC40-SLN14-50	50	22.5	-	44	37	14	44	M12	0.60
PSC40-SLN16-55	55	24	-	47	39	16	48	M14	0.70
PSC50-SLN6-50	50	18	-	35	25.5	6	25	M6	0.60
PSC50-SLN8-50	50	18	-	35	26	8	28	M8	0.70
PSC50-SLN10-55	55	20	-	39	27.5	10	35	M10	0.70
PSC50-SLN12-60	60	22.5	-	44	36	12	42	M12	0.90
PSC50-SLN14-60	60	22.5	-	44	37	14	44	M12	0.80
PSC50-SLN16-60	60	24	-	47	39	16	48	M14	1.00
PSC50-SLN18-60	60	24	-	47	-	18	50	M14	1.00
PSC50-SLN20-60	60	25	-	49	40	20	52	M16	1.00
PSC50-SLN25-80	80	24	25	54	60	25	65	M18	1.80
PSC63-SLN6-55	55	18	-	35	25	6	25	M6	0.90
PSC63-SLN8-55	55	18	-	35	26	8	28	M8	0.90
PSC63-SLN10-60	60	20	-	39	30	10	35	M10	1.00
PSC63-SLN12-60	60	22.5	-	44	33	12	42	M12	1.10
PSC63-SLN14-60	60	22.5	-	44	33.5	14	44	M12	1.10
PSC63-SLN16-65	65	24	-	47	35.5	16	48	M14	1.20
PSC63-SLN18-65	65	24	-	47	39	18	50	M14	1.20
PSC63-SLN20-65	65	25	-	49	37.5	20	52	M16	1.50
PSC63-SLN25-80	80	24	25	54	58	25	65	M18	1.90
PSC63-SLN32-90	90	24	28	58	68	32	72	M20	2.40
PSC63-SLN40-100	100	30	32	68	77	40	90	M20	3.70

選配表 Option

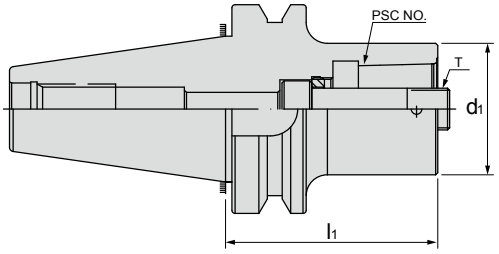
鎖刀座 Lock Device

B655

• 長度單位 Unit of Length (mm)

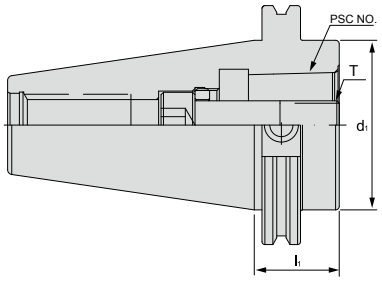
SBT/PSC 法蘭加厚型套筒
SBT/PSC DUAL DRIVE ADAPTER

ISO 26623-1



規格 Spec.	l_1	d_1	T	扳手 Wrench	重量 (KGS) Weight
SBT40-PSC32-30	30	32	M12-1.5P	T10-200	1.70
SBT40-PSC40-30	30	40	M14-1.5P	T12-200	1.70
SBT40-PSC50-30	30	50	M16-1.5P	T10-200	1.70
SBT40-PSC63-75	75	63	M20-2.0P	T12-200	1.90
SBT50-PSC32-40	40	32	M12-1.5P	T10-200	4.80
SBT50-PSC40-40	40	40	M14-1.5P	T12-200	4.80
SBT50-PSC50-40	40	50	M16-1.5P	T10-200	4.80
SBT50-PSC63-100	100	63	M20-2.0P	T12-200	4.68
SBT50-PSC63-150	150	63	M20-2.0P	T12-200	5.75
SBT50-PSC63-200	200	63	M20-2.0P	-	6.81
SBT50-PSC63-250	250	63	M20-2.0P	-	7.88
SBT50-PSC63-300	300	63	M20-2.0P	-	8.73
SBT50-PSC80-70	70	80	M20-2.0P	-	3.91
SBT50-PSC80-93	93	80	M20-2.0P	-	4.73
SBT50-PSC80-120	120	80	M20-2.0P	-	5.71
SBT50-PSC80-183	183	80	M20-2.0P	-	7.98
SBT50-PSC80-243	243	80	M20-2.0P	-	10.14

DAT/PSC 套筒
DAT/PSC ADAPTER

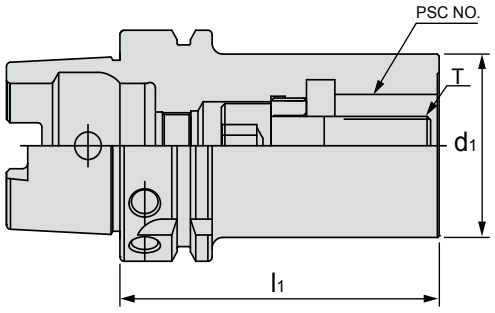


規格 Spec.	l_1	d_1	T	重量 (KGS) Weight
DAT40-PSC32-30	30	32	M12-1.5P	1.40
DAT40-PSC40-40	40	40	M14-1.5P	1.50
DAT40-PSC50-50	50	50	M16-1.5P	1.60
DAT40-PSC63-90	90	63	M20-2.0P	2.00
DAT50-PSC32-30	30	32	M12-1.5P	4.20
DAT50-PSC40-30	30	40	M14-1.5P	4.30
DAT50-PSC50-30	30	50	M16-1.5P	4.40
DAT50-PSC63-30	30	63	M20-2.0P	4.50
DAT50-PSC63-100	100	63	M20-2.0P	5.00
DAT50-PSC63-150	150	63	M20-2.0P	5.20
DAT50-PSC63-200	200	63	M20-2.0P	5.40
DAT50-PSC63-250	250	63	M20-2.0P	5.80
DAT50-PSC63-300	300	63	M20-2.0P	6.00

• 長度單位 Unit of Length (mm)

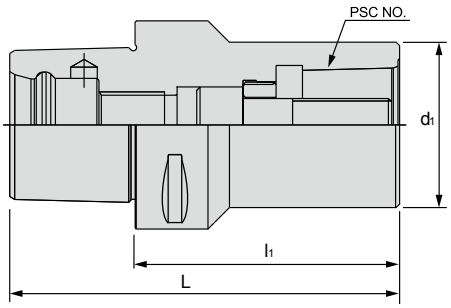
HSK/PSC 套筒
HSK/PSC ADAPTER

ISO 26623-1



規格 Spec.	l_1	d_1	T	扳手 Wrench	重量 (KGS) Weight
HSK63A-PSC32-75	75	32	M12-1.5P	T6-200	0.92
HSK63A-PSC40-80	80	40	M14-1.5P	T6-200	1.06
HSK63A-PSC50-90	90	50	M16-1.5P	T6-200	1.39
HSK100A-PSC32-80	80	32	M12-1.5P	T10-200	2.25
HSK100A-PSC40-90	90	40	M14-1.5P	T10-200	2.43
HSK100A-PSC50-100	100	50	M16-1.5P	T6-200	2.80
HSK100A-PSC63-110	110	63	M20-2.0P	T10-200	3.41
HSK100A-PSC63-150	150	63	M20-2.0P	T10-200	4.18
HSK100A-PSC63-200	200	63	M20-2.0P	T10-200	5.14
HSK100A-PSC63-250	250	63	M20-2.0P	-	6.10
HSK100A-PSC63-300	300	63	M20-2.0P	-	7.07
HSK100A-PSC80-120	120	80	M20-2.0P	-	4.93

PSC 異徑套筒
PSC EXTENSION ADAPTER FOR DIFFERENT DIA.

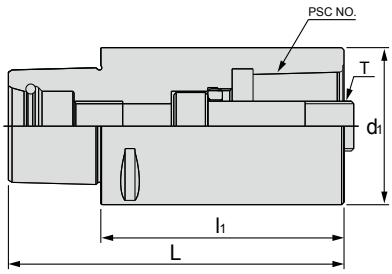


規格 Spec.	PSC NO.	L	l_1	d_1	T	重量 (KGS) Weight
PSC40-PSC32-55	PSC32	79	55	32	M12-1.5P	0.50
PSC40-PSC32-70	PSC32	94	70	32	M12-1.5P	0.60
PSC50-PSC32-60	PSC32	84	60	32	M12-1.5P	0.60
PSC50-PSC40-65	PSC40	89	65	40	M14-1.5P	0.80
PSC50-PSC40-85	PSC40	115	85	40	M14-1.5P	1.10
PSC63-PSC32-70	PSC32	108	70	32	M12-1.5P	1.10
PSC63-PSC40-80	PSC40	118	80	40	M14-1.5P	1.20
PSC63-PSC50-80	PSC50	118	80	50	M16-1.5P	1.50
PSC63-PSC50-110	PSC50	148	110	50	M16-1.5P	2.20
PSC80-PSC32-60	PSC32	108	60	32	M12-1.5P	1.70
PSC80-PSC40-70	PSC40	118	70	40	M14-1.5P	1.90
PSC80-PSC50-45	PSC50	93	45	50	M16-1.5P	1.50
PSC80-PSC50-80	PSC50	128	80	50	M16-1.5P	2.20
PSC80-PSC63-55	PSC63	103	55	63	M20-2.0P	2.30
PSC80-PSC63-80	PSC63	128	80	63	M20-2.0P	2.50
PSC80-PSC63-120	PSC63	168	120	63	M20-2.0P	4.00

• 長度單位 Unit of Length (mm)

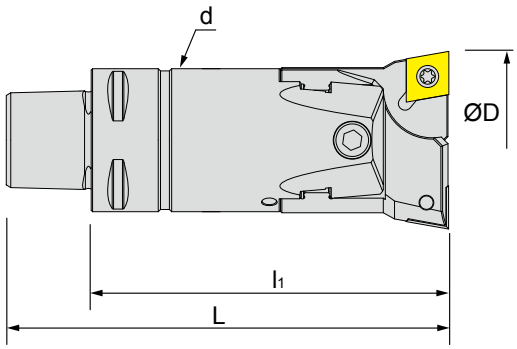
PSC 等徑套筒
PSC ADAPTER FOR SAME DIA.

ISO 26623-1



規格 Spec.	PSC NO.	L	l_1	d_1	T	重量 (KGS) Weight
PSC32-PSC32-60	PSC32	79	60	32	M12-1.5P	0.40
PSC32-PSC32-80	PSC32	99	80	32	M12-1.5P	0.50
PSC40-PSC40-60	PSC40	84	60	40	M14-1.5P	0.50
PSC40-PSC40-80	PSC40	104	80	40	M14-1.5P	0.70
PSC50-PSC50-80	PSC50	110	80	50	M16-1.5P	1.10
PSC50-PSC50-100	PSC50	130	100	50	M16-1.5P	1.40
PSC63-PSC63-80	PSC63	118	80	63	M20-2.0P	2.00
PSC63-PSC63-100	PSC63	138	100	63	M20-2.0P	2.20
PSC63-PSC63-140	PSC63	178	140	63	M20-2.0P	3.18
PSC63-PSC63-200	PSC63	238	200	63	M20-2.0P	4.7
PSC63-PSC63-300	PSC63	338	300	63	M20-2.0P	6.88
PSC80-PSC80-65	PSC80	113	65	80	M20-2.0P	3.10
PSC80-PSC80-100	PSC80	148	100	80	M20-2.0P	3.60
PSC80-PSC80-125	PSC80	173	125	80	M20-2.0P	4.60

PSC/PCK 可調式雙刃粗搪孔頭（一體式）
PSC/PCK ADJUSTABLE DOUBLE-EDGE BORING HEAD



規格 Spec.	øD 搪孔範圍 Boring Range		L	l_1	d	刀片 Insert	重量 (KGS) Weight
	Min.	Max.					
PSC32-PCK3950-80	39	50	99	80	32	CC..09T3	0.49
PSC40-PCK4965-82	49	65	106	82	42	CC..1204	0.49
PSC50-PCK6382-92	63	82	122	92	54	CC..1204	0.70
PSC63-PCK80102-140	80	102	178	140	68	CC..1204	3.60

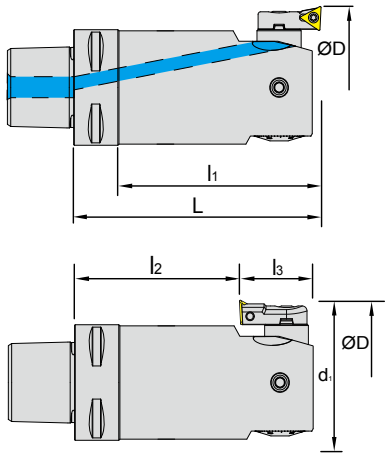
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
CC..09T3	M4-10-5.7-60	T15	3.0
CC..1204	M5-11-7.5-60	T20	5.0

• 長度單位 Unit of Length (mm)

PSC/PMB 超微米精搪頭（一體式）
PSC/PMB SUBMICRON FINISH BORING HEAD

ISO 26623-1

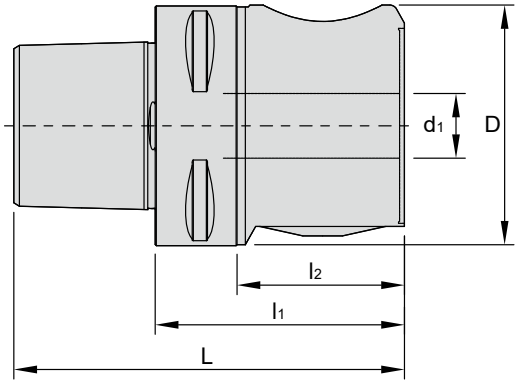


規格 Spec.	øD 搪孔範圍 Boring Range(正搪)					øD 搪孔範圍 Boring Range(背搪)					刀片座 Insert Seat	刀片 Insert	螺絲 Screw	重量 (KGS) Weight
	Min.	Max.	L	l1	l2	Min.	Max.	l2	l3	d1				
PSC32-PMB32-85	32	42	104	85	69	-	-	-	-	-	SIB32-1/SIC32-1	TB..0601 TP..0802	M2-5.0-2.7-60	0.21
	41	51				46	51	55	25	16	SIB32-2/SIC32-2			0.21
	50	60				50	60				SIB32-3/SIC32-3			0.21
PSC40-PMB41-102	41	54	126	102	81	-	-	-	-	-	SIB41-1/SIC41-1	TP..0902 TC..1102	M2.5-6.0-3.5-60	0.40
	50	63				53	63	70	29	20	SIB41-2/SIC41-2			0.40
	61	74				61	74				SIB41-3/SIC41-3			0.40
PSC50-PMB53-112	53	70	142	112	91.5	62	70	74	34	25.5	SIB53-1/SIC53-1	TP..0902 TC..1102		1.10
	65	82				65	82				SIB53-2/SIC53-2			1.10
	78	95				78	95				SIB53-3/SIC53-3			1.10
PSC63-PMB68-140	68	100	178	140	117.5	80	100	90.8	45.2	32.5	SIB68-1/SIC68-1	TP..0902 TC..1102		1.74
	94	126				94	126				SIB68-2/SIC68-2			1.74
	118	150				118	150				SIB68-3/SIC68-3			1.74

※ 不含 SIB/SIC 刀片座，刀片座需另外購買 Not including SIB/SIC insert seat, insert seat need purchase separately.

PSC

PSC/PBJ 高精密搪孔頭（一體式）
PSC/PBJ BORING HEAD

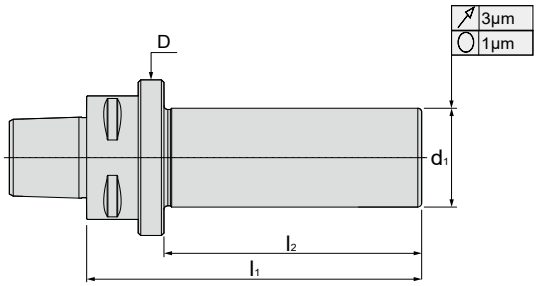


規格 Spec.	L	l1	l2	D	d1	重量 (KGS) Weight
PSC40-PBJ10-48.5	72.5	48.5	28.5	39	10	0.49
PSC50-PBJ12-56	86	56	36	50	12	0.91
PSC63-PBJ16-67	105	67	45	63.5	16	1.76

• 長度單位 Unit of Length (mm)

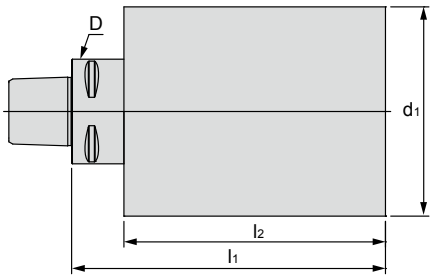
PSC 主軸測試棒
PSC TEST BAR

ISO 26623-1



規格 Spec.	l_1	l_2	D	d_1	重量 (KGS) Weight
PSC32-TS180L-P	180	165	32	20	0.41
PSC40-TS180L-P	180	160	40	32	1.08
PSC50-TS180L-P	180	150	63	32	1.38
PSC50-TS245L-P	245	215	63	32	1.70
PSC50-TS280L-P	280	250	63	40	2.12
PSC63-TS182L-P	182	150	75	40	1.93
PSC63-TS232L-P	232	200	75	40	4.02
PSC63-TS352L-P	352	320	75	40	2.93

PSC 素材
PSC BLANK



規格 Spec.	l_1	l_2	d_1	D	重量 (KGS) Weight
PSC32-Ø32-90	90	-	32	32	0.53
PSC32-Ø60-90	90	75	60	32	1.65
PSC40-Ø40-120	120	-	40	40	1.30
PSC40-Ø80-120	120	100	80	40	4.12
PSC50-Ø50-150	150	-	50	50	2.38
PSC50-Ø95-150	150	130	95	50	7.60
PSC63-Ø63-180	180	-	63	63	4.56
PSC63-Ø120-180	180	158	120	63	14.5
PSC80-Ø80- 200	200	-	80	80	8.30
PSC80-Ø145- 200	200	170	145	80	23.3

• 長度單位 Unit of Length (mm)

BT/SAM 小鋼炮銑削頭
BT/SAM ANGLE HEAD HOLDER FOR LIGHT CUTTING

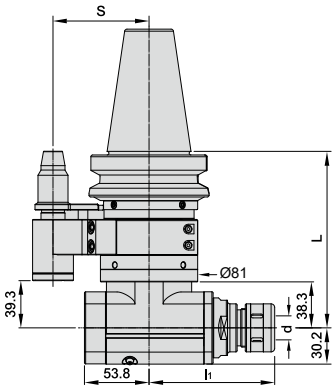


Fig.1

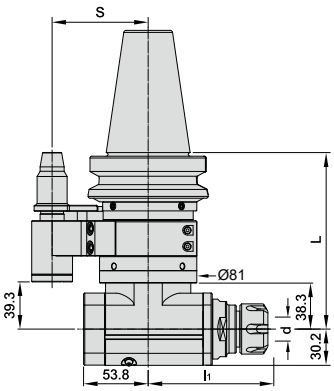


Fig.2

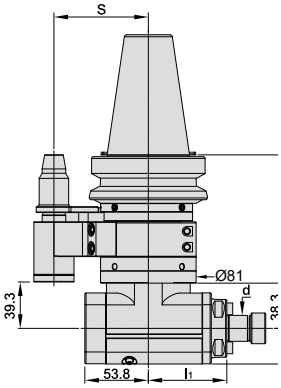


Fig.3

特點 Feature

- 適用加工：鑽孔、攻牙
- 建議切削深度 ≤ 2mm (建議值，需視設備剛性調整)
- 最高轉速：4000rpm
- 最大扭力值：20N·m
- 心軸轉向：與主軸反向
- 可適用 ATC 自動換刀系統

- Applicable for drilling, tapping.
- Suggested Ap ≤ 2mm.
- Max. revolution : 4000 rpm.
- Max. torque : 20N-m.
- Mandrel rotation direction: same as machine spindle.
- Can be used for ATC.

規格 Spec.	L	l_1	S	d	扭力值 (N.m) Torque	筒夾 Collet	Fig.	重量 (KGS) Weight
BT40-SAM16EX-120	120	87	65	Ø1~Ø10	20 N-m	ER16	2	6.40
BT40-SAM20EX-120	120	87	65	Ø1~Ø13	20 N-m	ER20	2	6.40
BT40-SAM25EX-120	120	87	65	Ø1~Ø16	20 N-m	ER25	2	6.40
BT40-SAM32EX-120	120	82	65	Ø2~Ø20	20 N-m	ER32	2	6.44
BT50-SAM16EX-135	135	87	80	Ø1~Ø10	20 N-m	ER16	2	6.40
BT50-SAM20EX-135	135	87	80	Ø1~Ø13	20 N-m	ER20	2	6.40
BT50-SAM25EX-135	135	87	80	Ø1~Ø16	20 N-m	ER25	2	6.40
BT50-SAM32EX-135	135	82	80	Ø2~Ø20	20 N-m	ER32	2	6.44
BT40-SAM16E-120	120	87	65	Ø1~Ø10	20 N-m	ER16	1	6.40
BT40-SAM20E-120	120	87	65	Ø1~Ø13	20 N-m	ER20	1	6.40
BT40-SAM25E-120	120	87	65	Ø1~Ø16	20 N-m	ER25	1	6.40
BT40-SAM32E-120	120	82	65	Ø2~Ø20	20 N-m	ER32	1	6.44
BT50-SAM16E-135	135	87	80	Ø1~Ø10	20 N-m	ER16	1	6.40
BT50-SAM20E-135	135	87	80	Ø1~Ø13	20 N-m	ER20	1	6.40
BT50-SAM25E-135	135	87	80	Ø1~Ø16	20 N-m	ER25	1	6.40
BT50-SAM32E-135	135	82	80	Ø2~Ø20	20 N-m	ER32	1	6.44
BT40-SAM25.4SCX-120	120	66	65	25.4	20 N-m	-	3	6.40
BT40-SAM31.75SCX-120	120	66	65	31.75	20 N-m	-	3	6.40
BT40-SAM25.4SCX-130	130	66	80	25.4	20 N-m	-	3	6.44
BT40-SAM31.75SCX-130	130	66	80	31.75	20 N-m	-	3	6.44

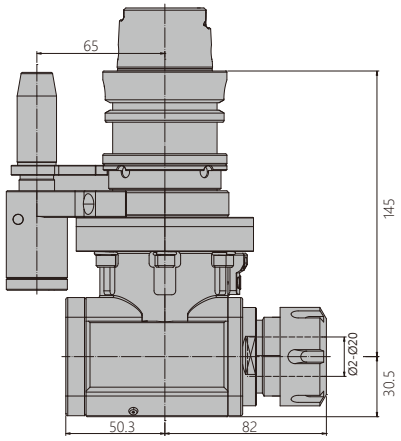
※ 歡迎詢問 SBT 雙面拘束形式 Welcome to ask SBT DualDRIVE+ type.

選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner	定位塊 Fix block
B646-B647	B612/B627	B634/B639	B650/B653	B573-B574

• 長度單位 Unit of Length (mm)

HSK/SAM 小鋼炮銑削頭
HSK/SAM ANGLE HEAD HOLDER FOR LIGHT CUTTING



NEW

特點 Feature

- 適用加工：鑽孔、攻牙。
- 建議切削深度 ≤ 2mm (建議值，需視設備剛性調整)。
- 最高轉速：4000rpm。
- 最大扭力值：20N·m。
- 可耐最高水壓：7kgf/cm2。
- 心軸轉向：與主軸反向。
- 可適用 ATC 自動換刀系統。
- 針對不同機械設備提供多元化冷卻出水系統供客戶作選擇：
  (1) 中心入水刀具出水
  (2) 中心入水給水油珠出水
  (3) 側邊定位塊入水刀具出水
  (4) 側邊定位塊入水給水油珠出水

- Applicable for drilling, tapping.
- Suggested Ap ≤ 2mm.
- Max. revolution : 4000 rpm.
- Max. torque : 20N-m.
- Max. water pressure : 7kgf/cm²(100PSI).
- Rotating direction opposite to machine spindle.
- Can be used for ATC.
- According to different machine devices, it is equipped with versatile coolant systems for customer to choose from.
  (1)Coolant feed from the center and exhaust from the cutting tool.
  (2)Coolant feed from the center and exhaust from the oil ball.
  (3)Coolant feed from stop block and exhaust from cutting tool.
  (4)Coolant feed from the stop block and exhaust from oil ball.

規格 Spec.	L	l_1	S	d	扭力值 (N.m)Torque	重量 (KGS)Weight
HSK63A-SAM16E-145	145	87	65	Ø1~Ø10	20 N-m	6.40
HSK63A-SAM20E-145	145	87	65	Ø1~Ø13	20 N-m	6.40
HSK63A-SAM25E-145	145	87	65	Ø1~Ø16	20 N-m	6.40
HSK63A-SAM32E-145	145	82	65	Ø2~Ø20	20 N-m	6.44
HSK63A-SAM16EX-145	145	87	65	Ø1~Ø10	20 N-m	6.40
HSK63A-SAM20EX-145	145	87	65	Ø1~Ø13	20 N-m	6.40
HSK63A-SAM25EX-145	145	87	65	Ø1~Ø16	20 N-m	6.40
HSK63A-SAM32EX-145	145	82	65	Ø2~Ø20	20 N-m	6.44

選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner	定位塊 Fix block
B646-B647	B612/B627	B634/B639	B650/B653	B573-B574

• 長度單位 Unit of Length (mm)

BT/SAC 中鋼炮銑削頭
BT/SAC ANGLE HEAD HOLDER FOR MEDIUM CUTTING

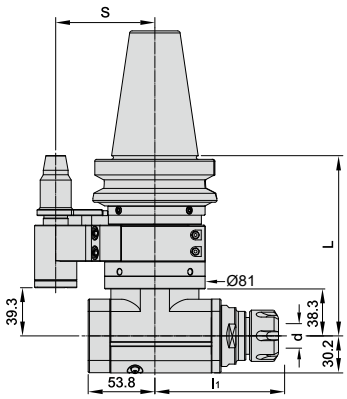


Fig.1

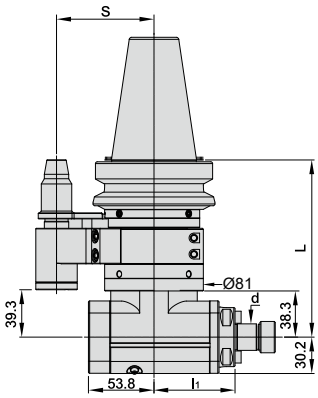


Fig.2

特點 Feature

- 適用加工：鑽孔、攻牙、銑削
- 建議切削深度 ≤ 3mm (建議值，需視設備剛性調整)。
- 最高轉速：3000rpm。
- 最大扭力值：25N·m。
- 心軸轉向：與主軸反向。
- 可適用 ATC 自動換刀系統。

- Applicable for drilling, tapping, and milling.
- Suggested Ap ≤ 3mm.
- Max. revolution : 3000 rpm.
- Max. torque : 25N-m.
- Rotating direction opposite to machine spindle.
- Can be used for ATC.

規格 Spec.	L	l_1	S	d	扭力值 (N.m) Torque	筒夾 Collet	Fig.	重量 (KGS) Weight
BT40-SAC16E-130	130	89.6	65	Ø1~Ø10	25 N-m	ER16	1	6.40
BT40-SAC20E-130	130	91	65	Ø1~Ø13	25 N-m	ER20	1	6.40
BT40-SAC25E-130	130	92	65	Ø1~Ø16	25 N-m	ER25	1	6.40
BT40-SAC32E-130	130	96	65	Ø3~Ø16	25 N-m	ER32	1	6.44
BT50-SAC16E-147	147	89.6	80	Ø1~Ø10	25 N-m	ER16	1	8.40
BT50-SAC20E-147	147	91	80	Ø1~Ø13	25 N-m	ER20	1	8.40
BT50-SAC25E-147	147	92	80	Ø1~Ø16	25 N-m	ER25	1	8.40
BT50-SAC32E-147	147	96	80	Ø3~Ø16	25 N-m	ER32	1	8.44
BT40-SAC25.4FA-130	130	66	65	25.4	25 N-m	-	2	6.54
BT40-SAC22FB-130	130	66	65	22	25 N-m	-	2	6.54
BT50-SAC25.4FA-147	147	66	80	25.4	25 N-m	-	2	8.54
BT50-SAC22FB-147	147	66	80	22	25 N-m	-	2	8.54

選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner	定位塊 Fix block
B646-B647	B612/B627	B634/B639	B650/B653	B573-B574

• 長度單位 Unit of Length (mm)

HSK/SAC 中鋼炮銑削頭
HSK/SAC ANGLE HEAD HOLDER FOR MEDIUM CUTTING

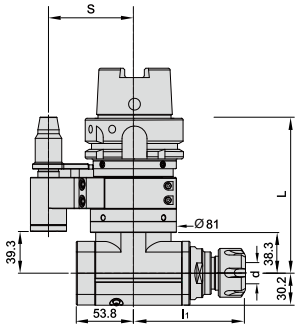


Fig.1

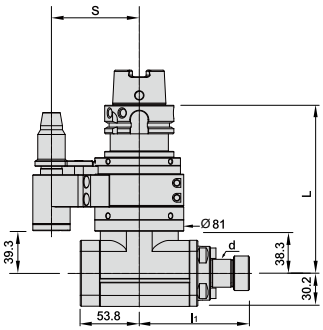


Fig.2

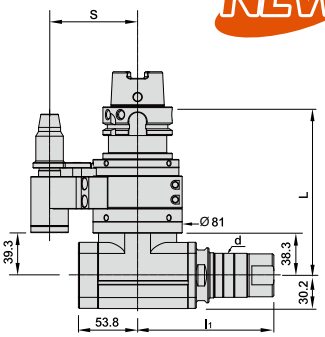


Fig.3

NEW

特點 Feature

- 適用鑽孔、攻牙、銑削
- 最高轉速 : 3000rpm
- 建議最大切深 ≤4mm

- Applicable for drilling, tapping, and milling.
- Max. revolution: 3000 rpm.
- Suggest Ap≤4mm

規格 Spec.	L	l_1	S	d	筒夾 Collet	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
HSK63A-SAC16E-155	155	89.6	65	1~10	ER16	25N-m	1	6.40
HSK63A-SAC20E-155	155	91	65	1~13	ER20	25N-m	1	6.40
HSK63A-SAC25E-155	155	92	65	1~16	ER25	25N-m	1	6.40
HSK63A-SAC32E-155	155	96	65	3~16	ER32	25N-m	1	6.40
HSK100A-SAC16E-151	151	89.6	80	1~10	ER16	25N-m	1	8.40
HSK100A-SAC20E-151	151	91	80	1~13	ER20	25N-m	1	8.40
HSK100A-SAC25E-151	151	92	80	1~16	ER25	25N-m	1	8.40
HSK100A-SAC32E-151	151	96	80	3~16	ER32	25N-m	1	8.44
HSK63A-SAC25.4FA-155	155	66	65	25.4	-	25N-m	2	6.54
HSK63A-SAC22FB-155	155	66	65	22	-	25N-m	2	6.54
HSK100A-SAC25.4FA-151	151	66	80	25.4	-	25N-m	2	8.54
HSK100A-SAC22FB-151	151	66	80	22	-	25N-m	2	8.54
HSK63A-SAC22SC-155	155	67.5	65	22	-	25N-m	3	8.40
HSK63A-SAC25.4SC-155	155	67.5	65	25.4	-	25N-m	3	8.40
HSK100A-SAC22SC-151	151	67.5	80	22	-	25N-m	3	8.40
HSK100A-SAC25.4SC-151	151	67.5	80	25.4	-	25N-m	3	8.40

選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner	定位塊 Fix block
B646-B647	B612/B627	B634/B639	B650/B653	B573-B574

• 長度單位 Unit of Length (mm)

BT/SAR 大鋼炮銑削頭
BT/SAR ANGLE HEAD HOLDER FOR HEAVY-DUTY CUTTING

Fig.1

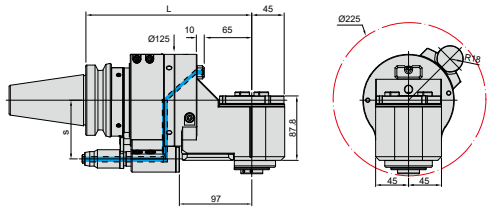
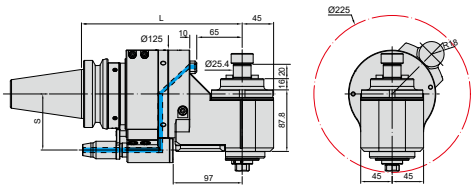


Fig.2



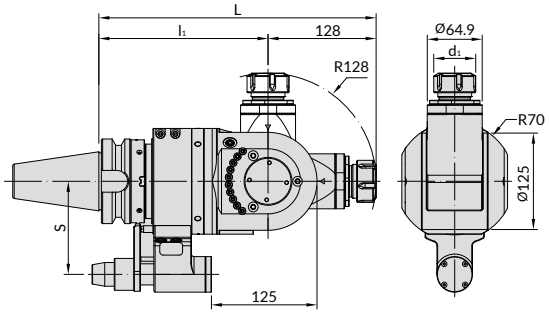
特點 Feature

- 適用加工：鑽孔、攻牙、銑削。
- 建議切削深度 ≤ 4mm (建議值，需視設備剛性調整)。
- 最高轉速：3000rpm。
- 最大扭力值：50N·m。
- 可耐最高水壓：7kgf/cm2。
- 心軸轉向：與主軸同向。
- 臥式、龍門機床可適用 ATC 自動換刀系統。
- 出水方式：側邊定位塊入水給水油珠出水

- Applicable for drilling, tapping, and milling.
- Suggested Ap ≤ 4mm.
- Max. revolution : 3000 rpm.
- Max. torque : 50N-m.
- Mandrel rotation direction: same as machine spindle
- Mandrel rotation direction: same as machine spindle, can be used for ATC.
-Coolant feed from the stop block and exhaust from oil ball.

規格 Spec.	L	S	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
BT50-SAR50/SBT30-230	230	80	50 N-m	1	16.1
BT50-SAR50/SBT30-230S	230	110	50 N-m	1	16.1
BT50-SAR50/FMA25.4-230	230	80	50 N-m	2	16.1
BT50-SAR50/FMA25.4-230S	230	110	50 N-m	2	16.1

BT/SAU 萬向銑削頭
BT/SAU ANGLE HEAD HOLDER(UNIVERSAL TYPE)



特點 Feature

- 齒輪比為 1:1
- 最高轉速 : 3000rpm
- 最大扭力 : 40N.m
- 建議切深 ≤ 4mm
- 主軸角度可調整 0˚~90˚
- 角度調整間距 1˚

-Gear ratio 1:1.
-Max. revolution: 3000rpm.
-Max. torque: 40 N-m.
-Suggested Ap ≤4mm.
-Adjustable spindle angle from 0° to 90° on inclined surfaces.
-Adjustable angle increment: 1°.

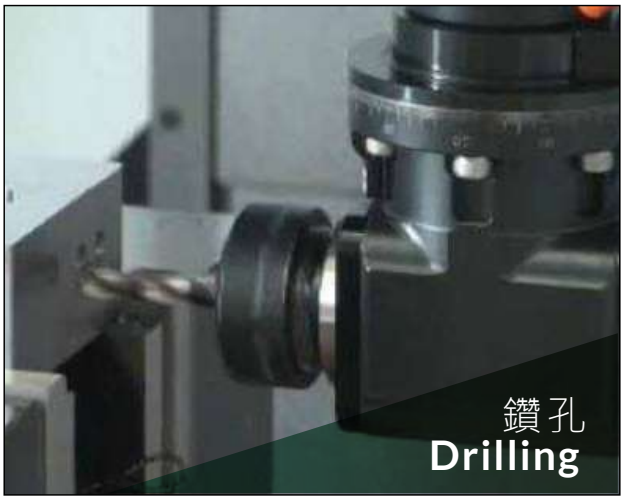
規格 Spec.	L	l_1	S	夾持範圍 Clamping Range	扭力值 (N.m) Torque	筒夾 Collet	重量 (KGS) Weight
BT50-SAU32E-328	328	200	110	2~20	40 N-m	ER32	20.9

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner	定位塊 Fix block
B646-B647	B612/B627	B634/B639	B650/B653	B573-B574

• 長度單位 Unit of Length (mm)

BT/SAM 小鋼炮銑削頭加工實例
BT/SAM ANGLE HEAD HOLDER CUTTING ILLUSTRATION

最大切削扭力 Max. Torque:20N.m



BT40-SAM32EX-120

工件材料Workpiece material: S45C(Steels)

刀具Tool: Ø12高速鋼鑽頭

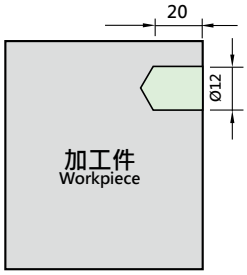
(Ø12 High Speed Steels Drills)

切削速度(Vc): 31m/min

轉速(S): 1000rpm

進給(Vf): 100mm/min

切削深度(Ap): 20mm



BT40-SAM32EX-120

工件材料Workpiece material: S45C(Steels)

刀具Tool: M12x1.75P絲攻

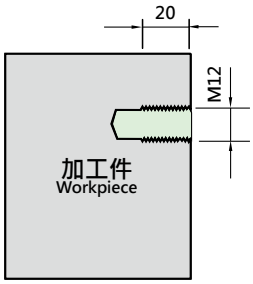
(M12x1.75P Tap)

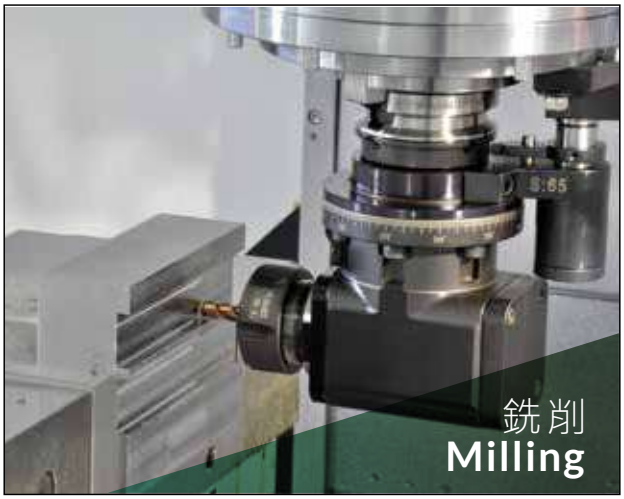
切削速度(Vc): 7.53m/min

轉速(S): 200rpm

進給(Vf): 350mm/min

切削深度(Ap): 20mm





BT40-SAM32EX-120

工件材料Workpiece material: S45C(Steels)

刀具Tool: Ø12鎢鋼立銑刀

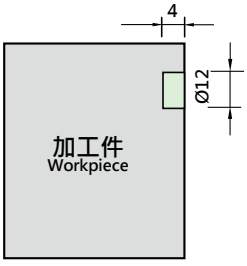
(Ø12 End mills)

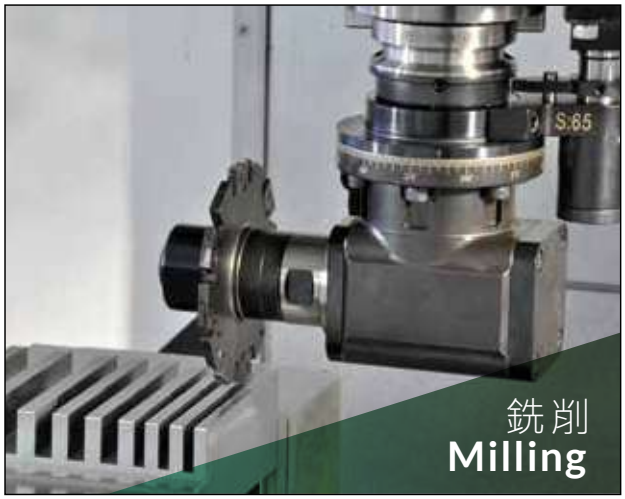
切削速度(Vc): 18.8m/min

轉速(S): 500rpm

進給(Vf): 150mm/min

切削深度(Ap): 4mm





BT40-SAM25.4SCAX-120

工件材料Workpiece material: S45C(Steels)

刀具Tool: SDC-100X08A25.4

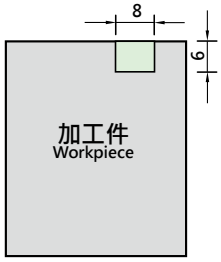
切削速度(Vc): 120m/min

轉速(S): 380rpm

進給(Vf): 90mm/min

切削深度(Ap): 6mm

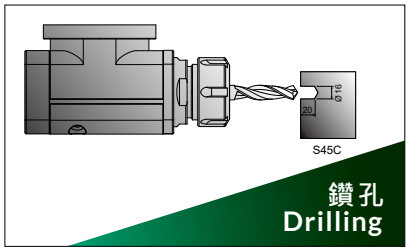
切削深度(Ae): 8mm



• 長度單位 Unit of Length (mm)

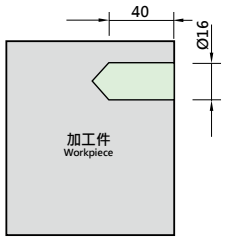
BT/SAC&BT/SAR 加工實例
BT/SAC&BT/SAR ANGLE HEAD HOLDER CUTTING ILLUSTRATION

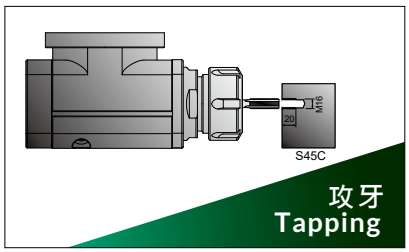
最大切削扭力 Max. Torque 25N.m



BT50-SAC32E-147

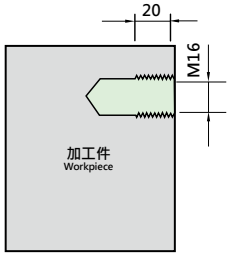
工件材料Workpiece material: S45C(Steels)
刀具Tool: Ø16高速鋼鑽頭
(Ø16 High Speed Steels Drills)
切削速度(Vc): 30.14m/min
轉速(S): 600rpm
進給(Vf): 96mm/min
切削深度(Ap): 40mm

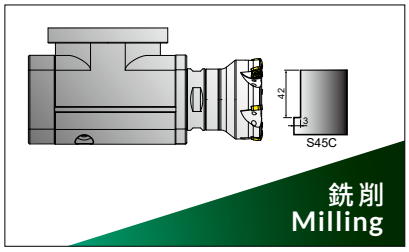




BT50-SAC32E-147

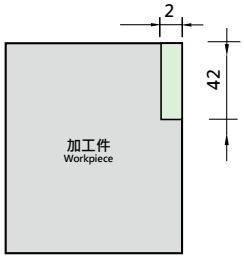
工件材料Workpiece material: S45C(Steels)
刀具Tool: M16x2.0P絲攻
(M16x2.0P Tap)
切削速度(Vc): 10.05m/min
轉速(S): 200rpm
進給(Vf): 400mm/min
切削深度(Ap): 20mm





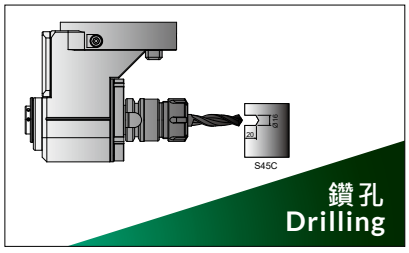
BT50-SAC25.4FA-147

工件材料Workpiece material: S45C(Steels)
刀具Tool: Ø50面銑刀
(Ø50 Face mill)
切削速度(Vc): 65.94m/min
轉速(S): 500rpm
進給(Vf): 150mm/min
切削深度(Ap): 2mm
切削寬度(Ae): 42mm



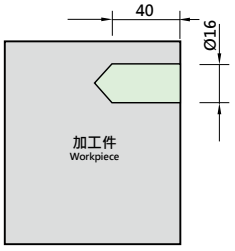
最大切削扭力 Max. Torque 30N.m

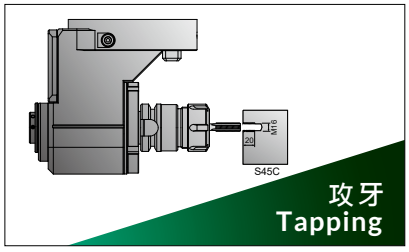
適用：龍門銑床 Applicable: gantry milling machine



BT50-SAR50/SBT30-230
BT30-ER32-50

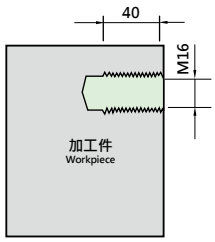
工件材料Workpiece material: S45C(Steels)
刀具Tool: Ø16高速鋼鑽頭
(Ø16 High speed steels drills)
切削速度(Vc): 31m/min
轉速(S): 1000rpm
進給(Vf): 100mm/min
切削深度(Ap): 40mm

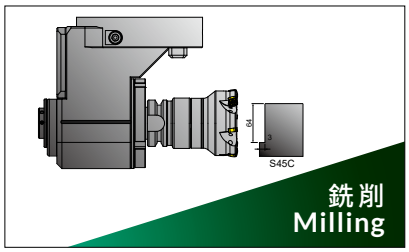




BT50-SAR50/SBT30-230
BT30-ER32-50

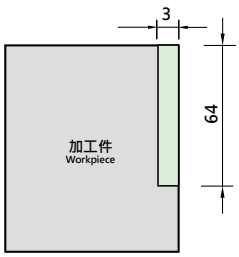
工件材料Workpiece material: S45C(Steels)
刀具Tool: M16x2.0P絲攻
(M16x2.0P Tap)
切削速度(Vc): 10.05m/min
轉速(S): 200rpm
進給(Vf): 400mm/min
切削深度(Ap): 40mm





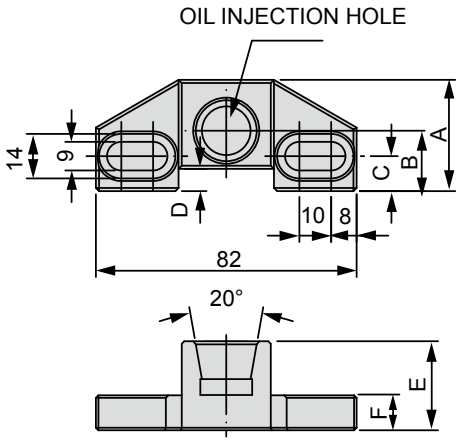
BT50-SAR50/SBT30-230
BT30-FMA25.4-45

工件材料Workpiece material: S45C(Steels)
刀具Tool: Ø80面銑刀
(Ø80 Face mill)
切削速度(Vc): 80.38m/min
轉速(S): 400rpm
進給(Vf): 360mm/min
切削深度(Ap): 3mm
切削寬度(Ae): 64mm



• 長度單位 Unit of Length (mm)

SFT 定位塊（錐度梢）
SFT FIXED BLOCK (TAPPER PIN)



特點 Feature

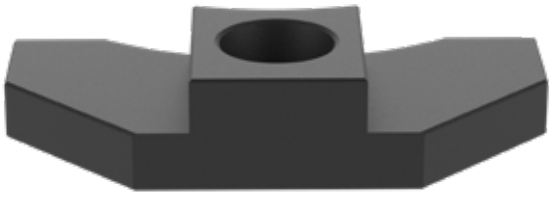
- 定位塊需配合定位梢形式購買
- 購買 SFB 的定位塊為素材，客戶可自行加工為機台 所需之形式
- 定位塊可以裝置在軸上，但要固定在機器上，才不會妨礙到 ATC 臂，固定方法因機台而異，因此裝置前應詢問機器製造商其適合的定位塊裝置方法
- 接受特殊規格訂製，下單之前請詳細提供並填寫相關 尺寸，填寫表在 A068

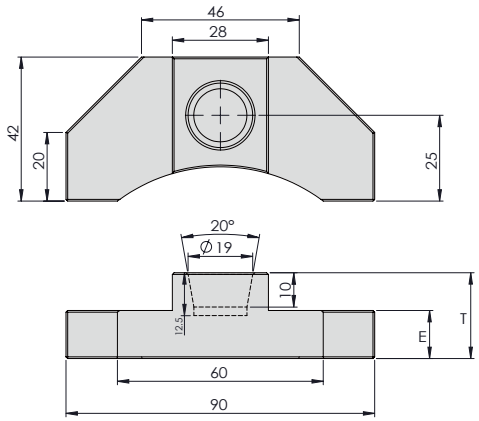
- Applicate for oil hole holder and angle head holder.
- SFB-1 Fixed block is blank, and customers can process the fixed block by themselves to fit the machines.
- The fixed block can be installed on the spindle, but it must be fastened on the machines, so that it won't interfere with the ATC , before installation, it's necessary to consult the machine manufacturers about the correct installation methods.
- Special type is accepted. Before making a purchase order, please informed detailed dimensions by filling out the form in A068

規格 Spec.	適用規格 Suitable Type	A	B	C	D	E	F	T	重量 (KGS) Weight
SFT-40	#40 ??? (???) #40 Fixed block (tapper pin)	40	18.5	10	5	30	13	NPT1/4-18	0.30
SFT-50	#50 ??? (???) #50 Fixed block (tapper pin)	34	19	11	7	35	15	NPT1/4-18	0.32

- 主要用於銑削加工、鑽孔和攻牙 Used for milling,drilling and tapping.

SFT 定位塊素材（錐度梢）
SFT FIXED BLOCK BLANK (TAPPER PIN)

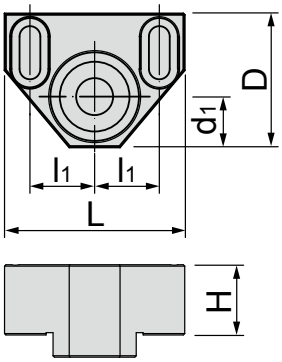




規格 Spec.	E	T	重量 (KGS) Weight
SFT-19L	10	19	-
SFT-22L	12	22	-
SFT-25L	14	25	-

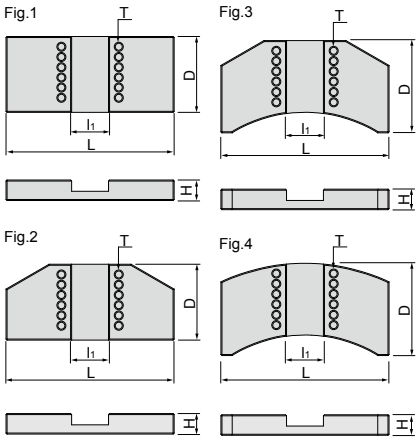
• 長度單位 Unit of Length (mm)

組合式定位塊
FIXED BLOCK(COMBINATION TYPE)



規格 Spec.	D	d_1	L	l_1	H	重量 (KGS) Weight
SFO-A	29	11	39	14	15.2	0.08

組合式定位塊
FIXED BLOCK(COMBINATION TYPE)



特點 Feature

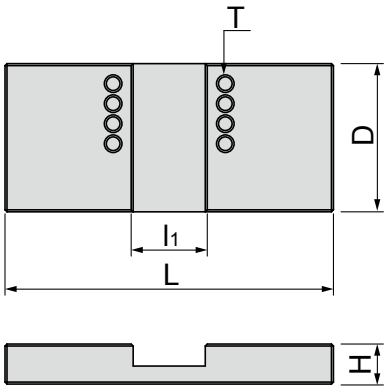
- 定位塊可以裝在主軸上，但要固定在機器上，才不會妨礙到 ATC 換刀臂，固定方法因機台而異，因此，裝置前應詢問機器製造商其適合的定位塊裝置方法
- 接受特殊規格訂製，下單之前請詳細提供並填寫相關尺寸，填寫表在 A068

- The fixed block can be installed on the spindle but it has to be a fixed installation so that it will not interfere with the ATC (Automatic Tool Changer). It is important to consult your machine manufacturer first before installing.
- Special order is accepted but fill out the dimension form on A068 first before ordering.

規格 Spec.	D	L	l_1	H	T	Fig.	重量 (KGS) Weight
SFO-1-10	37	82	18	10	M4	1	0.20
SFO-1-15	37	82	18	15	M4	1	0.32
SFO-2-10	37	82	18	10	M4	2	0.18
SFO-2-15	37	82	18	15	M4	2	0.28
SFO-3-10	45	82	18	10	M4	3	0.19
SFO-3-15	45	82	18	15	M4	3	0.31
SFO-4-10	45	82	18	10	M4	4	0.19
SFO-4-15	45	82	18	15	M4	4	0.31

• 長度單位 Unit of Length (mm)

SFB 角度頭定位塊畫線治具
SFB ANGLE HEAD FIXED BLOCK MAKER



規格 Spec.	D	L	l_1	H	T	重量 (KGS) Weight
SFB-B1-6A	37	82	18.5	6	M4	0.02

範例 Example

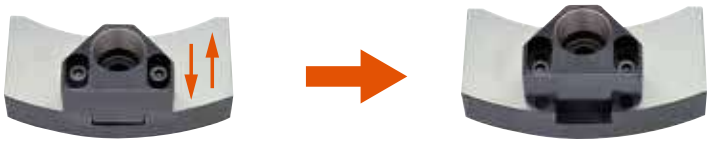
SFO-A(上座)
SFO-A (Upper)

螺絲
Screw

SFO-1-10(下座)
SFO-1-10 (Lower)

組合完成
Installation complete

上座可前後做調整，調合角度頭上定位梢位置，達到完美貼合
The upper angle-head fixed block can be adjusted first before bolting it together to achieve a perfect fit.



• 長度單位 Unit of Length (mm)

SFB 角度頭定位塊套裝組
SFB ANGLE HEAD FIXED BLOCK SET

規格 Spec.	內容物 Contents					重量 (KGS) Weight
	定位塊 Fixed Block	鑽頭 Drill	螺絲 Screw	扳手 Wrench	數量 Qty	
SFB-10P-SET	SFO-1-10	6.8mm 9mm	SH-M4-16 (2 只 -15mm 座用) SH-M4-12 (2 只 -10mm 座用)	PL3	1	3.28
	SFO-1-15					
	SFO-2-10					
	SFO-2-15					
	SFO-3-10					
	SFO-3-15					
	SFO-4-10					
	SFO-4-15					
	SFO-A					
	SFB-B1-6A					

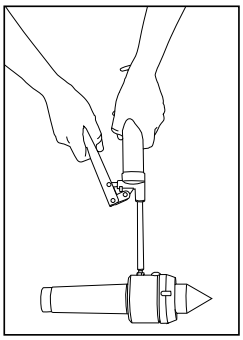
LM-GG 注油器
LM-GG GREASE GUN

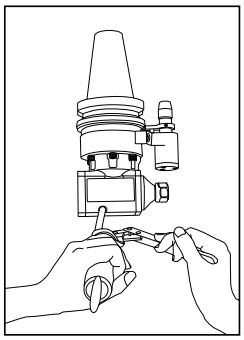
LEMMA

Fig.1

Fig.2

範例 Example





特點 Feature

- 攜帶方便
- 汽車、機械設備皆可適用
- 可放入條狀黃油或裝填桶裝黃油

- Easy to carry.
- Suitable for automobile and mechanical equipments.
- Grease from tubes or drums may be used.

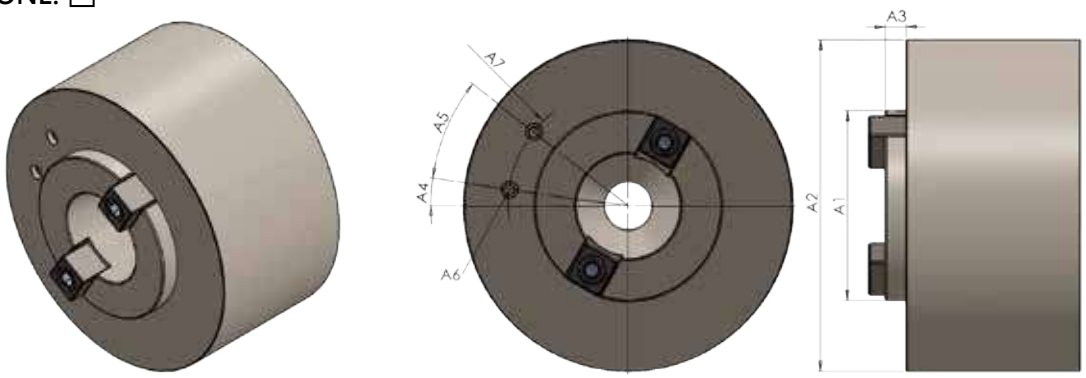
規格 Spec.	工作壓力 (psi) Power	容量 (ml) Capacity	尺寸 (mm) size	Fig.	重量 (KGS) Weight
LM-GG-100	4500	100	210x60x35	1	0.15
LM-GG-500	-	500	380x130x50	2	1.28

• 長度單位 Unit of Length (mm)

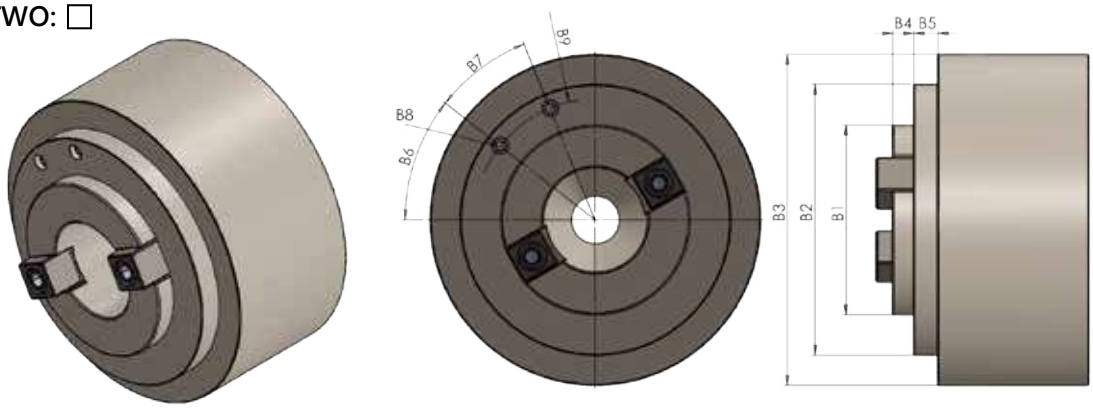
定位塊參考圖
SFB ANGLE HEAD FIXED BLOCK REFERENCE DRAW

- 訂製時請注意主軸中心與定位塊中心的間距的變動，並指明您機器主軸法蘭上的固定螺絲孔尺寸位置
  Before installation, first measure the distance between the center of the spindle and the center of the fixed block. Also, indicate clearly the position of the fixed screw on the flange of the spindle.
- 下單之前，請詳細提供並填寫相關尺寸，透過電子郵件，電話或者傳真與我們連繫
  Before purchasing, please send related detailed dimensions to us by email, phone or fax.

TYPE ONE: ☐



TYPE TWO: ☐



單位 (UNIT):mm

機械廠牌 MACHINE MAKER			
機械型號 MACHINE MODEL			
A1		**A5**	
A2		**A6**	
A3		**A7**	
A4			

單位 (UNIT):mm

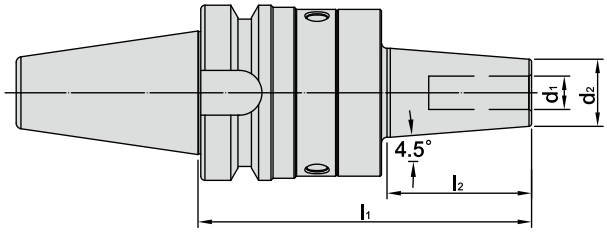
機械廠牌 MACHINE MAKER			
機械型號 MACHINE MODEL			
B1		**B6**	
B2		**B7**	
B3		**B8**	
B4		**B9**	
B5			

- S= 主軸中心到定位塊的中心距離
  S = the distance between the center of the spindle and the center of the fixed block.

• 長度單位 Unit of Length (mm)

BT/SAF 可調式刀桿
BT/SAF RUNOUT ADJUSTABLE HOLDER

法蘭盤形式 Flange Adapter : SFC



特點 Feature

- 藉由調整徑向螺絲及軸向螺絲，刀緣偏擺精度可調整至 2μm 內

- Drive axial and radial set screws for precision adjustment and the runout accuracy of the tool edge can be adjusted within 2μm.

規格 Spec.	l_1	l_2	d_1	d_2	組合 Combination		重量 (KGS) Weight
					本體 Body	法蘭盤 Flange Adapter	
BT30-SAFC6-110	110	52	6	21	BT30-SAFC25	SFC6-70	1.13
BT30-SAFC8-110	110	52	8	21	BT30-SAFC25	SFC8-70	1.12
BT30-SAFC10-110	110	52	10	24	BT30-SAFC25	SFC10-70	1.17
BT30-SAFC12-110	110	52	12	24	BT30-SAFC25	SFC12-70	1.15
BT30-SAFC16-115	115	57	16	27	BT30-SAFC25	SFC16-75	1.20
BT40-SAFC6-120	120	52	6	21	BT40-SAFC25	SFC6-70	1.86
BT40-SAFC8-120	120	52	8	21	BT40-SAFC25	SFC8-70	1.85
BT40-SAFC10-120	120	52	10	24	BT40-SAFC25	SFC10-70	1.90
BT40-SAFC12-120	120	52	12	24	BT40-SAFC25	SFC12-70	1.88
BT40-SAFC16-125	125	57	16	27	BT40-SAFC25	SFC16-75	1.93
BT40-SAFC20-130	130	60	20	33	BT40-SAFC40	SFC20-80	2.67
BT40-SAFC25-150	150	81	25	44	BT40-SAFC40	SFC25-100	3.20
BT40-SAFC32-150	150	81	32	44	BT40-SAFC40	SFC32-100	3.06
BT50-SAFC6-130	130	52	6	21	BT50-SAFC25	SFC6-70	4.34
BT50-SAFC8-130	130	52	8	21	BT50-SAFC25	SFC8-70	4.33
BT50-SAFC10-130	130	52	10	24	BT50-SAFC25	SFC10-70	4.38
BT50-SAFC12-130	130	52	12	24	BT50-SAFC25	SFC12-70	4.36
BT50-SAFC16-135	135	57	16	27	BT50-SAFC25	SFC16-75	4.41
BT50-SAFC20-140	140	60	20	33	BT50-SAFC40	SFC20-80	5.26
BT50-SAFC25-160	160	81	25	44	BT50-SAFC40	SFC25-100	5.79
BT50-SAFC32-160	160	81	32	44	BT50-SAFC40	SFC32-100	5.65

選配表 Option

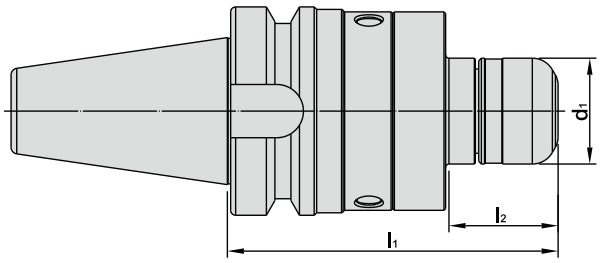
拉頭 Pull Stud

B645-B647

• 長度單位 Unit of Length (mm)

BT/SAF 可調式刀桿
BT/SAF RUNOUT ADJUSTABLE HOLDER

法蘭盤形式 Flange Adapter : PNER **偏擺精度 Precision < 2μm**



特點 Feature

- 藉由調整徑向螺絲及軸向螺絲，刀緣偏擺精度可調整至 2μm 內

- Drive axial and radial set screws for precision adjustment and the runout accuracy of the tool edge can be adjusted within 2μm.

規格 Spec.	l_1	l_2	d_1	組合 Combination		重量 (KGS) Weight
				本體 Body	法蘭盤 Flange Adapter	
BT30-SAFP16-90	90	32	30	BT30-SAFC25	PNER16-50	1.03
BT30-SAFP20-90	90	33	32	BT30-SAFC25	PNER20-50	1.04
BT40-SAFP16-100	100	32	30	BT40-SAFC25	PNER16-50	1.76
BT40-SAFP16-150	150	82	30	BT40-SAFC25	PNER16-100	2.00
BT40-SAFP20-100	100	33	32	BT40-SAFC25	PNER20-50	1.77
BT40-SAFP20-150	150	83	32	BT40-SAFC25	PNER20-100	2.03
BT40-SAFP25-100	100	28.9	40	BT40-SAFC40	PNER25-50	2.41
BT40-SAFP25-150	150	78.9	40	BT40-SAFC40	PNER25-100	2.83
BT40-SAFP32-110	110	40.9	50	BT40-SAFC40	PNER32-60	2.56
BT40-SAFP32-150	150	80.9	50	BT40-SAFC40	PNER32-100	3.11
BT50-SAFP16-110	110	32	30	BT50-SAFC25	PNER16-50	4.24
BT50-SAFP16-160	160	82	30	BT50-SAFC25	PNER16-100	4.48
BT50-SAFP20-110	110	33	32	BT50-SAFC25	PNER20-50	4.25
BT50-SAFP20-160	160	83	32	BT50-SAFC25	PNER20-100	4.51
BT50-SAFP25-110	110	28.9	40	BT50-SAFC40	PNER25-50	5.00
BT50-SAFP25-160	160	78.9	40	BT50-SAFC40	PNER25-100	5.42
BT50-SAFP32-120	120	40.9	50	BT50-SAFC40	PNER32-60	5.15
BT50-SAFP32-160	160	80.9	50	BT50-SAFC40	PNER32-100	5.70

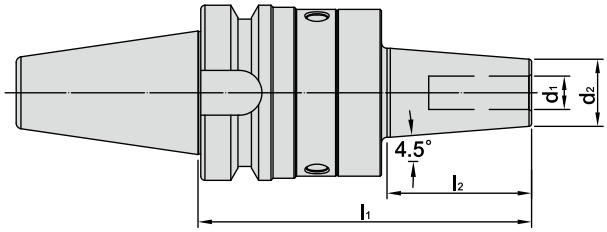
選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B612/B627	B634/B639	B650-B651

• 長度單位 Unit of Length (mm)

SBT/SAF 法蘭加厚型可調式刀桿
SBT/SAF DUAL DRIVE ADJUSTABLE HOLDER

法蘭盤形式 Flange Adapter : SFC | 雙面拘束 Dual Contact | 偏擺精度 Precision < 2μm



特點 Feature

- 藉由調整徑向螺絲及軸向螺絲，刀緣偏擺精度可調整至 2μm 內

- Drive axial and radial set screws for precision adjustment and the runout accuracy of the tool edge can be adjusted within 2μm.

規格 Spec.	l_1	l_2	d_1	d_2	組合 Combination		重量 (KGS) Weight
					本體 Body	法蘭盤 Flange Adapter	
SBT30-SAFC6-110	110	52	6	21	BT30-SAFC25	SFC6-70	1.13
SBT30-SAFC8-110	110	52	8	21	BT30-SAFC25	SFC8-70	1.12
SBT30-SAFC10-110	110	52	10	24	BT30-SAFC25	SFC10-70	1.17
SBT30-SAFC12-110	110	52	12	24	BT30-SAFC25	SFC12-70	1.15
SBT30-SAFC16-115	115	57	16	27	BT30-SAFC25	SFC16-75	1.20
SBT40-SAFC6-120	120	52	6	21	BT40-SAFC25	SFC6-70	1.87
SBT40-SAFC8-120	120	52	8	21	BT40-SAFC25	SFC8-70	1.86
SBT40-SAFC10-120	120	52	10	24	BT40-SAFC25	SFC10-70	1.91
SBT40-SAFC12-120	120	52	12	24	BT40-SAFC25	SFC12-70	1.89
SBT40-SAFC16-125	125	57	16	27	BT40-SAFC25	SFC16-75	1.94
SBT40-SAFC20-130	130	60	20	33	BT40-SAFC40	SFC20-80	2.68
SBT40-SAFC25-150	150	81	25	44	BT40-SAFC40	SFC25-100	3.21
SBT40-SAFC32-150	150	81	32	44	BT40-SAFC40	SFC32-100	3.07
SBT50-SAFC6-130	130	52	6	21	BT50-SAFC25	SFC6-70	4.38
SBT50-SAFC8-130	130	52	8	21	BT50-SAFC25	SFC8-70	4.37
SBT50-SAFC10-130	130	52	10	24	BT50-SAFC25	SFC10-70	4.42
SBT50-SAFC12-130	130	52	12	24	BT50-SAFC25	SFC12-70	4.40
SBT50-SAFC16-135	135	57	16	27	BT50-SAFC25	SFC16-75	4.45
SBT50-SAFC20-140	140	60	20	33	BT50-SAFC40	SFC20-80	5.30
SBT50-SAFC25-160	160	81	25	44	BT50-SAFC40	SFC25-100	5.83
SBT50-SAFC32-160	160	81	32	44	BT50-SAFC40	SFC32-100	5.69

選配表 Option

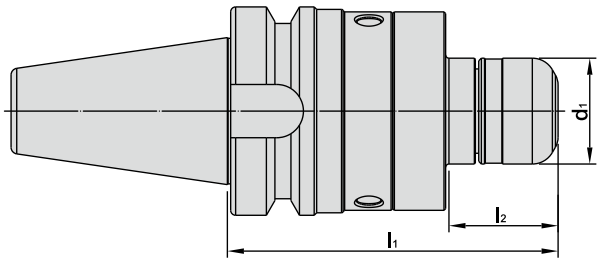
拉頭 Pull Stud

B645-B647

• 長度單位 Unit of Length (mm)

SBT/SAF 法蘭加厚型可調式刀桿
SBT/SAF DUAL DRIVE ADJUSTABLE HOLDER

法蘭盤形式 Flange Adapter : PNER | 雙面拘束 Dual Contact | 偏擺精度 Precision < 2μm



特點 Feature

- 藉由調整徑向螺絲及軸向螺絲，刀緣偏擺精度可調整至 2μm 內

- Drive axial and radial set screws for precision adjustment and the runout accuracy of the tool edge can be adjusted within 2μm.

規格 Spec.	l_1	l_2	d_1	組合 Combination		重量 (KGS) Weight
				本體 Body	法蘭盤 Flange Adapter	
SBT30-SAFP16-90	90	32	30	BT30-SAFC25	PNER16-50	1.03
SBT30-SAFP20-90	90	33	32	BT30-SAFC25	PNER20-50	1.04
SBT40-SAFP16-100	100	32	30	BT40-SAFC25	PNER16-50	1.77
SBT40-SAFP16-150	150	82	30	BT40-SAFC25	PNER16-100	2.01
SBT40-SAFP20-100	100	33	32	BT40-SAFC25	PNER20-50	1.78
SBT40-SAFP20-150	150	83	32	BT40-SAFC25	PNER20-100	2.04
SBT40-SAFP25-100	100	28.9	40	BT40-SAFC40	PNER25-50	2.45
SBT40-SAFP25-150	150	78.9	40	BT40-SAFC40	PNER25-100	2.84
SBT40-SAFP32-110	110	40.9	50	BT40-SAFC40	PNER32-60	2.57
SBT40-SAFP32-150	150	80.9	50	BT40-SAFC40	PNER32-100	3.12
SBT50-SAFP16-110	110	32	30	BT50-SAFC25	PNER16-50	4.28
SBT50-SAFP16-160	160	82	30	BT50-SAFC25	PNER16-100	4.52
SBT50-SAFP20-110	110	33	32	BT50-SAFC25	PNER20-50	4.29
SBT50-SAFP20-160	160	83	32	BT50-SAFC25	PNER20-100	4.55
SBT50-SAFP25-110	110	28.9	40	BT50-SAFC40	PNER25-50	5.04
SBT50-SAFP25-160	160	78.9	40	BT50-SAFC40	PNER25-100	5.46
SBT50-SAFP32-120	120	40.9	50	BT50-SAFC40	PNER32-60	5.19
SBT50-SAFP32-160	160	80.9	50	BT50-SAFC40	PNER32-100	5.74

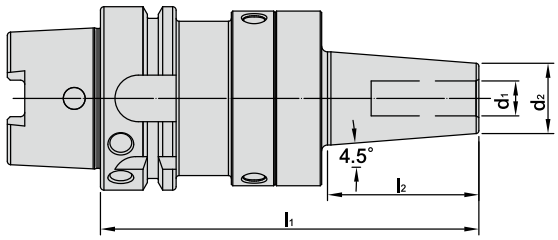
選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B612/B627	B634/B639	B650-B651

• 長度單位 Unit of Length (mm)

HSK/SAF 可調式刀桿
HSK/SAF RUNOUT ADJUSTABLE HOLDER

法蘭盤形式 Flange Adapter : SFC **偏擺精度 Precision < 2μm**



特點 Feature

- 藉由調整徑向螺絲及軸向螺絲，刀緣偏擺精度可調整至 2μm 內

- Drive axial and radial set screws for precision adjustment and the runout accuracy of the tool edge can be adjusted within 2μm.

規格 Spec.	l_1	l_2	d_1	d_2	組合 Combination		重量 (KGS) Weight
					本體 Body	法蘭盤 Flange Adapter	
HSK40A-SAFC6-130	130	52	6	21	HSK40A-SAF25	SFC6-70	1.22
HSK40A-SAFC8-130	130	52	8	21	HSK40A-SAF25	SFC8-70	1.21
HSK40A-SAFC10-130	130	52	10	24	HSK40A-SAF25	SFC10-70	1.26
HSK40A-SAFC12-130	130	52	12	24	HSK40A-SAF25	SFC12-70	1.24
HSK40A-SAFC16-135	135	57	16	27	HSK40A-SAF25	SFC16-75	1.29
HSK50A-SAFC6-130	130	52	6	21	HSK50A-SAF25	SFC6-70	1.34
HSK50A-SAFC8-130	130	52	8	21	HSK50A-SAF25	SFC8-70	1.33
HSK50A-SAFC10-130	130	52	10	24	HSK50A-SAF25	SFC10-70	1.38
HSK50A-SAFC12-130	130	52	12	24	HSK50A-SAF25	SFC12-70	1.36
HSK50A-SAFC16-135	135	57	16	27	HSK50A-SAF25	SFC16-75	1.41
HSK63A-SAFC6-130	130	52	6	21	HSK63A-SAF25	SFC6-70	1.68
HSK63A-SAFC8-130	130	52	8	21	HSK63A-SAF25	SFC8-70	1.67
HSK63A-SAFC10-130	130	52	10	24	HSK63A-SAF25	SFC10-70	1.72
HSK63A-SAFC12-130	130	52	12	24	HSK63A-SAF25	SFC12-70	1.70
HSK63A-SAFC16-135	135	57	16	27	HSK63A-SAF25	SFC16-75	1.75
HSK63A-SAFC20-140	140	60	20	33	HSK63A-SAF40	SFC20-80	2.55
HSK63A-SAFC25-160	160	81	25	44	HSK63A-SAF40	SFC25-100	3.08
HSK63A-SAFC32-160	160	81	32	44	HSK63A-SAF40	SFC32-100	2.94
HSK80A-SAFC6-120	120	52	6	21	HSK80A-SAF25	SFC6-70	1.99
HSK80A-SAFC8-120	120	52	8	21	HSK80A-SAF25	SFC8-70	1.98
HSK80A-SAFC10-120	120	52	10	24	HSK80A-SAF25	SFC10-70	2.03
HSK80A-SAFC12-120	120	52	12	24	HSK80A-SAF25	SFC12-70	2.01
HSK80A-SAFC16-125	125	57	16	27	HSK80A-SAF25	SFC16-75	2.06
HSK80A-SAFC20-140	140	60	20	33	HSK80A-SAF40	SFC20-80	3.14
HSK80A-SAFC25-160	160	81	25	44	HSK80A-SAF40	SFC25-100	3.67
HSK80A-SAFC32-160	160	81	32	44	HSK80A-SAF40	SFC32-100	3.53
HSK100A-SAFC6-125	125	52	6	21	HSK100A-SAF25	SFC6-70	2.93
HSK100A-SAFC8-125	125	52	8	21	HSK100A-SAF25	SFC8-70	2.92
HSK100A-SAFC10-125	125	52	10	24	HSK100A-SAF25	SFC10-70	2.97
HSK100A-SAFC12-125	125	52	12	24	HSK100A-SAF25	SFC12-70	2.95
HSK100A-SAFC16-130	130	57	16	27	HSK100A-SAF25	SFC16-75	3.00
HSK100A-SAFC20-135	135	60	20	33	HSK100A-SAF40	SFC20-80	3.92
HSK100A-SAFC25-155	155	81	25	44	HSK100A-SAF40	SFC25-100	4.45
HSK100A-SAFC32-155	155	81	32	44	HSK100A-SAF40	SFC32-100	4.31

選配表 Option

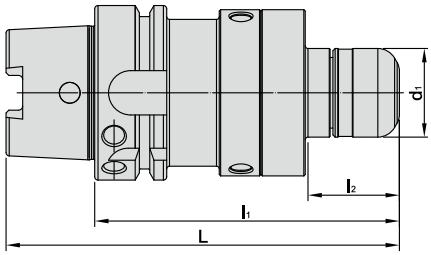
拉頭 Pull Stud

B645-B647

• 長度單位 Unit of Length (mm)

HSK/SAF 可調式刀桿
HSK/SAF RUNOUT ADJUSTABLE HOLDER

法蘭盤形式 Flange Adapter : PNER **偏擺精度 Precision < 2μm**



特點 Feature

- 藉由調整徑向螺絲及軸向螺絲，刀緣偏擺精度可調整至 2μm 內

- Drive axial and radial set screws for precision adjustment and the runout accuracy of the tool edge can be adjusted within 2μm.

規格 Spec.	l_1	l_2	d_1	組合 Combination		筒夾 Collet	重量 (KGS) Weight
				本體 Body	法蘭盤 Flange Adapter		
HSK40A-SAFP16-110	110	32	30	HSK63A-SAF25	PNER16-50	PNER16	1.12
HSK40A-SAFP16-160	160	82	30	HSK63A-SAF25	PNER16-100	PNER16	1.36
HSK40A-SAFP20-110	110	33	32	HSK63A-SAF25	PNER20-50	PNER20	1.13
HSK40A-SAFP20-160	160	83	32	HSK63A-SAF25	PNER20-100	PNER20	1.39
HSK50A-SAFP16-110	110	32	30	HSK63A-SAF25	PNER25-50	PNER25	1.24
HSK50A-SAFP16-160	160	82	30	HSK63A-SAF25	PNER25-100	PNER25	1.48
HSK50A-SAFP20-110	110	33	32	HSK63A-SAF25	PNER32-60	PNER32	1.25
HSK50A-SAFP20-160	160	83	32	HSK63A-SAF25	PNER32-100	PNER32	1.51
HSK63A-SAFP16-110	110	32	30	HSK63A-SAF25	PNER16-50	PNER16	1.58
HSK63A-SAFP16-160	160	82	30	HSK63A-SAF25	PNER16-100	PNER16	1.82
HSK63A-SAFP20-110	110	33	32	HSK63A-SAF25	PNER20-50	PNER20	1.59
HSK63A-SAFP20-160	160	83	32	HSK63A-SAF25	PNER20-100	PNER20	1.85
HSK63A-SAFP25-110	110	28.9	40	HSK63A-SAF40	PNER25-50	PNER25	2.29
HSK63A-SAFP25-160	160	78.9	40	HSK63A-SAF40	PNER25-100	PNER25	2.71
HSK63A-SAFP32-120	120	40.9	50	HSK63A-SAF40	PNER32-60	PNER32	2.44
HSK63A-SAFP32-160	160	80.9	50	HSK63A-SAF40	PNER32-100	PNER32	2.99
HSK80A-SAFP16-100	100	32	30	HSK80A-SAF25	PNER16-50	PNER16	1.89
HSK80A-SAFP16-150	150	82	30	HSK80A-SAF25	PNER16-100	PNER16	2.13
HSK80A-SAFP20-100	100	33	32	HSK80A-SAF25	PNER20-50	PNER20	1.90
HSK80A-SAFP20-150	150	83	32	HSK80A-SAF25	PNER20-100	PNER20	2.16
HSK80A-SAFP25-110	110	28.9	40	HSK80A-SAF40	PNER25-50	PNER25	2.88
HSK80A-SAFP25-160	160	78.9	40	HSK80A-SAF40	PNER25-100	PNER25	3.30
HSK80A-SAFP32-120	120	40.9	50	HSK80A-SAF40	PNER32-60	PNER32	3.03
HSK80A-SAFP32-160	160	80.9	50	HSK80A-SAF40	PNER32-100	PNER32	3.58
HSK100A-SAFP16-105	105	32	30	HSK100A-SAF25	PNER16-50	PNER16	2.83
HSK100A-SAFP16-155	155	82	30	HSK100A-SAF25	PNER16-100	PNER16	3.07
HSK100A-SAFP20-105	105	33	32	HSK100A-SAF25	PNER20-50	PNER20	2.84
HSK100A-SAFP20-155	155	83	32	HSK100A-SAF25	PNER20-100	PNER20	3.10
HSK100A-SAFP25-105	105	28.9	40	HSK100A-SAF40	PNER25-50	PNER25	3.66
HSK100A-SAFP25-155	155	78.9	40	HSK100A-SAF40	PNER25-100	PNER25	4.08
HSK100A-SAFP32-115	115	40.9	50	HSK100A-SAF40	PNER32-60	PNER32	3.81
HSK100A-SAFP32-155	155	80.9	50	HSK100A-SAF40	PNER32-100	PNER32	4.36

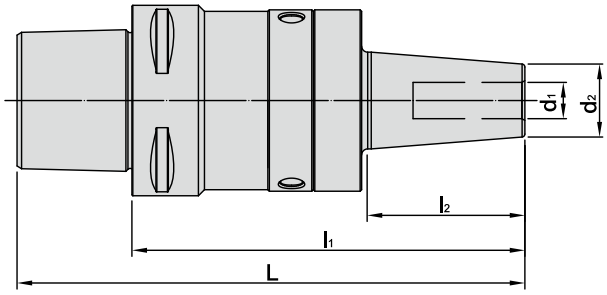
選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B612/B627	B634/B639	B650-B651

• 長度單位 Unit of Length (mm)

PSC/SAF 可調式刀桿
PSC/SAF RUNOUT ADJUSTABLE HOLDER

法蘭盤形式 Flange Adapter : SFC **偏擺精度 Precision < 2μm**



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- 藉由調整徑向螺絲及軸向螺絲，刀緣偏擺精度可調整至 2μm 內

- Drive axial and radial set screws for precision adjustment and the runout accuracy of the tool edge can be adjusted within 2μm.

規格 Spec.	l_1	l_2	d_1	d_2	組合 Combination		重量 (KGS) Weight
					本體 Body	法蘭盤 Flange Adapter	
PSC40-SAFC6-125	125	52	6	21	PSC40-SAF25	SFC6-70	1.28
PSC40-SAFC8-125	125	52	8	21	PSC40-SAF25	SFC8-70	1.27
PSC40-SAFC10-125	125	52	10	24	PSC40-SAF25	SFC10-70	1.32
PSC40-SAFC12-125	125	52	12	24	PSC40-SAF25	SFC12-70	1.30
PSC40-SAFC16-130	130	57	16	27	PSC40-SAF25	SFC16-75	1.35
PSC50-SAFC6-130	130	52	6	21	PSC50-SAF25	SFC6-70	1.62
PSC50-SAFC8-130	130	52	8	21	PSC50-SAF25	SFC8-70	1.61
PSC50-SAFC10-130	130	52	10	24	PSC50-SAF25	SFC10-70	1.66
PSC50-SAFC12-130	130	52	12	24	PSC50-SAF25	SFC12-70	1.64
PSC50-SAFC16-135	135	57	16	27	PSC50-SAF25	SFC16-75	1.69
PSC63-SAFC6-130	130	52	6	21	PSC63-SAF25	SFC6-70	1.97
PSC63-SAFC8-130	130	52	8	21	PSC63-SAF25	SFC8-70	1.96
PSC63-SAFC10-130	130	52	10	24	PSC63-SAF25	SFC10-70	2.01
PSC63-SAFC12-130	130	52	12	24	PSC63-SAF25	SFC12-70	1.99
PSC63-SAFC16-135	135	57	16	27	PSC63-SAF25	SFC16-75	2.04
PSC63-SAFC20-140	140	60	20	33	PSC63-SAF40	SFC20-80	3.01
PSC63-SAFC25-160	160	81	25	44	PSC63-SAF40	SFC25-100	3.54
PSC63-SAFC32-160	160	81	32	44	PSC63-SAF40	SFC32-100	3.40
PSC80-SAFC6-120	120	52	6	21	PSC80-SAF25	SFC6-70	2.55
PSC80-SAFC8-120	120	52	8	21	PSC80-SAF25	SFC8-70	2.57
PSC80-SAFC10-120	120	52	10	24	PSC80-SAF25	SFC10-70	2.59
PSC80-SAFC12-120	120	52	12	24	PSC80-SAF25	SFC12-70	2.57
PSC80-SAFC16-125	125	57	16	27	PSC80-SAF25	SFC16-75	2.62
PSC80-SAFC20-140	140	60	20	33	PSC80-SAF40	SFC20-80	3.81
PSC80-SAFC25-160	160	81	25	44	PSC80-SAF40	SFC25-100	4.32
PSC80-SAFC32-160	160	81	32	44	PSC80-SAF40	SFC32-100	4.20

選配表 Option

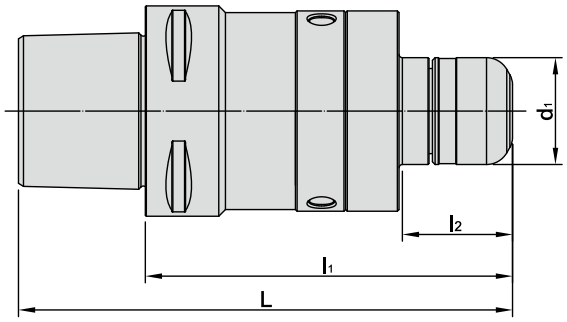
拉頭 Pull Stud

B645-B647

• 長度單位 Unit of Length (mm)

PSC/SAF 可調式刀桿
PSC/SAF RUNOUT ADJUSTABLE HOLDER

法蘭盤形式 Flange Adapter : PNER



特點 Feature

- 藉由調整徑向螺絲及軸向螺絲，刀緣偏擺精度可調整至 2μm 內

- Drive axial and radial set screws for precision adjustment and the runout accuracy of the tool edge can be adjusted within 2μm.

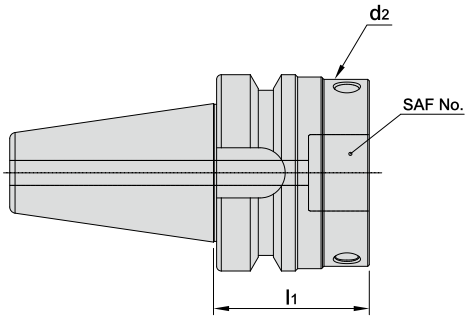
規格 Spec.	l_1	l_2	d_1	組合 Combination		筒夾 Collet	重量 (KGS) Weight
				本體 Body	法蘭盤 Flange Adapter		
PSC40-SAFP16-105	105	32	30	PSC40-SAF25	PNER16-50	PNER16	1.18
PSC40-SAFP16-155	155	82	30	PSC40-SAF25	PNER16-100	PNER16	4.42
PSC40-SAFP20-105	105	33	32	PSC40-SAF25	PNER20-50	PNER20	1.19
PSC40-SAFP20-155	155	83	23	PSC40-SAF25	PNER20-100	PNER20	1.45
PSC50-SAFP16-110	110	32	30	PSC50-SAF25	PNER16-50	PNER16	1.52
PSC50-SAFP16-160	160	82	30	PSC50-SAF25	PNER16-100	PNER16	1.76
PSC50-SAFP20-110	110	33	32	PSC50-SAF25	PNER20-50	PNER20	1.53
PSC50-SAFP20-160	160	83	32	PSC50-SAF25	PNER20-100	PNER20	1.79
PSC63-SAFP16-110	110	32	30	PSC63-SAF25	PNER16-50	PNER16	1.87
PSC63-SAFP16-160	160	82	30	PSC63-SAF25	PNER16-100	PNER16	2.11
PSC63-SAFP20-110	110	33	32	PSC63-SAF25	PNER20-50	PNER20	1.88
PSC63-SAFP20-160	160	83	32	PSC63-SAF25	PNER20-100	PNER20	2.14
PSC63-SAFP25-110	110	28.9	40	PSC63-SAF40	PNER25-50	PNER25	2.75
PSC63-SAFP25-160	160	78.9	40	PSC63-SAF40	PNER25-100	PNER25	3.17
PSC63-SAFP32-120	120	40.9	50	PSC63-SAF40	PNER32-60	PNER32	2.90
PSC63-SAFP32-160	160	80.9	50	PSC63-SAF40	PNER32-100	PNER32	3.45
PSC80-SAFP16-100	100	32	30	PSC80-SAF25	PNER16-50	PNER16	2.45
PSC80-SAFP16-150	150	82	30	PSC80-SAF25	PNER16-100	PNER16	2.69
PSC80-SAFP20-100	100	33	32	PSC80-SAF25	PNER20-50	PNER20	2.46
PSC80-SAFP20-150	150	83	32	PSC80-SAF25	PNER20-100	PNER20	2.72
PSC80-SAFP25-110	110	28.9	40	PSC80-SAF40	PNER25-50	PNER25	3.55
PSC80-SAFP25-160	160	78.9	40	PSC80-SAF40	PNER25-100	PNER25	3.97
PSC80-SAFP32-120	120	40.9	50	PSC80-SAF40	PNER32-60	PNER32	3.70
PSC80-SAFP32-160	160	80.9	50	PSC80-SAF40	PNER32-100	PNER32	4.25

選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B612/B627	B634/B639	B650-B651

• 長度單位 Unit of Length (mm)

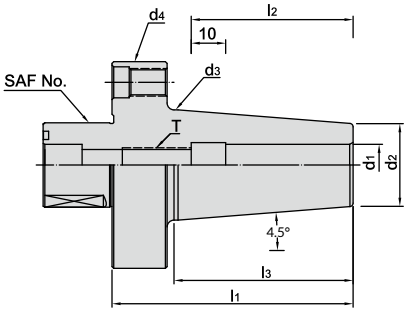
SAF 可調式刀桿本體
SAF RUNOUT ADJUSTABLE HOLDER BODY



規格 Spec.	l_1	d_2	SAF NO.	重量 (KGS) Weight
BT30-SAF25	40	60	1	0.61
BT40-SAF25	50	60	1	1.34
BT40-SAF40	50	80	2	1.48
BT50-SAF25	60	60	1	3.82
BT50-SAF40	60	80	2	4.07
SBT30-SAF25	40	60	1	0.61
SBT40-SAF25	50	60	1	1.35
SBT40-SAF40	50	80	2	1.49
SBT50-SAF25	60	60	1	3.86
SBT50-SAF40	60	80	2	4.11
HSK40A-SAF25	60	60	1	0.70
HSK50A-SAF25	60	60	1	0.82
HSK63A-SAF25	60	60	1	1.16
HSK63A-SAF40	60	80	2	1.36
HSK80A-SAF25	50	60	1	1.47
HSK80A-SAF40	60	80	2	1.95
HSK100A-SAF25	55	60	1	2.41
HSK100A-SAF40	55	80	2	2.73
PSC40-SAF25	55	60	1	0.76
PSC50-SAF25	60	60	1	1.10
PSC63-SAF25	60	60	1	1.45
PSC63-SAF40	60	80	2	1.82
PSC80-SAF25	50	60	1	2.03
PSC80-SAF40	60	80	2	2.62

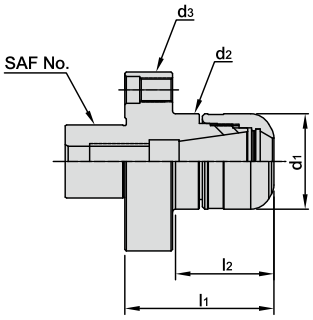
• 長度單位 Unit of Length (mm)

SAF 可調式刀桿法蘭盤 -SFC
SHRINK-FIT CHUCK FLANGE FOR SAF



規格 Spec.	l_1	l_2	l_3	d_1	d_2	d_3	d_4	T	SAF NO.	重量 (KGS) Weight
SFC6-70	70	36	52	6	21	27	60	M5-0.8P	1	0.52
SFC8-70	70	36	52	8	21	27	60	M6-1.0P	1	0.51
SFC10-70	70	42	52	10	24	32	60	M8-1.25P	1	0.56
SFC12-70	70	47	52	12	24	32	60	M10-1.5P	1	0.54
SFC16-75	75	50	57	16	27	34	60	M12-1.75P	1	0.59
SFC20-80	80	52	60	20	33	42	80	M16-2.0P	2	1.19
SFC25-100	100	58	81	25	44	52	80	M20-2.0P	2	1.72
SFC32-100	100	58	81	32	44	52	80	M20-2.0P	2	1.58

SAF 可調式刀桿法蘭盤 -PNER
PNER COLLET CHUCK FLANGE FOR SAF



規格 Spec.	l_1	l_2	d_1	d_2	d_3	SAF NO.	重量 (KGS) Weight
PNER16-50	50	32	30	30	60	1	0.42
PNER16-100	100	82	30	30	60	1	0.66
PNER20-50	50	33	32	32	60	1	0.43
PNER20-100	100	83	32	32	60	1	0.69
PNER25-50	50	28.94	40	40	80	2	0.93
PNER25-100	100	78.9	40	40	80	2	1.35
PNER32-60	60	40.94	50	50	80	2	1.08
PNER32-100	100	80.94	50	50	80	2	1.63

選配表 Option

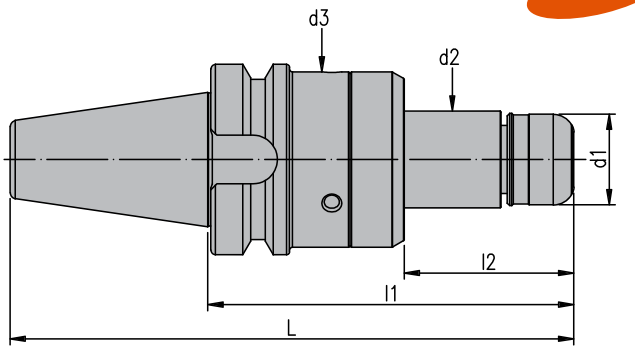
拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B612/B627	B634/B639	B650-B651

• 長度單位 Unit of Length (mm)

SBF 法蘭加厚型可調式徑向歸零刀桿
RADIAL ZERO ADJUSTABLE HOLDER

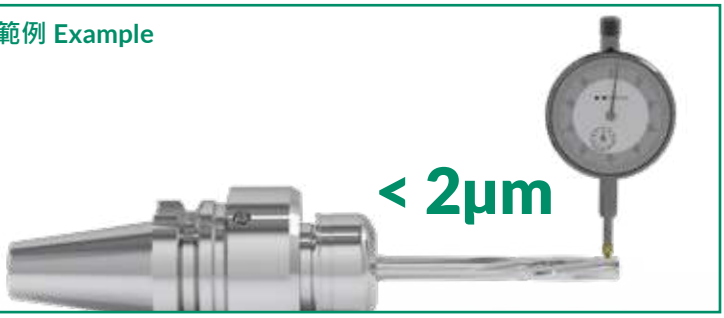
偏擺精度 Precision < 2μm　30 秒偏擺精度歸零

NEW



規格 Spec.	L	l1	l2	d1	d2	d3	COLLET	重量 WEIGHT(KGS)
SBT30-SBF16PN-95	138.4	95	27	30	32	58	PN16	1.16
SBT30-SBF20PN-95	138.4	95	27	32	32	58	PN20	1.14
SBT40-SBF16PN-100	165.4	100	42	30	32	58	PN16	1.70
SBT40-SBF16PN-150	215.4	150	92	30	32	58	PN16	1.98
SBT40-SBF20PN-100	165.4	100	32	32	32	58	PN20	1.68
SBT40-SBF20PN-150	215.4	150	92	32	32	58	PN20	1.95
SBT40-SBF25PN-100	165.4	100	32	40	42	75	PN25	2.31
SBT40-SBF25PN-150	215.4	150	82	40	42	75	PN25	2.79
SBT40-SBF32PN-100	165.4	100	34	50	42	75	PN32	2.24
SBT40-SBF32PN-150	215.4	150	82	50	42	75	PN32	2.82
SBT50-SBF16PN-110	211.8	110	42	30	32	58	PN16	4.29
SBT50-SBF16PN-160	261.8	160	92	30	32	58	PN16	4.60
SBT50-SBF20PN-110	211.8	110	42	32	32	58	PN20	4.24
SBT50-SBF20PN-160	261.8	160	92	32	32	58	PN20	4.55
SBT50-SBF25PN-110	211.8	110	37	40	42	75	PN25	4.82
SBT50-SBF25PN-160	261.8	160	87	40	42	75	PN25	5.26
SBT50-SBF32PN-120	221.8	120	47	50	42	75	PN32	4.94
SBT50-SBF32PN-160	261.8	160	87	50	42	75	PN32	5.30

範例 Example



選配表 Option

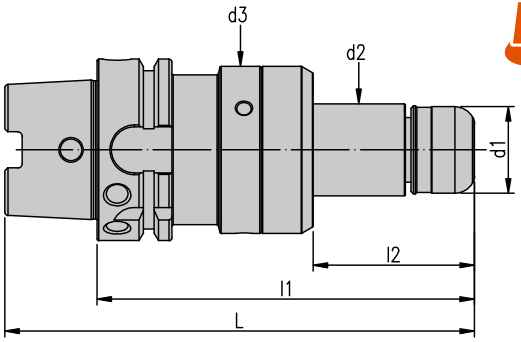
拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B612/B627	B634/B639	B650-B651

• 長度單位 Unit of Length (mm)

SBF 可調式徑向歸零刀桿
RADIAL ZERO ADJUSTABLE HOLDER

偏擺精度 Precision < 2μm　30 秒偏擺精度歸零

NEW



規格 Spec.	L	l1	l2	d1	d2	d3	COLLET	重量 WEIGHT(KGS)
HSK40A-SBF16PN-160	180	160	92	30	32	58	PN16	1.37
HSK40A-SBF20PN-110	130	110	42	32	32	58	PN20	1.04
HSK40A-SBF20PN-160	180	160	92	32	32	58	PN20	1.35
HSK50A-SBF16PN-110	135	110	37	30	32	58	PN16	1.26
HSK50A-SBF16PN-160	185	160	87	30	32	58	PN16	1.56
HSK50A-SBF20PN-110	135	110	37	32	32	58	PN20	1.24
HSK50A-SBF20PN-160	185	160	87	32	32	58	PN20	1.54
HSK63A-SBF16PN-110	142	110	37	30	32	58	PN16	1.62
HSK63A-SBF16PN-160	192	160	87	30	32	58	PN16	1.91
HSK63A-SBF20PN-110	142	110	37	32	32	58	PN20	1.60
HSK63A-SBF20PN-160	192	160	87	32	32	58	PN20	1.89
HSK63A-SBF25PN-110	142	110	32	40	42	75	PN25	2.16
HSK63A-SBF25PN-160	192	160	82	40	42	75	PN25	2.68
HSK63A-SBF32PN-120	152	120	42	50	42	75	PN32	2.23
HSK63A-SBF32PN-160	192	160	82	50	42	75	PN32	2.69
HSK80A-SBF16PN-100	140	100	44	30	32	58	PN16	1.81
HSK80A-SBF16PN-150	190	150	94	30	32	58	PN16	2.10
HSK80A-SBF20PN-100	140	100	44	32	32	58	PN20	1.80
HSK80A-SBF20PN-150	190	150	94	32	32	58	PN20	2.08
HSK80A-SBF25PN-110	150	110	32	40	42	75	PN25	2.81
HSK80A-SBF25PN-160	200	160	82	40	42	75	PN25	3.32
HSK80A-SBF32PN-120	160	120	42	50	42	75	PN32	2.87
HSK80A-SBF32PN-160	200	160	82	50	42	75	PN32	3.33
HSK100A-SBF16PN-105	155	105	47	30	32	58	PN16	2.72
HSK100A-SBF16PN-155	205	155	97	30	32	58	PN16	2.99
HSK100A-SBF20PN-105	155	105	47	32	32	58	PN20	2.70
HSK100A-SBF20PN-155	205	155	97	32	32	58	PN20	2.98
HSK100A-SBF25PN-105	155	105	42	40	42	75	PN25	3.31
HSK100A-SBF25PN-155	205	155	92	40	42	75	PN25	3.81
HSK100A-SBF32PN-115	165	115	52	50	42	75	PN32	3.40
HSK100A-SBF32PN-155	205	155	92	50	42	75	PN32	3.79

選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B612/B627	B634/B639	B650-B651

• 長度單位 Unit of Length (mm)

攻牙系統化示意圖
Tapping System Illustration

剛性攻牙 RIGID TAP

刀桿 Holder

BT-TPL攻牙刀桿
BT-TPL Tapping Holder

TPL實用型直柄伸縮攻牙器
TPL Practical Straight Shank Tapper

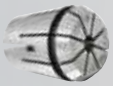
BT/ETP伸縮ER攻牙器
BT/ETP Expansion ER Tapper

STH-CX同步補償剛性攻牙器
STH-CX Synchro Tapping Holder

STH-CX同步補償剛性攻牙器(加長型)
STH-CX Synchro Tapping Holder
(Extensiontool)

筒夾 Chuck

ER鋼性攻牙筒夾
ER-TC Rigid Tap Collet



ER鋼性攻牙止水筒夾
ER-TC Rigid Tap Sealed Collet

螺帽 Nut

ER螺帽
ER Clamping Nut

刀具 Cutting Tool

先端絲攻
Spiral Point Tap

螺旋絲攻
Spiral Flute Tap

擠壓絲攻
Forming Tap

先端絲攻(高硬度)
POT Point Taps

扭力攻牙 QUICK CHANGE TAPPING

刀桿 Holder

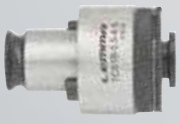
快換式攻牙刀桿-剛性
Quick Change Tapping Chuck

伸縮攻牙器(鑽床專用)
Quick Change Tapping Chuck

軸向伸縮攻牙器
Quick Change Tapping Chuck

快換式伸縮/扭力攻牙刀桿
Quick Change Tapping Chuck

筒夾 Chuck



TCS扭力絲攻筒夾
TCS Quick Change Tapping Collet

刀具 Cutting Tool

先端絲攻
Spiral Point Tap

螺旋絲攻
Spiral Flute Tap

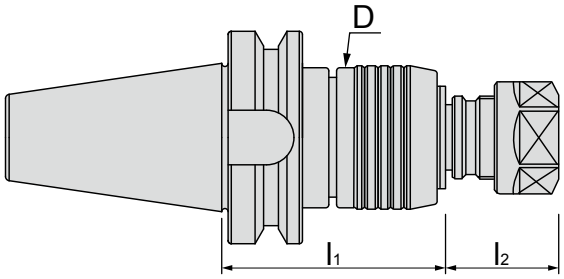
擠壓絲攻
Forming Tap

先端絲攻(高硬度)
POT Point Taps

STH-CX 同步補償剛性攻牙器
STH-CX SYNCHRO TAPPING HOLDER

同步補償，提升 100% 壽命
Synchronized Compensator Expands Tool Life and Provides the Perfect Effect of Usage.

範例 Example



特點 Feature

- 有效消除背隙與過大扭力
- 提升攻牙質量
- 延長絲錐壽命
- 無中心出水

- Effectively eliminate backlash and excessive torque.
- Increasing tapping quality
- Extend tap life.
- Without coolant hole.

BT

規格 Spec.	l1	l2	D	攻牙能力 Capacity	伸縮長度 Length Comp		螺帽 Nut	重量 (KGS) Weight
					縮 (-) Comp	伸 (+) Tens		
BT30-STH16E-CX	70	25	43.4	M3~M12	-	1	ER16	0.82
BT30-STH20E-CX	70	25	43.4	M3~M17	-	1	ER20	1.04
BT40-STH16E-CX	75	25	43.4	M3~M12	-	1	ER16	-
BT40-STH20E-CX	75	35	43.4	M3~M17	-	1	ER20	1.52
BT40-STH32E-CX	95	40	43.4	M10~M24	-	1	ER32	-
BT50-STH16E-CX	90	25	43.4	M3~M12	-	1	ER16	-
BT50-STH20E-CX	90	35	43.4	M3~M17	-	1	ER20	4.46
BT50-STH32E-CX	105	40	60	M10~M24	-	1	ER32	4.90

SBT

規格 Spec.	l1	l2	D	攻牙能力 Capacity	伸縮長度 Length Comp		螺帽 Nut	重量 (KGS) Weight
					縮 (-) Comp	伸 (+) Tens		
SBT30-STH16E-CX	70	25	43.4	M3~M12	-	1	ER16	0.82
SBT30-STH20E-CX	70	25	43.4	M3~M17	-	1	ER20	-
SBT40-STH16E-CX	75	25	43.4	M3~M12	-	1	ER16	-
SBT40-STH20E-CX	75	35	43.4	M3~M17	-	1	ER20	1.52
SBT40-STH32E-CX	95	40	43.4	M10~M24	-	1	ER32	-
SBT50-STH16E-CX	90	25	43.4	M3~M12	-	1	ER16	4.46
SBT50-STH20E-CX	90	35	43.4	M3~M17	-	1	ER20	-
SBT50-STH32E-CX	105	40	60	M10~M24	-	1	ER32	4.90

HSK

規格 Spec.	l1	l2	D	攻牙能力 Capacity	伸縮長度 Length Comp		螺帽 Nut	重量 (KGS) Weight
					縮 (-) Comp	伸 (+) Tens		
HSK63A-STH20E-CX	65	35	43.4	M3~M17	-	1	ER20	
HSK63A-STH32E-CX	97	40	43.4	M10~M24	-	1	ER32	
HSK100A-STH20E-CX	81	35	43.4	M3~M17	-	1	ER20	
HSK100A-STH32E-CX	96	40	43.4	M10~M24	-	1	ER32	

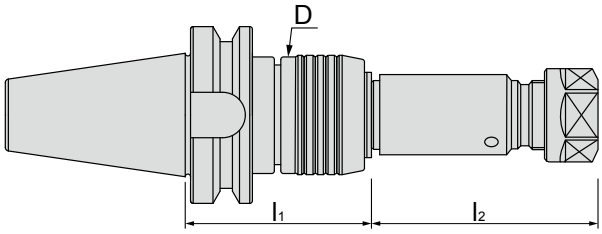
選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B604	B634	B650

• 長度單位 Unit of Length (mm)

TAP

STH-CX 同步補償剛性攻牙器（加長型）
STH-CX SYNCHRO TAPPING HOLDER (EXTENED TYPE)



特點 Feature

- 有效消除背隙與過大扭力
- 提升攻牙質量
- 延長絲錐壽命
- 無中心出水

- Effectively eliminate backlash and excessive torque.
- Increasing tapping quality
- Extend tap life.
- Without coolnat hole.

BT

規格 Spec.	l_1	l_2	D	攻牙能力 Capacity	伸縮長度 Length Comp		螺帽 Nut	重量 (KGS) Weight
					縮 (-) Comp	伸 (+) Tens		
BT30-STH16E-70-CX	70	70	43.4	M3~M12	-	1	ER16	-
BT30-STH20E-70-CX	70	70	43.4	M3~M17	-	1	ER20	-
BT40-STH16E-70-CX	75	70	43.4	M3~M12	-	1	ER16	-
BT40-STH20E-70-CX	75	70	43.4	M3~M17	-	1	ER20	-
BT40-STH32E-70-CX	95	70	60	M10~M24	-	1	ER32	-
BT50-STH16E-70-CX	90	70	43.4	M3~M12	-	1	ER16	-
BT50-STH20E-70-CX	90	70	43.4	M3~M17	-	1	ER20	-
BT50-STH32E-70-CX	105	70	60	M10~M24	-	1	ER32	-

SBT

規格 Spec.	l_1	l_2	D	攻牙能力 Capacity	伸縮長度 Length Comp		螺帽 Nut	重量 (KGS) Weight
					縮 (-) Comp	伸 (+) Tens		
SBT30-STH16E-70-CX	70	70	43.4	M3~M12	-	1	ER16	-
SBT30-STH20E-70-CX	70	70	43.4	M3~M17	-	1	ER20	-
SBT40-STH16E-70-CX	75	70	43.4	M3~M12	-	1	ER16	-
SBT40-STH20E-70-CX	75	70	43.4	M3~M17	-	1	ER20	-
SBT40-STH32E-70-CX	95	70	60	M10~M24	-	1	ER32	-
SBT50-STH16E-70-CX	90	70	43.4	M3~M12	-	1	ER16	-
SBT50-STH20E-70-CX	90	70	43.4	M3~M17	-	1	ER20	-
SBT50-STH32E-70-CX	105	70	60	M10~M24	-	1	ER32	-

範例 Example

- 同步補償，提升 100% 壽命
- Synchronized Compensator Expands Tool Life and Provides the Perfect Effect of Usage.

- 替換夾頭柄，有效解決干涉問題
- Quick Change Collet Solve the Problem of Interference.

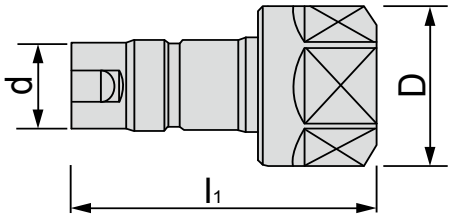
選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B604	B634	B650

• 長度單位 Unit of Length (mm)

TAP

STH-ER 替換夾頭柄
STH-ER EXCHANGE QUICK CHANGE TAPPING CHUCK



規格 Spec.	l_1	D	d	攻牙能力 Capacity	重量 (KGS) Weight
STH-ER16	47	28	20	M3~M12	0.10
STH-ER16-70	93	28	20	M3~M12	0.24
STH-ER20	57	34	20	M3~M17	0.14
STH-ER20-70	93	34	20	M3~M17	0.28
STH-ER32	78	50	32	M10~M24	0.44
STH-ER32-70	103	50	32	M10~M24	0.63

同步補償剛性攻牙器
Synchro tapping holder

替換夾頭柄
Quick change collet

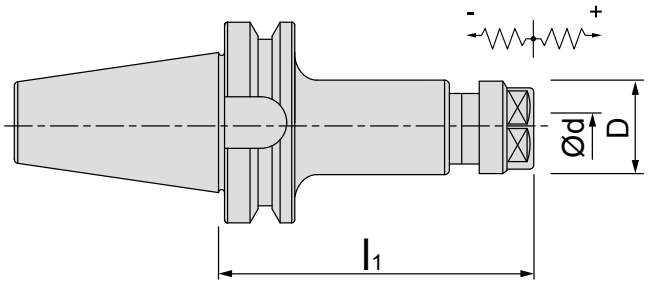
剛性攻牙筒夾
Rigid tap collet

絲攻
Tap

TAP

• 長度單位 Unit of Length (mm)

BT-TPL 攻牙刀桿
BT-TPL TAPPING HOLDER



規格 Spec.	l_1	D	Ød 夾持範圍 Clamp Range	攻牙能力 Capacity	伸縮長度 Length Comp		筒夾 Collet	重量 (KGS) Weight
					縮 (-) Comp	伸 (+) Tens		
BT30-TPL16-80	80	28	Ø0.5~Ø10.0	M3~M12	3	8	ER16	-
BT30-TPL20-80	80	34	Ø1.0~Ø13.0	M3~M17	3	8	ER20	0.66
BT40-TPL16-80	80	28	Ø0.5~Ø10.0	M3~M12	3	8	ER16	-
BT40-TPL20-80	80	34	Ø1.0~Ø13.0	M3~M17	3	8	ER20	1.24
BT40-TPL32-100	100	50	Ø2.0~Ø20.0	M3~M27	3	10	ER32	-
BT50-TPL16-100	100	28	Ø0.5~Ø10.0	M3~M10	3	8	ER16	-
BT50-TPL20-100	100	34	Ø1.0~Ø13.0	M3~M12	3	8	ER20	-
BT50-TPL32-100	100	50	Ø2.0~Ø20.0	M3~M27	3	10	ER32	-

範例 Example

攻牙刀桿
Tapping Holder

剛性攻牙筒夾
Rigid Tap Collet

絲攻
Tap

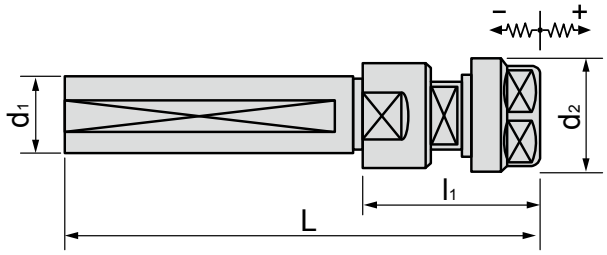
選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B604	B634	B650

• 長度單位 Unit of Length (mm)

TAP

TPL 實用型直柄伸縮攻牙器
TPL PRACTICAL STRAIGHT SHANK TAPPER



特點 Feature

- 穩定性高
- High stability.

規格 Spec.	L	l_1	d_1	d_2	筒夾 Collet	攻牙能力 Capacity	伸縮量 Stretch Size		重量 (KGS) Weight
							伸 (+) elongation	縮 (-) shorten	
TPL-20	125	45	20	34	ER20	M3~M17	8mm	3mm	0.36
TPL-32	145	65	32	50	ER32	M3~M27	10mm	5mm	1.32

TPL 止縮套環
TPL RETREATING FREE RING

Fig.1

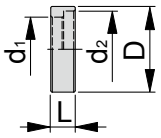
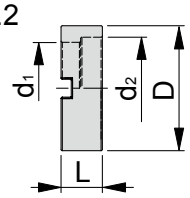


Fig.2



特點 Feature

- 防止 TPL 攻牙器往內縮
- Prevent TPL tapper from retreating back.

規格 Spec.	L	D	d_1	d_2	Fig.	重量 (KGS) Weight
TPL-20-R	8	28	21	25	1	0.01
TPL-32-R	16	49	36	40	2	0.01

範例 Example

TPL-20□□□□□□□□□□□
TPL-20 Practical Straight Shank tapper

TPL-20-R□□□□
TPL-20-R Retreating Free Ring

TPL-32□□□□□□□□□□□
TPL-32 Practical Straight Shank tapper

TPL-32-R□□□□
TPL-32-R Retreating Free Ring

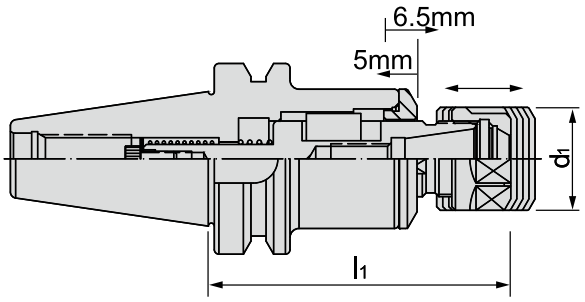
選配表 Option

筒夾 Collet	螺帽 Nut	扳手 Spanner
B604	B634	B650

• 長度單位 Unit of Length (mm)

TAP

BT/ETP 伸縮 ER 攻牙器
BT/ETP EXPANSION TAPPING HOLDER



特點 Feature

- 用伸長 6.5mm，收縮 5mm
- 可搭配剛性攻牙套筒，搭配效果大增

- Elongates6.5mm, contracts 5mm.
- Used along with rigid tap for better result.

規格 Spec.	l_1	d_1	使用筒夾 Collet	攻牙能力 Capacity	重量 (KGS) Weight
BT30-ETP16A-75	75	28	ER16	M3-M10	0.55
BT30-ETP16A-90	90	28	ER16	M3-M10	0.60
BT30-ETP20A-75	75	34	ER20	M3-M17	0.58
BT30-ETP20A-90	90	34	ER20	M3-M17	0.62
BT40-ETP16A-120	120	28	ER16	M3-M10	1.65
BT40-ETP16A-150	150	28	ER16	M3-M10	1.85
BT40-ETP20A-100	100	34	ER20	M3-M17	1.65
BT40-ETP20A-150	150	34	ER20	M3-M17	1.90
BT40-ETP20M-200	200	28	ER20	M3-M17	2.15
BT40-ETP32-125	125	50	ER32	M3-M27	2.10
BT50-ETP16A-120	120	28	ER16	M3-M10	4.30
BT50-ETP16A-150	150	28	ER16	M3-M10	4.50
BT50-ETP20A-100	100	34	ER20	M3-M17	4.30
BT50-ETP20A-150	150	34	ER20	M3-M17	4.60
BT50-ETP20M-200	200	28	ER20	M3-M17	4.70
BT50-ETP32-125	125	50	ER32	M3-M27	4.65

TAP

選配表 Option

拉頭 Pull Stud	筒夾 Collet	螺帽 Nut	扳手 Spanner
B645-B647	B604	B634	B650

• 長度單位 Unit of Length (mm)

快換式伸縮 / 扭力攻牙刀桿
QUICK CHANGE TAPPING CHUCK

Fig.1

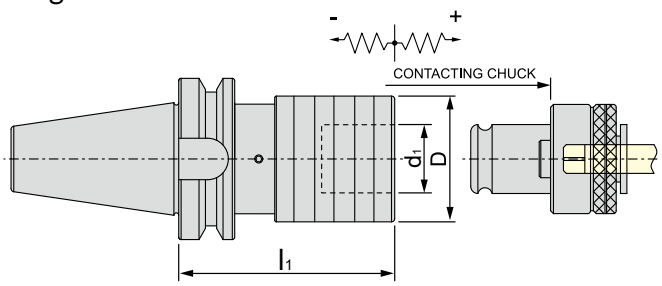
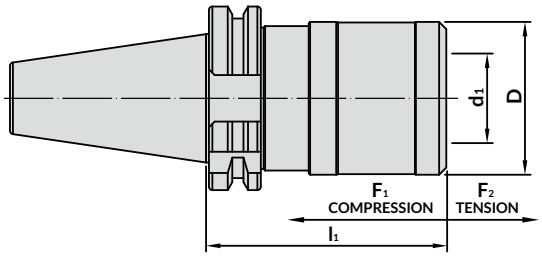


Fig.2



規格 Spec.	攻牙能力 Capacity	絲攻夾頭形式 Tapper Collet Chuck Type	伸縮長度 Length Comp		D	d_1	l_1	Fig	重量 (KGS) Weight
			縮 (-) Comp	伸 (+) Tens					
BT30-312-68	M3~M14	TCS-1B	7.5	7.5	36	19	68	1	0.64
BT40-312-73	M3~M14	TCS-1B	7.5	7.5	36	19	73	1	1.25
BT40-312-135	M3~M14	TCS-1B	15	20	46	19	135	1	2.00
BT40-822-94	M8~M24	TCS-2B	12.5	12.5	53	31	94	1	1.74
BT40-822-165	M8~M24	TCS-2B	15	20	58	31	165	1	3.94
BT40-1638-157	M14~M36	TCS-3B	20	20	78	48	157	1	3.89
BT50-312-84	M3~M14	TCS-1B	7.5	7.5	36	19	84	1	4.00
BT50-312-135	M3~M14	TCS-1B	15	20	46	19	135	1	4.48
BT50-822-103	M8~M24	TCS-2B	12.5	12.5	53	31	103	1	4.50
BT50-822-165	M8~M24	TCS-2B	15	15	58	31	165	1	6.45
BT50-1638-142	M14~M36	TCS-3B	20	20	78	48	142	1	6.06
BT50-1638-200	M14~M36	TCS-3B	20	20	75	48	200	1	7.27
DAT40-312-64	M3~M14	TCS-1B	7.5	7.5	36	19	64	2	1.25
DAT40-822-84	M8~M24	TCS-2B	12.5	12.5	53	31	84	2	1.74
DAT50-312-68	M3~M14	TCS-1B	7.5	7.5	36	19	68	2	4.00
DAT50-822-82	M8~M24	TCS-2B	12.5	12.5	53	31	82	2	4.50
DAT50-1638-122	M14~M36	TCS-3B	20	20	78	48	122	2	6.06

選配表 Option

拉頭 Pull Stud	筒夾 Collet
B645-B647	B604

• 長度單位 Unit of Length (mm)

快換式攻牙刀桿 - 剛性
QUICK CHANGE TAPPING CHUCK

Fig.1

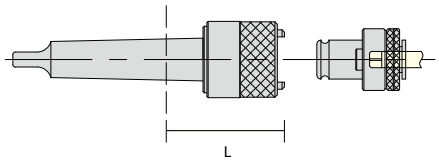
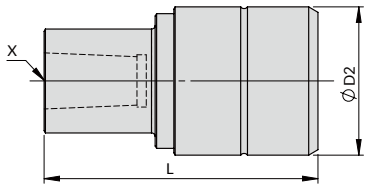
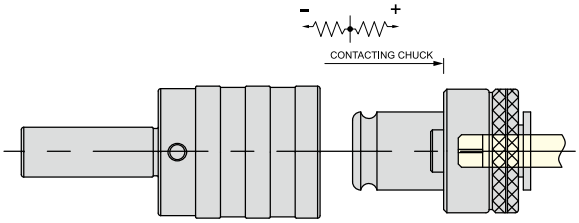


Fig.2



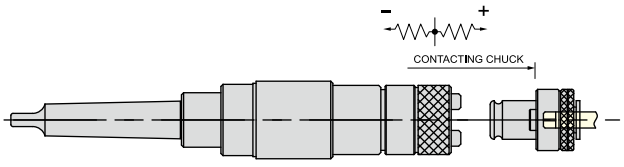
規格 Spec.	攻牙能力 Capacity	使用筒夾 Collet	L	Fig.	重量 (KGS) Weight
MT2-SF12	M3 ~ M14	TCS-1B	46	1	0.20
JT6-SF12	M3 ~ M14	TCS-1B	62	2	0.29
MT3-SF20	M8 ~ M22	TCS-2B	70	1	0.70

伸縮攻牙器（鑽床專用）
QUCIK CHANGE TAPPING CHUCK FOR DRILLING MACHINE



規格 Spec.	攻牙能力 Capacity	使用筒夾 Collet	重量 (KGS) Weight
ST20-WF12	M3~M12 U1/8~U7/16 P1/8~P1/4	TCS-1B	0.62

軸向伸縮攻牙器
QUCIK CHANGE TAPPING CHUCK

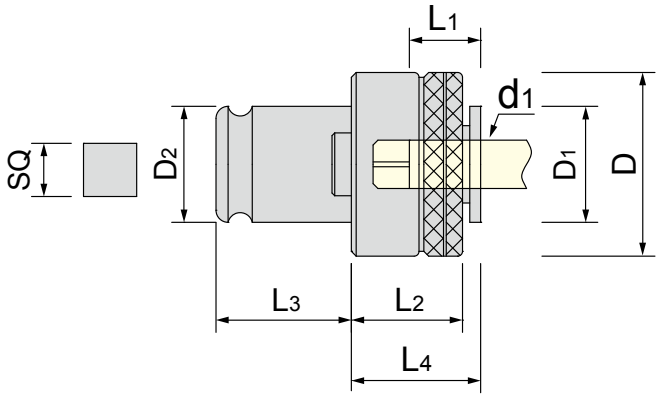


規格 Spec.	攻牙能力 Capacity	使用筒夾 Collet	重量 (KGS) Weight
THL-140-MT2	M3 ~ M14	TCS-1B	0.6
THL-140-JT6	M3 ~ M14	TCS-1B	0.5
THL-240-MT3	M8 ~ M22	TCS-2B	1.7

• 長度單位 Unit of Length (mm)

TCS 扭力絲攻筒夾
TCS QUICK CHANGE TAPPING COLLET

TSC-1B



※ 訂購前請先確認 d_1 及 SQ 尺寸 Before ordering, please make sure the size of d_1 and SQ.

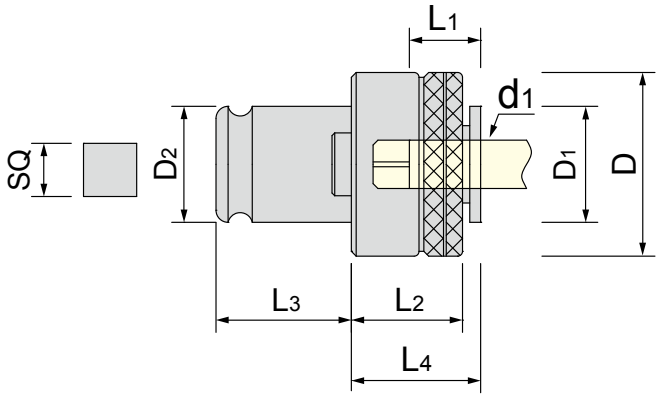
規格 Spec.	d_1	SQ	適用規範 Standard		D	D_1	D_2	L_1	L_2	L_3	L_4	重量 (KGS) Weight
TCS1B-2.5-2	2.5	2	M1.M2	ISO529	32	19	19	17	25	21.5	25	0.18
			M3.5	ISO529/2283								
TCS1B-3-2.5	3	2.5	M2	JIS								
TCS1B-3.15-2.5	3.15		M3	ISO529								
			M4	ISO529/2283								
TCS1B-3.5-2.7	3.5	2.7	M3	DIN371								
			M4.5.M5	DIN376								
TCS1B-4-3.15	4	3.15	M4	ISO529								
			M5	ISO529/2283								
TCS1B-4-3.2		3.2	M3	JIS								
TCS1B-4.5-3.4	4.5	3.4	M4	DIN371								
			M6	DIN376								
TCS1B-4.5-3.55		3.55	M4.5	ISO529								
			M6	ISO529/2283								
TCS1B-5-4	5	4	M4.M4.5	JIS								
			M5	ISO529								
TCS1B-5.5-4.5	5.5	4.5	M5.M5.5	JIS								
TCS1B-6-4.5	6		M6									
TCS1B-6-4.9		4.9	M4.5.M5.M6	DIN371								
			M8	DIN376								
TCS1B-6.1-5	6.1	5	UNC5/16	JIS								
TCS1B-6.2-5	6.2		M8.M7									
TCS1B-6.3-5	6.3		M6	ISO529								
			M8	ISO529/2283								
TCS1B-7-5.5	7	5.5	M10.M9	JIS								
			UNC3/8									
			M10	DIN376								
TCS1B-8-6	8	6	M11	JIS								
			UNC7/16									
			PT1/8									
TCS1B-8-6.2		6.2	M8	DIN371								
TCS1B-8-6.3		6.3	M8	ISO529								
			M10	ISO529/2283								
TCS1B-8.5-6.5	8.5	6.5	M12	JIS								
TCS1B-9-7	9	7	UNC1/2									
			M12	DIN376								
TCS1B-9-7.1		7.1	M9	ISO529								
			M12	ISO529/2283								
TCS1B-10-8	10	8	M10	DIN371								
				ISO529								
TCS1B-10.5-8	10.5		M14.M15	JIS								
			UNC9/16									
TCS1B-11-9	11	9	M14	DIN376								
			PT1/4									
TCS1B-11.2-9	11.2		M14	ISO529/2283								

• 長度單位 Unit of Length (mm)

TAP

TCS 扭力絲攻筒夾
TCS QUICK CHANGE TAPPING COLLET

TSC-2B



※ 訂購前請先確認 d_1 及 SQ 尺寸 Before ordering, please make sure the size of d_1 and SQ.

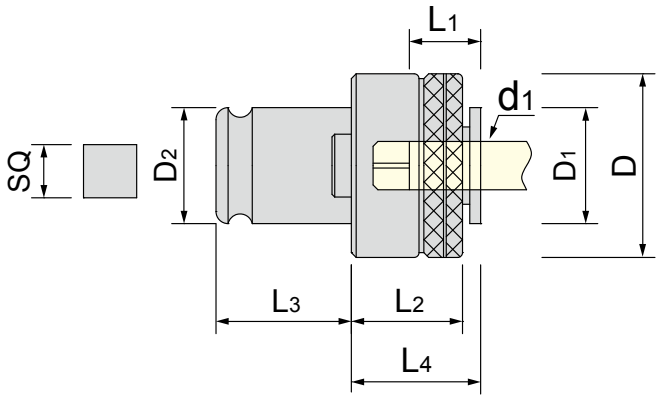
規格 Spec.	d_1	SQ	適用規範 Standard		D	D_1	D_2	L_1	L_2	L_3	L_4	重量 (KGS) Weight
TCS2B-6-4.5	6	4.5	M6	JIS	50	30	31	30	31	35.5	33	0.55
			UNC1/4									
TCS2B-6-4.9		4.9	M4.5.M5.M6	DIN371								
			M8	DIN376								
TCS2B-6.2-5	6.2	5	M8.M7	JIS								
TCS2B-6.3-5	6.3		M6	ISO529								
			M8	ISO529/2283								
TCS2B-7-5.5	7	5.5	M10.M9	JIS								
			UNC3/8									
			M10	DIN376								
TCS2B-8-6	8	6	M11	JIS								
			UNC7/16									
			PT1/8									
TCS2B-8-6.2		6.2	M8	DIN371								
TCS2B-8-6.3		6.3	M8	ISO529								
			M10	ISO529/2283								
TCS2B-8.5-6.5	8.5	6.5	M12	JIS								
TCS2B-9-7	9	7	UNC1/2									
			M12	DIN376								
TCS2B-9-7.1		7.1	M9	ISO529								
			M12	ISO529/2283								
TCS2B-10-8	10	8	M10	DIN371								
				ISO529								
TCS2B-10.5-8	10.5		M14.M15	JIS								
			UNC9/16									
TCS2B-11-9	11	9	M14	DIN376								
			PT1/4	JIS								
TCS2B-11.2-9	11.2		M14	ISO529/2283								
TCS2B-12-9	12		UNC5/8	JIS								
			M16	DIN376								
TCS2B-12.5-10	12.5	10		JIS								
				ISO529/2283								
TCS2B-14-11	14	11	M18	JIS								
			UNC3/4									
			PT3/8									
			M18	DIN376								
TCS2B-14-11.2		11.2	M18.M20	ISO529/2283								
TCS2B-15-12	15	12	M20	JIS								
TCS2B-16-12	16			DIN376								
TCS2B-16-12.5		12.5	M22	ISO529/2283								
TCS2B-17-13	17	13		JIS								
			UNC7/8									
TCS2B-18-14	18	14	M24	ISO529/2283								
			PT1/2	JIS								
TCS2B-18-14.5		14.5	M22.M24	DIN376								
TCS2B-19-15	19	15	M24.M25	JIS								

• 長度單位 Unit of Length (mm)

TAP

TCS 扭力絲攻筒夾
TCS QUICK CHANGE TAPPING COLLET

TSC-3B



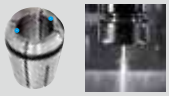
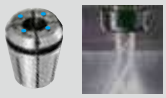
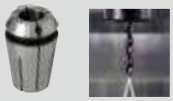
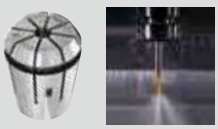
※ 訂購前請先確認 d_1 及 SQ 尺寸 Before ordering, please make sure the size of d_1 and SQ.

規格 Spec.	d_1	SQ	適用規範 Standard		D	D_1	D_2	L_1	L_2	L_3	L_4	重量 (KGS) Weight
TCS3B-10.5-8	10.5	8	M14.M15	JIS	72	47	48	44	41	55.5	45	1.58
			UNC9/16									
TCS3B-11-9	11	9	M14	DIN376								
			PT1/4	JIS								
TCS3B-11.2-9	11.2		M14	ISO529/2283								
TCS3B-12-9	12		UNC5/8	JIS								
			M16	DIN376								
TCS3B-12.5-10	12.5	10		JIS								
				ISO529/2283								
TCS3B-14-11	14	11	M18	JIS								
			UNC3/4									
			PT3/8									
			M18	DIN376								
TCS3B-14-11.2		11.2	M18.M20	ISO529/2283								
TCS3B-15-12	15	12	M20	JIS								
TCS3B-16-12	16			DIN376								
TCS3B-16-12.5		12.5	M22	ISO529/2283								
TCS3B-17-13	17	13		JIS								
			UNC7/8									
TCS3B-18-14	18	14	M24	ISO529/2283								
			PT1/2	JIS								
TCS3B-18-14.5		14.5	M22.M24	DIN376								
TCS3B-19-15	19	15	M24.M25	JIS								
TCS3B-20-15	20		M27.M26									
			UNC1									
TCS3B-20-16		16	M27	DIN376								
			M27.M30	ISO529/2283								
TCS3B-21-17	21	17	M28	JIS								
TCS3B-22-18	22	18	M30	DIN376								
TCS3B-22.4-18	22.4		M33	ISO529/2283								
TCS3B-23-17	23	17	M30	JIS								
			PT3/4	ISO529/2283								
TCS3B-24-19	24	19	M32	JIS								
			UNC1-1/4									
TCS3B-25-19	25		M33									
TCS3B-25-20		20	M33	DIN376								
			M36	ISO529/2283								
TCS3B-26-21	26	21	M35.M34	JIS								
			UNC1-3/8									
			PT1	ISO529/2283								
TCS3B-28-21	28		M36	JIS								
TCS3B-28-22		22		DIN376								

• 長度單位 Unit of Length (mm)

TAP

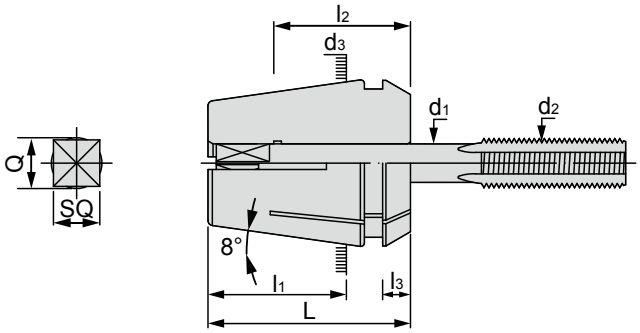
ER 筒夾總覽
ER COLLET INDEX

規格 Spec. / 功能 Features		尺寸範圍 Ø Size Range (mm)	夾持範圍 Clamp Range (mm)		
			0.5 mm	1 mm	2 mm
ER 彈性筒夾 ER COLLET	ER8	1~5	V		
	ER11	1~7	V		
	ER16	1~10	(Ø ≤ 2.5)	V	
	ER20	1~13	(Ø ≤ 2.5)	V	
	ER25	2~16	(Ø ≤ 2.5)	V	
	ER32	2~20	(Ø ≤ 2.5)	V	
	ER40	3~26		V	
	ER50	6~34		(Ø ≤ 10)	V
ER 彈性筒夾 (A 級) ER COLLET (A GRADE)	ER8	1~5	V		
	ER11	1~7	V		
	ER16	1~10	(Ø ≤ 2.5)	V	
	ER20	1~13	(Ø ≤ 2.5)	V	
	ER25	2~16	(Ø ≤ 2.5)	V	
	ER32	2~20	(Ø ≤ 2.5)	V	
	ER40	3~26		V	
	ER50	6~34		(Ø ≤ 10)	V
ER 彈性筒夾 (UP 級) ER COLLET (UP GRADE)	ER8	1~5	V		
	ER11	1~7	V		
	ER16	1~10	(Ø ≤ 2.5)	V	
	ER20	1~13	(Ø ≤ 2.5)	V	
	ER25	2~16	(Ø ≤ 2.5)	V	
	ER32	2~20	(Ø ≤ 2.5)	V	
	ER40	3~26		V	
	ER50	6~34		(Ø ≤ 10)	V
 ER-FID 出水筒夾 ER-FID COOLANT COLLET	ER16-FID	3~9	-	-	-
	ER20-FID	3~12			
	ER25-FID	3~16			
	ER32-FID	3~20			
	ER40-FID	4~26			
 ER-FOD 出水筒夾 ER-FOD COOLANT COLLET	ER16-FOD	3~7	-	-	-
	ER20-FOD	3~9			
	ER25-FOD	3~14			
	ER32-FOD	3~20			
	ER40-FOD	4~26			
	ER50-FOD	6~34			
 ER-EO 止水筒夾 ER-EO SEALED COLLET	ER11-EO	3~7	-	-	-
	ER16-EO	3~10			
	ER20-EO	3~13			
	ER25-EO	3~16			
	ER32-EO	3~20			
	ER40-EO	4~26			
ERS 直溝止水筒夾 ERS METALLIC SEALED COLLET	ERS11	3~7	-	-	-
	ERS16	3~10			
	ERS20	3~13			
	ERS25	3~16			
	ERS32	3~20			
	ERS40	3~26			
ER 鋼性攻牙筒夾 ER RIGID TAP COLLET	ER16-TP	M3 ~ M12 (2.24~10)	-	-	-
	ER20-TP	M3 ~ M17 (2.24~13)			
	ER25-TP	M3 ~ M22 (2.24~16)			
	ER32-TP	M3 ~ M27 (2.24~20)			
	ER40-TP	M3 ~ M27 (2.24~20)			
 ER 剛性攻牙止水筒夾 RIGID TAP SEALED COLLET	ER-TCO16	M5 ~ M10 (6~10)	-	-	-
	ER-TCO20	M5 ~ M17 (6~13)			
	ER-TCO25	M5 ~ M22 (6~16)			
	ER-TCO32	M5 ~ M27 (6~20)			
	ER-TCO40	M5 ~ M27 (6~20)			

ACCESSORIES

精度 Accuracy (mm)			出水 Coolant		止水 Sealed	
≤ 0.005 mm	≤ 0.01 mm	≤ 0.02 mm	溝槽出水 Coolant Groove	端面出水 Coolant-thru End-face	O-ring 止水 O-ring Sealed	斜槽止水 Steel Sealed
		V	-	-	-	-
	V		-	-	-	-
V			-	-	-	-
	V		V			
	V			V		
		V	V		V	
		V				V
-	-	-	-	-	-	-
-	-	-				V

ER 鋼性攻牙筒夾
ER-TC RIGID TAP COLLET



- 材質 :SUJ-2
- 斜度 :8°
- 硬度 :HRC46°
- 表面粗糙度 RZ2.5 以內

- Steel:SUJ - 2
- Taper:8°
- Hardness: HRC46°
- Surface Roughness:RZ 2.5

特點 Feature

- 利用溝槽的差異，有效而穩固地夾住螺絲攻、決不打滑！專利在案
- 適合切削中心機的剛性攻牙加工，或是其他攻牙機械
- 當訂 JIS、DIN、ISO 或其他尺寸，訂購前請校對四角孔需核對 SQ，而圓孔則需對 d1
- 可降低使用攻牙器的成本

- Differences in the use of the trench, effectively and securely grip the screw attack, never slipping! Patents documented.
- Suitable for machining center's rigid tapping or other mechanical.
- When set JIS, DIN, ISO or other sizes, please proofread before ordering: four bye corners should match Kong SQ, and holes should matchh d1.
- Can reduce the cost of using tapper.

規格 Spec.	L	l_1	l_2	l_3	d_1 範圍 Range	d_3	攻牙能力 Capacity	重量 (KGS) Weight
ER16-TP	27.5	17.5	18	4.0	1~7	16	M3~M12	0.02
	27.5	17.5	22	4.0	8~10	16	M3~M12	0.02
ER20-TP	31.5	20.7	18	4.8	1~7	20	M3~M17	0.04
	31.5	20.7	22	4.8	8~10	20	M3~M17	0.04
	31.5	20.7	25	4.8	10.5~13	20	M3~M17	0.04
ER25-TP	34	23	18	5.0	1~7	25	M3~M22	0.06
	34	23	22	5.0	8~10	25	M3~M22	0.06
	34	23	25	5.0	10.5~16	25	M3~M22	0.06
ER32-TP	40	27.34	18	5.5	1~7	32	M3~M27	0.14
	40	27.34	22	5.5	8~10	32	M3~M27	0.14
	40	27.34	25	5.5	10.5~16	32	M3~M27	0.14
	40	27.34	28	5.5	17~20	32	M3~M27	0.14
ER40-TP	46	31.4	18	7	1~7	40	M3~M27	0.24
	46	31.4	22	7	8~10	40	M3~M27	0.24
	46	31.4	25	7	10.5~16	40	M3~M27	0.24
	46	31.4	28	7	17~20	40	M3~M27	0.24

• 長度單位 Unit of Length (mm)

ER 鋼性攻牙筒夾
ER-TC RIGID TAP COLLET

ER16

規格 Spec.	絲攻柄徑 Shank diameter of tapper d_1	使用絲攻範圍 Tapping range d_2	
ER16-2.24TP	2.24	M3	ISO - 529
ER16-2.5TP	2.5	M3.5 M3.5	DIN - 376 ISO - 529
ER16-2.8TP	2.8	M4	DIN - 376
ER16-3.15TP	3.15	M3 M4	ISO - 529 ISO - 529
ER16-3.5TP	3.5	M3 M3 M5	DIN - 352 DIN - 371 DIN - 376
ER16-3.55TP	3.55	M3.5 M4.5	ISO - 529 ISO - 529
ER16-4TP	4	M3 M3.5 M3.5 M4 M5	JIS DIN - 352 DIN - 371 ISO - 529 ISO - 529
ER16-4.5TP	4.5	M4 M4 M6 M6	DIN - 362 DIN - 371 DIN - 376 ISO - 529
ER16-5TP	5	M4 M4.5 M5	JIS JIS ISO - 529
ER16-5.5TP	5.5	M5 M5.5	JIS JIS
ER16-6TP	6	M5 M5 M6 M6 M6 M8 M8	DIN - 352 DIN - 371 JIS DIN - 352 DIN - 371 DIN - 352 DIN - 376
ER16-6.2TP	6.2	M7 M8	JIS JIS
ER16-6.3TP	6.3	M6 M8	ISO - 529 ISO - 529
ER16-7TP	7	M9 M10 M10 M10	JIS JIS DIN - 352 DIN - 376
ER16-8TP	8	M8 M8 M10 M11	DIN - 371 ISO - 529 ISO - 529 JIS
ER16-8.5TP	8.5	M12	JIS
ER16-9TP	9	M12 M12 M12	DIN - 352 DIN - 376 ISO - 529
ER16-10TP	10	M10 M10	DIN - 371 ISO - 529

ER20

規格 Spec.	絲攻柄徑 Shank diameter of tapper d_1	使用絲攻範圍 Tapping range d_2	
ER20-2.24TP	2.24	M3	ISO - 529
ER20-2.5TP	2.5	M3.5 M3.5	DIN - 376 DIN - 529
ER20-2.8TP	2.8	M4	DIN - 376
ER20-3.15TP	3.15	M3 M4	ISO - 529 ISO - 529
ER20-3.5TP	3.5	M3 M3 M5	DIN - 352 DIN - 371 DIN - 376
ER20-3.55TP	3.55	M3.5 M4.5	ISO - 529 ISO - 529
ER20-4TP	4	M3 M3.5 M3.5 M4 M5	JIS DIN - 352 DIN - 371 ISO - 529 ISO - 529
ER20-4.5TP	4.5	M4 M4 M6 M6	DIN - 362 DIN - 371 DIN - 376 ISO - 529
ER20-5TP	5	M4 M4.5 M5	JIS JIS ISO - 529
ER20-5.5TP	5.5	M5 M5.5	JIS JIS
ER20-6TP	6	M5 M5 M6 M6 M6 M8 M8	DIN - 352 DIN - 371 JIS DIN - 352 DIN - 371 DIN - 352 DIN - 376
ER20-6.2TP	6.2	M7 M8	JIS JIS
ER20-6.3TP	6.3	M6 M8	ISO - 529 ISO - 529
ER20-7TP	7	M9 M10 M10 M10	JIS JIS DIN - 352 DIN - 376
ER20-8TP	8	M8 M8 M10 M11	DIN - 371 ISO - 529 ISO - 529 JIS
ER20-8.5TP	8.5	M12	JIS
ER20-9TP	9	M12 M12 M12	DIN - 352 DIN - 376 ISO - 529
ER20-10TP	10	M10 M10	DIN - 371 ISO - 529
ER20-10.5TP	10.5	M14 M15	JIS JIS
ER20-11TP	11	M14 M14	DIN - 352 DIN - 376
ER20-11.2TP	11.2	M14	ISO - 529
ER20-12TP	12	M16 M16	DIN - 352 DIN - 376
ER20-12.5TP	12.5	M16 M16	JIS ISO - 529
ER20-13TP	13	M17	JIS

• 長度單位 Unit of Length (mm)

ER 鋼性攻牙筒夾
ER-TC RIGID TAP COLLET

ER25

規格 Spec.	絲攻柄徑 Shank diameter of tapper d_1	使用絲攻範圍 Tapping range d_2	
ER25-2.24TP	2.24	M3	ISO - 529
ER25-2.5TP	2.5	M3.5 M3.5	DIN - 376 ISO - 529
ER25-2.8TP	2.8	M4	DIN - 376
ER25-3.15TP	3.15	M3 M4	ISO - 529 ISO - 529
ER25-3.5TP	3.5	M3 M3 M5	DIN - 352 DIN - 371 DIN - 376
ER25-3.55TP	3.55	M3.5 M4.5	ISO - 529 ISO - 529
ER25-4TP	4	M3 M3.5 M3.5 M4 M5	JIS DIN - 352 DIN - 371 ISO - 529 ISO - 529
ER25-4.5TP	4.5	M4 M4 M6 M6	DIN - 362 DIN - 371 DIN - 376 ISO - 529
ER25-5TP	5	M4 M4.5 M5	JIS JIS ISO - 529
ER25-5.5TP	5.5	M5 M5.5	JIS JIS
ER25-6TP	6	M5 M5 M6 M6 M6 M8 M8	DIN - 352 DIN - 371 JIS DIN - 352 DIN - 371 DIN - 352 DIN - 376
ER25-6.2TP	6.2	M7 M8	JIS JIS
ER25-6.3TP	6.3	M6 M8	ISO - 529 ISO - 529
ER25-7TP	7	M9 M10 M10 M10	JIS JIS DIN - 352 DIN - 376
ER25-8TP	8	M8 M8 M10 M11	DIN - 371 ISO - 529 ISO - 529 JIS
ER25-8.5TP	8.5	M12	JIS
ER25-9TP	9	M12 M12 M12	DIN - 352 DIN - 376 ISO - 529
ER25-10TP	10	M10 M10	DIN - 371 ISO - 529
ER25-10.5TP	10.5	M14 M15	JIS JIS
ER25-11TP	11	M14 M14	DIN - 352 DIN - 376
ER25-11.2TP	11.2	M14	ISO - 529
ER25-12TP	12	M16 M16	DIN - 352 DIN - 376
ER25-12.5TP	12.5	M16	JIS
ER25-12.5TP	12.5	M16	ISO - 529
ER25-13TP	13	M17	JIS
ER25-14TP	14	M18 M18 M18 M18 M20	JIS DIN - 352 DIN - 376 ISO - 529 ISO - 529
ER25-15TP	15	M20	JIS
ER25-16TP	16	M20 M20 M22	DIN - 352 DIN - 376 ISO - 529

ER32

規格 Spec.	絲攻柄徑 Shank diameter of tapper d_1	使用絲攻範圍 Tapping range d_2	
ER32-2.24TP	2.24	M3	ISO - 529
ER32-2.5TP	2.5	M3.5 M3.5	DIN - 376 ISO - 529
ER32-2.8TP	2.8	M4	DIN - 376
ER32-3.15TP	3.15	M3 M4	ISO - 529 ISO - 529
ER32-3.5TP	3.5	M3 M3 M5	DIN - 352 DIN - 371 DIN - 376
ER32-3.55TP	3.55	M3.5 M4.5	ISO - 529 ISO - 529
ER32-4TP	4	M3 M3.5 M3.5 M4 M5	JIS DIN - 352 DIN - 371 ISO - 529 ISO - 529
ER32-4.5TP	4.5	M4 M4 M6 M6	DIN - 362 DIN - 371 DIN - 376 ISO - 529
ER32-5TP	5	M4 M4.5 M5	JIS JIS ISO - 529
ER32-5.5TP	5.5	M5 M5.5	JIS JIS
ER32-6TP	6	M5 M5 M6 M6 M6 M8 M8	DIN - 352 DIN - 371 JIS DIN - 352 DIN - 371 DIN - 352 DIN - 376
ER32-6.2TP	6.2	M7 M8	JIS JIS
ER32-6.3TP	6.3	M6 M8	ISO - 529 ISO - 529
ER32-7TP	7	M9 M10 M10 M10 M10	JIS JIS DIN - 352 DIN - 352 DIN - 376
ER32-8TP	8	M8 M8 M10 M11	DIN - 371 ISO - 529 ISO - 529 JIS
ER32-8.5TP	8.5	M12	JIS

• 長度單位 Unit of Length (mm)

TAP

ER 鋼性攻牙筒夾
ER-TC RIGID TAP COLLET

ER32

規格 Spec.	絲攻柄徑 Shank diameter of tapper d_1	使用絲攻範圍 Tapping range d_2	
ER32-9TP	9	M12 M12 M12	DIN - 352 DIN - 376 ISO - 529
ER32-10TP	10	M10 M10	DIN - 371 ISO - 529
ER32-10.5TP	10.5	M14 M15	JIS JIS
ER32-11TP	11	M14 M14	DIN - 352 DIN - 376
ER32-11.2TP	11.2	M14	ISO - 529
ER32-12TP	12	M16 M16	DIN - 352 DIN - 376
ER32-12.5TP	12.5	M16 M16	JIS ISO - 529
ER32-13TP	13	M17	JIS
ER32-14TP	14	M18 M18 M18 M18 M20	JIS DIN - 352 DIN - 376 ISO - 529 ISO - 529
ER32-15TP	15	M20	JIS
ER32-16TP	16	M20 M20 M22	DIN - 352 DIN - 376 ISO - 529
ER32-17TP	17	M22	JIS
ER32-18TP	18	M22 M22 M24 M24 M24	DIN - 352 DIN - 376 DIN - 352 DIN - 736 ISO - 529
ER32-19TP	19	M24 M25	JIS JIS
ER32-20TP	20	M26 M27	JIS JIS

ER40

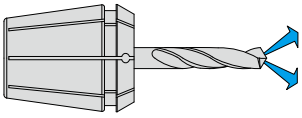
規格 Spec.	絲攻柄徑 Shank diameter of tapper d_1	使用絲攻範圍 Tapping range d_2	
ER40-2.24TP	2.24	M3	ISO - 529
ER40-2.5TP	2.5	M3.5 M3.5	DIN - 376 ISO - 529
ER40-2.8TP	2.8	M4	DIN - 376
ER40-3.15TP	3.15	M3 M4	ISO - 529 ISO - 529
ER40-3.5TP	3.5	M3 M3 M5	DIN - 352 DIN - 371 DIN - 376
ER40-3.55TP	3.55	M3.5 M4.5	ISO - 529 ISO - 529
ER40-4TP	4	M3 M3.5 M3.5 M4 M5	JIS DIN - 352 DIN - 371 ISO - 529 ISO - 529
ER40-4.5TP	4.5	M4 M4 M6 M6	DIN - 352 DIN - 371 DIN - 376 ISO - 529
ER40-5TP	5	M4 M4.5 M5	JIS JIS ISO - 529

規格 Spec.	絲攻柄徑 Shank diameter of tapper d_1	使用絲攻範圍 Tapping range d_2	
ER40-5.5TP	5.5	M5 M5.5	JIS JIS
ER40-6TP	6	M5 M5 M6 M6 M6 M8 M8	DIN - 352 DIN - 371 JIS DIN - 352 DIN - 371 DIN - 352 DIN - 376
ER40-6.2TP	6.2	M7 M8	JIS JIS
ER40-6.3TP	6.3	M6 M8	ISO - 529 ISO - 529
ER40-7TP	7	M9 M10 M10 M10 M10	JIS JIS DIN - 352 DIN - 352 DIN - 376
ER40-8TP	8	M8 M8 M10 M11	DIN - 371 ISO - 529 ISO - 529 JIS
ER40-8.5TP	8.5	M12	JIS
ER40-9TP	9	M12 M12 M12	DIN - 352 DIN - 376 ISO - 529
ER40-10TP	10	M10 M10	DIN - 371 ISO - 529
ER40-10.5TP	10.5	M14 M15	JIS JIS
ER40-11TP	11	M14 M14	DIN - 352 DIN - 376
ER40-11.2TP	11.2	M14	ISO - 529
ER40-12TP	12	M16 M16	DIN - 352 DIN - 376
ER40-12.5TP	12.5	M16 M16	JIS ISO - 529
ER40-13TP	13	M17	JIS
ER40-14TP	14	M18 M18 M18 M18 M20	JIS DIN - 352 DIN - 376 ISO - 529 ISO - 529
ER40-15TP	15	M20	JIS
ER40-16TP	16	M20 M20 M22	DIN - 352 DIN - 376 ISO - 529
ER40-17TP	17	M22	JIS
ER40-18TP	18	M22 M22 M24 M24 M24	DIN - 352 DIN - 376 DIN - 352 DIN - 376 ISO - 529
ER40-19TP	19	M24 M25	JIS JIS
ER40-20TP	20	M26 M27	JIS JIS

TAP

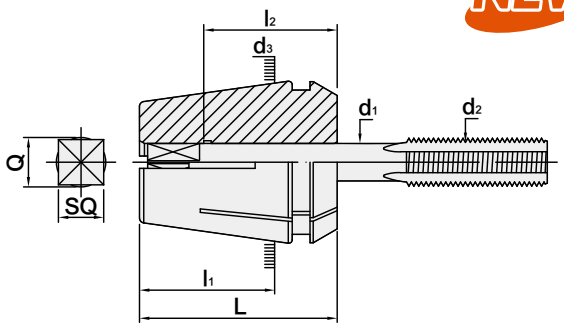
• 長度單位 Unit of Length (mm)

ER 鋼性攻牙止水筒夾
ER-TCO RIGID TAP SEALED COLLET



夾持附水孔刀具專用

NEW



規格 Spec.	d_3	L	l_1	l_2	CAPACITY
ER-TCO16	16	27.5	17.5	18 ~ 22	M5 ~ M10
ER-TCO20	20	31.5	20.7	18 ~ 25	M5 ~ M17
ER-TCO25	25	34	23	18 ~ 25	M5 ~ M22
ER-TCO32	32	40	27.34	18 ~ 28	M5 ~ M27
ER-TCO40	40	46	31.34	18 ~ 28	M5 ~ M27

ER-TCO16

d_1	Q	d_2	SQ	l_2	STANDARD
6	5.09	M5	4.9	18	DIN - 352
6	5.09	M5	4.9	18	DIN - 371
6	5.09	M6	4.5	18	JIS
6	5.09	M6	4.9	18	DIN - 352
6	5.09	M6	4.9	18	DIN - 371
6	5.09	M8	4.9	18	DIN - 352
6	5.09	M8	4.9	18	DIN - 376
6.2	5.21	M7	5	18	JIS
6.2	5.21	M8	5	18	JIS
6.3	5.21	M6	5	18	ISO-529
6.3	5.21	M8	5	18	ISO-529
7	5.84	M9	5.5	18	JIS
7	5.84	M10	5.5	18	JIS
7	5.84	M10	5.5	18	DIN - 352
7	5.84	M10	5.5	18	DIN - 376
8	6.88	M8	6.2	22	DIN - 371
8	6.88	M8	6.3	22	ISO-529
8	6.88	M10	6.3	22	ISO-529
10	9.16	M10	8	22	DIN - 371
10	9.16	M10	8	22	ISO-529

ER-TCO20

d_1	Q	d_2	SQ	l_2	STANDARD
6	5.09	M5	4.9	18	DIN - 352
6	5.09	M5	4.9	18	DIN - 371
6	5.09	M6	4.5	18	JIS
6	5.09	M6	4.9	18	DIN - 352

ER-TCO20

d_1	Q	d_2	SQ	l_2	STANDARD
6	5.09	M6	4.9	18	DIN - 371
6	5.09	M8	4.9	18	DIN - 352
6	5.09	M8	4.9	18	DIN - 376
6.2	5.21	M7	5	18	JIS
6.2	5.21	M8	5	18	JIS
6.3	5.21	M6	5	18	ISO-529
6.3	5.21	M8	5	18	ISO-529
7	5.84	M9	5.5	18	JIS
7	5.84	M10	5.5	18	JIS
7	5.84	M10	5.5	18	DIN - 352
7	5.84	M10	5.5	18	DIN - 376
8	6.88	M8	6.2	22	DIN - 371
8	6.88	M8	6.3	22	ISO-529
8	6.88	M10	6.3	22	ISO-529
8	6.88	M11	6	22	JIS
8.5	7.14	M12	6.5	22	JIS
9	7.95	M12	7	22	DIN - 352
9	7.95	M12	7	22	DIN - 376
9	7.95	M12	7.1	22	ISO-529
10	9.16	M10	8	22	DIN - 371
10	9.16	M10	8	22	ISO-529
10.5	9.16	M14	8	22	JIS
10.5	9.16	M15	8	22	JIS
11	10.53	M14	9	22	DIN - 352
11	10.53	M14	9	25	DIN - 376
11.2	10.53	M14	9	25	ISO-529
12	10.53	M16	9	25	DIN - 352

• 長度單位 Unit of Length (mm)

TAP

ER 鋼性攻牙止水筒夾
ER-TCO RIGID TAP SEALED COLLET

ER-TCO20

d_1	Q	d_2	SQ	l_2	STANDARD
12	10.53	M16	9	25	DIN - 376
12.5	11.91	M16	10	25	JIS
12.5	11.91	M16	10	25	ISO-529
13	11.91	M17	10	25	JIS

ER-TCO25

d_1	Q	d_2	SQ	l_2	STANDARD
6	5.09	M5	4.9	18	DIN - 352
6	5.09	M5	4.9	18	DIN - 371
6	5.09	M6	4.5	18	JIS
6	5.09	M6	4.9	18	DIN - 352
6	5.09	M6	4.9	18	DIN - 371
6	5.09	M8	4.9	18	DIN - 352
6	5.09	M8	4.9	18	DIN - 376
6.2	5.21	M7	5	18	JIS
6.2	5.21	M8	5	18	JIS
6.3	5.21	M6	5	18	ISO-529
6.3	5.21	M8	5	18	ISO-529
7	5.84	M9	5.5	18	JIS
7	5.84	M10	5.5	18	JIS
7	5.84	M10	5.5	18	DIN - 352
7	5.84	M10	5.5	18	DIN - 376
8	6.88	M8	6.2	22	DIN - 371
8	6.88	M8	6.3	22	ISO-529
8	6.88	M10	6.3	22	ISO-529
8	6.88	M11	6	22	JIS
8.5	7.14	M12	6.5	22	JIS
9	7.95	M12	7	22	DIN - 352
9	7.95	M12	7	22	DIN - 376
9	7.95	M12	7.1	22	ISO-529
10	9.16	M10	8	22	DIN - 371
10	9.16	M10	8	22	ISO-529
10.5	9.16	M14	8	22	JIS
10.5	9.16	M15	8	22	JIS
11	10.53	M14	9	22	DIN - 352
11	10.53	M14	9	25	DIN - 376
11.2	10.53	M14	9	25	ISO-529
12	10.53	M16	9	25	DIN - 352
12	10.53	M16	9	25	DIN - 376
12.5	11.91	M16	10	25	JIS
12.5	11.91	M16	10	25	ISO-529
13	11.91	M17	10	25	JIS
14	12.97	M18	11	25	JIS

ER-TCO25

d_1	Q	d_2	SQ	l_2	STANDARD
14	12.97	M18	11	25	DIN - 352
14	12.97	M18	11	25	DIN - 376
14	12.97	M18	11.2	25	ISO-529
14	12.97	M20	11.2	25	ISO-529
15	14.06	M20	12	25	JIS
16	14.8	M20	12	25	DIN - 352
16	14.8	M20	12	25	DIN - 376
16	14.8	M22	12.5	25	ISO-529
17	15.44	M22	13	28	JIS
18	17.52	M22	14.5	28	DIN - 352
18	17.52	M22	14.5	28	DIN - 376

ER-TCO32

d_1	Q	d_2	SQ	l_2	STANDARD
6	5.09	M5	4.9	18	DIN - 352
6	5.09	M5	4.9	18	DIN - 371
6	5.09	M6	4.5	18	JIS
6	5.09	M6	4.9	18	DIN - 352
6	5.09	M6	4.9	18	DIN - 371
6	5.09	M8	4.9	18	DIN - 352
6	5.09	M8	4.9	18	DIN - 376
6.2	5.21	M7	5	18	JIS
6.2	5.21	M8	5	18	JIS
6.3	5.21	M6	5	18	ISO-529
6.3	5.21	M8	5	18	ISO-529
7	5.84	M9	5.5	18	JIS
7	5.84	M10	5.5	18	JIS
7	5.84	M10	5.5	18	DIN - 352
7	5.84	M10	5.5	18	DIN - 376
8	6.88	M8	6.2	22	DIN - 371
8	6.88	M8	6.3	22	ISO-529
8	6.88	M10	6.3	22	ISO-529
8	6.88	M11	6	22	JIS
8.5	7.14	M12	6.5	22	JIS
9	7.95	M12	7	22	DIN - 352
9	7.95	M12	7	22	DIN - 376
9	7.95	M12	7.1	22	ISO-529
10	9.16	M10	8	22	DIN - 371
10	9.16	M10	8	22	ISO-529
10.5	9.16	M14	8	22	JIS
10.5	9.16	M15	8	22	JIS
11	10.53	M14	9	22	DIN - 352
11	10.53	M14	9	25	DIN - 376

• 長度單位 Unit of Length (mm)

ER 鋼性攻牙止水筒夾
ER-TCO RIGID TAP SEALED COLLET

ER-TCO32

d_1	Q	d_2	SQ	l_2	STANDARD
11.2	10.53	M14	9	25	ISO-529
12	10.53	M16	9	25	DIN - 352
12	10.53	M16	9	25	DIN - 376
12.5	11.91	M16	10	25	JIS
12.5	11.91	M16	10	25	ISO-529
13	11.91	M17	10	25	JIS
14	12.97	M18	11	25	JIS
14	12.97	M18	11	25	DIN - 352
14	12.97	M18	11	25	DIN - 376
14	12.97	M18	11.2	25	ISO-529
14	12.97	M20	11.2	25	ISO-529
15	14.06	M20	12	25	JIS
16	14.8	M20	12	25	DIN - 352
16	14.8	M20	12	25	DIN - 376
16	14.8	M22	12.5	25	ISO-529
17	15.44	M22	13	28	JIS
18	17.52	M22	14.5	28	DIN - 352
18	17.52	M22	14.5	28	DIN - 376
18	17.52	M24	14.5	28	DIN - 352
18	17.52	M24	14.5	28	DIN - 376
18	17.52	M24	14	28	ISO-529
19	18.22	M24	15	28	JIS
19	18.22	M25	15	28	JIS
20	19.61	M26	15	28	JIS
20	19.61	M27	15	28	JIS
20	19.61	M27	16	28	DIN - 376
20	19.61	M27	16	28	ISO-529

ER-TCO40

d_1	Q	d_2	SQ	l_2	STANDARD
6	5.09	M5	4.9	18	DIN - 352
6	5.09	M5	4.9	18	DIN - 371
6	5.09	M6	4.5	18	JIS
6	5.09	M6	4.9	18	DIN - 352
6	5.09	M6	4.9	18	DIN - 371
6	5.09	M8	4.9	18	DIN - 352
6	5.09	M8	4.9	18	DIN - 376
6.2	5.21	M7	5	18	JIS
6.2	5.21	M8	5	18	JIS
6.3	5.21	M6	5	18	ISO-529
6.3	5.21	M8	5	18	ISO-529
7	5.84	M9	5.5	18	JIS
7	5.84	M10	5.5	18	JIS

ER-TCO40

d_1	Q	d_2	SQ	l_2	STANDARD
7	5.84	M10	5.5	18	DIN - 352
7	5.84	M10	5.5	18	DIN - 376
8	6.88	M8	6.2	22	DIN - 371
8	6.88	M8	6.3	22	ISO-529
8	6.88	M10	6.3	22	ISO-529
8	6.88	M11	6	22	JIS
8.5	7.14	M12	6.5	22	JIS
9	7.95	M12	7	22	DIN - 352
9	7.95	M12	7	22	DIN - 376
9	7.95	M12	7.1	22	ISO-529
10	9.16	M10	8	22	DIN - 371
10	9.16	M10	8	22	ISO-529
10.5	9.16	M14	8	22	JIS
10.5	9.16	M15	8	22	JIS
11	10.53	M14	9	22	DIN - 352
11	10.53	M14	9	25	DIN - 376
11.2	10.53	M14	9	25	ISO-529
12	10.53	M16	9	25	DIN - 352
12	10.53	M16	9	25	DIN - 376
12.5	11.91	M16	10	25	JIS
12.5	11.91	M16	10	25	ISO-529
13	11.91	M17	10	25	JIS
14	12.97	M18	11	25	JIS
14	12.97	M18	11	25	DIN - 352
14	12.97	M18	11	25	DIN - 376
14	12.97	M18	11.2	25	ISO-529
14	12.97	M20	11.2	25	ISO-529
15	14.06	M20	12	25	JIS
16	14.8	M20	12	25	DIN - 352
16	14.8	M20	12	25	DIN - 376
16	14.8	M22	12.5	25	ISO-529
17	15.44	M22	13	28	JIS
18	17.52	M22	14.5	28	DIN - 352
18	17.52	M22	14.5	28	DIN - 376
18	17.52	M24	14.5	28	DIN - 352
18	17.52	M24	14.5	28	DIN - 376
18	17.52	M24	14	28	ISO-529
19	18.22	M24	15	28	JIS
19	18.22	M25	15	28	JIS
20	19.61	M26	15	28	JIS
20	19.61	M27	15	28	JIS
20	19.61	M27	16	28	DIN - 376
20	19.61	M27	16	28	ISO-529

• 長度單位 Unit of Length (mm)

ER A 級彈性筒夾套裝組
ER A GRADE COLLET SET

DIN-6499
DIN-ISO-15488

表面特殊處理

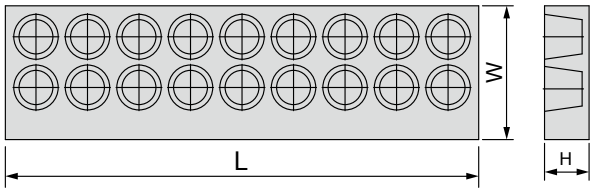
特點 Feature

- 表面粗糙度 RA0.25，提升刀桿與螺帽貼合度，增強穩定性
- 表面特殊處理，具較佳防鏽功能，延長使用壽命
- 夾持精度 0.01mm 內
- 夾持力提升 15%

- Surface roughness Ra 0.25, improves the fitness between chuck and nut, also increases the stabilities.
- Special surface treatment provides a better rust-proofing and extend the life cycle.
- Clamping accuracy is within 0.01mm.
- Clamping force improved by 15%.

規格 Spec.	???Contents		重量 (KGS) Weight
	筒夾 Collet Size	數量 Qty.	
ER16-A-6P-SET	1,2,4,6,8,10	1	-
ER20-A-6P-SET	2,4,6,8,10,12	1	-
ER16-A-10P-SET	1,2,3,4,5,6,7,8,9,10	1	-
ER20-A-12P-SET	2,3,4,5,6,7,8,9,10,11,12,13	1	-

ER 筒夾木盤
ER COLLET WOODEN TRAYS

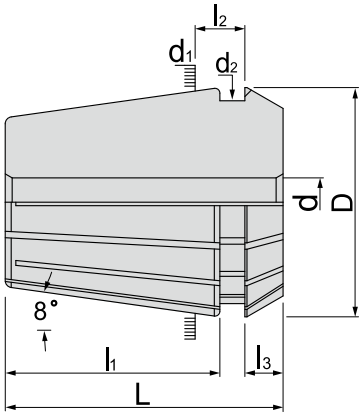


規格 Spec.	L	W	H	數量 (孔) Qty	重量 (KGS) Weight
ER8-MV	210	20	13	9	0.01
ER11-MV	210	20	13	13	0.01
ER16-MV	275	35	22	10	0.14
ER20-MV	275	35	22	12	0.12
ER25-MV	275	77	26	16	0.18
ER32-MV	340	90	30	18	0.48
ER40-MV	265	210	38	24	0.76
ER50-MV	235	210	37	12	0.64

• 長度單位 Unit of Length (mm)

ER 彈性筒夾
ER COLLET

DIN-6499
DIN-ISO-15488



特點 Feature

- 材質 :SUJ2。(高碳軸承鋼 : 在熱處理後，具有堅韌的硬度與韌性，更好的耐磨耗性，且彈性佳使用壽命更長)
- 硬度 :HRC46°
- 表面粗糙度 RZ2.5 以內
- 同心度按 DIN 標準規範全數檢驗，共計有三種精度等級，普通級 0.02mm、A 級 0.01mm 及 UP 級 0.005mm
- UP 級建議配合 HSP 螺帽使用，其穩定性更好
- 用於夾持鑽頭、螺絲攻、銑刀、鉸刀等工具
- 具有彈性伸縮的功能、應用範圍廣、附變化性
- 訂購時請告知所需精度等級

-Steel:SUJ2 (High-carbon bearing steel : After heat treatment, it has hardness and toughness, better grinding quality, good flexibility, and longer using life span.)
- Hardness: HRC46°
- Surface roughness : within RZ2.5.
- The concentricity is totally examined according to DIN norm. There are three kinds of classes for precision : general class 0.02mm, A class 0.01mm, and UP class 0.005mm.
- UP class is recommended to be used with HSP clamping nut. It will have better stability.
- It used for the cutting tools lock drills, taps, mills, and remers, etc.
- It has flexibility and can be applied widely and variably.
- Please inform the required precision grade when ordering.

規格 Spec.	尺寸範圍 Size Range	L	l_1	l_2	l_3	D	d_1	d_2	重量 (KGS) Weight
ER8	1~5.0	13.5	10.8	2.98	1.5	8.5	8	6.5	0.01
ER11	1~7.0	18	13.5	3.8	2.5	11.5	11	9.5	0.01
ER16	1~10.0	27.5	20.8	6.26	4	17	16	13.8	0.03
ER20	1~13.0	31.5	23.9	6.36	4.8	21	20	17.4	0.04
ER25	2~16.0	34	25.9	6.66	5	26	25	22	0.06
ER32	2~20.0	40	30.9	7.16	5.5	33	32	29.2	0.10
ER40	3~26.0	46	34.9	7.66	7	41	40	36.2	0.25
ER50	6~34.0	60	46.0	13.4	8.5	52	50	46	0.45

BT/ER 刀桿
BT/ER COLLET CHUCK

ER 彈性筒夾
ER COLLET

ER-EO 止水筒夾
ER-EO COOLANT COLLET

ER-ES 斜槽止水筒夾
ER-ES STEEL SEALED COLLET

ER 剛性攻牙筒夾
ER RIGID TAP COLLET

• 長度單位 Unit of Length (mm)

ACCESSORIES

ER 彈性筒夾
ER COLLET

DIN-6499
DIN-ISO-15488

精度 (普通級)Accuracy : 0.02mm

ER8

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER8-1	1~0.5	0.02
ER8-1.5	1.5~1	0.02
ER8-2	2~1.5	0.02
ER8-2.5	2.5~2	0.02
ER8-3	3~2.5	0.02
ER8-3.5	3.5~3	0.02
ER8-4	4~3.5	0.02
ER8-4.5	4.5~4	0.02
ER8-5	5~4.5	0.02

ER11

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER11-1	1~0.5	0.02
ER11-1.5	1.5~1	0.02
ER11-2	2~1.5	0.02
ER11-2.5	2.5~2	0.02
ER11-3	3~2.5	0.02
ER11-3.5	3.5~3	0.02
ER11-4	4~3.5	0.02
ER11-4.5	4.5~4	0.02
ER11-5	5~4.5	0.02
ER11-5.5	5.5~5	0.02
ER11-6	6~5.5	0.02
ER11-6.5	6.5~6	0.02
ER11-7	7~6.5	0.02

ER16

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER16-1	1~0.5	0.02
ER16-1.5	1.5~1	0.02
ER16-2	2~1.5	0.02
ER16-2.5	2.5~2	0.02
ER16-3	3~2	0.02
ER16-3.5	3.5~2.5	0.02
ER16-4	4~3	0.02
ER16-4.5	4.5~3.5	0.02
ER16-5	5~4	0.02
ER16-5.5	5.5~4.5	0.02
ER16-6	6~5	0.02
ER16-6.5	6.5~5.5	0.02

ER16

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER16-7	7~6	0.02
ER16-7.5	7.5~6.5	0.02
ER16-8	8~7	0.02
ER16-8.5	8.5~7.5	0.02
ER16-9	9~8	0.02
ER16-9.5	9.5~8.5	0.02
ER16-10	10~9	0.02

ER20

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER20-1	1~0.5	0.02
ER20-1.5	1.5~1	0.02
ER20-2	2~1.5	0.02
ER20-2.5	2.5~2	0.02
ER20-3	3~2	0.02
ER20-3.5	3.5~2.5	0.02
ER20-4	4~3	0.02
ER20-4.5	4.5~3.5	0.02
ER20-5	5~4	0.02
ER20-5.5	5.5~4.5	0.02
ER20-6	6~5	0.02
ER20-6.5	6.5~5.5	0.02
ER20-7	7~6	0.02
ER20-7.5	7.5~6.5	0.02
ER20-8	8~7	0.02
ER20-8.5	8.5~7.5	0.02
ER20-9	9~8	0.02
ER20-9.5	9.5~8.5	0.02
ER20-10	10~9	0.02
ER20-10.5	10.5~9.5	0.02
ER20-11	11~10	0.02
ER20-11.5	11.5~10.5	0.02
ER20-12	12~11	0.02
ER20-12.5	12.5~11.5	0.02
ER20-13	13~12	0.02

ER25

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER25-1	1~0.5	0.02
ER25-1.5	1.5~1	0.02

ER25

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER25-2	2~1.5	0.02
ER25-2.5	2.5~2	0.02
ER25-3	3~2	0.02
ER25-3.5	3.5~2.5	0.02
ER25-4	4~3	0.02
ER25-4.5	4.5~3.5	0.02
ER25-5	5~4	0.02
ER25-5.5	5.5~4.5	0.02
ER25-6	6~5	0.02
ER25-6.5	6.5~5.5	0.02
ER25-7	7~6	0.02
ER25-7.5	7.5~6.5	0.02
ER25-8	8~7	0.02
ER25-8.5	8.5~7.5	0.02
ER25-9	9~8	0.02
ER25-9.5	9.5~8.5	0.02
ER25-10	10~9	0.02
ER25-10.5	10.5~9.5	0.02
ER25-11	11~10	0.02
ER25-11.5	11.5~10.5	0.02
ER25-12	12~11	0.02
ER25-12.5	12.5~11.5	0.02
ER25-13	13~12	0.02
ER25-13.5	13.5~12.5	0.02
ER25-14	14~13	0.02
ER25-14.5	14.5~13.5	0.02
ER25-15	15~14	0.02
ER25-15.5	15.5~14.5	0.02
ER25-16	16~15	0.02

ER32

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER32-2	2~1.5	0.02
ER32-2.5	2.5~2	0.02
ER32-3	3~2	0.02
ER32-3.5	3.5~2.5	0.02
ER32-4	4~3	0.02
ER32-4.5	4.5~3.5	0.02
ER32-5	5~4	0.02
ER32-5.5	5.5~4.5	0.02
ER32-6	6~5	0.02

• 長度單位 Unit of Length (mm)

ER 彈性筒夾
ER COLLET

精度 (普通級)Accuracy : 0.02mm

ER32

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER32-6.5	6.5~5.5	0.02
ER32-7	7~6	0.02
ER32-7.5	7.5~6.5	0.02
ER32-8	8~7	0.02
ER32-8.5	8.5~7.5	0.02
ER32-9	9~8	0.02
ER32-9.5	9.5~8.5	0.02
ER32-10	10~9	0.02
ER32-10.5	10.5~9.5	0.02
ER32-11	11~10	0.02
ER32-11.5	11.5~10.5	0.02
ER32-12	12~11	0.02
ER32-12.5	12.5~11.5	0.02
ER32-13	13~12	0.02
ER32-13.5	13.5~12.5	0.02
ER32-14	14~13	0.02
ER32-14.5	14.5~13.5	0.02
ER32-15	15~14	0.02
ER32-15.5	15.5~14.5	0.02
ER32-16	16~15	0.02
ER32-16.5	16.5~15.5	0.02
ER32-17	17~16	0.02
ER32-17.5	17.5~16.5	0.02
ER32-18	18~17	0.02
ER32-18.5	18.5~17.5	0.02
ER32-19	19~18	0.02
ER32-19.5	19.5~18.5	0.02
ER32-20	20~19	0.02

ER40

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER40-3	3~2	0.02
ER40-3.5	3.5~2.5	0.02
ER40-4	4~3	0.02
ER40-4.5	4.5~3.5	0.02
ER40-5	5~4	0.02
ER40-5.5	5.5~4.5	0.02
ER40-6	6~5	0.02
ER40-6.5	6.5~5.5	0.02
ER40-7	7~6	0.02
ER40-7.5	7.5~6.5	0.02

ER40

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER40-8	8~7	0.02
ER40-8.5	8.5~7.5	0.02
ER40-9	9~8	0.02
ER40-9.5	9.5~8.5	0.02
ER40-10	10~9	0.02
ER40-10.5	10.5~9.5	0.02
ER40-11	11~10	0.02
ER40-11.5	11.5~10.5	0.02
ER40-12	12~11	0.02
ER40-12.5	12.5~11.5	0.02
ER40-13	13~12	0.02
ER40-13.5	13.5~12.5	0.02
ER40-14	14~13	0.02
ER40-14.5	14.5~13.5	0.02
ER40-15	15~14	0.02
ER40-15.5	15.5~14.5	0.02
ER40-16	16~15	0.02
ER40-16.5	16.5~15.5	0.02
ER40-17	17~16	0.02
ER40-17.5	17.5~16.5	0.02
ER40-18	18~17	0.02
ER40-18.5	18.5~17.5	0.02
ER40-19	19~18	0.02
ER40-19.5	19.5~18.5	0.02
ER40-20	20~19	0.02
ER40-20.5	20.5~19.5	0.02
ER40-21	21~20	0.02
ER40-21.5	21.5~20.5	0.02
ER40-22	22~21	0.02
ER40-22.5	22.5~21.5	0.02
ER40-23	23~22	0.02
ER40-23.5	23.5~22.5	0.02
ER40-24	24~23	0.02
ER40-24.5	24.5~23.5	0.02
ER40-25	25~24	0.02
ER40-25.5	25.5~24.5	0.02
ER40-26	26~25	0.02

ER50

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER50-6	6~5	0.02
ER50-7	7~6	0.02
ER50-8	8~7	0.02
ER50-9	9~8	0.02
ER50-10	10~9	0.02
ER50-11	11~9	0.02
ER50-12	12~10	0.02
ER50-13	13~11	0.02
ER50-14	14~12	0.02
ER50-15	15~13	0.02
ER50-16	16~14	0.02
ER50-17	17~15	0.02
ER50-18	18~16	0.02
ER50-19	19~17	0.02
ER50-20	20~18	0.02
ER50-21	21~19	0.02
ER50-22	22~20	0.02
ER50-23	23~21	0.02
ER50-24	24~22	0.02
ER50-25	25~23	0.02
ER50-26	26~24	0.02
ER50-27	27~25	0.02
ER50-28	28~26	0.02
ER50-29	29~27	0.02
ER50-30	30~28	0.02
ER50-31	31~29	0.02
ER50-32	32~30	0.02
ER50-33	33~31	0.02
ER50-34	34~32	0.02

• 長度單位 Unit of Length (mm)

ER 彈性筒夾
ER COLLET

精度 (A 級)Accuracy : 0.01mm

ER8-A

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER8-1-A	1~0.5	0.01
ER8-1.5-A	1.5~1	0.01
ER8-2-A	2~1.5	0.01
ER8-2.5-A	2.5~2	0.01
ER8-3-A	3~2.5	0.01
ER8-3.5-A	3.5~3	0.01
ER8-4-A	4~3.5	0.01
ER8-4.5-A	4.5~4	0.01
ER8-5-A	5~4.5	0.01

ER11-A

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER11-1-A	1~0.5	0.01
ER11-1.5-A	1.5~1	0.01
ER11-2-A	2~1.5	0.01
ER11-2.5-A	2.5~2	0.01
ER11-3-A	3~2.5	0.01
ER11-3.5-A	3.5~3	0.01
ER11-4-A	4~3.5	0.01
ER11-4.5-A	4.5~4	0.01
ER11-5-A	5~4.5	0.01
ER11-5.5-A	5.5~4.5	0.01
ER11-6-A	6~5.5	0.01
ER11-6.5-A	6.5~6	0.01
ER11-7-A	7~6.5	0.01

ER16-A

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER16-1-A	1~0.5	0.01
ER16-1.5-A	1.5~1	0.01
ER16-2-A	2~1.5	0.01
ER16-2.5-A	2.5~2	0.01
ER16-3-A	3~2	0.01
ER16-3.5-A	3.5~2.5	0.01
ER16-4-A	4~3	0.01
ER16-4.5-A	4.5~3.5	0.01
ER16-5-A	5~4	0.01
ER16-5.5-A	5.5~4.5	0.01
ER16-6-A	6~5	0.01
ER16-6.5-A	6.5~5.5	0.01

ER16-A

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER16-7-A	7~6	0.01
ER16-7.5-A	7.5~6.5	0.01
ER16-8-A	8~7	0.01
ER16-8.5-A	8.5~7.5	0.01
ER16-9-A	9~8	0.01
ER16-9.5-A	9.5~8.5	0.01
ER16-10-A	10~9	0.01

ER20-A

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER20-1-A	1~0.5	0.01
ER20-1.5-A	1.5~1	0.01
ER20-2-A	2~1.5	0.01
ER20-2.5-A	2.5~2	0.01
ER20-3-A	3~2	0.01
ER20-3.5-A	3.5~2.5	0.01
ER20-4-A	4~3	0.01
ER20-4.5-A	4.5~3.5	0.01
ER20-5-A	5~4	0.01
ER20-5.5-A	5.5~4.5	0.01
ER20-6-A	6~5	0.01
ER20-6.5-A	6.5~5.5	0.01
ER20-7-A	7~6	0.01
ER20-7.5-A	7.5~6.5	0.01
ER20-8-A	8~7	0.01
ER20-8.5-A	8.5~7.5	0.01
ER20-9-A	9~8	0.01
ER20-9.5-A	9.5~8.5	0.01
ER20-10-A	10~9	0.01
ER20-10.5-A	10.5~9.5	0.01
ER20-11-A	11~10	0.01
ER20-11.5-A	11.5~10.5	0.01
ER20-12-A	12~11	0.01
ER20-12.5-A	12.5~11.5	0.01
ER20-13-A	13~12	0.01

ER25-A

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER25-1-A	1~0.5	0.01
ER25-1.5-A	1.5~1	0.01

ER25-A

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER25-2-A	2~1.5	0.01
ER25-2.5-A	2.5~2	0.01
ER25-3-A	3~2	0.01
ER25-3.5-A	3.5~2.5	0.01
ER25-4-A	4~3	0.01
ER25-4.5-A	4.5~3.5	0.01
ER25-5-A	5~4	0.01
ER25-5.5-A	5.5~4.5	0.01
ER25-6-A	6~5	0.01
ER25-6.5-A	6.5~5.5	0.01
ER25-7-A	7~6	0.01
ER25-7.5-A	7.5~6.5	0.01
ER25-8-A	8~7	0.01
ER25-8.5-A	8.5~7.5	0.01
ER25-9-A	9~8	0.01
ER25-9.5-A	9.5~8.5	0.01
ER25-10-A	10~9	0.01
ER25-10.5-A	10.5~9.5	0.01
ER25-11-A	11~10	0.01
ER25-11.5-A	11.5~10.5	0.01
ER25-12-A	12~11	0.01
ER25-12.5-A	12.5~11.5	0.01
ER25-13-A	13~12	0.01
ER25-13.5-A	13.5~12.5	0.01
ER25-14-A	14~13	0.01
ER25-14.5-A	14.5~13.5	0.01
ER25-15-A	15~14	0.01
ER25-15.5-A	15.5~14.5	0.01
ER25-16-A	16~15	0.01

ER32-A

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER32-2-A	2~1.5	0.01
ER32-2.5-A	2.5~2	0.01
ER32-3-A	3~2	0.01
ER32-3.5-A	3.5~2.5	0.01
ER32-4-A	4~3	0.01
ER32-4.5-A	4.5~3.5	0.01
ER32-5-A	5~4	0.01
ER32-5.5-A	5.5~4.5	0.01
ER32-6-A	6~5	0.01

• 長度單位 Unit of Length (mm)

ER 彈性筒夾
ER COLLET

精度 (A 級)Accuracy : 0.01mm

ER32-A

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER32-6.5-A	6.5~5.5	0.01
ER32-7-A	7~6	0.01
ER32-7.5-A	7.5~6.5	0.01
ER32-8-A	8~7	0.01
ER32-8.5-A	8.5~7.5	0.01
ER32-9-A	9~8	0.01
ER32-9.5-A	9.5~8.5	0.01
ER32-10-A	10~9	0.01
ER32-10.5-A	10.5~9.5	0.01
ER32-11-A	11~10	0.01
ER32-11.5-A	11.5~10.5	0.01
ER32-12-A	12~11	0.01
ER32-12.5-A	12.5~11.5	0.01
ER32-13-A	13~12	0.01
ER32-13.5-A	13.5~12.5	0.01
ER32-14-A	14~13	0.01
ER32-14.5-A	14.5~13.5	0.01
ER32-15-A	15~14	0.01
ER32-15.5-A	15.5~14.5	0.01
ER32-16-A	16~15	0.01
ER32-16.5-A	16.5~15.5	0.01
ER32-17-A	17~16	0.01
ER32-17.5-A	17.5~16.5	0.01
ER32-18-A	18~17	0.01
ER32-18.5-A	18.5~17.5	0.01
ER32-19-A	19~18	0.01
ER32-19.5-A	19.5~18.5	0.01
ER32-20-A	20~19	0.01

ER40-A

規格 Spec.	夾持範圍 Range	精度等級 Precision
ER40-3-A	3~2	0.01
ER40-3.5-A	3.5~2.5	0.01
ER40-4-A	4~3	0.01
ER40-4.5-A	4.5~3.5	0.01
ER40-5-A	5~4	0.01
ER40-5.5-A	5.5~4.5	0.01
ER40-6-A	6~5	0.01
ER40-6.5-A	6.5~5.5	0.01
ER40-7-A	7~6	0.01
ER40-7.5-A	7.5~6.5	0.01

ER40-A

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER40-8-A	8~7	0.01
ER40-8.5-A	8.5~7.5	0.01
ER40-9-A	9~8	0.01
ER40-9.5-A	9.5~8.5	0.01
ER40-10-A	10~9	0.01
ER40-10.5-A	10.5~9.5	0.01
ER40-11-A	11~10	0.01
ER40-11.5-A	11.5~10.5	0.01
ER40-12-A	12~11	0.01
ER40-12.5-A	12.5~11.5	0.01
ER40-13-A	13~12	0.01
ER40-13.5-A	13.5~12.5	0.01
ER40-14-A	14~13	0.01
ER40-14.5-A	14.5~13.5	0.01
ER40-15-A	15~14	0.01
ER40-15.5-A	15.5~14.5	0.01
ER40-16-A	16~15	0.01
ER40-16.5-A	16.5~15.5	0.01
ER40-17-A	17~16	0.01
ER40-17.5-A	17.5~16.5	0.01
ER40-18-A	18~17	0.01
ER40-18.5-A	18.5~17.5	0.01
ER40-19-A	19~18	0.01
ER40-19.5-A	19.5~18.5	0.01
ER40-20-A	20~19	0.01
ER40-20.5-A	20.5~19.5	0.01
ER40-21-A	21~20	0.01
ER40-21.5-A	21.5~20.5	0.01
ER40-22-A	22~21	0.01
ER40-22.5-A	22.5~21.5	0.01
ER40-23-A	23~22	0.01
ER40-23.5-A	23.5~22.5	0.01
ER40-24-A	24~23	0.01
ER40-24.5-A	24.5~23.5	0.01
ER40-25-A	25~24	0.01
ER40-25.5-A	25.5~24.5	0.01
ER40-26-A	26~25	0.01

ER50-A

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER50-6-A	6~5	0.01
ER50-7-A	7~6	0.01
ER50-8-A	8~7	0.01
ER50-9-A	9~8	0.01
ER50-10-A	10~9	0.01
ER50-11-A	11~9	0.01
ER50-12-A	12~10	0.01
ER50-13-A	13~11	0.01
ER50-14-A	14~12	0.01
ER50-15-A	15~13	0.01
ER50-16-A	16~14	0.01
ER50-17-A	17~15	0.01
ER50-18-A	18~16	0.01
ER50-19-A	19~17	0.01
ER50-20-A	20~18	0.01
ER50-21-A	21~19	0.01
ER50-22-A	22~20	0.01
ER50-23-A	23~21	0.01
ER50-24-A	24~22	0.01
ER50-25-A	25~23	0.01
ER50-26-A	26~24	0.01
ER50-27-A	27~25	0.01
ER50-28-A	28~26	0.01
ER50-29-A	29~27	0.01
ER50-30-A	30~28	0.01
ER50-31-A	31~29	0.01
ER50-32-A	32~30	0.01
ER50-33-A	33~31	0.01
ER50-34-A	34~32	0.01

A 級 英制筒夾

規格 Spec.	夾持範圍 Range	精度等級 Precision
ER8-1/8-A	0.086"~0.125"	0.01
ER11-1/8-A	0.086"~0.125"	0.01
ER16-1/8-A	0.086"~0.125"	0.01
ER20-1/8-A	0.086"~0.125"	0.01

• 長度單位 Unit of Length (mm)

ER 彈性筒夾
ER COLLET

精度 (UP 級)Accuracy : 0.005mm

ER8-UP

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER8-1-UP	1~0.5	0.005
ER8-1.5-UP	1.5~1	0.005
ER8-2-UP	2~1.5	0.005
ER8-2.5-UP	2.5~2	0.005
ER8-3-UP	3~2.5	0.005
ER8-3.5-UP	3.5~3	0.005
ER8-4-UP	4~3.5	0.005
ER8-4.5-UP	4.5~4	0.005
ER8-5-UP	5~4.5	0.005

ER11-UP

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER11-1-UP	1~0.5	0.005
ER11-1.5-UP	1.5~1	0.005
ER11-2-UP	2~1.5	0.005
ER11-2.5-UP	2.5~2	0.005
ER11-3-UP	3~2.5	0.005
ER11-3.5-UP	3.5~3	0.005
ER11-4-UP	4~3.5	0.005
ER11-4.5-UP	4.5~4	0.005
ER11-5-UP	5~4.5	0.005
ER11-5.5-UP	5.5~5	0.005
ER11-6-UP	6~5.5	0.005
ER11-6.5-UP	6.5~6	0.005
ER11-7-UP	7~6.5	0.005

ER16-UP

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER16-1-UP	1~0.5	0.005
ER16-1.5-UP	1.5~1	0.005
ER16-2-UP	2~1.5	0.005
ER16-2.5-UP	2.5~2	0.005
ER16-3-UP	3~2	0.005
ER16-3.5-UP	3.5~2.5	0.005
ER16-4-UP	4~3	0.005
ER16-4.5-UP	4.5~3.5	0.005
ER16-5-UP	5~4	0.005
ER16-5.5-UP	5.5~4.5	0.005
ER16-6-UP	6~5	0.005
ER16-6.5-UP	6.5~5.5	0.005

ER16-UP

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER16-7-UP	7~6	0.005
ER16-7.5-UP	7.5~6.5	0.005
ER16-8-UP	8~7	0.005
ER16-8.5-UP	8.5~7.5	0.005
ER16-9-UP	9~8	0.005
ER16-9.5-UP	9.5~8.5	0.005
ER16-10-UP	10~9	0.005

ER20-UP

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER20-1-UP	1~0.5	0.005
ER20-1.5-UP	1.5~1	0.005
ER20-2-UP	2~1.5	0.005
ER20-2.5-UP	2.5~2	0.005
ER20-3-UP	3~2	0.005
ER20-3.5-UP	3.5~2.5	0.005
ER20-4-UP	4~3	0.005
ER20-4.5-UP	4.5~3.5	0.005
ER20-5-UP	5~4	0.005
ER20-5.5-UP	5.5~4.5	0.005
ER20-6-UP	6~5	0.005
ER20-6.5-UP	6.5~5.5	0.005
ER20-7-UP	7~6	0.005
ER20-7.5-UP	7.5~6.5	0.005
ER20-8-UP	8~7	0.005
ER20-8.5-UP	8.5~7.5	0.005
ER20-9-UP	9~8	0.005
ER20-9.5-UP	9.5~8.5	0.005
ER20-10-UP	10~9	0.005
ER20-10.5-UP	10.5~9.5	0.005
ER20-11-UP	11~10	0.005
ER20-11.5-UP	11.5~10.5	0.005
ER20-12-UP	12~11	0.005
ER20-12.5-UP	12.5~11.5	0.005
ER20-13-UP	13~12	0.005

ER25-UP

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER25-2-UP	2~1.5	0.005
ER25-2.5-UP	2.5~2	0.005
ER25-3-UP	3~2	0.005
ER25-3.5-UP	3.5~2.5	0.005
ER25-4-UP	4~3	0.005
ER25-4.5-UP	4.5~3.5	0.005
ER25-5-UP	5~4	0.005
ER25-5.5-UP	5.5~4.5	0.005
ER25-6-UP	6~5	0.005
ER25-6.5-UP	6.5~5.5	0.005
ER25-7-UP	7~6	0.005
ER25-7.5-UP	7.5~6.5	0.005
ER25-8-UP	8~7	0.005
ER25-8.5-UP	8.5~7.5	0.005
ER25-9-UP	9~8	0.005
ER25-9.5-UP	9.5~8.5	0.005
ER25-10-UP	10~9	0.005
ER25-10.5-UP	10.5~9.5	0.005
ER25-11-UP	11~10	0.005
ER25-11.5-UP	11.5~10.5	0.005
ER25-12-UP	12~11	0.005
ER25-12.5-UP	12.5~11.5	0.005
ER25-13-UP	13~12	0.005
ER25-13.5-UP	13.5~12.5	0.005
ER25-14-UP	14~13	0.005
ER25-14.5-UP	14.5~13.5	0.005
ER25-15-UP	15~14	0.005
ER25-15.5-UP	15.5~14.5	0.005
ER25-16-UP	16~15	0.005

• 長度單位 Unit of Length (mm)

ER 彈性筒夾
ER COLLET

精度 (UP 級)Accuracy : 0.005mm

ER32-UP

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER32-6.5-UP	6.5~5.5	0.005
ER32-7-UP	7~6	0.005
ER32-7.5-UP	7.5~6.5	0.005
ER32-8-UP	8~7	0.005
ER32-8.5-UP	8.5~7.5	0.005
ER32-9-UP	9~8	0.005
ER32-9.5-UP	9.5~8.5	0.005
ER32-10-UP	10~9	0.005
ER32-10.5-UP	10.5~9.5	0.005
ER32-11-UP	11~10	0.005
ER32-11.5-UP	11.5~10.5	0.005
ER32-12-UP	12~11	0.005
ER32-12.5-UP	12.5~11.5	0.005
ER32-13-UP	13~12	0.005
ER32-13.5-UP	13.5~12.5	0.005
ER32-14-UP	14~13	0.005
ER32-14.5-UP	14.5~13.5	0.005
ER32-15-UP	15~14	0.005
ER32-15.5-UP	15.5~14.5	0.005
ER32-16-UP	16~15	0.005
ER32-16.5-UP	16.5~15.5	0.005
ER32-17-UP	17~16	0.005
ER32-17.5-UP	17.5~16.5	0.005
ER32-18-UP	18~17	0.005
ER32-18.5-UP	18.5~17.5	0.005
ER32-19-UP	19~18	0.005
ER32-19.5-UP	19.5~18.5	0.005
ER32-20-UP	20~19	0.005

ER40-UP

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER40-3-UP	3~2	0.005
ER40-3.5-UP	3.5~2.5	0.005
ER40-4-UP	4~3	0.005
ER40-4.5-UP	4.5~3.5	0.005
ER40-5-UP	5~4	0.005
ER40-5.5-UP	5.5~4.5	0.005
ER40-6-UP	6~5	0.005
ER40-6.5-UP	6.5~5.5	0.005
ER40-7-UP	7~6	0.005
ER40-7.5-UP	7.5~6.5	0.005

ER40-UP

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER40-8-UP	8~7	0.005
ER40-8.5-UP	8.5~7.5	0.005
ER40-9-UP	9~8	0.005
ER40-9.5-UP	9.5~8.5	0.005
ER40-10-UP	10~9	0.005
ER40-10.5-UP	10.5~9.5	0.005
ER40-11-UP	11~10	0.005
ER40-11.5-UP	11.5~10.5	0.005
ER40-12-UP	12~11	0.005
ER40-12.5-UP	12.5~11.5	0.005
ER40-13-UP	13~12	0.005
ER40-13.5-UP	13.5~12.5	0.005
ER40-14-UP	14~13	0.005
ER40-14.5-UP	14.5~13.5	0.005
ER40-15-UP	15~14	0.005
ER40-15.5-UP	15.5~14.5	0.005
ER40-16-UP	16~15	0.005
ER40-16.5-UP	16.5~15.5	0.005
ER40-17-UP	17~16	0.005
ER40-17.5-UP	17.5~16.5	0.005
ER40-18-UP	18~17	0.005
ER40-18.5-UP	18.5~17.5	0.005
ER40-19-UP	19~18	0.005
ER40-19.5-UP	19.5~18.5	0.005
ER40-20-UP	20~19	0.005
ER40-20.5-UP	20.5~19.5	0.005
ER40-21-UP	21~20	0.005
ER40-21.5-UP	21.5~20.5	0.005
ER40-22-UP	22~21	0.005
ER40-22.5-UP	22.5~21.5	0.005
ER40-23-UP	23~22	0.005
ER40-23.5-UP	23.5~22.5	0.005
ER40-24-UP	24~23	0.005
ER40-24.5-UP	24.5~23.5	0.005
ER40-25-UP	25~24	0.005
ER40-25.5-UP	25.5~24.5	0.005
ER40-26-UP	26~25	0.005

ER50-UP

規格 Spec.	夾持範圍 Clamp Range	精度等級 Precision
ER50-6-UP	6~5	0.005
ER50-7-UP	7~6	0.005
ER50-8-UP	8~7	0.005
ER50-9-UP	9~8	0.005
ER50-10-UP	10~9	0.005
ER50-11-UP	11~9	0.005
ER50-12-UP	12~10	0.005
ER50-13-UP	13~11	0.005
ER50-14-UP	14~12	0.005
ER50-15-UP	15~13	0.005
ER50-16-UP	16~14	0.005
ER50-17-UP	17~15	0.005
ER50-18-UP	18~16	0.005
ER50-19-UP	19~17	0.005
ER50-20-UP	20~18	0.005
ER50-21-UP	21~19	0.005
ER50-22-UP	22~20	0.005
ER50-23-UP	23~21	0.005
ER50-24-UP	24~22	0.005
ER50-25-UP	25~23	0.005
ER50-26-UP	26~24	0.005
ER50-27-UP	27~25	0.005
ER50-28-UP	28~26	0.005
ER50-29-UP	29~27	0.005
ER50-30-UP	30~28	0.005
ER50-31-UP	31~29	0.005
ER50-32-UP	32~30	0.005
ER50-33-UP	33~31	0.005
ER50-34-UP	34~32	0.005

• 長度單位 Unit of Length (mm)

ER 彈性筒夾
ER COLLET INCH SIZE

※ 英制規格

ER8

規格 Spec.	夾持範圍 Clamp Range
ER8-1/16	0.043"~0.062"
ER8-1/8	0.086"~0.125"
ER8-3/16	0.148"~0.187"

ER11

規格 Spec.	夾持範圍 Clamp Range
ER11-1/16	0.043"~0.062"
ER11-3/32	0.054"~0.093"
ER11-1/8	0.086"~0.125"
ER11-5/32	0.117"~0.156"
ER11-3/16	0.148"~0.187"
ER11-7/32	0.179"~0.218"
ER11-1/4	0.211"~0.250"

ER16

規格 Spec.	夾持範圍 Clamp Range
ER16-1/16	0.043"~0.062"
ER16-3/32	0.054"~0.093"
ER16-1/8	0.086"~0.125"
ER16-5/32	0.117"~0.156"
ER16-3/16	0.148"~0.187"
ER16-7/32	0.179"~0.218"
ER16-1/4	0.211"~0.250"
ER16-9/32	0.242"~0.281"
ER16-5/16	0.283"~0.312"
ER16-11/32	0.304"~0.343"
ER16-3/8	0.336"~0.375"
ER16-13/32	0.367"~0.406"

ER20

規格 Spec.	夾持範圍 Clamp Range
ER20-1/16	0.043"~0.062"
ER20-3/32	0.054"~0.093"
ER20-1/8	0.086"~0.125"
ER20-5/32	0.117"~0.156"
ER20-3/16	0.148"~0.187"
ER20-7/32	0.179"~0.218"
ER20-1/4	0.211"~0.250"
ER20-9/32	0.242"~0.281"
ER20-5/16	0.283"~0.312"
ER20-11/32	0.304"~0.343"
ER20-3/8	0.336"~0.375"
ER20-13/32	0.367"~0.406"
ER20-7/16	0.398"~0.437"
ER20-15/32	0.429"~0.468"
ER20-1/2	0.461"~0.500"

ER25

規格 Spec.	夾持範圍 Clamp Range
ER25-3/32	0.054"~0.093"
ER25-1/8	0.086"~0.125"
ER25-5/32	0.117"~0.156"
ER25-3/16	0.148"~0.187"
ER25-7/32	0.179"~0.218"
ER25-1/4	0.211"~0.250"
ER25-9/32	0.242"~0.281"
ER25-5/16	0.283"~0.312"
ER25-11/32	0.304"~0.343"
ER25-3/8	0.336"~0.375"
ER25-13/32	0.367"~0.406"
ER25-7/16	0.398"~0.437"
ER25-15/32	0.429"~0.468"
ER25-1/2	0.461"~0.500"
ER25-17/32	0.492"~0.531"
ER25-9/16	0.523"~0.562"
ER25-19/32	0.554"~0.593"
ER25-5/8	0.586"~0.625"

ER32

規格 Spec.	夾持範圍 Clamp Range
ER32-1/16	0.043"~0.062"
ER32-3/32	0.054"~0.093"
ER32-1/8	0.086"~0.125"
ER32-5/32	0.117"~0.156"
ER32-3/16	0.148"~0.187"
ER32-7/32	0.179"~0.218"
ER32-1/4	0.211"~0.250"
ER32-9/32	0.242"~0.281"
ER32-5/16	0.283"~0.312"
ER32-11/32	0.304"~0.343"
ER32-3/8	0.336"~0.375"
ER32-13/32	0.367"~0.406"
ER32-7/16	0.398"~0.437"
ER32-15/32	0.429"~0.468"
ER32-1/2	0.461"~0.500"
ER32-17/32	0.492"~0.531"
ER32-9/16	0.523"~0.562"
ER32-19/32	0.554"~0.593"
ER32-5/8	0.586"~0.625"
ER32-21/32	0.617"~0.656"
ER32-11/16	0.648"~0.687"
ER32-23/32	0.679"~0.718"
ER32-3/4	0.711"~0.750"

ER40

規格 Spec.	夾持範圍 Clamp Range
ER40-1/8	0.086"~0.125"
ER40-5/32	0.117"~0.156"
ER40-3/16	0.148"~0.187"
ER40-7/32	0.179"~0.218"
ER40-1/4	0.211"~0.250"
ER40-9/32	0.242"~0.281"
ER40-5/16	0.283"~0.312"
ER40-11/32	0.304"~0.343"
ER40-3/8	0.336"~0.375"
ER40-13/32	0.367"~0.406"
ER40-7/16	0.398"~0.437"
ER40-15/32	0.429"~0.468"
ER40-1/2	0.461"~0.500"
ER40-17/32	0.492"~0.531"
ER40-9/16	0.523"~0.562"
ER40-19/32	0.554"~0.593"
ER40-5/8	0.586"~0.625"
ER40-21/32	0.617"~0.656"
ER40-11/16	0.648"~0.687"
ER40-23/32	0.679"~0.718"
ER40-3/4	0.711"~0.750"
ER40-7/8	0.836"~0.875"
ER40-1	0.961"~1.00"

ER50

規格 Spec.	夾持範圍 Clamp Range
ER50-7/23	0.179"~0.219"
ER50-1/4	0.211"~0.250"
ER50-5/16	0.273"~0.313"
ER50-11/32	0.304"~0.344"
ER50-3/8	0.336"~0.375"
ER50-7/16	0.359"~0.438"
ER50-17/32	0.453"~0.531"
ER50-5/8	0.546"~0.625"
ER50-11/16	0.609"~0.688"
ER50-25/32	0.703"~0.781"
ER50-27/32	0.765"~0.844"
ER50-15/16	0.859"~0.938"
ER50-1	0.921"~1.000"
ER50-1-3/32	1.015"~1.094"
ER50-1-3/16	1.109"~1.188"
ER50-1-1/4	1.171"~1.250"
ER50-1-5/16	1.234"~1.313"

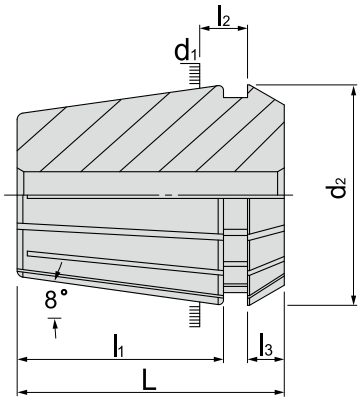
- 以上規格皆有普通級 0.02mm、A 級 0.01mm 及 UP 級 0.005mm 三種精度等級可選購，訂購時請告知所需精度等級。

-The above specifications individually ordinary grade 0.02mm, A grade 0.01mm and UP grade 0.005mm. Three kinds of precision grade optional, please inform us the required accuracy grade.when ordering

• 長度單位 Unit of Length (mm)

ER-FID 出水筒夾
ER-FID COOLANT COLLET

範例 Exampl



規格 Spec.	d1	d2	L	l1	l2	l3	尺寸範圍 Size Range
ER16	16	16.6	27.5	20.8	6.26	4	3~7mm
ER20	20	20.6	31.5	23.9	6.36	4.8	3~9mm
ER25	25	25.6	34	25.9	6.66	5	3~14mm
ER32	32	32.6	40	30.9	7.16	5.5	3~20mm
ER40	40	40.6	46	34.9	7.66	7	4~26mm

ER16-FID

規格 Spec.	夾持範圍 Clamp Range	重量 (KGS) Weight
FID-ER16-3	3	0.03
FID-ER16-4	4	0.03
FID-ER16-5	5	0.03
FID-ER16-6	6	0.03
FID-ER16-7	7	0.03

ER20-FID

規格 Spec.	夾持範圍 Clamp Range	重量 (KGS) Weight
FID-ER20-3	3	0.04
FID-ER20-4	4	0.04
FID-ER20-5	5	0.04
FID-ER20-6	6	0.04
FID-ER20-7	7	0.04
FID-ER20-8	8	0.04
FID-ER20-9	9	0.04

ER25-FID

規格 Spec.	夾持範圍 Clamp Range	重量 (KGS) Weight
FID-ER25-3	3	0.06
FID-ER25-4	4	0.06
FID-ER25-5	5	0.06
FID-ER25-6	6	0.06
FID-ER25-7	7	0.06
FID-ER25-8	8	0.06
FID-ER25-9	9	0.06
FID-ER25-10	10	0.06
FID-ER25-11	11	0.06
FID-ER25-12	12	0.06
FID-ER25-13	13	0.06
FID-ER25-14	14	0.06

• 長度單位 Unit of Length (mm)

ER-FID 出水筒夾
ER-FID COOLANT COLLET

ER32-FID

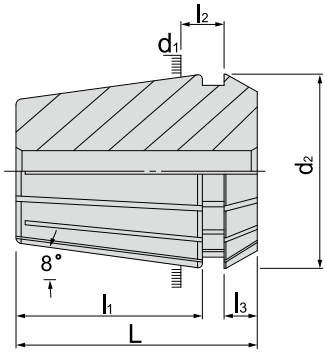
規格 Spec.	夾持範圍 Clamp Range	重量 (KGS) Weight
FID-ER32-3	3	0.10
FID-ER32-4	4	0.10
FID-ER32-5	5	0.10
FID-ER32-6	6	0.10
FID-ER32-7	7	0.10
FID-ER32-8	8	0.10
FID-ER32-9	9	0.10
FID-ER32-10	10	0.10
FID-ER32-11	11	0.10
FID-ER32-12	12	0.10
FID-ER32-13	13	0.10
FID-ER32-14	14	0.10
FID-ER32-15	15	0.10
FID-ER32-16	16	0.10
FID-ER32-17	17	0.10
FID-ER32-18	18	0.10
FID-ER32-19	19	0.10
FID-ER32-20	20	0.10

ER40-FID

規格 Spec.	夾持範圍 Clamp Range	重量 (KGS) Weight
FID-ER40-4	4	0.25
FID-ER40-5	5	0.25
FID-ER40-6	6	0.25
FID-ER40-7	7	0.25
FID-ER40-8	8	0.25
FID-ER40-9	9	0.25
FID-ER40-10	10	0.25
FID-ER40-11	11	0.25
FID-ER40-12	12	0.25
FID-ER40-13	13	0.25
FID-ER40-14	14	0.25
FID-ER40-15	15	0.25
FID-ER40-16	16	0.25
FID-ER40-17	17	0.25
FID-ER40-18	18	0.25
FID-ER40-19	19	0.25
FID-ER40-20	20	0.25
FID-ER40-21	21	0.25
FID-ER40-22	22	0.25
FID-ER40-23	23	0.25
FID-ER40-24	24	0.25
FID-ER40-25	25	0.25
FID-ER40-26	26	0.25

ER-FOD 出水筒夾
ER-FOD COOLANT COLLET

範例 Exampl



規格 Spec.	d1	d2	L	l1	l2	l3	尺寸範圍 Size Range
ER16	16	16.6	27.5	20.8	6.26	4	3~7mm
ER20	20	20.6	31.5	23.9	6.36	4.8	3~9mm
ER25	25	25.6	34	25.9	6.66	5	3~14mm
ER32	32	32.6	40	30.9	7.16	5.5	3~20mm
ER40	40	40.6	46	34.9	7.66	7	4~26mm
ER50	50	52	60	46	13.4	8.5	6~20mm

• 長度單位 Unit of Length (mm)

ER-FOD 出水筒夾
ER-FOD COOLANT COLLET

ER16-FOD

規格 Spec.	夾持範圍 Clamp Range	重量 (KGS) Weight
FOD-ER16-3	3	0.03
FOD-ER16-4	4	0.03
FOD-ER16-5	5	0.03
FOD-ER16-6	6	0.03
FOD-ER16-7	7	0.03

ER20-FOD

規格 Spec.	夾持範圍 Clamp Range	重量 (KGS) Weight
FOD-ER20-3	3	0.04
FOD-ER20-4	4	0.04
FOD-ER20-5	5	0.04
FOD-ER20-6	6	0.04
FOD-ER20-7	7	0.04
FOD-ER20-8	8	0.04
FOD-ER20-9	9	0.04

ER25-FOD

規格 Spec.	夾持範圍 Clamp Range	重量 (KGS) Weight
FOD-ER25-3	3	0.06
FOD-ER25-4	4	0.06
FOD-ER25-5	5	0.06
FOD-ER25-6	6	0.06
FOD-ER25-7	7	0.06
FOD-ER25-8	8	0.06
FOD-ER25-9	9	0.06
FOD-ER25-10	10	0.06
FOD-ER25-11	11	0.06
FOD-ER25-12	12	0.06
FOD-ER25-13	13	0.06
FOD-ER25-14	14	0.06

ER32-FOD

規格 Spec.	夾持範圍 Clamp Range	重量 (KGS) Weight
FOD-ER32-3	3	0.10
FOD-ER32-4	4	0.10
FOD-ER32-5	5	0.10
FOD-ER32-6	6	0.10
FOD-ER32-7	7	0.10
FOD-ER32-8	8	0.10
FOD-ER32-9	9	0.10
FOD-ER32-10	10	0.10
FOD-ER32-11	11	0.10
FOD-ER32-12	12	0.10
FOD-ER32-13	13	0.10
FOD-ER32-14	14	0.10
FOD-ER32-15	15	0.10
FOD-ER32-16	16	0.10
FOD-ER32-17	17	0.10
FOD-ER32-18	18	0.10
FOD-ER32-19	19	0.10
FOD-ER32-20	20	0.10

ER40-FOD

規格 Spec.	夾持範圍 Clamp Range	重量 (KGS) Weight
FOD-ER40-4	4	0.25
FOD-ER40-5	5	0.25
FOD-ER40-6	6	0.25
FOD-ER40-7	7	0.25
FOD-ER40-8	8	0.25
FOD-ER40-9	9	0.25
FOD-ER40-10	10	0.25
FOD-ER40-11	11	0.25
FOD-ER40-12	12	0.25
FOD-ER40-13	13	0.25
FOD-ER40-14	14	0.25
FOD-ER40-15	15	0.25
FOD-ER40-16	16	0.25
FOD-ER40-17	17	0.25
FOD-ER40-18	18	0.25
FOD-ER40-19	19	0.25
FOD-ER40-20	20	0.25
FOD-ER40-21	21	0.25
FOD-ER40-22	22	0.25
FOD-ER40-23	23	0.25
FOD-ER40-24	24	0.25
FOD-ER40-25	25	0.25
FOD-ER40-26	26	0.25

ER50-FOD

規格 Spec.	夾持範圍 Size Range	重量 (KGS) Weight
FOD-ER50-6	6	0.45
FOD-ER50-7	7	0.45
FOD-ER50-8	8	0.45
FOD-ER50-9	9	0.45
FOD-ER50-10	10	0.45
FOD-ER50-11	11	0.45
FOD-ER50-12	12	0.45
FOD-ER50-13	13	0.45
FOD-ER50-14	14	0.45
FOD-ER50-15	15	0.45
FOD-ER50-16	16	0.45
FOD-ER50-17	17	0.45
FOD-ER50-18	18	0.45
FOD-ER50-19	19	0.45
FOD-ER50-20	20	0.45
FOD-ER50-21	21	0.45
FOD-ER50-22	22	0.45
FOD-ER50-23	23	0.45
FOD-ER50-24	24	0.45
FOD-ER50-25	25	0.45
FOD-ER50-26	26	0.45
FOD-ER50-27	27	0.45
FOD-ER50-28	28	0.45
FOD-ER50-29	29	0.45
FOD-ER50-30	30	0.45
FOD-ER50-31	31	0.45
FOD-ER50-32	32	0.45
FOD-ER50-33	33	0.45
FOD-ER50-34	34	0.45

• 長度單位 Unit of Length (mm)

ERS 直溝止水筒夾
ERS METALLIC SEALED COLLET

ERS11

規格 Spec.	夾持範圍 Clamp Range	重量 (KGS) Weight
ERS11-3	3	0.03
ERS11-3.5	3.5	0.03
ERS11-4	4	0.03
ERS11-4.5	4.5	0.03
ERS11-5	5	0.03
ERS11-5.5	5.5	0.03
ERS11-6	6	0.03
ERS11-6.5	6.5	0.03
ERS11-7	7	0.03

ERS16

規格 Spec.	夾持範圍 Clamp Range	重量 (KGS) Weight
ERS16-3	3	0.03
ERS16-3.5	3.5	0.03
ERS16-4	4	0.03
ERS16-4.5	4.5	0.03
ERS16-5	5	0.03
ERS16-5.5	5.5	0.03
ERS16-6	6	0.03
ERS16-6.5	6.5	0.03
ERS16-7	7	0.03
ERS16-7.5	7.5	0.03
ERS16-8	8	0.03
ERS16-8.5	8.5	0.03
ERS16-9	9	0.03
ERS16-9.5	9.5	0.03
ERS16-10	10	0.03

ERS20

規格 Spec.	夾持範圍 Clamp Range	重量 (KGS) Weight
ERS20-3	3	0.03
ERS20-3.5	3.5	0.03
ERS20-4	4	0.03
ERS20-4.5	4.5	0.03
ERS20-5	5	0.03
ERS20-5.5	5.5	0.03
ERS20-6	6	0.03
ERS20-6.5	6.5	0.03
ERS20-7	7	0.03
ERS20-7.5	7.5	0.03
ERS20-8	8	0.03
ERS20-8.5	8.5	0.03
ERS20-9	9	0.03
ERS20-9.5	9.5	0.03
ERS20-10	10	0.03
ERS20-10.5	10.5	0.03
ERS20-11	11	0.03
ERS20-11.5	11.5	0.03
ERS20-12	12	0.03
ERS20-12.5	12.5	0.03
ERS20-13	13	0.03

ERS25

規格 Spec.	夾持範圍 Clamp Range	重量 (KGS) Weight
ERS25-3	3	0.03
ERS25-3.5	3.5	0.03
ERS25-4	4	0.03
ERS25-4.5	4.5	0.03
ERS25-5	5	0.03
ERS25-5.5	5.5	0.03
ERS25-6	6	0.03
ERS25-6.5	6.5	0.03
ERS25-7	7	0.03
ERS25-7.5	7.5	0.03
ERS25-8	8	0.03
ERS25-8.5	8.5	0.03
ERS25-9	9	0.03
ERS25-9.5	9.5	0.03
ERS25-10	10	0.03
ERS25-10.5	10.5	0.03
ERS25-11	11	0.03
ERS25-11.5	11.5	0.03
ERS25-12	12	0.03
ERS25-12.5	12.5	0.03
ERS25-13	13	0.03
ERS25-13.5	13.5	0.03
ERS25-14	14	0.03
ERS25-14.5	14.5	0.03
ERS25-15	15	0.03
ERS25-15.5	15.5	0.03
ERS25-16	16	0.03

ERS32

規格 Spec.	夾持範圍 Clamp Range	重量 (KGS) Weight
ERS32-3	3	0.03
ERS32-3.5	3.5	0.03
ERS32-4	4	0.03
ERS32-4.5	4.5	0.03
ERS32-5	5	0.03
ERS32-5.5	5.5	0.03
ERS32-6	6	0.03
ERS32-6.5	6.5	0.03
ERS32-7	7	0.03
ERS32-7.5	7.5	0.03
ERS32-8	8	0.03
ERS32-8.5	8.5	0.03
ERS32-9	9	0.03
ERS32-9.5	9.5	0.03
ERS32-10	10	0.03
ERS32-10.5	10.5	0.03
ERS32-11	11	0.03
ERS32-11.5	11.5	0.03
ERS32-12	12	0.03
ERS32-12.5	12.5	0.03
ERS32-13	13	0.03
ERS32-13.5	13.5	0.03
ERS32-14	14	0.03
ERS32-14.5	14.5	0.03

NEW

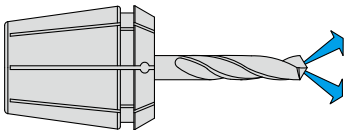
ERS32

規格 Spec.	夾持範圍 Clamp Range	重量 (KGS) Weight
ERS32-15	15	0.03
ERS32-15.5	15.5	0.03
ERS32-16	16	0.03
ERS32-16.5	16.5	0.03
ERS32-17	17	0.03
ERS32-17.5	17.5	0.03
ERS32-18	18	0.03
ERS32-18.5	18.5	0.03
ERS32-19	19	0.03
ERS32-19.5	19.5	0.03
ERS32-20	20	0.03

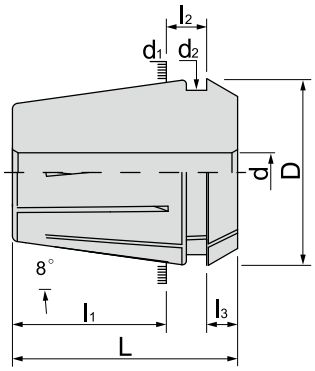
ERS40

規格 Spec.	夾持範圍 Clamp Range	重量 (KGS) Weight
ERS40-3	3	0.03
ERS40-3.5	3.5	0.03
ERS40-4	4	0.03
ERS40-4.5	4.5	0.03
ERS40-5	5	0.03
ERS40-5.5	5.5	0.03
ERS40-6	6	0.03
ERS40-6.5	6.5	0.03
ERS40-7	7	0.03
ERS40-7.5	7.5	0.03
ERS40-8	8	0.03
ERS40-8.5	8.5	0.03
ERS40-9	9	0.03
ERS40-9.5	9.5	0.03
ERS40-10	10	0.03
ERS40-10.5	10.5	0.03
ERS40-11	11	0.03
ERS40-11.5	11.5	0.03
ERS40-12	12	0.03
ERS40-12.5	12.5	0.03
ERS40-13	13	0.03
ERS40-13.5	13.5	0.03
ERS40-14	14	0.03
ERS40-14.5	14.5	0.03
ERS40-15	15	0.03
ERS40-15.5	15.5	0.03
ERS40-16	16	0.03
ERS40-16.5	16.5	0.03
ERS40-17	17	0.03
ERS40-17.5	17.5	0.03
ERS40-18	18	0.03
ERS40-18.5	18.5	0.03
ERS40-19	19	0.03
ERS40-19.5	19.5	0.03
ERS40-20	20	0.03
ERS40-20.5	20.5	0.03
ERS40-21	21	0.03
ERS40-21.5	21.5	0.03
ERS40-22	22	0.03
ERS40-22.5	22.5	0.03
ERS40-23	23	0.03
ERS40-23.5	23.5	0.03
ERS40-24	24	0.03
ERS40-24.5	24.5	0.03
ERS40-25	25	0.03
ERS40-25.5	25.5	0.03
ERS40-26	26	0.03

ER-EO 止水筒夾
ER-EO SEALED COLLET



夾持附水孔刀具專用



- 材質 :SUJ-2。
- 斜度 :8°
- 硬度 :HRC46°
- 表面粗糙度 RZ2.5 以內
- 偏擺精度 <0.02mm

- Steel:SUJ - 2
- Taper:8°
- Hardness: HRC46°
- Surface Roughness:RZ 2.5
- Precision : within 0.02mm.

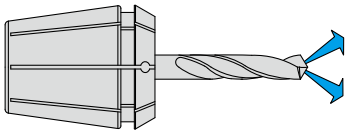
特點 Feature

- 利用溝槽的差異，以及墊圈 (Sealed ring 封環) 的應用，達到周圍止水，僅中心出水的功用
- 適合於夾持出水孔的刀具
- 可承受水壓達 21kgf/cm²
- 無彈性 (沒有彈性夾持範圍，需看最大夾持範圍)
- 非標準孔徑如英制尺寸或是點數規格可接受訂製
- 專利在案

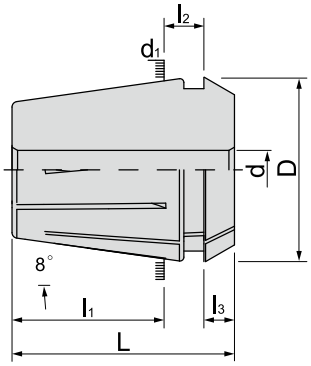
- Take use of the difference of groove and then use of sealed ring to attain surrounding coolant and provide center as water outlet.
- Suitable for chuck cutting tools with water exit.
- Can bear the water pressure up to 21kgf/cm².
- No flexibility (NO flexible chucking range. It depends on the biggest chucking range).
- Non-standard type, such as inch type or decimal type, are welcomed to order.
- Has a patent.

規格 Spec.	d 尺寸範圍 Size Range	d_1	d_2	L	l_1	l_2	l_3
ER11EO-d	3~7mm	11	11.2	18	13.5	3.8	2.5
ER16EO-d	3~10mm	16	16.6	27.5	20.8	6.26	4
ER20EO-d	3~13mm	20	20.6	31.5	23.9	6.36	4.8
ER25EO-d	3~16mm	25	25.6	34	25.9	6.66	5
ER32EO-d	3~20mm	32	32.6	40	30.9	7.16	5.5
ER40EO-d	3~26mm	40	40.6	46	34.9	7.66	7

ER-ES 直溝止水筒夾
ER-ES SEALED COLLET



夾持附水孔刀具專用

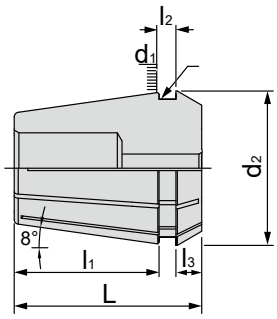


規格 Spec.	d 尺寸範圍 Size Range	L	l_1	l_2	l_3	D	d_1
ER11ES-d	3~7mm	18	13.5	3.8	2.5	11.2	11
ER16ES-d	0.5~10mm	27.5	20.8	6.25	4	16.6	16
ER20ES-d	1~13mm	31.5	23.9	6.36	4.8	20.6	20
ER25ES-d	1~16mm	34	25.9	6.66	5	25.6	25
ER32ES-d	2~20mm	40	30.9	7.16	5.5	32.6	32
ER40ES-d	3~26mm	46	34.9	7.66	7	40.6	40

• 長度單位 Unit of Length (mm)

PN 筒夾
PN COLLET

精度 Accuracy : <3μm



規格 Spec.	L	l_1	l_2	l_3	d_1	d_2	夾持範圍 Size Range	重量 (KGS) Weight
PN16	27.5	20.8	3.4	4	16	16.8	3.0~10	0.03
PN20	31.5	23.9	3.4	4.8	20	20.8	3.0~13	0.04
PN25	34	25.9	3.6	5	25	25.8	3.0~16	0.06
PN32	40	30.9	4.1	5.5	32	32.7	3.0~20	0.10
PN40	46	34.5	4.5	7	40	40.85	6.0~26	0.25

PN16

規格 Spec.	夾持範圍 Size Range
PN16-03	3
PN16-04	4
PN16-05	5
PN16-06	6
PN16-07	7
PN16-08	8
PN16-09	9
PN16-10	10

PN20

規格 Spec.	夾持範圍 Size Range
PN20-03	3
PN20-04	4
PN20-05	5
PN20-06	6
PN20-07	7
PN20-08	8
PN20-09	9
PN20-10	10
PN20-11	11
PN20-12	12
PN20-13	13

PN25

規格 Spec.	夾持範圍 Size Range
PN25-03	3
PN25-04	4
PN25-05	5
PN25-06	6
PN25-07	7
PN25-08	8
PN25-09	9
PN25-10	10
PN25-11	11
PN25-12	12
PN25-13	13
PN25-14	14
PN25-15	15
PN25-16	16

PN32

規格 Spec.	夾持範圍 Size Range
PN32-03	3
PN32-04	4
PN32-05	5
PN32-06	6
PN32-07	7
PN32-08	8
PN32-09	9
PN32-10	10
PN32-11	11
PN32-12	12
PN32-13	13
PN32-14	14
PN32-15	15
PN32-16	16
PN32-17	17
PN32-18	18
PN32-19	19
PN32-20	20

PN40

規格 Spec.	夾持範圍 Size Range	規格 Spec.	夾持範圍 Size Range
PN40-06	6	PN40-21	21
PN40-07	7	PN40-22	22
PN40-08	8	PN40-23	23
PN40-09	9	PN40-24	24
PN40-10	10	PN40-25	25
PN40-11	11	PN40-26	26
PN40-12	12		
PN40-13	13		
PN40-14	14		
PN40-15	15		
PN40-16	16		
PN40-17	17		
PN40-18	18		
PN40-19	19		
PN40-20	20		

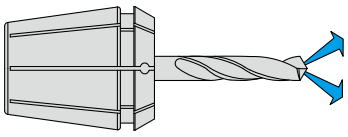
- 另有英制規格可選購 Another Inch specifications purchase optional.

• 長度單位 Unit of Length (mm)

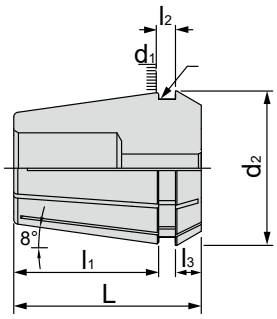
ACCESSORIES

PN-ES 斜槽止水筒夾
PN-ES STEEL SEALED COLLET

精度 Accuracy : <3μm



夾持附水孔刀具專用



規格 Spec.	L	l_1	l_2	l_3	d_1	d_2	夾持範圍 Size Range	重量 (KGS) Weight
PN16ES	27.5	20.8	3.4	4	16	16.8	3.0~10	0.03
PN20ES	31.5	23.9	3.4	4.8	20	20.8	3.0~13	0.04
PN25ES	34	25.9	3.6	5	25	25.8	3.0~16	0.06
PN32ES	40	30.9	4.1	5.5	32	32.7	3.0~20	0.10
PN40ES	46	34.5	4.5	7	40	40.85	6.0~26	0.25

PN16ES

規格 Spec.	夾持範圍 Size Range
PN16ES-03	3
PN16ES-04	4
PN16ES-05	5
PN16ES-06	6
PN16ES-07	7
PN16ES-08	8
PN16ES-09	9
PN16ES-10	10

PN20ES

規格 Spec.	夾持範圍 Size Range
PN20ES-03	3
PN20ES-04	4
PN20ES-05	5
PN20ES-06	6
PN20ES-07	7
PN20ES-08	8
PN20ES-09	9
PN20ES-10	10
PN20ES-11	11
PN20ES-12	12
PN20ES-13	13

PN25ES

規格 Spec.	夾持範圍 Size Range
PN25ES-03	3
PN25ES-04	4
PN25ES-05	5
PN25ES-06	6
PN25ES-07	7
PN25ES-08	8
PN25ES-09	9
PN25ES-10	10
PN25ES-11	11
PN25ES-12	12
PN25ES-13	13
PN25ES-14	14
PN25ES-15	15
PN25ES-16	16

PN32ES

規格 Spec.	夾持範圍 Size Range
PN32ES-03	3
PN32ES-04	4
PN32ES-05	5
PN32ES-06	6
PN32ES-07	7
PN32ES-08	8
PN32ES-09	9
PN32ES-10	10
PN32ES-11	11
PN32ES-12	12
PN32ES-13	13
PN32ES-14	14
PN32ES-15	15
PN32ES-16	16
PN32ES-17	17
PN32ES-18	18
PN32ES-19	19
PN32ES-20	20

PN40ES

規格 Spec.	夾持範圍 Size Range	規格 Spec.	夾持範圍 Size Range
PN40ES-06	6	PN40ES-21	21
PN40ES-07	7	PN40ES-22	22
PN40ES-08	8	PN40ES-23	23
PN40ES-09	9	PN40ES-24	24
PN40ES-10	10	PN40ES-25	25
PN40ES-11	11	PN40ES-26	26
PN40ES-12	12		
PN40ES-13	13		
PN40ES-14	14		
PN40ES-15	15		
PN40ES-16	16		
PN40ES-17	17		
PN40ES-18	18		
PN40ES-19	19		
PN40ES-20	20		

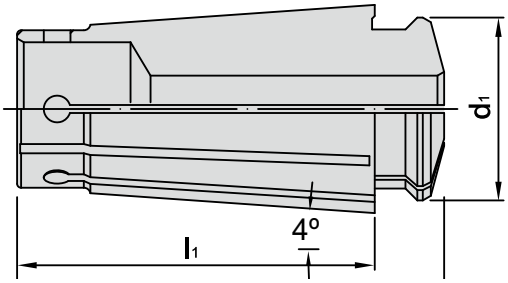
- 另有英制規格可選購 Another Inch specifications purchase optional.

• 長度單位 Unit of Length (mm)

ACCESSORIES

SKS 高速機專用筒夾
SKS COLLET

精度 Accuracy : 5μm



特點 Feature

- 偏擺精度 :5μ 以下 (延伸 4D 長度處)
- 可夾持鑽頭、銑刀、鉸刀
- 所夾持刀具柄徑公差限定 h7 以內
- 孔徑 3mm 以下彈性收縮 0.25mm
- 孔徑 3mm 以上彈性收縮 0.5mm

- Precision:5μ (4D length)
- Applicable for clamping drills, mills, and reamers.
- Holding tool with a tolerance within h7.
- When the aperture is under 3mm, the clamping capacity is 0.25mm.
- When the aperture is above 3mm, the clamping capacity is 0.5mm.

規格 Spec.	L	l_1	d_1	重量 (KGS) Weight
SKS-6	25.7	21.4	9.26	0.03
SKS-10	32	26.8	13.6	0.04
SKS-13	39.1	33.6	17	0.04
SKS-16	46	40	21	0.06
SKS-20	54.3	49	24.9	0.14
SKS-25	58.2	51.5	31	1.00

SKS6-UP

規格 Spec.	夾持範圍 Range d_1	重量 (KGS) Weight
SKS6-3-UP	2.75~3.0	0.01
SKS6-3.5-UP	3.0~3.5	0.01
SKS6-4-UP	3.5~4.0	0.01
SKS6-4.5-UP	4.0~4.5	0.01
SKS6-5-UP	4.5~5.0	0.01
SKS6-5.5-UP	5.0~5.5	0.01
SKS6-6-UP	5.5~6.0	0.01

SKS10-UP

規格 Spec.	夾持範圍 Range d_1	重量 (KGS) Weight
SKS10-2-UP	2.0~1.75	0.02
SKS10-2.5-UP	2.5~2.25	0.02
SKS10-3UP	3.0~2.75	0.02
SKS10-3.5-UP	3.5~3.0	0.02
SKS10-4-UP	4.0~3.5	0.02
SKS10-4.5-UP	4.5~4.0	0.02
SKS10-5-UP	5.0~4.5	0.02
SKS10-5.5UP	5.5~5.0	0.02
SKS10-6-UP	6.0~5.5	0.02
SKS10-6.5-UP	6.5~6.0	0.02
SKS10-7-UP	7.0~6.5	0.02
SKS10-7.5-UP	7.5~7.0	0.02
SKS10-8UP	8.0~7.5	0.02
SKS10-8.5-UP	8.5~8.0	0.02
SKS10-9-UP	9.0~8.5	0.02
SKS10-9.5-UP	9.5~9.0	0.01
SKS10-10-UP	10.0~9.5	0.01

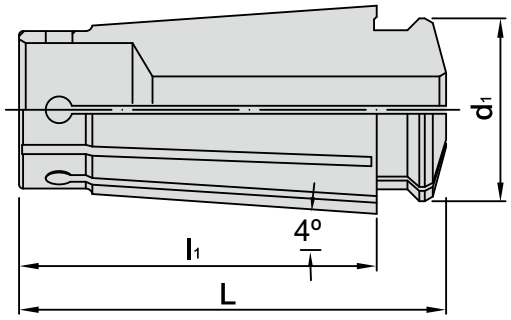
SKS13-UP

規格 Spec.	夾持範圍 Range d_1	重量 (KGS) Weight
SKS13-3-UP	2.75~3.0	0.05
SKS13-3.5-UP	3.0~3.5	0.05
SKS13-4-UP	3.5~4.0	0.05
SKS13-4.5-UP	4.0~4.5	0.05
SKS13-5-UP	4.5~5.0	0.05
SKS13-5.5-UP	5.0~5.5	0.05
SKS13-6-UP	5.5~6.0	0.05
SKS13-6.5-UP	6.0~6.5	0.05
SKS13-7-UP	6.5~7.0	0.05
SKS13-7.5-UP	7.0~7.5	0.05
SKS13-8-UP	7.5~8.0	0.05
SKS13-8.5-UP	8.0~8.5	0.05
SKS13-9-UP	8.5~9.0	0.04
SKS13-9.5-UP	9.0~9.5	0.04
SKS13-10-UP	9.5~10.0	0.04
SKS13-10.5-UP	10.0~10.5	0.04
SKS13-11-UP	10.5~11.0	0.04
SKS13-11.5-UP	11.0~11.5	0.04
SKS13-12-UP	11.5~12.0	0.03
SKS13-12.5-UP	12.0~12.5	0.03
SKS13-13-UP	12.5~13.0	0.03

• 長度單位 Unit of Length (mm)

SKS 高速機專用筒夾
SKS COLLET

精度 Accuracy : 5μm



特點 Feature

- 偏擺精度 :5μ 以下 (延伸 4D 長度處)
- 可夾持鑽頭、銑刀、鉸刀
- 所挾持刀具柄徑公差限定 h7 以內
- 孔徑 3mm 以下彈性收縮 0.25mm
- 孔徑 3mm 以上彈性收縮 0.5mm

- Precision:5μ (4D length)
- Applicable for clamping drills, mills, and reamers.
- Clamping tool with a tolerance within h7.
- When the aperture is under 3mm, the clamping capacity is 0.25mm.
- When the aperture is above 3mm, the clamping capacity is 0.5mm.

SKS16-UP

規格 Spec.	夾持範圍 Range d_1	重量 (KGS) Weight
SKS16-3-UP	2.75~3.0	0.09
SKS16-3.5-UP	3.0~3.5	0.08
SKS16-4-UP	3.5~4.0	0.09
SKS16-4.5-UP	4.0~4.5	0.09
SKS16-5-UP	4.5~5.0	0.09
SKS16-5.5-UP	5.0~5.5	0.09
SKS16-6-UP	5.5~6.0	0.09
SKS16-6.5-UP	6.0~6.5	0.09
SKS16-7-UP	6.5~7.0	0.09
SKS16-7.5-UP	7.0~7.5	0.09
SKS16-8-UP	7.5~8.0	0.09
SKS16-8.5-UP	8.0~8.5	0.09
SKS16-9-UP	8.5~9.0	0.09
SKS16-9.5-UP	9.0~9.5	0.08
SKS16-10-UP	9.5~10.0	0.09
SKS16-10.5-UP	10.0~10.5	0.08
SKS16-11-UP	10.5~11.0	0.08
SKS16-11.5-UP	11.0~11.5	0.08
SKS16-12-UP	11.5~12.0	0.08
SKS16-12.5-UP	12.0~12.5	0.07
SKS16-13-UP	12.5~13.0	0.07
SKS16-13.5-UP	13.0~13.5	0.07
SKS16-14-UP	13.5~14.0	0.07
SKS16-14.5-UP	14.0~14.5	0.06
SKS16-15-UP	14.5~15.0	0.06
SKS16-15.5-UP	15.0~15.5	0.06
SKS16-16-UP	15.5~16.0	0.06

SKS20-UP

規格 Spec.	夾持範圍 Range d_1	重量 (KGS) Weight
SKS20-3-UP	3.0~2.75	0.14
SKS20-3.5-UP	3.5~3.0	0.14
SKS20-4-UP	3.5~4.0	0.14
SKS20-4.5-UP	4.0~4.5	0.14
SKS20-5-UP	4.5~5.0	0.14
SKS20-5.5-UP	5.0~5.5	0.14
SKS20-6-UP	5.5~6.0	0.15
SKS20-6.5-UP	6.0~6.5	0.15
SKS20-7-UP	6.5~7.0	0.14
SKS20-7.5-UP	7.0~7.5	0.14
SKS20-8-UP	7.5~8.0	0.15
SKS20-8.5-UP	8.0~8.5	0.15
SKS20-9-UP	8.5~9.0	0.15
SKS20-9.5-UP	9.0~9.5	0.14
SKS20-10-UP	9.5~10.0	0.15
SKS20-10.5-UP	10.0~10.5	0.14
SKS20-11-UP	10.5~11.0	0.14
SKS20-11.5-UP	11.0~11.5	0.14
SKS20-12-UP	11.5~12.0	0.14
SKS20-12.5-UP	12.0~12.5	0.14
SKS20-13-UP	12.5~13.0	0.14
SKS20-13.5-UP	13.0~13.5	0.13
SKS20-14-UP	13.5~14.0	0.13
SKS20-14.5-UP	14.0~14.5	0.13
SKS20-15-UP	14.5~15.0	0.13
SKS20-15.5-UP	15.0~15.5	0.12
SKS20-16-UP	15.5~16.0	0.13
SKS20-16.5-UP	16.0~16.5	0.11
SKS20-17-UP	16.5~17.0	0.11
SKS20-17.5-UP	17.0~17.5	0.11
SKS20-18-UP	17.5~18.0	0.10
SKS20-18.5-UP	18.0~18.5	0.10
SKS20-19-UP	18.5~19.0	0.09
SKS20-19.5-UP	19.0~19.5	0.09
SKS20-20-UP	19.5~20.0	0.08

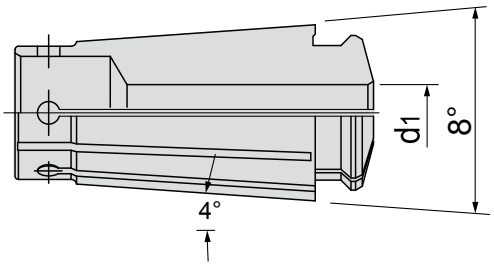
SKS25-UP

規格 Spec.	夾持範圍 Range d_1	重量 (KGS) Weight
SKS25-3-UP	2.75~3	0.25
SKS25-4-UP	3.5~4	0.25
SKS25-6-UP	5.5~6	0.25
SKS25-8-UP	7.5~8	0.25
SKS25-10-UP	9.5~10	0.24
SKS25-12-UP	11.5~12	0.24
SKS25-16-UP	15.5~16	0.22
SKS25-16.5-UP	16~16.5	0.22
SKS25-17-UP	16.5~17	0.21
SKS25-17.5-UP	17~17.5	0.20
SKS25-18-UP	17.5~18	0.20
SKS25-18.5-UP	18~18.5	0.20
SKS25-19-UP	18.5~19	0.19
SKS25-19.5-UP	19~19.5	0.19
SKS25-20-UP	19.5~20	0.19
SKS25-20.5-UP	20~20.5	0.18
SKS25-21-UP	20.5~21	0.17
SKS25-21.5-UP	21~21.5	0.17
SKS25-22-UP	21.5~22	0.17
SKS25-22.5-UP	22~22.5	0.16
SKS25-23-UP	22.5~23	0.15
SKS25-23.5-UP	23~23.5	0.20
SKS25-24-UP	23.5~24	0.14
SKS25-24.5-UP	24~24.5	0.14
SKS25-25-UP	24.5~25	0.13
SKS25-25.4-UP	25~25.4	0.13

• 長度單位 Unit of Length (mm)

SKS 高速機專用筒夾 (E 型)
SKS COLLET (E TYPE)

精度 Accuracy : 5μm



特點 Feature

- 偏擺精度 :5μ 以下 (延伸 4D 長度處)
- 可夾持鑽頭、銑刀、鉸刀
- 夾持同柄徑刀具專用
- 不具彈性收縮範圍
- 夾持力較 UP 型大
- 所挾持刀具柄徑公差限定 h7 以內

- Precision:5μ (4D length)
-Used for clamping drills, mills, and reamers.
-Used for clamping tools of the same diameter.
- It is not flexible.
-Clamping power is greater than the UP series.
- Holds tool with the diameter difference under h7.

SKS6-E

規格 Spec.	夾持範圍 Range d_1	重量 (KGS) Weight
SKS6E-1	1	0.01
SKS6E-2	2	0.01
SKS6E-3	3	0.01
SKS6E-4	4	0.01
SKS6E-6	6	0.01

SKS10-E

規格 Spec.	夾持範圍 Range d_1	重量 (KGS) Weight
SKS10E-3	3	0.02
SKS10E-4	4	0.02
SKS10E-5	5	0.02
SKS10E-6	6	0.02
SKS10E-8	8	0.02
SKS10E-10	10	0.01

SKS13-E

規格 Spec.	夾持範圍 Range d_1	重量 (KGS) Weight
SKS13E-3	3	0.05
SKS13E-4	4	0.05
SKS13E-5	5	0.05
SKS13E-6	6	0.05
SKS13E-8	8	0.05
SKS13E-10	10	0.04
SKS13E-12	12	0.03
SKS13E-13	13	0.04

SKS16-E

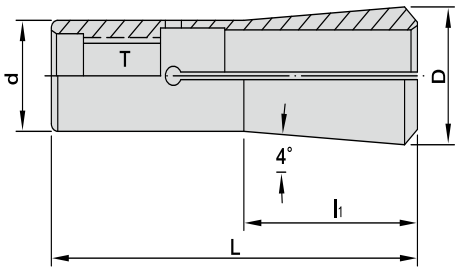
規格 Spec.	夾持範圍 Range d_1	重量 (KGS) Weight
SKS16E-3	3	0.01
SKS16E-4	4	0.01
SKS16E-5	5	0.01
SKS16E-6	6	0.09
SKS16E-8	8	0.09
SKS16E-10	10	0.09
SKS16E-12	12	0.08
SKS16E-16	16	0.06

SKS20-E

規格 Spec.	夾持範圍 Range d_1	重量 (KGS) Weight	規格 Spec.	夾持範圍 Range d_1	重量 (KGS) Weight
SKS20E-3	3	0.15	SKS20E-12	12	0.15
SKS20E-4	4	0.14	SKS20E-13	13	0.14
SKS20E-5	5	0.14	SKS20E-14	14	0.14
SKS20E-6	6	0.14	SKS20E-15	15	0.12
SKS20E-7	7	0.15	SKS20E-16	16	0.12
SKS20E-8	8	0.15	SKS20E-17	17	0.12
SKS20E-9	9	0.15	SKS20E-18	18	0.10
SKS20E-10	10	0.15	SKS20E-19	19	0.10
SKS20E-11	11	0.15	SKS20E-20	20	0.10

• 長度單位 Unit of Length (mm)

SLC 專用筒夾
SLC COLLET



規格 Spec.	L	l_1	d	重量 (KGS) Weight
SLC-6	36	24	8	0.02
SLC-12	57	25.45	14.5	0.04
SLC-20	70	35	21	0.12

SLC-6

規格 Spec.	夾持範圍 Range d_1	重量 (KGS) Weight
SLC-6-2	2.0	0.02
SLC-6-2.25	2.25	0.02
SLC-6-2.5	2.5	0.02
SLC-6-2.75	2.75	0.02
SLC-6-3	3.0	0.02
SLC-6-3.25	3.25	0.02
SLC-6-3.5	3.5	0.02
SLC-6-3.75	3.75	0.02
SLC-6-4	4.0	0.01
SLC-6-4.25	4.25	0.02
SLC-6-4.5	4.5	0.02
SLC-6-4.75	4.75	0.02
SLC-6-5	5.0	0.02
SLC-6-5.25	5.25	0.01
SLC-6-5.5	5.5	0.02
SLC-6-5.75	5.75	0.02
SLC-6-6	6.0	0.02

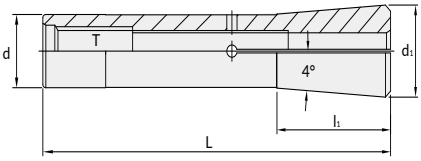
SLC-12

規格 Spec.	夾持範圍 Range d_1	重量 (KGS) Weight
SLC-12-3	3.0	0.06
SLC-12-4	4.0	0.18
SLC-12-5	5.0	0.18
SLC-12-6	6.0	0.18
SLC-12-8	8.0	0.06
SLC-12-10	10.0	0.06
SLC-12-12	12.0	0.18

SLC-20

規格 Spec.	夾持範圍 Range d_1	重量 (KGS) Weight
SLC-20-3	3.0	0.20
SLC-20-4	4.0	0.20
SLC-20-5	5.0	0.20
SLC-20-6	6.0	0.20
SLC-20-8	8.0	0.20
SLC-20-10	10.0	0.18
SLC-20-12	12.0	0.16
SLC-20-16	16.0	0.14
SLC-20-20	20	0.20

EBL 筒夾
EBL COLLET



NEW

特點 Feature

-EBL 筒夾的加長長度和刀柄特殊的加長內孔設計，增加刀具置入深度及刀具較短的懸身長

規格 Spec.	L	l_1	d	d_1	T	夾持範圍 Range
EBL-6	53	15	8.5	10.5	M6	3 ~ 6mm
EBL-8	58	22.2	12	15.09	M8	3 ~ 8mm

EBL-6

規格 Spec.	夾持範圍 Range d_1
EBL-6-3	3.0
EBL-6-4	4.0
EBL-6-5	5.0
EBL-6-6	6.0

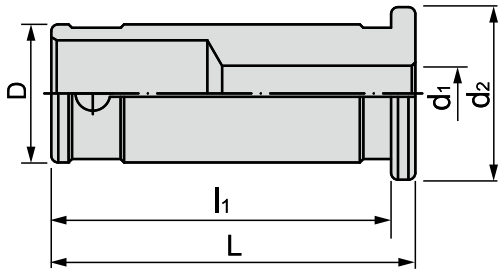
EBL-8

規格 Spec.	夾持範圍 Range d_1
EBL-8-3	3.0
EBL-8-4	4.0
EBL-8-5	5.0
EBL-8-6	6.0
EBL-8-8	8.0

• 長度單位 Unit of Length (mm)

直式筒夾
STRAIGHT SHANK COLLET

精度 Accuracy : <0.02mm



特點 Feature

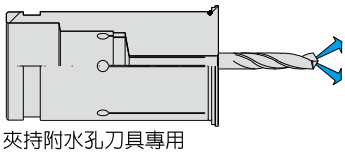
- 偏擺精度小於 0.02mm
- 限定夾持與孔徑相同之刀具柄徑
- 筒夾不具備彈性收縮範圍，強調夾持力
- 刀具置入筒夾必須超過內孔有效夾持長度，以達到有效夾持

-Precision : within 0.02mm.
-Define clamp and aperture the same shank of tool diameter.
-The collet doesn't have the contraction scope, the emphasis chucking power.
-Cutting tool posts into the collet to surpass the hole effective clamp length, achieves the effective clamp.

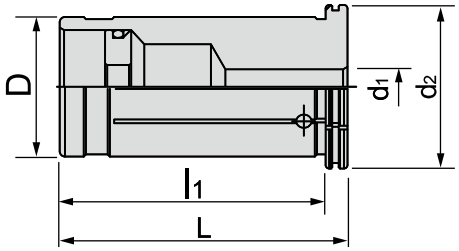
規格 Spec.	D	筒夾孔徑 d_1	d_2	L	l_1	重量 (KGS) Weight
SSC12	12	3, 4, 5, 6, 8	19	44.5	42.5	0.10
SSC16	16	3, 4, 5, 6, 8, 10, 12	19	50	46	0.10
SSC20	20	3, 4, 5, 6, 8, 10, 12, 16	25	52.5	49	0.10
SSC25	25	3, 4, 5, 6, 8, 10, 12, 16, 20	31	60	55	0.18
SSC32	32	3, 4, 5, 6, 8, 10, 12, 14, 16,18, 20, 24, 25	37.5	64.6	59.6	0.30
SSC32	32	1/8, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1"	37.5	64.6	59.6	0.30
SSC42	42	3, 4, 5, 6, 8, 10, 12, 16, 20, 25, 32	48	75	69	0.60
SSC42	42	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1"	48	75	69	0.60

直式止水筒夾
STRAIGHT SEALED COLLET

JIS
MAS 403
B6339



夾持附水孔刀具專用



特點 Feature

- 可承受 21 kgf/cm² 水壓

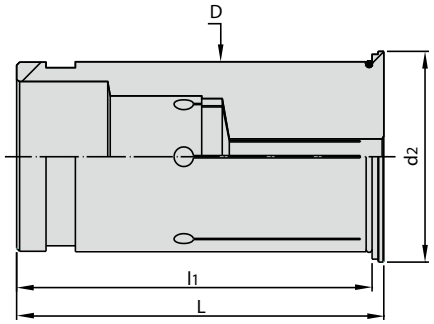
-Water pressure up to 21 kgf/cm²

規格 Spec.	D	筒夾孔徑 aperture d_1	d_2	L	l_1	重量 (KGS) Weight
SSC12-C	12	3, 4, 5, 6, 8	16	40	38	0.10
SSC20-C	20	3, 4, 5, 6, 8, 10, 12, 16	25	52.9	49.4	0.10
SSC25-C	25	3, 4, 5, 6, 8, 10, 12, 16, 20	30.5	52.5	50.5	0.18
SSC32-C	32	3, 4, 5, 6, 8, 10, 12, 16, 20, 25	37.5	66	61	0.30
SSC42-C	42	3, 4, 5, 6, 8, 10, 12, 16, 20, 25, 32	48	75	69	0.60

• 長度單位 Unit of Length (mm)

HYC 液壓套筒
HYC HYDRAULIC COLLET

精度 Accuracy : 5μm



特點 Feature

- 筒夾具有深冷處理

-Collet have sub-zero treatment.

規格 Spec.	L	l_1	D	d_2	重量 (KGS) Weight
HYC12	47	45	12	16.5	-
HYC16	52.5	50.5	16	20	-
HYC20	52.5	50.5	20	24	-
HYC32	62.5	60.5	32	35.5	-

HYC12

規格 Spec.	夾持範圍 Range
HYC12-03	3
HYC12-04	4
HYC12-05	5
HYC12-06	6
HYC12-08	8

HYC16

規格 Spec.	夾持範圍 Range
HYC16-03	3
HYC16-04	4
HYC16-06	6
HYC16-08	8
HYC16-10	10
HYC16-12	12

HYC20

規格 Spec.	夾持範圍 Range
HYC20-03	3
HYC20-04	4
HYC20-05	5
HYC20-06	6
HYC20-07	7
HYC20-08	8
HYC20-09	9
HYC20-10	10
HYC20-11	11
HYC20-12	12
HYC20-13	13
HYC20-14	14
HYC20-15	15
HYC20-16	16

HYC32

規格 Spec.	夾持範圍 Range
HYC32-06	6
HYC32-08	8
HYC32-10	10
HYC32-12	12
HYC32-14	14
HYC32-16	16
HYC32-18	18
HYC32-20	20
HYC32-25	25

HYC 液壓出水套筒
HYC HYDRAULIC COOLANT COLLET

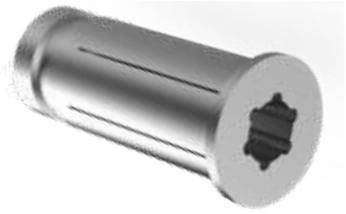


Fig.1

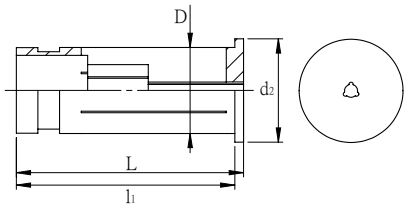
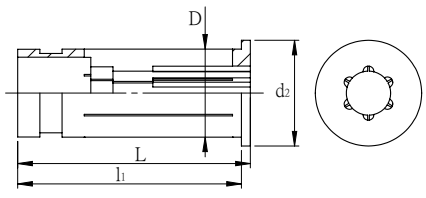


Fig.2



HYC20-FID

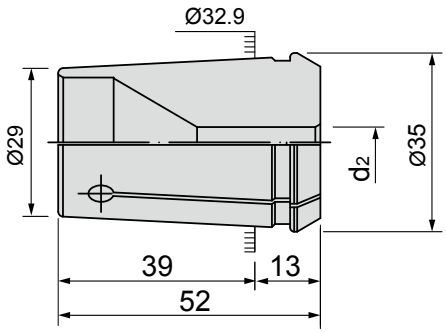
規格 Spec.	夾持範圍 Range	Fig.
HYC20-03-FID	3	1
HYC20-04-FID	4	1
HYC20-06-FID	6	2
HYC20-08-FID	8	2
HYC20-10-FID	10	2
HYC20-12-FID	12	2

• 長度單位 Unit of Length (mm)

SYOZ 筒夾
SYOZ COLLET

DIN-6388
DIN-ISO-10897

精度 Accuracy <0.02mm



- 偏擺精度 <0.02mm
- 限定夾持與孔徑相同之刀具柄徑
- 筒夾不具備彈性收縮範圍，強調夾持力

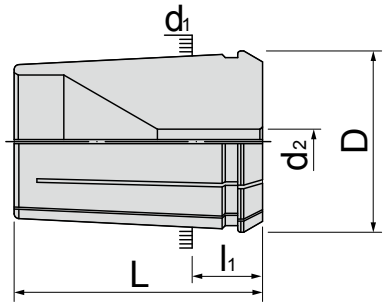
- Precision:<0.02mm.
- The same with the aperture defining gripping tool shank diameter.
- Collet does not have the flexibility contraction range, emphasizing the clamping force.

規格 Spec.	內孔尺寸 d_2	重量 (KGS) Weight
SYOZ-25	3, 4, 5, 6, 7, 8, 9, 10,11, 12, 13, 16,18 ,20, 25mm	0.24

EOC B 型彈性筒夾
EOC COLLET (TYPE B)

DIN-6388
DIN-ISO-10897

精度 Accuracy <0.02mm



- 材質 :SUJ2 - HRC46°
- 收縮彈性為 0.5mm
- 前端及後端均有 6 溝
- 偏擺精度 <0.02mm

※ 可訂購尺寸間隔 0.5mm 或英制規格

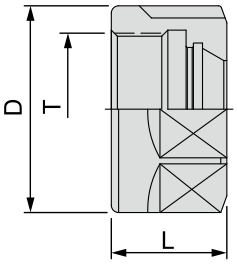
- Steel:SUJ2 - HRC46°
- Increment by 0.5mm.
- With 6 slots in front and back.
- Precision:<0.02mm.
- Can order size Increment by steps 0.5mm or Inch size as desired.

規格 Spec.	L	l_1	D	d_1	內孔尺寸 d_2	重量 (KGS) Weight
EOC32-B	60	17	43.7	41.3	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 2122, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32mm	0.5

• 長度單位 Unit of Length (mm)

ER 包固得威力鍍層螺帽
POWER GOOD CLAMPING NUT

DIN 6499 DIN-ISO-15488



- 材質 : SNCM-415
- 硬度 HRC52°
- 螺紋及 30°斜度一次成型加工，確保精度、螺紋公差為一級牙 4H
- 使用時，應先將筒夾置入螺帽，再一併置入本體

- Steel:SNCM-415
- Hardness: HRC52°
- The thread and 30° taper are finished processing in one time. The precision and the tolerance are of thread 4H.
- When using, please put the collet into nut and put them into the body together.

特點 Feature

- 已預設平衡、適於 R.P.M10000 使用，專利在案
- 拴緊作業請使用 ER-A 扳手，不可任意改變扳手長度，以免造成人為因素損壞

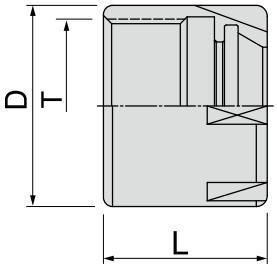
- Pre-balanced. Suitable for 10000rpm. Has a patent.
- Fasten jobs please use ER-A wrench, can not be arbitrarily changed Variable length wrench to avoid damage to human factors.

規格 Spec.	L	D	T	重量 (KGS) Weight
ER11-A	11.3	19	M14-0.75P	0.02
ER16-A	18.5	28	M22-1.5P	0.05
ER20-A	20	34	M25-1.5P	0.10

- 螺帽採標準平衡 G6.3 Nut balanced G6.3 standards adopted.

ER 包固得威力鍍層螺帽
POWER GOOD CLAMPING NUT

DIN 6499 DIN-ISO-15488



- 材質 : SNCM-220
- 硬度 HRC52°
- 螺紋及 30°斜度一次成型加工，確保精度、螺紋公差為一級牙 4H
- 使用時，應先將筒夾置入螺帽，再一併置入本體

- Steel:SNCM-220
- Hardness: HRC52°
- The thread and 30° taper are finished processing in one time. The precision and the tolerance are of thread 4H.
- When using, please put the collet into nut and then put them into the body together.

特點 Feature

- 外徑較標準螺紋小，適於閃避或是避免干涉的場合不使用
- M 型螺帽的螺紋和 A 型不一樣，本體不能共用
- 已預設平衡、適於 R.P.M10000 使用，專利在案

- Many machines' spindles are manufactured by ER-M's size.
- ER-M clamping nut is specially processed for small bore.It's external diammer and thread are smaller than ER-A
- Pre-balanced. Suitable for 10000rpm. Has a patent.

規格 Spec.	L	D	T	重量 (KGS) Weight
ER8-M	10.8	12	M10-0.75P	0.005
ER11-M	11.3	16	M13-0.75P	0.01
ER16-M	18	22	M19-1.0P	0.05
ER20-M	19	28	M24-1.0P	0.05
ER25-M	20	35	M30-1.0P	0.08

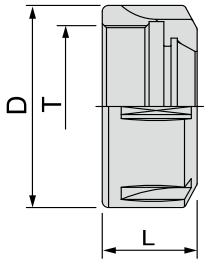
- 螺帽採標準平衡 G6.3 Nut balanced G6.3 standards adopted.

• 長度單位 Unit of Length (mm)

ACCESSORIES

ER 包固得威力鍍層螺帽
POWER GOOD CLAMPING NUT

DIN 6499 DIN-ISO-15488



- 材質 : SNCM-415
- 硬度 HRC52°
- 螺紋及 30°斜度一次成型加工，確保精度、螺紋公差為一級牙 4H
- 使用時，應先將筒夾置入螺帽，再一併置入本體

- Steel:SNCM-415
- Hardness: HRC52°
- The thread and 30° taper are finished processing in one time. The precision and the tolerance are of thread 4H.
- When using, please put the collet into nut, and then put them into the body together.

特點 Feature

- 已預設平衡、適於 R.P.M10000 使用，專利在案

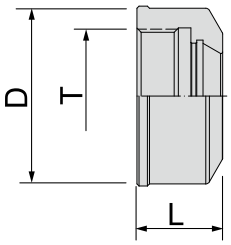
- Pre-balanced. Suitable for 10000rpm. Has a patent.

規格 Spec.	L	D	T	重量 (KGS) Weight
ER16-UM-RD	18	31.7	M22-1.5P	0.05
ER20-UM-RD	19.5	35	M25-1.5P	0.10
ER25-UM-RD	21	42	M32-1.5P	0.11
ER32-UM-RD	23.5	50	M40-1.5P	0.20
ER40-UM-RD	26.5	63	M50-1.5P	0.27
ER50-UM-RD	35.3	78	M64-2.0P	0.50

- 螺帽採標準平衡 G6.3 Nut balanced G6.3 standards adopted.

無風阻螺帽
NON WIND RESISTANCE NUT

DIN-6499
DIN-ISO-15488



特點 Feature

- 經過特殊的表面處理，夾緊力提高了 50%～ 100%
- 無槽設計減少風阻，可用於高速應用

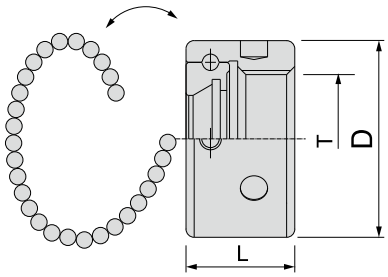
- Due to special surface treatment, clamping power is increased by 50%~100%.
- Its non-slot design decreases wind resistance, and can be used for high speed application.

規格 Spec.	L	D	T	重量 (KGS) Weight
ER16-HS	17.5	30	M22-1.5P	0.05
ER20-HS	19	34	M25-1.5P	0.10
ER25-HS	20	42	M32-1.5P	0.14
ER32-HS	22.5	50	M40-1.5P	0.23

• 長度單位 Unit of Length (mm)

ER 強力精密高速型螺帽
ER HIGH SPEED PRECISION NUT

DIN 6499
DIN-ISO-15488



- ER 高速型螺帽
- 材質 :SNCM-220
- 硬度 HRC52°
- 螺紋公差為一級牙 4H
- 使用時，應先將筒夾置入螺帽，再一併置入本體

- Steel:SNCM-220
- Hardness: HRC52°
- The thread and 30° taper are finished processing in one time. The precision and the tolerance are of thread 4H.
- When using, please put the collet into nut and then put them into the body together.

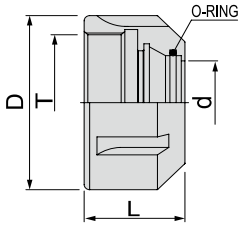
特點 Feature

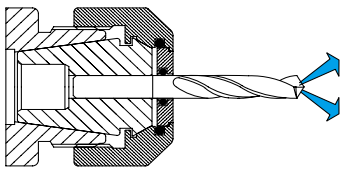
- 使用 ER 標準扳手
- 環型彈簧無偏心設計，收縮夾持量不可大於 0.3mm
- 外徑經過精密研磨，減少不少平衡量
- 根據 ISO 1941-1 標準，並經過平衡檢驗機測試
- 可供 G2.5 15,000 rpm 機器使用
- 配合 UP 級筒夾、精度以及穩定性大增
- 專利在案

- Use the ER standard spanner.
- The ring spring is non-eccentric design, shrink clamping is within 0.3mm.
- The external diameter is treated with precise grind reaches balancing.
- According to ISO1941-1 standard. Tested by balancing machine.
- The balancing is under G2.5. Can be used on the machine of G2.5 15000rpm.
- Match UP grade collet, increased of precision and stability.
- Has a patent.

規格 Spec.	L	D	T	重量 (KGS) Weight
ER16-HSP	18	32	M22-1.5P	0.008
ER20-HSP	20	36	M25-1.5P	0.10
ER25-HSP	22.5	42	M32-1.5P	0.10
ER32-HSP	25	50	M40-1.5P	0.15
ER40-HSP	27.5	63	M50-1.5P	0.27

ER 止水包固得威力鍍層螺帽
ER SEALED NUT

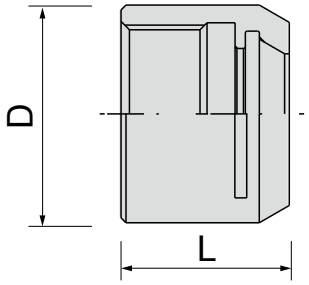




規格 Spec.	L	D	d	T	重量 (KGS) Weight
ER16-CO	22.5	28	11	M22-1.5P	-
ER20-CO	24	34	14	M25-1.5P	-
ER25-CO	25	42	19	M32-.5P	-
ER32-CO	27.5	50	24	M40-1.5P	-
ER40-CO	30.5	63	30	M50-1.5P	-

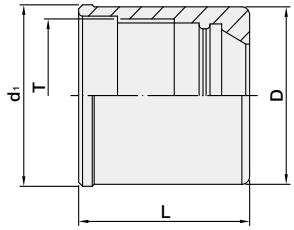
• 長度單位 Unit of Length (mm)

ER-MHG 螺帽
ER-MHG COLLET CHUCK NUT



規格 Spec.	L	D	重量 (KGS) Weight
ER16-MHG	17	22	-
ER20-MHG	19	28	0.04
ER25-MHG	23	35	-

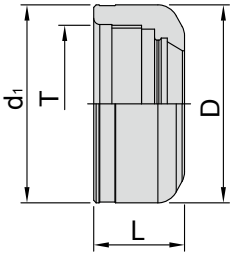
PTER 螺帽
PTER NUT



NEW

規格 Spec.	L	D	d_1	T	扭力值 Torque		重量 (KGS) Weight
					N.m	ft-lbs	
PTER8-P	13.5	12	12.5	M10-0.75P	3.5	2.5	0.004
PTER11-P	19	16	16.5	M13-0.75P	20	14	0.012
PTER16-P	22	22	22.5	M19-1.0P	30	22	0.022
PTER20-P	24	28	28.5	M24-1.0P	50	36	0.042

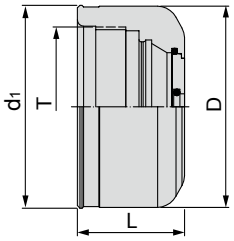
PNER 螺帽
PNER NUT



規格 Spec.	L	D	d_1	T	扭力值 Torque		重量 (KGS) Weight
					N.m	ft-lbs	
PNER16-P	23	30	30.5	M22-1.5P	40	30	0.03
PNER20-P	24	32	32.5	M25-1.5P	60	44	0.04
PNER25-P	24	40	40.5	M32-1.5P	80	59	0.06
PNER32-P	27	50	50.5	M40-1.5P	110	81	0.10
PNER40-P	30	63	63.5	M50-1.5P	130	95	0.25

• 長度單位 Unit of Length (mm)

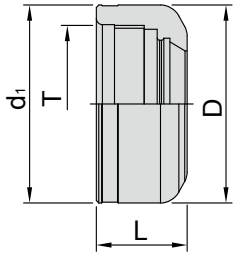
PNER 止水螺帽
PNER SEALED NUT



規格 Spec.	L	D	d_1	T	止水環 Sealed Ring	扭力值 Torque		重量 (KGS) Weight
						N.m	ft-lbs	
PNER16-CO	27	30	30.5	M22-1.5P	SR16	40	30	0.08
PNER20-CO	29	32	32.5	M25-1.5P	SR20	60	44	0.08
PNER25-CO	29	40	40.5	M32-1.5P	SR25	80	59	0.14
PNER32-CO	32	50	50.5	M40-1.5P	SR32	110	81	0.22
PNER40-CO	35	63	63.5	M50-1.5P	SR40	130	95	0.40

※ 需搭配止水環使用 Should be used with Coolant rings.

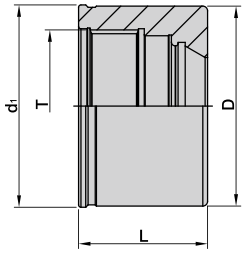
PNER 偏心螺帽
PNER ECCENTRIC NUT



NEW

規格 Spec.	L	D	d_1	T	扭力值 Torque		重量 (KGS) Weight
					N.m	ft-lbs	
PNER16-A	22	30	30.5	M22-1.5P	40	30	0.03
PNER20-A	24	32	32.5	M25-1.5P	60	44	0.04
PNER25-A	24	40	40.5	M32-1.5P	80	59	0.06
PNER32-A	27	50	50.5	M40-1.5P	110	81	0.10
PNER40-A	30	63	63.5	M50-1.5P	130	95	0.25

Pro.E 螺帽
Pro.E NUT

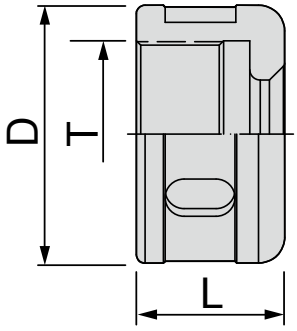


NEW

規格 Spec.	L	D	d_1	T	建議扭力值 Recommended Tightening Torque	重量 (KGS) Weight
Pro.E16-A	22	30	30.3	M22-1.5P	65 N-m	0.10
Pro.E20-A	23.5	35	35.3	M27-1.5P	80 N-m	0.10
Pro.E25-A	24.6	42	42.7	M32-1.5P	140 N-m	0.16
Pro.E32-A	27	50	50.7	M40-1.5P	170 N-m	0.16

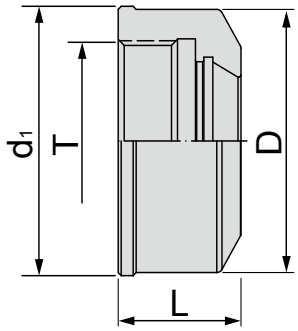
• 長度單位 Unit of Length (mm)

SKS 高速機專用螺帽
SKS CLAMPING NUT



規格 Spec.	L	D	T	扭力值 Torque		重量 (KGS) Weight
				N.m	ft-lbs	
SKS6-P	15	18	M14-1.0P	25	18	0.06
SKS10-P	17	30	M21.5-1.0P	45	33	0.04
SKS13-P	21	33	M27-1.0P	50	36	0.06
SKS16-P	24.5	40	M32-1.5P	70	51	0.12
SKS20-P	24	48.5	M40-1.0P	70	51	0.14
SKS25-P	30.5	55	M45-1.5P	100	73	1.00

SKS 高速機專用無風阻螺帽
SKS NON WIND RESISTANCE NUT

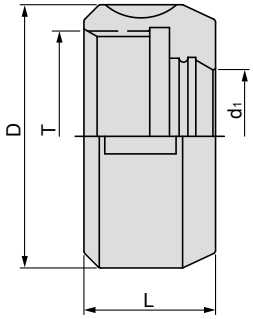


規格 Spec.	L	D	d_1	T	扭力值 Torque		重量 (KGS) Weight
					N.m	ft-lbs	
SKS-6-HS-P	15	18	19	M14-1.0P	25	18	0.02
SKS-10-HS-P	17	30	31	M21.5-1.0P	45	33	0.06
SKS-13-HS-P	21	34	35	M27-1.0P	50	36	0.07
SKS-16-HS-P	24.5	40	41	M32-1.5P	70	51	0.12
SKS-20-HS-P	24	48	48.5	M40-1.0P	70	51	0.14
SKS-25-HS-P	30.5	55	56	M45-1.5P	100	73	0.23

• 長度單位 Unit of Length (mm)

EOC 包固得威力鍍層栓緊螺帽
CLAMPING NUT

DIN 6388
DIN-ISO-10897



規格 Spec.	L	D	d_1	T	扭力值 Torque		重量 (KGS) Weight
					N.m	ft-lbs	
EOC25-P	30.0	60	29.7	M48-2.0P	200	147	0.30
EOC32-P	33.5	72	38.5	M60-2.5P	220	220	0.45

MLD 止水端蓋
MLD SEALED CAP

Fig.1

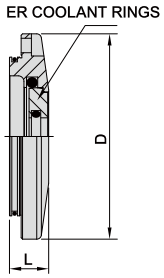
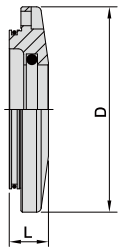


Fig.2



特點 Feature

- 適合用於有中心出水的刀具
- 使用 MLD 止水環可使冷卻液從刀具排出，利於散熱及有效排屑

-Suitable for cutting tools with a coolant hole.
-Coolant fluid exhausting from the cutting tool if used with MLD sealed cap. It's good for heat dissipation and discharges the metal chips effectively.

規格 Spec.	夾持範圍 Size Range	L	D	Fig.	重量 (KGS) Weight
MLD12-C	Ø3~Ø8	8.9	38.2	1	0.04
	Ø12	8.9	38.2	2	
MLD16-C	Ø3~Ø12	8.9	42.2	1	0.04
	Ø16	8.9	42.2	2	
MLD20-C	Ø3~Ø16	8.9	44	1	0.06
	Ø20	8.9	44	2	
MLD25-C	Ø3~Ø20	10.4	51	1	0.90
	Ø25	10.4	51	2	
MLD32-C	Ø3~Ø25	11.05	60	1	0.12
	Ø32	11.05	60	2	
MLD42-C	Ø3~Ø25	12.02	70	1	0.20
	Ø42	12.02	70	2	

• 長度單位 Unit of Length (mm)

SR 止水環
SR COOLANT RING

特點 Feature

- 可承受水壓達 21kgf/cm²
- 兼具阻隔切屑飛入的功用
- 止水環搭配止水螺帽使用，等同止水筒夾

- Can bear the water pressure up to 21kgf/cm².
- Can avoid the chips.
- When the coolant ring is matched with the coolant nut, the function is the same as coolant collet.

SR16

規格 Spec.	夾持範圍 Range	規格 Spec.	夾持範圍 Range	重量 (KGS) Weight
SR16-03.5	3.5	SR16-07.0	7.0	0.05
SR16-04.0	4.0	SR16-07.5	7.5	0.05
SR16-04.5	4.5	SR16-08.0	8.0	0.05
SR16-05.0	5.0	SR16-08.5	8.5	0.05
SR16-05.5	5.5	SR16-09.0	9.0	0.05
SR16-06.0	6.0	SR16-09.5	9.5	0.05
SR16-06.5	6.5	SR16-10.0	10.0	0.05

SR20

規格 Spec.	夾持範圍 Range	規格 Spec.	夾持範圍 Range	重量 (KGS) Weight
SR20-03.5	3.5	SR20-08.5	8.5	0.07
SR20-04.0	4.0	SR20-09.0	9.0	0.07
SR20-04.5	4.5	SR20-09.5	9.5	0.07
SR20-05.0	5.0	SR20-10.0	10.0	0.07
SR20-05.5	5.5	SR20-10.5	10.5	0.07
SR20-06.0	6.0	SR20-11.0	11.0	0.07
SR20-06.5	6.5	SR20-11.5	11.5	0.07
SR20-07.0	7.0	SR20-12.0	12.0	0.07
SR20-07.5	7.5	SR20-12.5	12.5	0.07
SR20-08.0	8.0	SR20-13.0	13.0	0.07

SR25

規格 Spec.	夾持範圍 Range	規格 Spec.	夾持範圍 Range	重量 (KGS) Weight
SR25-03.5	3.5	SR25-10.0	10.0	0.10
SR25-04.0	4.0	SR25-10.5	10.5	0.10
SR25-04.5	4.5	SR25-11.0	11.0	0.10
SR25-05.0	5.0	SR25-11.5	11.5	0.10
SR25-05.5	5.5	SR25-12.0	12.0	0.10
SR25-06.0	6.0	SR25-12.5	12.5	0.10
SR25-06.5	6.5	SR25-13.0	13.0	0.10
SR25-07.0	7.0	SR25-13.5	13.5	0.10
SR25-07.5	7.5	SR25-14.0	14.0	0.10
SR25-08.0	8.0	SR25-14.5	14.5	0.10
SR25-08.5	8.5	SR25-15.0	15.0	0.10
SR25-09.0	9.0	SR25-15.5	15.5	0.10
SR25-09.5	9.5	SR25-16.0	16.0	0.10

SR32

規格 Spec.	夾持範圍 Range	規格 Spec.	夾持範圍 Range	重量 (KGS) Weight
SR32-03.5	3.5	SR32-12.0	12.0	0.15
SR32-04.0	4.0	SR32-12.5	12.5	0.15
SR32-04.5	4.5	SR32-13.0	13.0	0.15
SR32-05.0	5.0	SR32-13.5	13.5	0.15
SR32-05.5	5.5	SR32-14.0	14.0	0.15
SR32-06.0	6.0	SR32-14.5	14.5	0.15
SR32-06.5	6.5	SR32-15.0	15.0	0.15
SR32-07.0	7.0	SR32-15.5	15.5	0.15
SR32-07.5	7.5	SR32-16.0	16.0	0.15
SR32-08.0	8.0	SR32-16.5	16.5	0.15
SR32-08.5	8.5	SR32-17.0	17.0	0.15
SR32-09.0	9.0	SR32-17.5	17.5	0.15
SR32-09.5	9.5	SR32-18.0	18.0	0.15
SR32-10.0	10.0	SR32-18.5	18.5	0.15
SR32-10.5	10.5	SR32-19.0	19.0	0.15
SR32-11.0	11.0	SR32-19.5	19.5	0.15
SR32-11.5	11.5	SR32-20.0	20.0	0.15

SR40

規格 Spec.	夾持範圍 Range	規格 Spec.	夾持範圍 Range	規格 Spec.	夾持範圍 Range	規格 Spec.	夾持範圍 Range	重量 (KGS) Weight
SR40-03.5	3.5	SR40-09.5	9.5	SR40-15.5	15.5	SR40-21.5	21.5	0.27
SR40-04.0	4.0	SR40-10.0	10.0	SR40-16.0	16.0	SR40-22.0	22.0	0.27
SR40-04.5	4.5	SR40-10.5	10.5	SR40-16.5	16.5	SR40-22.5	22.5	0.27
SR40-05.0	5.0	SR40-11.0	11.0	SR40-17.0	17.0	SR40-23.0	23.0	0.27
SR40-05.5	5.5	SR40-11.5	11.5	SR40-17.5	17.5	SR40-23.5	23.5	0.27
SR40-06.0	6.0	SR40-12.0	12.0	SR40-18.0	18.0	SR40-24.0	24.0	0.27
SR40-06.5	6.5	SR40-12.5	12.5	SR40-18.5	18.5	SR40-24.5	24.5	0.27
SR40-07.0	7.0	SR40-13.0	13.0	SR40-19.0	19.0	SR40-25.0	25.0	0.27
SR40-07.5	7.5	SR40-13.5	13.5	SR40-19.5	19.5	SR40-25.5	25.5	0.27
SR40-08.0	8.0	SR40-14.0	14.0	SR40-20.0	20.0	SR40-26.0	26.0	0.27
SR40-08.5	8.5	SR40-14.5	14.5	SR40-20.5	20.5			
SR40-09.0	9.0	SR40-15.0	15.0	SR40-21.0	21.0			

• 長度單位 Unit of Length (mm)

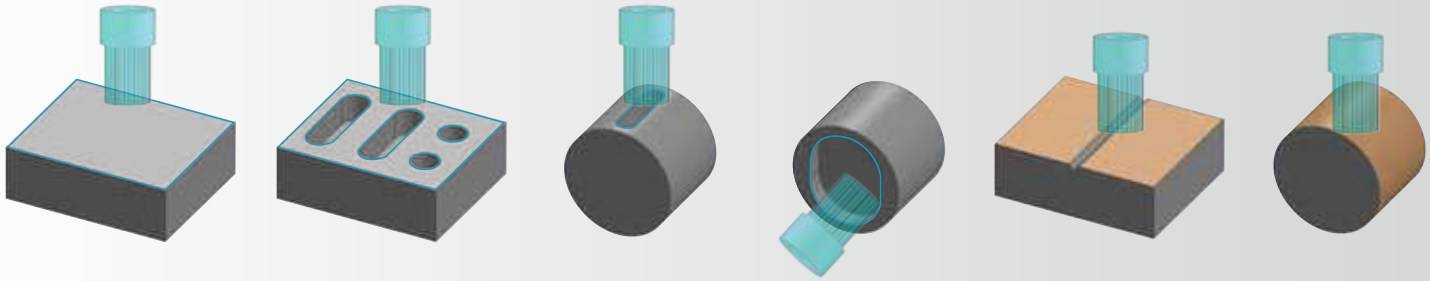
CHAIN HEADWAY

DMB 鑽石研磨刷 DIAMOND BRUSH

去除切削刀痕 Remove the machining tool marks

表面抛光 Polishing

去除毛刺 Deburring



研磨刷應用Application

功能 Function	去毛刺 Deburring				表面精修(抛光) Polishing		
毛刷材質 Bristles type	碳化矽 (SiC)	陶瓷 Ceramic Bristle (CE)	氧化鋁 (Al_2O_3)	鑽石 Diamond (ND)	陶瓷 Ceramic Bristle (CE)	氧化鋁 (Al_2O_3)	鑽石 Diamond (ND)
可加工材質 Machining Materials	鋼材、不鏽鋼 鋁、非鐵金屬 Steel Stainless Steel Aluminu Non-Ferrous Metal	鋼材、鑄鐵 不鏽鋼 Steel Stainless steel Cast Iron	鋼材 非鐵合金 Steel Non-Ferrous Metal	陶瓷、碳化鎢 有色金屬 Ceramic WC Non-Ferrous Metal	鋼材、鑄鐵 不鏽鋼 Steel Stainless steel Cast Iron	鋼材 非鐵合金 Steel Non-Ferrous Metal	陶瓷、碳化鎢 有色金屬 Ceramic WC Non-Ferrous Metal

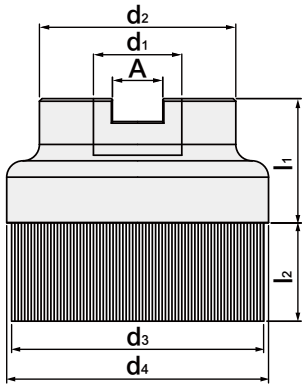
粒度 Granularity	#200	#400	#800	#1000

搭配使用標準FMB/FMA平面銑刀柄。
It is compatible with standard FMB / FMA face mill arbors.

適合加工材質: 鋁、銅、金屬、鎳基合金、鎢鋼(超硬合金)、硬脆材料
例：刀具鈍化、玻璃陶瓷、石英等表面抛光。
例：鎳基合金(航太業)、所有熱處理後之金屬。

Workpiece material: aluminum, copper, metal, nickel alloy, tungsten steel, hard and brittle material.
e.g. honing, glass or ceramics polishing, quartz polishing
e.g. nickel alloys (Aerospace industry), heat-treated metals

DMB 鑽石研磨刷
DIAMOND BRUSH



NEW

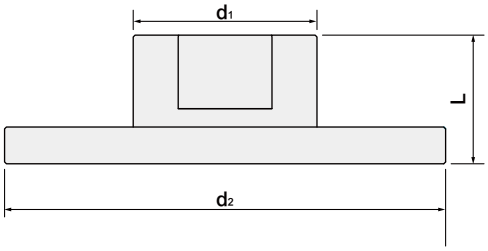
特點 Feature

- 依據不同需求選擇不同粒度研磨刷
  粒度 : #200、#400、#600、#800、#1000

- Choose different grit abrasive brushes according to different needs
  Granularity: #200, #400, #600, #800, #1000

規格 Spec.	d_1	d_2	d_3	d_4	l_1	l_2	A
DMB50-22	FMB-22	50	47	50	30	30	10.4
DMB63-22	FMB-22	48	60	63	30	30	10.4
DMB80-27	FMB-27	60	77	80	38	30	12.4
DMB100-32	FMB-32	80	97	100	40	30	14.4
DMB50-25.4	FMA-25.4	50	47	50	30	30	9.5
DMB63-25.4	FMA-25.4	50	60	63	30	30	9.5
DMB80-31.75	FMA-31.75	60	77	80	38	30	12.7
DMB100-31.75	FMA-31.75	80	97	100	40	30	12.7

DDB 鑽石整修板
DDB DIAMOND DRESSING BOARD



NEW

特點 Feature

- 加工後的毛刷若受損或磨耗，可用鑽石整修板，去除磨損毛刷，即可接續使用。

- We can use the diamond refurbish board to remove the damaged brush after machining.

規格 Spec.	L	d_1	d_2	重量 (KGS) Weight
DDB120	35	50	120	0.54

範例 Example

- 修砂時建議將研磨刷設定轉速 S=2000rpm 切深 AP=0.5mm 將研磨刷整平停留秒數 30 秒

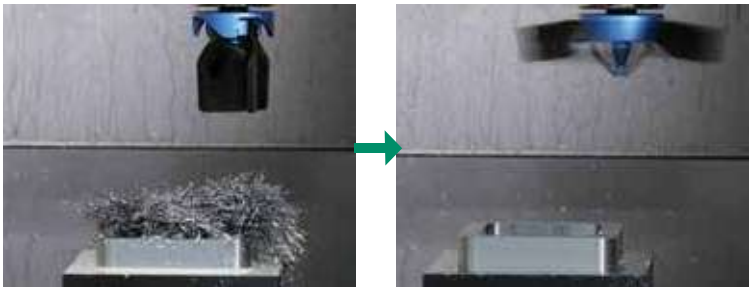
-While repairing diamond brush, recommend setting: rotation speed S=2000rpm, depth of cut AP=0.5mm. Remember not to move the brush, finish setting the data and just hold on for 30 seconds.

• 長度單位 Unit of Length (mm)

PIS 鐵屑清除器
PIS CHIP BLOWER

範例 Example

NEW



使用前 Before　　使用後 After

特點 Feature

鐵屑清除器作動原理是利用機械主軸迴轉帶動扇葉展開，產生強力氣流，配合適當的路徑，對工作台上的切屑與切削液進行清除，相較傳統的氣槍清理方式，降低人員操作，環境的汙損，提高生產效能。

The operating principle of the chip blower is to use the rotation of mechanical spindle to drive the fan blades to expand, generate a strong air flow, and cooperate with the appropriate path to remove the chips and cutting fluid on the machine platform. Compared with the traditional air gun cleaning method, it reduces the operation from personnel and environmental pollution and also improve production efficiency.

規格 Spec.	????? Recommend Rotation Speed	??? Directionof Rotation	??????? Opening Size of Fan Blade	???? ????? Distance to Workpieces Surface	建議路徑移動速度 Recommend Movement Feed	夾持柄徑 Shank Diameter	重量 (KGS) Weight
PIS-200	Min 7,000~ Max 10,000 r.p.m	??? Clockwise Rotation	?195mm	100~150mm	1,000~12,000	16mm	0.12kg

注意事項 Notice

- 起動轉速 500R.P.M 後提高至 2,000R.P.M，扇葉展開後再提高至轉速 7,000~10,000R.P.M。

7,000~10,000R.P.M。
Startup spindle speed: From 500R.P.M to 2,000R.P.M. Then, increased the speed (7,000R.P.M.~10,000R.P.M.) after the fan blades are deployed.

- 使用時，因扇葉展開高度與直徑的變化，須距離工件至少 100MM，並避免夾治具干涉。

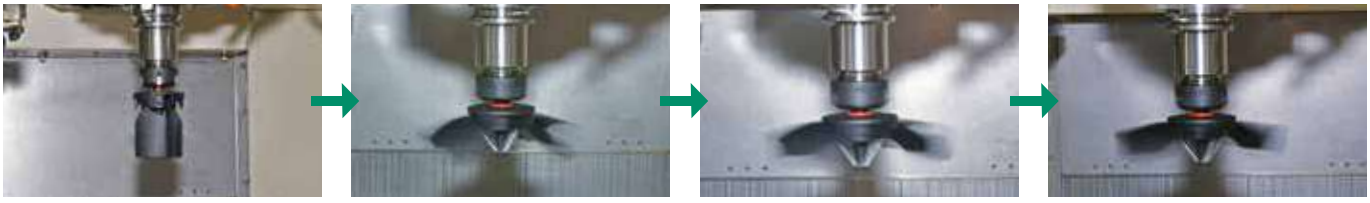
Due to the changes in the unfolded height and diameter of the fan blades, the distance from the surface of workpieces must be at least 100mm to avoid the interference from fixture.

- 使用時避免切屑與切削液飛濺，機台設備需完全緊閉，且鐵屑清除器須處於完全靜止的狀態下才能重新開啟。

Avoid splashing of chips and cutting fluid during use. The machine door must be completely closed. Before attempting to reopen the chip blower, it must be fully stationary first.

- 本產品扇葉為耗材，多次的開合使用或不正常適用造成碰撞，均會造成扇葉的損耗，如發現缺損時，則不能繼續使用，避免扇葉斷裂造成損失。

Fan blades of chip blower are consumable. Collisions caused by multiple opening and closing or abnormal application will cause the loss of the fan blade. If a defect is found, it cannot be used continuously to avoid damage.

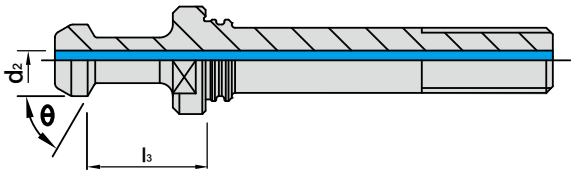


500rpm　2000rpm　4000rpm　7000rpm

AID

• 長度單位 Unit of Length (mm)

BT30/SFS 螺栓拉頭
BT30/SFS PULL STUD



規格 Spec.	l_3	d_2	θ	重量 (KGS) Weight
BT30-45°-MAS	18	3	45°	0.10
BT30-60°-MAS	18	3	60°	0.30

JIS6339 螺栓拉頭
JIS6339 PULL STUD

NEW

Fig.1

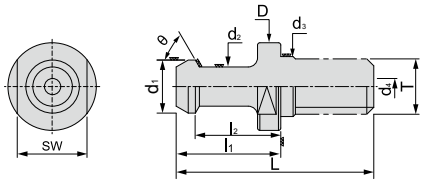
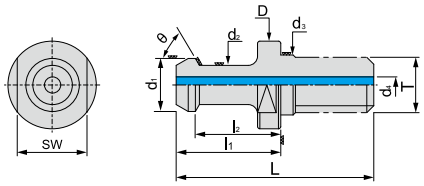


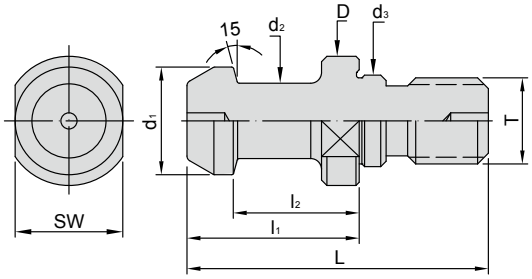
Fig.2



規格 Spec.	L	l_1	l_2	D	d_1	d_2	d_3	d_4	SW	T	θ	Fig
JIS6339-BT30-G	43	23.4	18.4	16.5	12	8	12.5	-	13	M12-1.75	75°	1
JIS6339-BT40-G	54	29	23	23	19	14	17	-	19	M16-2.0	75°	1
JIS6339-BT50-G	74	34	25	38	28	21	25	-	30	M24-3.0	75°	1
JIS6339-BT30-HG	43	23.4	18.4	16.5	12	8	12.5	4	13	M12-1.75	75°	2
JIS6339-BT40-HG	54	29	23	23	19	14	17	7	19	M16-2.0	75°	2
JIS6339-BT50-HG	74	34	25	38	28	21	25	10	30	M24-3.0	75°	2

• 長度單位 Unit of Length (mm)

ISO 螺栓拉頭
ISO PULL STUD



規格 Spec.	L	l_1	l_2	D	d_1	d_2	d_3	SW	T	重量 (KGS) Weight
ISO20-15°	26	12	9	12	9	6	8.5	10	M8	0.10
ISO25-15°	28	16	11.7	12	10	7	8.5	10	M8	0.10
ISO25-45°	31	18	13.5	12	10	7	9	10	M8	0.10
ISO30-45°	45	24	19	17	12.8	9	13	14	M12	0.30

BT-HS 研磨螺栓拉頭
BT-HS HIGH STRENGTH PULL STUD

Fig.1

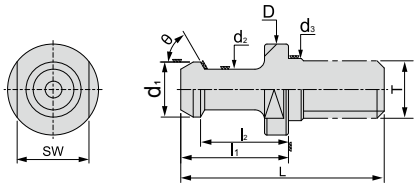
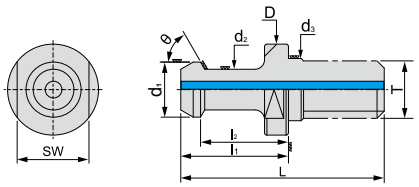


Fig.2



特點 Feature

- HS 系列硬度可達到 HRC60°
- 外徑研磨加工以兩頂心孔做研磨牙級的中心點，減少累計公差，減少偏擺

- HS series degree of hardness may achieve HEC60°.
- Grinding the external thread by using the support of two live centers to reduce the accumulated tolerance and runout.

規格 Spec.	L	l_1	l_2	D	d_1	d_2	d_3	SW	T	θ	Fig.	重量 (KGS) Weight
BT30-45°-HS	43	23	18	16.5	11	7	12.5	13	M12-1.75P	45°	1	0.03
BT30-60°-HS	43	23	18	16.5	11	7	12.5	13	M12-1.75P	60°	1	0.03
BT40-45°-HS	60	35	28	23	15	10	17	19	M16-2.0P	45°	1	0.08
BT40-45°-HS-W	60	35	28	23	15	10	17	19	M16-2.0P	45°	2	0.08

• 長度單位 Unit of Length (mm)

BT 研磨螺栓拉頭
BT HIGH STRENGTH PULL STUD

Fig.1

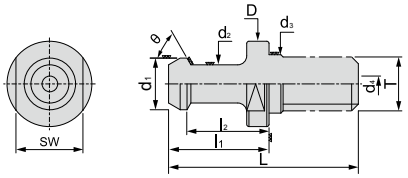
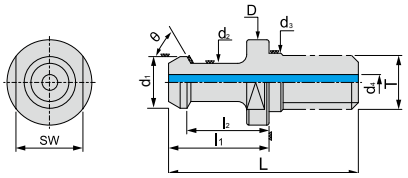


Fig.2



特點 Feature

- 外徑研磨加工以兩頂心孔做研磨牙級的中心點，減少累計公差，減少偏擺

- Grinding the external thread by using the support of two live centers to reduce the accumulated tolerance and runout.

規格 Spec.	L	l_1	l_2	D	d_1	d_2	d_3	d_4	SW	T	Fig.	θ	重量 (KGS) Weight
BT30-45°-G	43	23	18	16.5	11	7	12.5	-	13	M12-1.75P	1	45°	0.05
BT30-60°-G	43	23	18	16.5	11	7	12.5	-	13	M12-1.75P	1	60°	0.05
BT30-90°-G	43	23	18	16.5	11	7	12.5	-	13	M12-1.75P	1	90°	0.05
BT40-45°-G	60	35	28	23	15	10	17	-	19	M16-2.0P	1	45°	0.10
BT40-60°-G	60	35	28	23	15	10	17	-	19	M16-2.0P	1	60°	0.10
BT40-90°-G	60	35	28	23	15	10	17	-	19	M16-2.0P	1	90°	0.10
BT50-45°-G	85	45	35	38	23	17	25	-	30	M24-3.0P	1	45°	0.28
BT50-60°-G	85	45	35	38	23	17	25	-	30	M24-3.0P	1	60°	0.28
BT50-90°-G	85	45	35	38	23	17	25	-	30	M24-3.0P	1	90°	0.27
BT30-45°-HG (2x3)	43	23	18	16.5	11	7	12.5	2x3	13	M12-1.75P	2	45°	0.03
BT30-60°-HG (2x3)	43	23	18	16.5	11	7	12.5	2x3	13	M12-1.75P	2	60°	0.03
BT40-45°-HG (4)	60	35	28	23	15	10	17	4	19	M16-2.0P	2	45°	0.07
BT40-60°-HG (4)	60	35	28	23	15	10	17	4	19	M16-2.0P	2	60°	0.07
BT40-90°-HG (4)	60	35	28	23	15	10	17	4	19	M16-2.0P	2	90°	0.07
BT40-45°-HG (5)	60	35	28	23	15	10	17	5	19	M16-2.0P	2	45°	0.07
BT40-60°-HG (5)	60	35	28	23	15	10	17	5	19	M16-2.0P	2	60°	0.07
BT50-45°-HG (7)	85	45	35	38	23	17	25	7	30	M24-3.0P	2	45°	0.25
BT50-60°-HG (7)	85	45	35	38	23	17	25	7	30	M24-3.0P	2	60°	0.25
BT50-90°-HG (7)	85	45	35	38	23	17	25	7	30	M24-3.0P	2	90°	0.25
■ BT50-45°	85	45	35	38	23	17	25	-	30	M24-3.0P	1	45°	0.30
■ BT50-60°	85	45	35	38	23	17	25	-	30	M24-3.0P	1	60°	0.30
■ BT50-90°	85	45	35	38	23	17	25	-	30	M24-3.0P	1	90°	0.30

■ 無研磨 Grind

- 中心給水規格 (4)&(7) 可以通過 3mm&6mm 六角扳手
- Center coolant specification (4) & (7) can use with the hex wrench 3mm & 6mm

• 長度單位 Unit of Length (mm)

DAT 研磨螺栓拉頭
DAT HIGH STRENGTH PULL STUD

Fig.1

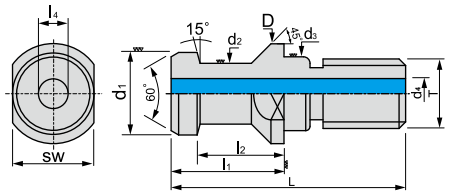
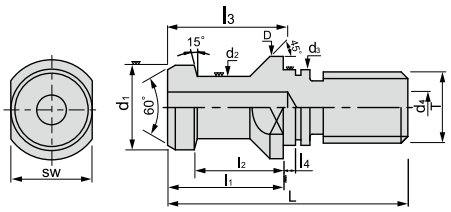


Fig.2



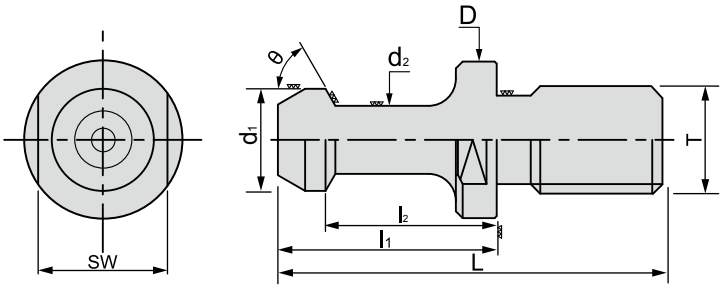
特點 Feature

- 外徑研磨加工以兩頂心孔做研磨牙級的中心點，減少累計公差，減少偏擺

- Grinding the external thread by using the support of two live centers to reduce the accumulated tolerance and runout.

規格 Spec.	L	l_1	l_2	l_3	l_4	D	d_1	d_2	d_3	d_4	SW	T	Fig.	重量 (KGS) Weight
DAT30-A-G	44	24	19	-	-	17	13	9	13	-	14	M12-1.75P	1	0.04
DAT30-B-G	44	24	19	-	-	17	13	9	13	-	14	M12-1.75P	2	0.04
DAT40-A-G	54	26	20	-	-	23	19	14	17	7	19	M16-2.0P	1	0.07
DAT40-A-L-G	54	29	23	-	-	23	19	14	17	7	19	M16-2.0P	1	0.07
DAT40-B-G	54	26	20	27	3	23	19	14	17	7	19	M16-2.0P	2	0.08
DAT40-B-L-G	54	29	23	-	-	23	19	14	17	7	19	M16-2.0P	2	0.08
DAT50-A-G	74	34	25	-	-	36	28	21	25	11.5	30	M24-3.0P	1	0.25
DAT50-B-G	74	34	25	-	-	36	28	21	25	11.5	30	M24-3.0P	2	0.25

CAT 研磨螺栓拉頭
CAT HIGH STRENGTH PULL STUD



特點 Feature

- 外徑研磨加工以兩頂心孔做研磨牙級的中心點，減少累計公差，減少偏擺

- Grinding the external thread by using the support of two live centers to reduce the accumulated tolerance and runout.

規格 Spec.	L	l_1	l_2	D	d_1	d_2	SW	T	θ	重量 (KGS) Weight
CAT40-45°-G	57.15	32.15	25.15	23	15	10	19	5/8"W11	45°	0.07
CAT40-60°-G	57.15	32.15	25.15	23	15	10	19	5/8"W11	60°	0.07
CAT40-90°-G	57.15	32.15	25.15	23	15	10	19	5/8"W11	90°	0.07

• 長度單位 Unit of Length (mm)

ISO 研磨螺栓拉頭
ISO HIGH STRENGTH PULL STUD

Fig.1

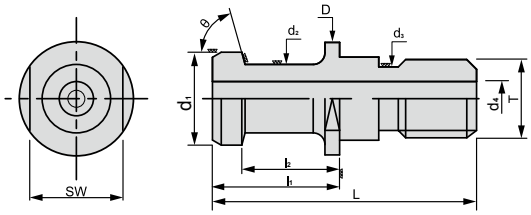
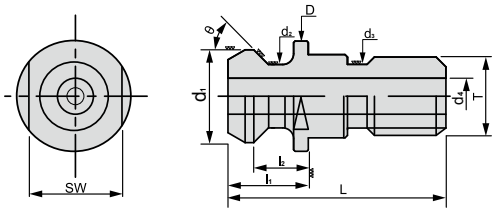


Fig.2



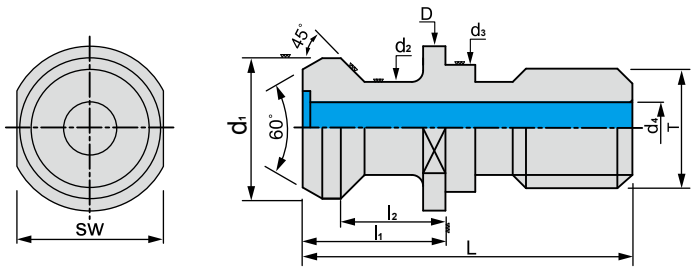
特點 Feature

- 外徑研磨加工以兩頂心孔做研磨牙級的中心點，減少累計公差，減少偏擺

- Grinding the external thread by using the support of two live centers to reduce the accumulated tolerance and runout.

規格 Spec.	L	l_1	l_2	D	d_1	d_2	d_3	d_4	SW	T	Fig.	重量 (KGS) Weight
ISO40-A-G	54	26	20	23	19	14	17	7	19	M16-2.0P	1	0.07
ISO40-B-G	44.5	16.4	11.15	22.5	18.95	12.95	17	7.35	19	M16-2.0P	2	0.05
ISO50-A-G	74	34	25	36	28	21	25	11.5	30	M24-3.0P	1	0.20
ISO50-B-G	65.5	25.5	17.95	37	29.1	19.6	25	11.55	30	M24-3.0P	2	0.08

MAZAK 研磨螺栓拉頭
MAZAK HIGH STRENGTH PULL STUD



特點 Feature

- 外徑研磨加工以兩頂心孔做研磨牙級的中心點，減少累計公差，減少偏擺

- The outer diameter abrasive machining does by two intelligences grinds does a lot of talking the level central poin, reduces the accumulation common difference, reduction beats.

規格 Spec.	L	l_1	l_2	D	d_1	d_2	d_3	d_4	SW	T	重量 (KGS) Weight
MAZAK-BT40-G	44.1	19.1	14	22	18.8	12.45	17	7	19	M16-2.0P	0.05
MAZAK-BT50-G	65.2	25.2	17.58	37	28.95	20.83	25	10	30	M24-3.0P	0.19
MAZAK-CAT40-G	41.1	16.1	11	22	18.8	12.45	17	7	19	M16-2.0P	0.05

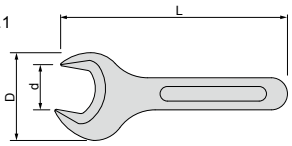
• 長度單位 Unit of Length (mm)

ER 扳手
ER WRENCH

DIN-6499
DIN-ISO-15488

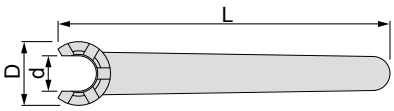
A 型

Fig.1



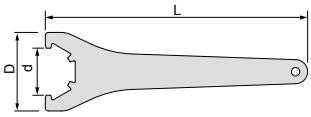
M 型

Fig.2



UM/RD 及 KM/RD

Fig.3



特點 Feature

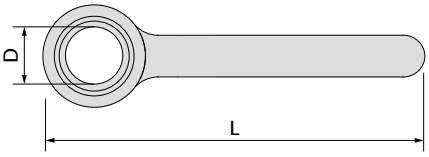
- 材質 SCM-4 鉗口經過熱處理

- Steel:SCM-4

規格 Spec.	螺帽外徑 Nut Dia	L	D	d	重量 (KGS) Weight
ER11-A-W	19	120	40	17	0.10
ER16-A-W	28	140	53	25	0.15
ER20-A-W	34	160	60	30	0.20
ER8-M-W	12	75	13	8	0.05
ER11-M-W	16	95	17	11.5	0.04
ER16-M-W	22	117	22.5	15	0.06
ER20-M-W	28	129	28.5	19.5	0.07
ER25-M-W	35	143	36	25	0.09
ER25UM/RD-W	42	206	65	37	0.22
ER32UM/RD-W	50	253	75	44	0.30
ER40UM/RD-W	63	289	90	58	0.50
ER50UM/RD-W	78	351	110	74	0.90

軸承扳手
BEARING WRENCH

DIN-6499
DIN-ISO-15488



特點 Feature

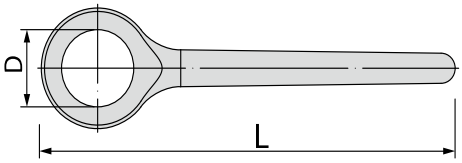
- 適用於 ER-M 無風阻螺帽
- 螺帽鎖緊及開起可達百分之百輕鬆及不易脫落

- Applicable ER-M non wind resistance nut.
- Locking nut and opened up to one hundred percent relaxable and not easy to fall off.

規格 Spec.	適用規格 Applicable Spec.	L	D	重量 (KGS) Weight
RDQ-D12	ER8M	100	12	0.12
RDQ-D16	ER11M、PTER11	110	16	0.12

• 長度單位 Unit of Length (mm)

軸承扳手
BEARING WRENCH



規格 Spec.	適用規格 Applicable Spec.	L	D	重量 (KGS) Weight
RDQ-D18	ER11、SKS6	195	18	0.52
RDQ-D19.5	SK306、SKX6-CO	195	19.5	0.39
RDQ-D27.5	SK310	195	27.5	0.44
RDQ-D28	PTER20	195	28	0.44
RDQ-D30	ER16、ER16-HS-A、PNER16、UTER16、SKX10-CO、SKS10	195	30	0.44
RDQ-D32	PNER20	195	32	0.44
RDQ-D33	SK313	195	33	0.44
RDQ-D34	ER20、SKS13、ER20-HS-A	235	34	0.50
RDQ-D35	UTER20、PTER25	235	35	0.68
RDQ-D40	PNER25、SK316、SKX16-CO、SKS16	235	40	0.68
RDQ-D42	ER25、UTER25、ER25-HS-A	235	42	0.71
RDQ-D48	UTER32、SKX20-CO、SK320、SKS20	235	48	0.73
RDQ-D50	ER32、PNER32、ER32-HS-A	235	50	0.73
RDQ-D55	SKX25-CO、SKS25	235	55	0.91
RDQ-D58	PRO25	250	58	0.73
RDQ-D63	PNER40、PRO32、SK325	250	63	0.94

SKS 扳手
SKS HOOK WRENCH

Fig.1

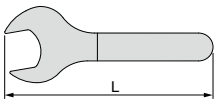
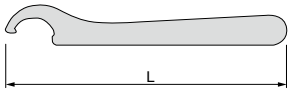
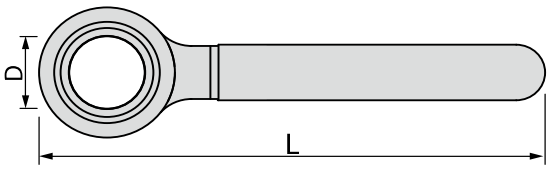


Fig.2



規格 Spec.	適用規格 Applicable Spec.	L	Fig.	重量 (KGS) Weight
SKS6	SKS6	120	1	0.09
SKS10	SKS10	200	2	0.08
SKS13	SKS13	220	2	0.16
SKS16	ER25-HSP-W、MLD-12	220	2	0.20
SKS20	MLD16-W	220	2	0.18
SKS25	SKS25	235	2	0.21

軸承扳手
SBEARING WRENCH



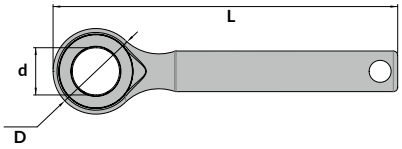
規格 Spec.	適用規格 Applicable Spec.	L	D	重量 (KGS) Weight
RDQ-D18-WH	ER11、SKS6	125	18	0.14
RDQ-D22-WH	ER16M	157	22	0.23
RDQ-D30-WH	ER16、PNER16、UTER16、SKX10-CO、SKS10	160	30	0.37
RDQ-D40-WH	PNER25、SK316、SKX16-CO、SKS16	200	40	0.39
RDQ-D55-WH	SKX25-CO、SKS25	216	55	-

• 長度單位 Unit of Length (mm)

ER-M/WH 軸承扳手
ER-M / WH BEARING WRENCH

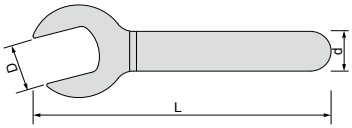
適用於走心式機台，外徑縮小，避免干涉

NEW



規格 Spec.	L	D	d	重量 (KGS) Weight
ER16M-WH	157	39	22	0.34

ISO 刀桿固定專用扳手
WRENCH FOR ISO COLLET CHUCK



規格 Spec.	L	D	d	重量 (KGS) Weight
ISO20-W	140	24.4	17	-
ISO25-W	160	26	22	0.08
ISO30-W	205	31	35	-

ER-MHG 螺帽專用扳手
WRENCH FOR ER-MHG NUT

Fig.1

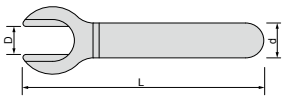
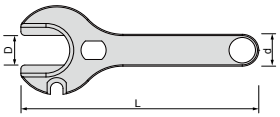


Fig.2



規格 Spec.	L	D	d	Fig.	重量 (KGS) Weight
ER16-MHG-W	127	15	17.8	1	-
ER20-MHG-W	160	19	23.5	1	0.14
ER25-MHG-W	180	24	25	2	0.32

ACCESSORIES

範例 Example

ISO25-W 刀桿固定專用扳手
ISO25-W Collet Chuck Spanner For Fixed

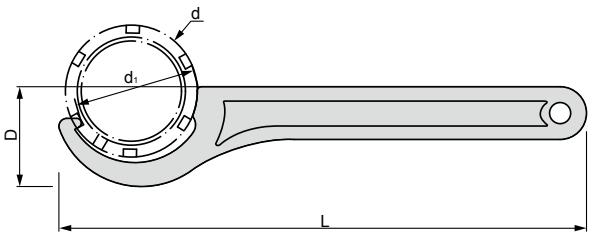
ER20-MHG-W 螺帽專用扳手
ER20-MHG-W Nut Spanner

ISO25 x ER20M-36HG 高速刀把
ISO25 x ER20M-36HG HIGH SPEED COLLET CHUCK

• 長度單位 Unit of Length (mm)

扳手
HOOK WRENCH

DIN-6388
DIN-ISO-10897



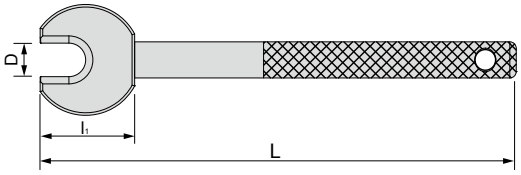
- EOC25 扳手與 MLD25 扳手、MLK25 扳手共用
- EOC32 扳手與 MLC32 扳手共用

- EOC25 and MLD25 MLK25 spanner can be used in common.
- EOC32 and MLC32 MLK32 spanner can be used in common.

規格 Spec.	使用範圍 Range	L	D	d	d_1	重量 (KGS) Weight
EOC-25-W	55~60	260	46	60	52	0.30
EOC-32-W	71~75	272	64	80~90	67	0.45

拉頭專用扳手
WRENCH FOR PULL STUD

範例 Example

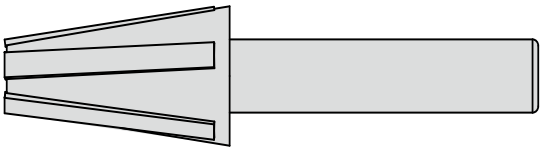


規格 Spec.	L	l_1	D	重量 (KGS) Weight
PS-BT30	140	25	7.5	0.20
PS-BT40	162	35	11	0.36
PS-BT50	190	40	18	0.48
PS-MAZAK-BT40	185	36	13	0.36
PS-MAZAK-BT50	195	41	20.9	0.44

ACCESSORIES

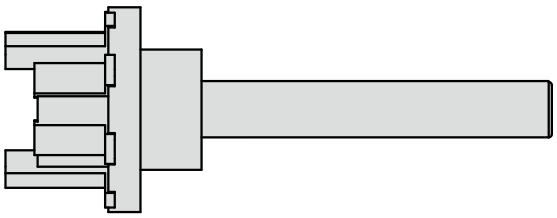
• 長度單位 Unit of Length (mm)

主軸清潔棒
SPINDLE TAPER WIPER



規格 Spec .	斜度 Taper	材質 Material	重量 (KGS) Weight
W30	#30	棉質 **Cotton**	0.07
W40	#40	棉質 **Cotton**	0.08
W50	#50	棉質 **Cotton**	0.19
W30S	#30	羊皮毛 **Fleecy**	0.07
W40S	#40	羊皮毛 **Fleecy**	0.08
W50S	#50	羊皮毛 **Fleecy**	0.19

HSK 主軸清潔棒
HSK SPINDLE TAPER WIPER



規格 Spec.	斜度 Rake	重量 (KGS) Weight
HSK40E	HSK40	0.08
HSK50A	HSK50	0.08
HSK63A	HSK63	0.10
HSK100A	HSK100	0.50

• 長度單位 Unit of Length (mm)

BT/CAT/DAT/HSK 鎖刀座
BT/CAT/DAT/HSK TOOL HOLDER TIGHTENING FIXTURE

Fig1

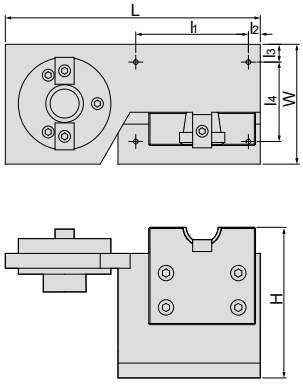
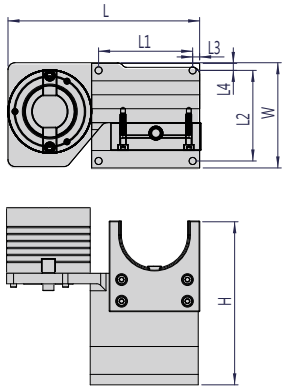


Fig2

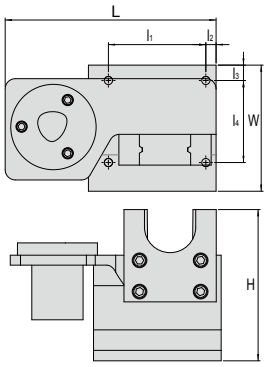


- 不可敲擊 - Don't use hammer.

規格 Spec.	L	l_1	l_2	l_3	l_4	H	W	Fig	重量 (KGS) Weight
LD-BT30	210	95	10	15	67	130	100	1	4.47
LD-BT40	210	95	10	15	67	130	100	1	3.94
LD-BT50	275	113	20	24	105	200	150	1	7.06
LD-DAT40	210	95	10	15	67	130	100	1	3.94
LD-DAT50	275	113	20	24	105	200	150	1	10.62
LD-CAT40	210	95	10	15	67	130	100	1	3.80
LD-CAT50	275	113	20	24	105	200	150	1	11.4
LD-HSK63A								2	
LD-HSK100A	275	113	105	20	24	200	100	2	16.8

- 本體為鑄鐵 - The body is Cast Iron.

PSC 鎖刀座
PSC TOOL HOLDER TIGHTENING FIXTURE

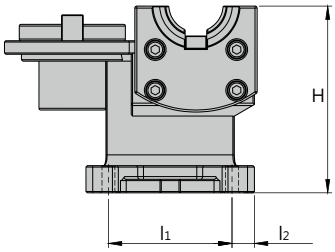


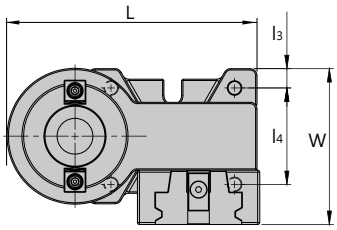
規格 Spec.	L	l_1	l_2	l_3	l_4	H	W	重量 (KGS) Weight
LD-PSC32	210	95	10	15	67	143	100	5.26
LD-PSC40	210	95	10	15	67	143	100	5.28
LD-PSC50	210	95	10	15	67	148	100	-
LD-PSC63	210	95	10	15	67	148	100	-

• 長度單位 Unit of Length (mm)

TLT 加強型鎖刀座
TLT TOOL HOLDER TIGHTENING FIXTURE

NEW





特點 Feature

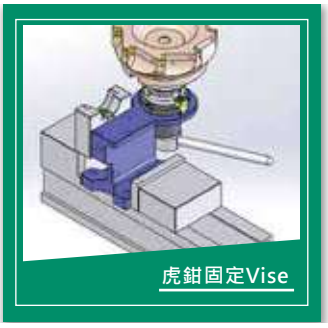
- BT、SBT 刀桿共用

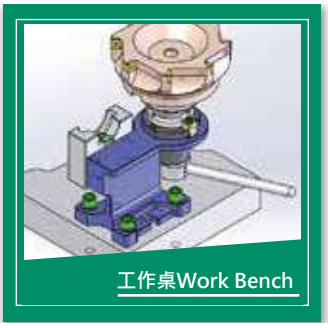
- Compatible with BT and SBT Tool Holder.

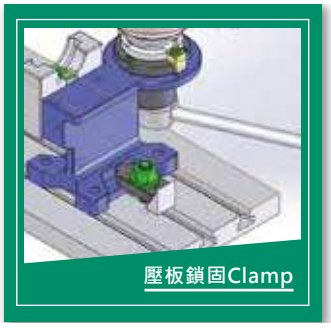
規格 Spec.	L	l_1	l_2	l_3	l_4	H	W	重量 (KGS) Weight
TLT-B30	186	91	16.5	14.25	71	137.5	110	4.36
TLT-B40	186	91	16.5	14.25	71	137.5	110	4.38
TLT-B50	242	116	-	-	112	195.5	162.5	10.90

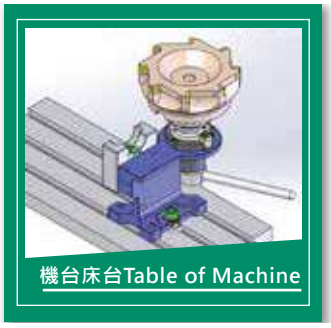
鎖刀座比較表 Comparison Table

項目 Item	一般型 General Type	加強型 Enhanced Type
使用刀桿 Usage Tool Holder	BT 刀桿 BT Tool Holder	BT、SBT 雙面拘束刀桿 Both BT and SBT Tool Holder
懸伸長重量重刀桿 使用穩定性 Stability with Long Length and Heavy Chuck	一般易晃 Ordinary	優、穩固 More Powerful and Superior
固定方式 Able to Fixed on/with	僅固定工作桌 Work Bench	四種固定方式 1. 虎鉗固定 Vise 2. 工作桌 Work Bench 3. 壓板鎖固 Clamp 4. 機台床台 Table of Machine





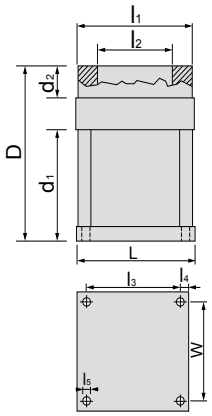




• 長度單位 Unit of Length (mm)

HSK/BT/DIN 無鍵槽鎖刀座
HSK/BT/DIN TOOL HOLDER TIGHTENING FIXTURE

- 不可敲擊 - Don't use hammer.



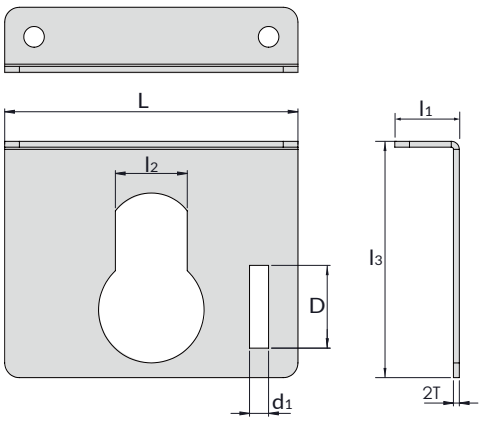
特點 Feature

- HSK 有無鍵槽共用

- HSK

規格 Spec.	L	l_1	l_2	l_3	l_4	l_5	D	d_1	d_2	W	重量 (KGS) Weight
HD-HSK32I	100	80	32	84	8	7	141	89	27	84	2.95
HD-HSK40I	100	80	40	84	8	7	141	89	27	84	2.80
HD-HSK50I	100	95	50	84	8	7	147	89	33	84	3.00
HD-HSK63I	100	96.5	63	84	8	7	139	89	25	84	2.90
HD-BT30I	100	95	46	84	8	7	142	89	28	84	3.00
HD-DIN30I	100	95	50	84	8	7	137	89	23	84	3.10

ISO 鎖刀座 (ER/MHG 刀桿專用)
ISO TOOL HOLDER TIGHTENING FIXTURE(For ER/MHG TOOL HOLDER)



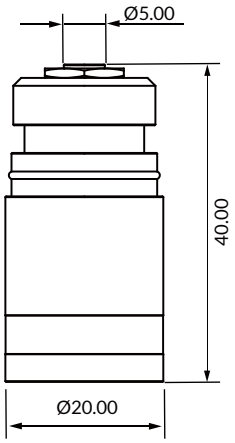
範例 Example

規格 Spec.	L	l_1	l_2	l_3	D	d_1	重量 (KGS) Weight
LD-ISO20	100	22	24.5	80	28	6.5	-
LD-ISO25	100	22	27	80	28	6.5	-
LD-ISO30	100	22	42	10	28	6.5	-

• 長度單位 Unit of Length (mm)

ZMP-40 迷你光電 Z 軸量測
ZMP-40 MINI Z AXIAL PRESET GAUGE(OPTICAL TYPE)

NEW



特點 Feature

- 重覆定位精度 ±0.001mm
- 高度公差 0.005mm
- 磁性底座設計，可吸附工件探測
- 最小可量測 0.01mm 刀具
- 防護等級 IPX6、IPX7

-Re-positioning accuracy ±0.001mm.
-Height tolerance in 0.005 mm.
-Magnetic base design for absorbing workpiece to probe.
-Minimum measurable 0.01mm cutting tool.
-IP protection grade IPX6、IPX7.

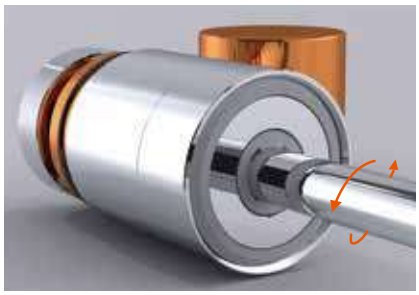
注意事項 Notice

- 使用 SR44 或 LR44 1.5V 電池 2 枚，可連續使用 200 小時，使用前注意電力是否充足。
- 量測壓力值為 1.0 N.m，不適用一般量具檢測精度

-2 pieces battery (SR44/LR44), battery life up to 200 hours, please check the battery if it's sufficient before use.
-The measured pressure value is 1.0 N.m, which is not applicable to the general gauge detection accuracy.

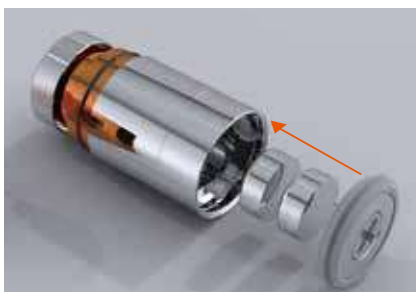
規格 Spec.	型式 NO.	總高度 H	伸縮距離 Telescopic distance	重量 (KGS) Weight
ZMP-40	光電式 Optical type	40	2	0.1

電池更換方式 Battery exchange instructions

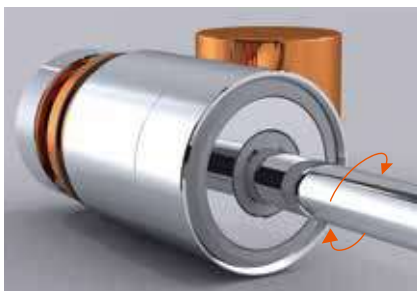


1.使用十字螺絲起子將電池蓋逆時針轉開。
Open the battery cover by using a cross screw-driver.(counterclockwise)

2.轉開電池蓋，準備兩顆SR44 或LR44 1.5V電池。
Once the cover is opened, exchange two battery (Battery model: SR44 or LR44 1.5v)



3.將兩顆電池放入，並蓋上電池蓋。
Install the new battery.



4.使用十字螺絲起子將電池蓋順時針鎖緊。
Lock the battery cover by using a cross screwdriver. (clockwise)

• 長度單位 Unit of Length (mm)

ACCESSORIES

Z 軸設定器（有磁性 內藏量錶式）
Z AXIAL PRESET GAUGE WITH MAGNETIC BASE

高度 50
height

高度 100
height

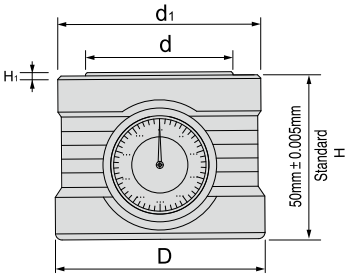


Fig.1

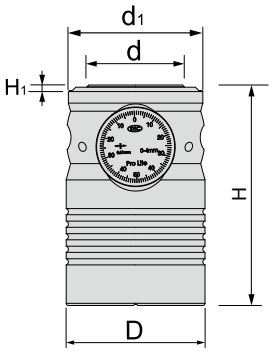


Fig.2

特點 Feature

- 高精密度、高準確度、高便利性
- 測量接觸面積大，以利測量作業

- High precision, high accuracy, high convenience.
- The measuring contacting wide area, in order to help the gauge work.

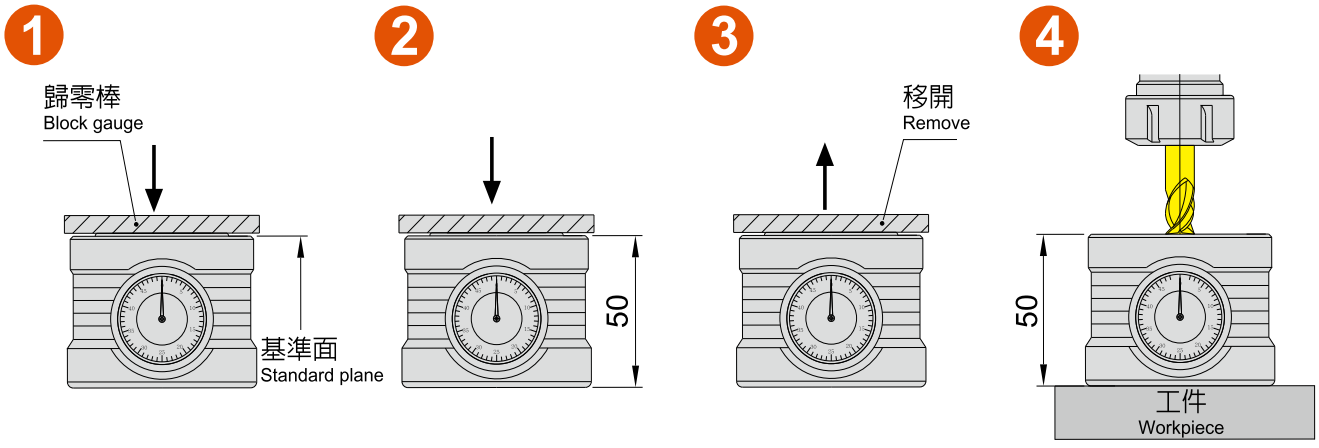
規格 Spec.	D	d	d_1	H ±0.005	H_1 有效行程 Stroke	??? Block gauge	Fig.	重量 (KGS) Weight
ZDS-50J	64	44.7	62	50	2	Ø16	1	1.35
ZDS-50J-N	64	44.7	62	50	2	Ø16	1	1.35
ZSW-100	64	44.7	62	100	2	Ø16	2	-

- ZDS-50J-N 為無磁性 - ZDS-50J-N is non-magnetic.

範例 Example

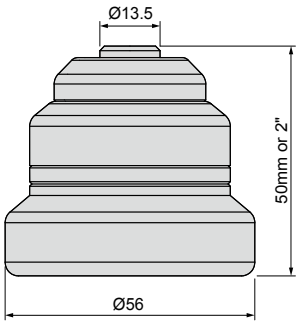
- 請使用歸零棒，下壓至基準面
- 轉開百分錶使錶針歸零
- 移開歸零棒
- 置於工件上，刀具接觸探測面，請慢速進刀至錶針指在 "0" ，則刀具與工件的距離是 50

- Please use the block gauge to press datum level.
- Turn the dialgage and adjust the needle to "0".
- Remove the block gauge.
- Put the whole unit on the workpiece, when cutter touched the test surface please feed slowly to move the needle to "0". The cutter distance is now 50mm above the workpiece.



• 長度單位 Unit of Length (mm)

ZOP-50 光電式 Z 軸設定器
ZOP-50 Z AXIAL PRESET GAUGE(OPTICAL TYPE)



特點 Feature

- 精度 0.005mm
- 磁性底座設計，可供側面吸附工件探測
- 紅燈亮時，四週都可看見，沒有死角

- Accuracy 0.005mm.
- With magnetic base, available for adsorption side workpiece probe.
- When the red lamp on, you can sweep it with non blind spot.

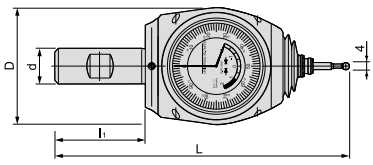
注意事項 Notice

- 使用 AG13 水銀電池 2 枚
- 磁性底座請勿接近 100˚C 以上熱氣或火氣，以防消磁
- 探測面下方有微調機構，調整高度請用平行塊規比測
- 高精度產品，不適用游標尺檢測精度
- 快速進刀至燈亮時，請輕微後退至燈熄，再慢速前進至燈亮，以利確實掌握精度
- 側面探測時，請用刀刃之最高點拉觸探測面

- Uses AG13 clark cell 2.
- Magnetic base should avoid to approach the heat or steam above 100˚C, to prevent demagnetization.
- There's micro-adjustment under test surface, please use parallel block for adjusting height.
- High precision products, not suitable for vernier scale to test precision.
- When the light is on due to fast feed cutter, please draw back slightly until the light is off, then go forward slowly until the light is on, for controlling precision indeed.
- When probing side, please use the apogee of the cutter to touch the test surface.

規格 Spec.	型式 NO.	總高度 H	伸縮距離	重量 (KGS) Weight
ZOP-50	光電式	50	3	0.5

三次元探測器
3D MASTER



規格 Spec.	L	l_1	D	d	重量 (KGS) Weight
3D-D	163	50	65	20	0.94

探針
PROBE

Fig.1

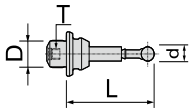
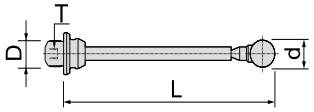


Fig.2

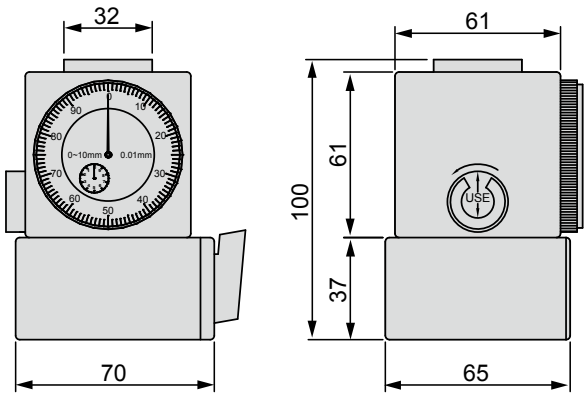


	規格 Spec.	L	D	d	T	Fig.	重量 (KGS) Weight
台製	TB-427(短針)	25	7.5	4	M3	1	0.02
	TB-869(長針)	65	7.5	8	M3	2	0.02
進口	3D-S(短針)	25	7.5	4	M3	1	0.02
	3D-L(長針)	65	7.5	8	M3	2	0.02

ACCESSORIES

• 長度單位 Unit of Length (mm)

ZDI-100 量錶式 Z 軸設定器
ZDI-100 Z AXIAL PRESET GAUGE (INDICATOR TYPE)



特點 Feature

- 高度 100mm，計算容易
- 探測面橢圓形，加大使用面積
- 0.01mm 大錶面設計，視覺輕鬆
- 底座含磁性，有調整 ON-OFF 開關設計
- 到達定位點時，大錶、小錶同時顯示 "0"
- 可利用歸零桿，進行高度調整

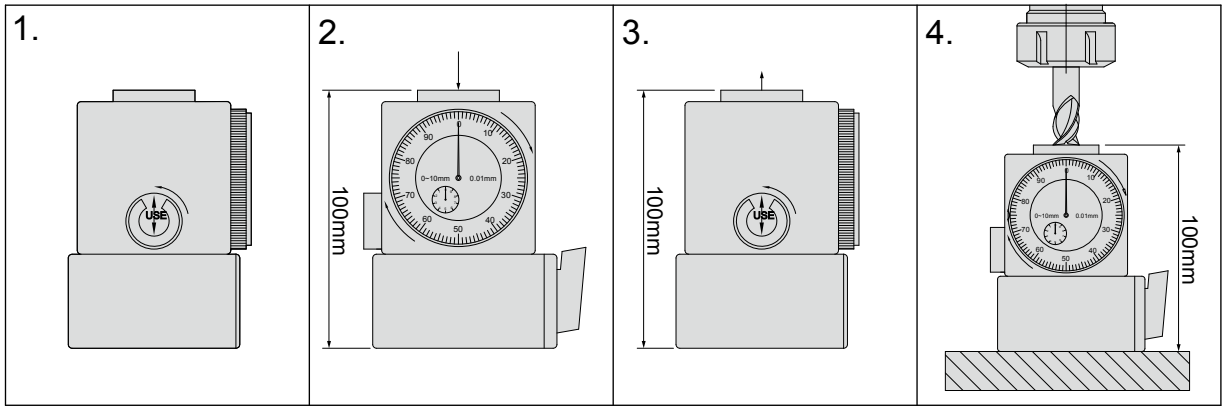
- Height 100mm, easy to calculate.
- Oval test surface, extending using area.
- Big clockface design, easy to read.
- Magnetic base with ON-OFF switch is designed for adjustment.
- The design in a direct way returns to zero by reaching the anchor point.
- Uses zero level to adjust height.

注意事項 Notice

- 將歸零桿轉至 TEST
- 用手下壓至盡頭，小錶會顯示 "0"，請將大錶 "0" 旋轉至對準大指針
- 使用前請將歸零桿旋轉至 "USE"
- 置於工件上，將磁性座旋轉至 "ON"，刀具接觸探測面，請慢速進刀至大錶，小錶指針同時到 "0" 時，則刀具與工件的距離是 100mm

- Rotate the wheel on the side of the unit for the setting-zero point form "USE" to "TEST".
- Press down the gauge at the top of the unit, until the small indicator needle point to zero. Keep pressure against it and then adjust the large indicator needle to zero.
- Rotate the button at the side of the unit form to "USE".
- Introduce the tool to the top of the unit until both dial indicator gauges reach zero, the cutter distance is now 100mm above the workpiece.

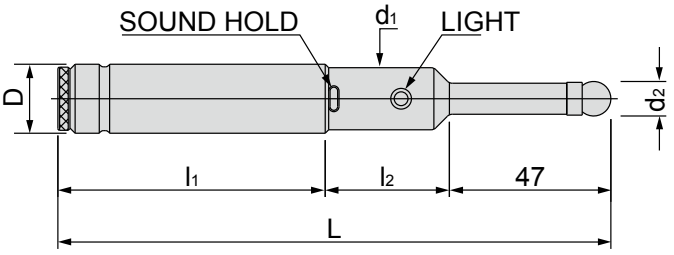
規格 Spec.	型式 NO.	總高度 H	伸縮距離 Telescopic distance	重量 (KGS) Weight
ZDI-100	量錶式	100	3	2.24



• 長度單位 Unit of Length (mm)

警示鳴音光電尋邊器
ES OPTICAL EDGE FINDER WITH LED BEEP TOUCH POINT SENSOR

精度 Accuracy : 0.005mm



特點 Feature

- 每支產品都附有精度檢驗報告書
- 紅燈亮起同時發出電子音嗶！嗶！聲響
- 無法目視之探孔深測，可由聲響得知探測結果

- Each product comes with a precision inspection report
- It will beep at the same time when the red light lit up.
- When probe is in a deep hole you can't see the red light, but you can hear the sound.

注意事項 Notice

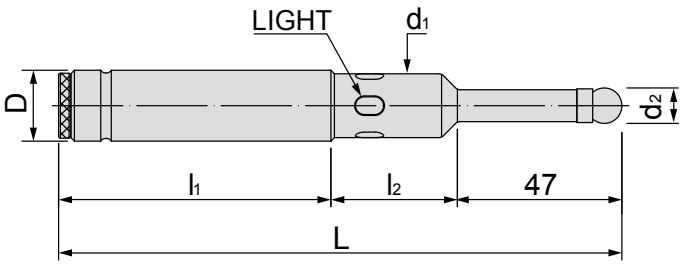
- 附 2 枚 UM5#1.5V，鹼性乾性電池

-With two UM5 # 1.5V, alkaline dry batteries.

規格 Spec.	L	l_1	l_2	D	d_1	d_2	重量 (KGS) Weight
ES-20	160	79	41	20	18	10	0.35
ES-32	160	79	41	32	18	10	0.60

光電式尋邊器
OPTICAL EDGE FINDER WITH TOUCH POINT SENSOR

精度 Accuracy : 0.005mm



特點 Feature

- 接觸時紅光閃耀，降低視覺誤差
- 附精度檢驗表及使用說明

- When contact, red light shine to reduce parallax.
- With accuracy test sheet and instructions for use.

注意事項 Notice

- 不可迴轉量測
- 附 2 枚 UM5#1.5V，鹼性乾性電池

- Non-rotating measurement.
- With two UM5 # 1.5V, alkaline dry batteries.

規格 Spec.	L	l_1	l_2	D	d_1	d_2	重量 (KGS) Weight
OP-20	160	79	34	20	18	10	0.30
OP-32	160	79	34	32	18	10	0.60

• 長度單位 Unit of Length (mm)

偏心式尋邊器
ME MECHANICAL EDGE FINDER

精度 Accuracy : 0.002mm

ME-610　　ME-420　　ME-1020

Fig.1

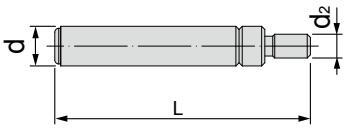


Fig.2

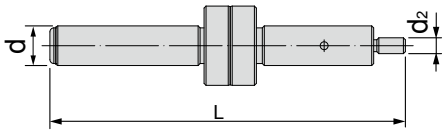
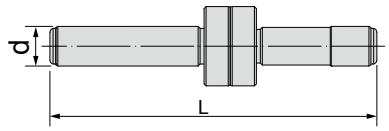


Fig.3



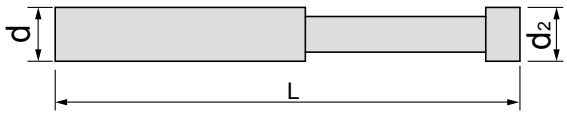
特點 Feature

- ME420 特別設計 4mm 測頭，提供小孔徑及偏窄溝槽測量使用
- 配合轉速 400~600rpm.
- MIN.(4mm) can be tested mini hole for your workpiece.
- Within 400-600rpm.

規格 Spec.	L	d	d_2	Fig.	重量 (KGS) Weight
ME-610	65	10	Ø6	1	0.03
ME-420	90	10	Ø4	2	0.06
ME-1020	82.8	10	Ø10	3	0.06

CME 偏心式尋邊器
CME MECHANICAL EDGE FINDER

精度 Accuracy : 0.002mm



特點 Feature

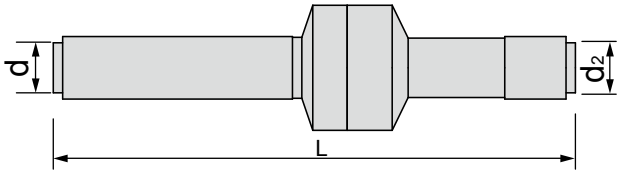
- 配合轉速 400~600rpm
- 陶瓷測頭不導磁
- Within 400-600rpm.
- Non-magnetic ceramic side head.

規格 Spec.	L	d	d_2	重量 (KGS) Weight
CME-1010	86	10	Ø10	0.04

• 長度單位 Unit of Length (mm)

CME 偏心式尋邊器
CME MECHANICAL EDGE FINDER

精度 Accuracy : 0.002mm



特點 Feature

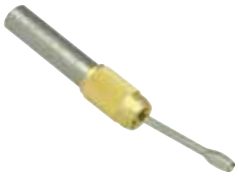
- 配合轉速 400~600rpm
- 陶瓷測頭不導磁

- Within 400-600 rpm.
- Non-magnetic ceramic side head.

規格 Spec.	L	d	d_2	重量 (KGS) Weight
CME-1020	90	10	Ø10	0.08

SR 迴轉式尋邊器（精密型）
SR ACEURACY TOUCH POINT SENSOR

精度 Accuracy : 0.005mm



SR-10S

SR-10L

CSR-10S

CSR-10L

Fig.1

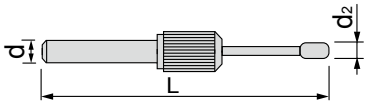
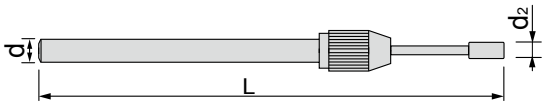


Fig.2



特點 Feature

- 配合轉速 800~1000rpm
- 陶瓷測頭不導磁

- Within 800-1000rpm.
- Non-magnetic ceramic side head.

規格 Spec.	L	d	d_2	Fig.	重量 (KGS) Weight
SR-10S (□□)	95	Ø10	Ø5	1	0.06
SR-10L (□□)	145			2	0.09
SR-10T	□□(2□□)A set (two pieces)				0.27
CSR-10S (□□)	95	Ø10	Ø5	1	0.04
CSR-10L (□□)	145			2	0.08
CSR-10T	□□(2□□)A set (two pieces)				0.26

• 長度單位 Unit of Length (mm)

HME 超硬膜偏心式尋邊器
HME MECHANICAL EDGE FINDER

精度 Accuracy : 0.002mm

HME-1020

HME-420

Fig.1

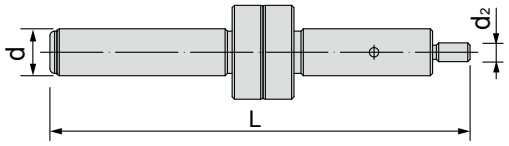
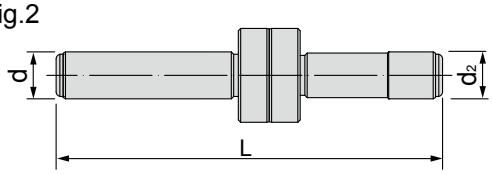


Fig.2



特點 Feature

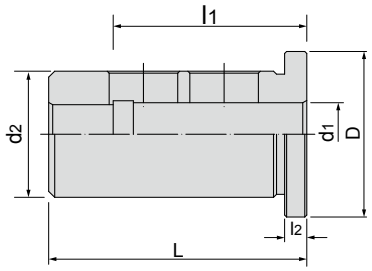
- 絕不產生磁性
- 探測端硬度 >HRC60°
- 配合轉速 400~600rpm

- No magnetism.
- Test end degree of hardness>HRC60°
- Within 400-600rpm.

規格 Spec.	L	d	d_2	Fig.	重量 (KGS) Weight
HME-420	90	10	Ø4	1	0.04
HME-1020	82.5	10	Ø10	2	0.04

BT/OSL 側固式油路刀把套筒
BT/OSL STRAIGHT SLEEVE FOR SIDE-LOCK OIL HOLDER

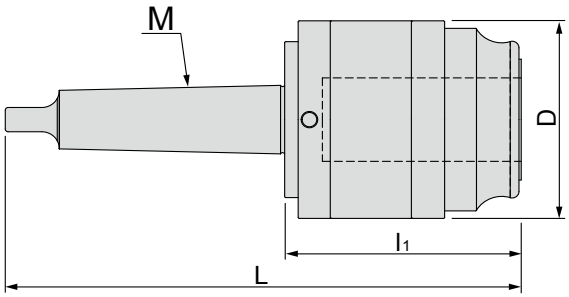
TYPE BC



規格 Spec.	L	l_1	l_2	D	d_1	d_2	重量 (KGS) Weight
OSL-20-16	54	48	5.5	30	16	20	0.07
OSL-25-16	60	48	5.5	35	16	25	0.19
OSL-25-20	60	56	5.5	35	20	25	0.15
OSL-32-16	64	48	5.5	42	16	32	0.35
OSL-32-20	64	56	5.5	42	20	32	0.32
OSL-32-25	64	56	5.5	42	25	32	0.22
OSL-40-16	74	48	5.5	50	16	40	0.57
OSL-40-20	74	60	5.5	50	20	40	0.54
OSL-40-25	74	60	5.5	50	25	40	0.45
OSL-40-32	74	60	5.5	50	32	40	0.30

• 長度單位 Unit of Length (mm)

TP/DT33 鑽床攻牙器
TP/DT33 DRILL TAPPER



特點 Feature

- 攻牙本體有調整扭力之功能，可依客戶攻牙需求作扭力強 (H) 和弱 (L) 之調整操作
- 攻牙能力 :M5~M36

- Tapping body have the function of torque adjustment, may adjust the torque by strong (H) and weak (L) attached customer needs.
- Tapping capacity: M5~M36.

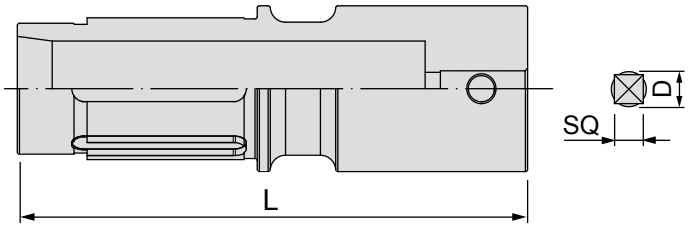
規格 Spec.	L	l_1	D	M	重量 (KGS) Weight
DT33-MT3	200	104	90	MT3	3.15
DT33-MT4	228	104	90	MT4	3.48
DT33-MT5	254	104	90	MT5	4.38

鑽床攻牙器套裝組
DRILL TAPPER SET

規格 Spec.	內容物 Contents				重量 (KGS) Weight
	本體 Tapper Holder	絲攻筒夾 Tapping Collet	斜柄筒夾 Tapping Collet	鑽夾頭筒夾 Drill chuck Collet	
DT33-MT3-9P-SET	TP-MT3T	M6~M36 W1/4~W1-1/8 PT1/8~PT1-1/8 (可選配六只)	DT33-TPC-MT1 DT33-TPC-MT2 DT33-TPC-MT3 DT33-TPC-MT4 (可選配二只)	DT33-TPC-JT6	-
DT33-MT4-9P-SET	TP-MT4T				-
DT33-MT5-9P-SET	TP-MT5T				-

• 長度單位 Unit of Length (mm)

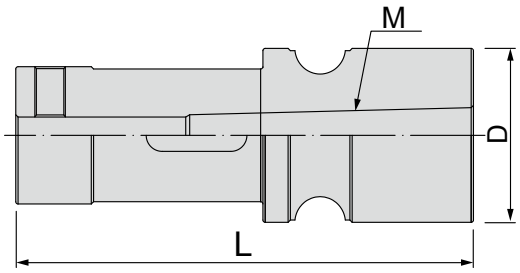
DT33 絲攻筒夾
DT33 TAPPING COLLET



規格 Spec.	公制 (mm)	英制 (inch)	英制 (inch)	PT	PS	PF	L	直徑 Ø D	四角柄 SQ	重量 (KGS) Weight
DT33-TPC-M6.U1/4.W1/4	M6	U1/4	W1/4	-	-	-	117	6	4.5	0.57
DT33-TPC-U5/16.W5/16	-	U5/16	W5/16	-	-	-	117	6.1	5	0.57
DT33-TPC-M8.M7	M8 M7	-	-	-	-	-	117	6.2	5	0.57
DT33-TPC-M9.M10.U3/8.W3/8	M9 M10	U3/8	W3/8	-	-	-	117	7	5.5	0.57
DT33-TPC-M11.U7/16.W7/16. PT7/8.PT1/8	M11	U 7/16	W7/16	1/8	1/8	1/8	117	8	6	0.57
DT33-TPC-M12	M12	-	-	-	-	-	117	8.5	6.5	0.57
DT33-TPC-U1/2.W1/2	-	U1/2	W1/2	-	-	-	117	9	7	0.57
DT33-TPC-M14.M15.U9/16.W9/16	M14 M15	U9/16	W9/16	-	-	-	117	10.5	8	0.57
DT33-TPC-PT1/4.PS1/4.PF1/4	-	-	-	1/4	1/4	1/4	117	11	9	0.57
DT33-TPC-U5/8.W5/8	-	U5/8	W5/8	-	-	-	117	12	9	0.57
DT33-TPC-M16	M16	-	-	-	-	-	117	12.5	10	0.57
DT33-TPC-M18.U3/4.W3/4.PT3/8	M18	U3/4	W3/4	3/8	3/8	3/8	117	14	11	0.57
DT33-TPC-M20	M20	-	-	-	-	-	117	15	12	0.57
DT33-TPC-M22.U7/8.W7/8	M22	U7/8	W 7/8	-	-	-	117	17	13	0.57
DT33-TPC-PT1/2.PS1/2.PF1/2	-	-	-	1/2	1/2	1/2	117	18	14	0.57
DT33-TPC-M24.M25.PT5/8	M24 M25	-	-	-	-	5/8	117	19	15	0.57
DT33-TPC-M26.M27.U1.W1	M26 M27	U1	W1	-	-	-	117	20	15	0.57
DT33-TPC-M28	M28	-	-	-	-	-	117	21	17	0.57
DT33-TPC-M29.W1-1/8	-	U1-1/8	W1-1/8				117	22	17	0.57
DT33-TPC-M30.PT3/4	M30	-	-	3/4	3/4	3/4	117	23	17	0.57
DT33-TPC-M32.U11/4	M32	U1-1/4	W1-1/4	-	-	7/8	117	24	19	0.57
DT33-TPC-M33	M33	-	-	-	-	-	117	25	19	0.57
DT33-TPC-M34.M35.U13/8.PT1	M34 M35	U1-3/8	W1-3/8	1	1	1	117	26	21	0.57
DT33-TPC-M36.M38.PT1-1/8	M36 M38	-	-	-	1-1/8	1-1/8	117	28	21	0.57

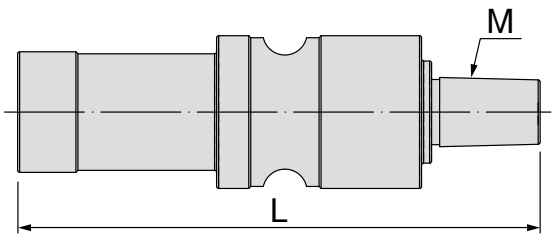
• 長度單位 Unit of Length (mm)

DT33 斜柄筒夾
MORSE TAPER COLLET



規格 Spec.	L	D	M	重量 (KGS) Weight
DT33-TPC-MT1	100	38	MT1	0.62
DT33-TPC-MT2	110	38	MT2	0.62
DT33-TPC-MT3	122	38	MT3	0.60
DT33-TPC-MT4	170	38	MT4	0.66

DT33 鑽夾頭筒夾
DT33 DRILL CHUCK COLLET



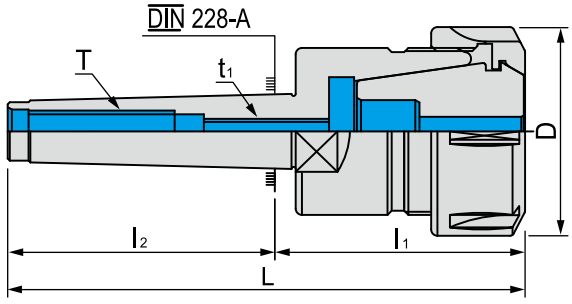
規格 Spec.	L	M	重量 (KGS) Weight
DT33-TPC-JT6	130	JT6	0.74

ACCESSORIES

• 長度單位 Unit of Length (mm)

MTB/ER 銑床夾頭柄
MTB/ER COLLET HOLDER

DIN-6499
DIN-ISO-15488



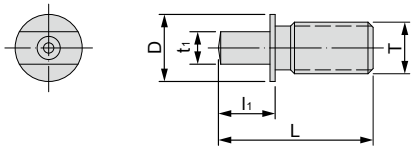
特點 Feature

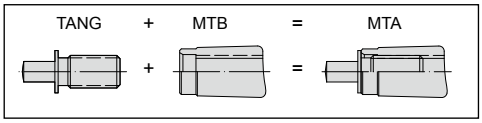
MTB=MK
- MTB 加榫舌即為 MTA
- 訂購前請確認本體拉桿牙數為公制或英制

MTB=MK
- MTB + TANG = MTA
- Please inform DRAW BAR'S size when purchasing holder.

規格 Spec.	L	l_1	l_2	D	t_1	T	重量 (KGS) Weight
MTB2-ER20A-52	116	52	64	35	M10-1.5P	M10-1.5P, 3/8"W16	0.45
MTB2-ER25-55	119	55	64	42	M10-1.5P	M10-1.5P, 3/8"W16	0.50
MTB3-ER25-55	136	55	81	42	M12-1.75P	M12-1.75P, 1/2"W12	0.60
MTB3-ER32-60	141	60	81	50	M12-1.75P	M12-1.75P, 1/2"W12	0.80
MTB3-ER40-70	151	70	81	63	M12-1.75P	M12-1.75P, 1/2"W12	1.30
MTB4-ER32-60	162.5	60	102.5	50	M16-2.0P	M16-2.0P, 5/8"W11	0.95
MTB4-ER40-70	172.5	70	102.5	63	M16-2.0P	M16-2.0P, 5/8"W11	1.50

榫舌
TANG



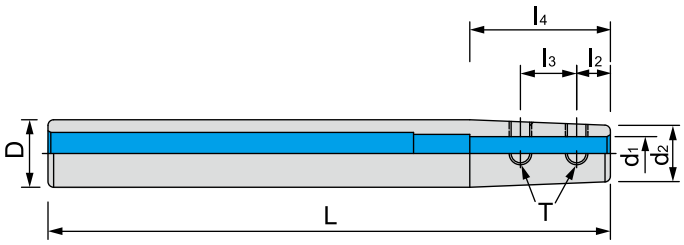


規格 Spec.	L	l_1	D	T	t_1	重量 (KGS) Weight
MT2-3/8"W16	30	7	13	3/8"W16	6.3	0.02
MT2-M10-1.5P	30	7	13	M10-1.5P	6.3	0.02
MT3-1/2"W12	40	12	18	1/2"W12	7.8	0.04
MT3-M12-1.75P	40	12	18	M12-1.75P	7.8	0.04

規格 Spec.	L	l_1	D	T	t_1	重量 (KGS) Weight
MT4-5/8"W11	46	13	25	5/8"W11	11.9	-
MT4-M16-2.0P	46	13	25	M16-2.0P	11.9	-
MT5-1"W8	47	14	35	1"W8	15.9	-
MT5-M24-3.0P	47	14	35	M24-3.0P	15.9	-

• 長度單位 Unit of Length (mm)

C/SL 直柄側固式延長小徑刀柄
C/SL STRAIGHT EXTENSION SIDE LOCK HOLDER



特點 Feature

- 材質採用抗震性優越的鎳鉻鉬合金鋼
- 孔徑差 H5

-Steel : SNCM-220
- d1 is H5.

規格 Spec.	L	l_2	l_3	l_4	D	d_1	d_2	T	重量 (KGS) Weight
C8-SL03-110	110	6	10	25	8	3	7.5	M3-0.5P-3L	0.08
C8-SL04-110	110	6	10	25	8	4	8	M3-0.5P-3L	0.08
C10-SL03-150	150	6	10	25	10	3	9	M3-0.5P-3L	0.11
C10-SL04-150	150	6	10	25	10	4	9	M4-0.7P-3L	0.08
C10-SL06-150	150	6	10	25	10	6	-	M4-0.7P-3L	0.10
C12-SL04-150	150	6	10	25	12	4	9	M4-0.7P-3L	0.13
C12-SL06-150	150	6	10	25	12	6	10	M4-0.7P-3L	0.12
C16-SL04-150	150	6	10	25	16	4	10	M4-0.7P-4L	0.22
C16-SL04-200	200	6	10	25	16	4	10	M4-0.7P-4L	0.18
C16-SL06-150	150	6	10	25	16	6	13	M4-0.7P-3L	0.20
C16-SL06-200	200	6	10	25	16	6	13	M4-0.7P-4L	0.25
C16-SL08-150	150	6	10	25	16	8	15	M4-0.7P-3L	0.15
C16-SL08-200	200	6	10	25	16	8	15	M4-0.7P-4L	0.21
C20-SL06-150	150	6	10	25	20	6	13	M4-0.7P-4L	0.29
C20-SL06-200	200	6	10	25	20	6	13	M4-0.7P-4L	0.38
C20-SL08-150	150	6	10	25	20	8	15	M6-1.0P-4L	0.29
C20-SL08-200	200	6	10	25	20	8	15	M6-1.0P-6L	0.38
C20-SL10-150	150	6	10	25	20	10	17	M6-1.0P-6L	0.27
C20-SL10-200	200	6	10	25	20	10	17	M6-1.0P-4L	0.34
C20-SL12-150	150	6	10	25	20	12	19	M6-1.0P-4L	0.18
C20-SL12-200	200	6	10	25	20	12	19	M6-1.0P-6L	0.28
C32-SL06-150	150	6	10	25	32	6	13	M6-1.0P-8L	0.21
C32-SL08-150	150	6	10	25	32	8	15	M6-1.0P-6L	0.21
C32-SL10-150	150	6	10	25	32	10	17	M6-1.0P-8L	0.22
C32-SL12-150	150	6	10	25	32	12	19	M6-1.0P-5L	0.22

• 長度單位 Unit of Length (mm)

直柄ER自動車床夾頭柄系統化示意圖
ER Collet Chuck For Automatic Lathe(Straight Shank) Combination

刀桿 Holder	筒夾 Chuck	螺帽 Nut	扳手 Wrench

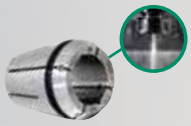
小徑 / 直柄 ER 夾頭柄(M型)
ER Collet Chuck For Automatic Lathe (Straight Shank)
C20-ER16M-60

DE直柄兩端ER自動車床夾頭柄
ER Collet Chuck For Automatic Lathe (Double-Ended Straight Shank)
DE20-ER16M-75

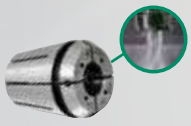
ER彈性筒夾
ER Collet

ER彈性筒夾(A級)
ER Collet (A Grade)

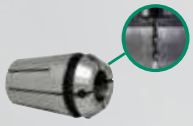
ER彈性筒夾(UP級)
ER Collet (UP Grade)



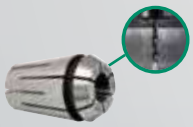
ER-FID出水筒夾
ER-FID Coolant Collet



ER-FOD出水筒夾
ER-FOD Coolant Collet

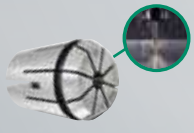


ER-EO止水筒夾
ER-EO Sealed Collet



ER-ES斜槽止水筒夾
ER-ES Steel Sealed Collet

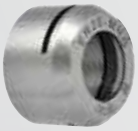
ER鋼性攻牙筒夾
ER-TC Rigid Tap Collet



ER鋼性攻牙止水筒夾
ER-TC Rigid Tap Sealed Collet

ER-M型螺帽
ER-M Nut

尺寸規格Spec.
ER8.ER11.ER16
ER20.ER25



ER-MHG螺帽
ER-MHG Nut

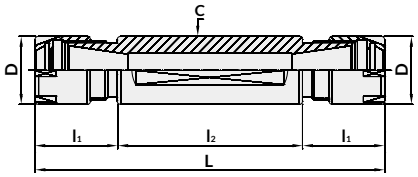
尺寸規格Spec.
ER16-MGH.ER20-MGH
ER25-MGH

ER-M標準扳手
ER-M Wrench

M-LH 螺帽扳手
(扭力扳手用)
M-LH Nut Torque Wrench

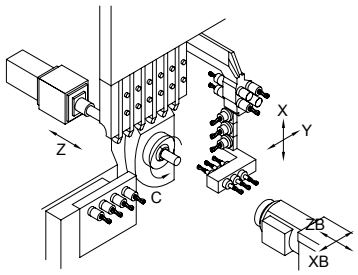
ER-MHG螺帽專用扳手
ER-MHG Nut Wrench

直柄兩端 ER 自動車床夾頭柄
ER COLLET CHUCK FOR AUTOMATIC LATHE (DOUBLE-ENDED STRAIGHT SHANK)



NEW

範例 Example



特點 Feature

-整支通孔

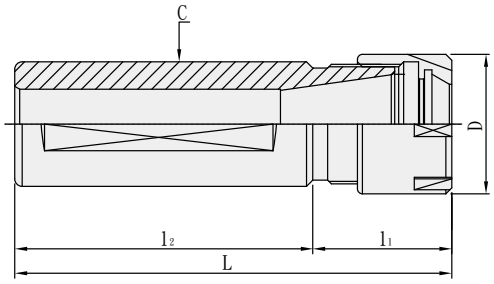
規格 Spec.	L	l_1	l_2	C	D	重量 (KGS) Weight
DE20-ER11M-30	63.2	16.6	30	20	16	0.09
DE20-ER11M-50	83.2	16.6	50	20	16	0.12
DE20-ER11M-75	108.2	16.6	75	20	16	0.12
DE20-ER16M-50	103.2	26.6	50	20	22	0.10
DE20-ER16M-55	108.2	26.6	55	20	22	0.12
DE20-ER16M-75	128.2	26.6	75	20	22	0.12
DE22-ER11M-60	93.2	16.6	60	22	16	0.12
DE22-ER11M-100	133.2	16.6	100	22	16	0.14
DE22-ER16M-55	108.2	26.6	55	22	22	0.17
DE22-ER16M-60	113.2	26.6	60	22	22	0.14
DE22-ER16M-75	128.2	26.6	75	22	22	0.21
DE22-ER16M-100	153.2	26.6	100	22	22	0.16
DE23-ER11M-60	93.2	16.6	60	23	16	0.16
DE23-ER11M-100	133.2	16.6	100	23	16	0.18
DE23-ER16M-60	113.2	26.6	60	23	22	0.20
DE23-ER16M-100	153.2	26.6	100	23	22	0.21
DE25-ER16M-62	115.2	26.6	62	25	22	0.23

• 使用 ER-M/WH軸承扳手 ER/WH Wrench

• 長度單位 Unit of Length (mm)

小徑 / 直柄 ER 夾頭柄 (M 型)
ER COLLET CHUCK FOR AUTOMATIC LATHE (STRAIGHT SHANK)

NEW



特點 Feature

-整支通孔 -Through hole

規格 Spec.	L	l1	l2	C	D	重量 (KGS) Weight
C20-ER11M-60	76.6	16.6	60	20	16	0.14
C20-ER16M-60	84.6	24.6	60	20	22	0.14
C22-ER11M-60	76.6	16.6	60	22	16	0.26
C22-ER16M-60	84.6	24.6	60	22	22	0.28
C23-ER11M-60	76.6	16.6	60	23	16	0.30
C23-ER16M-60	86.6	26.6	60	23	22	0.32
C25-ER20M-60	88	28	60	25	28	0.22

• 長度單位 Unit of Length (mm)

ER 夾頭柄
STRAIGHT SHANK COLLET CHUCK

DIN-6499
DIN-ISO-15488

Fig.1

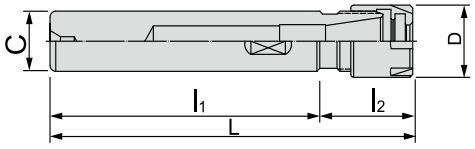
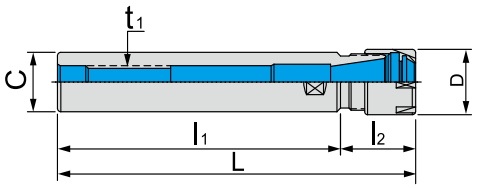


Fig.2

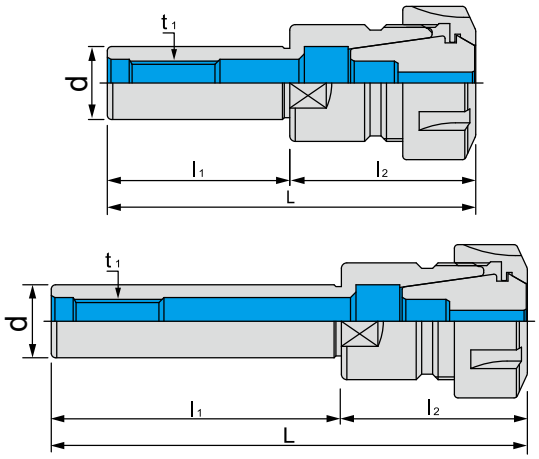


規格 Spec.	L	l_1	l_2	C	D	t_1	Fig.	重量 (KGS) Weight
C8-ER8M-55	78.2	55	23.2	8	12	-	1	0.05
C10-ER8M-100	116.2	100	16.2	10	12	-	1	0.08
C10-ER8M-150	166.2	150	16.2	10	12	-	1	0.12
C10-ER8M-180	196.2	180	16.2	10	12	-	1	0.14
C12-ER8M-55	71.2	55	16.2	12	12	-	1	0.06
C12-ER8M-120	136.2	120	16.2	12	12	-	1	0.13
C12-ER8M-180	197	180	26.5	12	12	-	1	0.19
C12-ER11M-80	96.6	80	16.6	12	16	M5-0.8P	2	0.08
C16-ER11M-50	66.6	50	16.6	16	16	M5-0.8P	2	0.08
C16-ER11M-100	116.6	100	16.6	16	16	M5-0.8P	2	0.15
C16-ER11M-140	156.6	140	16.6	16	16	M5-0.8P	2	0.22
C16-ER16M-80	117	80	36.6	16	22	M10-1.5P	2	0.12
C20-ER16M-100	126.6	100	26.6	20	22	M10-1.5P	2	0.42
C20-ER16M-140	166.6	140	26.6	20	22	M10-1.5P	2	0.31
C20-ER16M-160	186.6	160	26.6	20	22	M10-1.5P	2	0.34
C20-ER20M-60	100	60	40	20	28	M12-1.75P	2	0.18
C20-ER20M-100	140	100	40	20	28	M12-1.75P	2	0.24
C20-ER20M-120	160	120	40	20	28	M12-1.75P	2	0.28
C20-ER20M-150	190	150	40	20	28	M12-1.75P	2	0.34
C20-ER20M-180	220	180	40	20	28	M12-1.75P	2	0.40
C25-ER20M-140	168	140	28	25	28	M12-1.75P	2	0.47
C20-ER25M-100	150	100	50	20	35	M12-1.75P	2	0.35

• 長度單位 Unit of Length (mm)

直柄 ER 夾頭柄
STRAIGHT SHANK COLLET CHUCK

DIN-6499
DIN-ISO-15488



規格 Spec.	L	l_1	l_2	d	t_1	重量 (KGS) Weight
C16-ER11A-140	156.5	140	16.6	16	M6-1.0P	0.23
C16-ER16A-50	90	50	40	16	M10-1.5P	0.15
C16-ER16A-100	140	100	40	16	M10-1.5P	0.20
C16-ER16A-150	190	150	40	16	M10-1.5P	0.28
C20-ER16A-50	90	50	40	20	M12-1.75P	0.25
C20-ER16A-100	140	100	40	20	M12-1.75P	0.35
C20-ER16A-150	190	150	40	20	M12-1.75P	0.40
C20-ER20A-60	100.5	60	40.5	20	M12-1.75P	0.22
C20-ER20A-120	160.5	120	40.5	20	M12-1.75P	0.40
C20-ER20A-180	220.5	180	40.5	20	M12-1.75P	0.43
C20-ER20A-140	180.5	140	40.5	20	M12-1.75P	0.34
C20-ER25-50	101	50	51	20	M12-1.75P	0.40
C20-ER25-100	151	100	51	20	M12-1.75P	0.41
C20-ER32-50	101.5	50	51.5	20	M10-1.5P	0.45
C20-ER32-100	151.5	100	51.5	20	M10-1.5P	0.52
C25-ER16A-150	176.6	150	26.6	25	M10-1.5P	0.55
C25-ER20A-140	175.1	140	40.5	25	M12-1.75P	0.55
C25-ER25-50	101	50	51	25	M16-2.0P	0.40
C25-ER25-100	151	100	51	25	M16-2.0P	0.50
C25-ER32-50	101.5	50	51.5	25	M16-2.0P	0.48
C25-ER40-50	115	50	65	25	M16-2.0P	0.85
C32-ER32-60	111.5	60	51.5	32	M16-2.0P	0.65
C32-ER32-100	151.5	100	51.5	32	M16-2.0P	0.80
C32-ER40-50	115	50	65	32	M16-2.0P	2.23

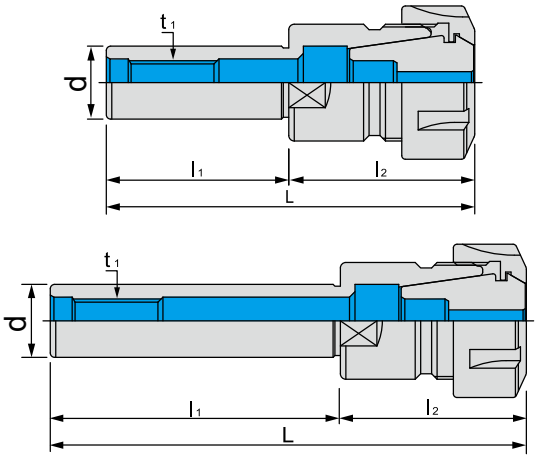
選配表 Option

筒夾 Collet	螺帽 Nut	扳手 Spanner
B611	B633	B649

• 長度單位 Unit of Length (mm)

直柄 ER 夾頭柄（削平）
STRAIGHT SHANK COLLET CHUCK

DIN-6499
DIN-ISO-15488



規格 Spec.	L	l_1	l_2	d	t_1	重量 (KGS) Weight
C16-ER11A-140T	156.5	140	16.6	16	M6-1.0P	0.23
C16-ER16A-50T	90	50	40	16	M10-1.5P	0.15
C16-ER16A-100T	140	100	40	16	M10-1.5P	0.20
C16-ER16A-150T	190	150	40	16	M10-1.5P	0.28
C20-ER16A-50T	90	50	40	20	M12-1.75P	0.25
C20-ER16A-100T	140	100	40	20	M12-1.75P	0.35
C20-ER16A-150T	190	150	40	20	M12-1.75P	0.40
C20-ER20A-60T	100.5	60	40.5	20	M12-1.75P	0.22
C20-ER20A-120T	160.5	120	40.5	20	M12-1.75P	0.40
C20-ER20A-180T	220.5	180	40.5	20	M12-1.75P	0.43
C20-ER20A-140T	175.1	140	40.5	20	M12-1.75P	0.34
C20-ER25-50T	101	50	51	20	M12-1.75P	0.40
C20-ER25-100T	151	100	51	20	M12-1.75P	0.41
C20-ER32-50T	101.5	50	51.5	20	M10-1.5P	0.45
C20-ER32-100T	151.5	100	51.5	20	M10-1.5P	0.52
C25-ER16A-150T	176.6	150	26.6	25	M10-1.5P	0.55
C25-ER20A-140T	175.1	140	40.5	25	M12-1.75P	0.55
C25-ER25-50T	101	50	51	25	M16-2.0P	0.40
C25-ER25-100T	151	100	51	25	M16-2.0P	0.50
C25-ER32-50T	101.5	50	51.5	25	M16-2.0P	0.48
C25-ER40-50T	115	50	65	25	M16-2.0P	0.85
C32-ER32-60T	111.5	60	51.5	32	M16-2.0P	0.65
C32-ER32-100T	151.5	100	51.5	32	M16-2.0P	0.80
C32-ER40-50T	115	50	65	32	M16-2.0P	2.23

ACCESSORIES

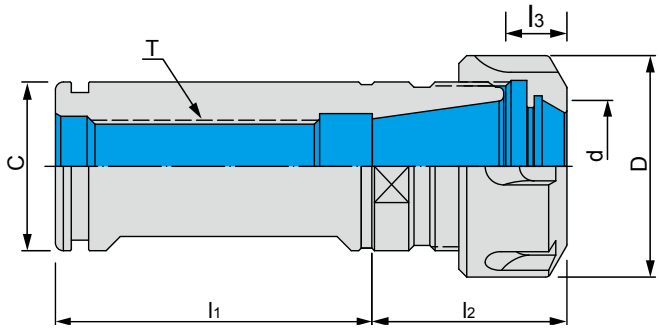
選配表 Option

筒夾 Collet	螺帽 Nut	扳手 Spanner
B612	B634	B650

• 長度單位 Unit of Length (mm)

NC/ER 夾頭柄
NC/ER COLLET CHUCK

DIN-6499
DIN-ISO-15488



特點 Feature

- CNC 車床專用夾頭柄
- 搭配止水筒夾或止水螺帽加止水環，用於夾持附水孔刀具

- This is specially fit for CNC Machines.
- With sealed collet or sealed nut add sealed ring for clamping cutters with water hole.

規格 Spec.	L	l_1	l_2	l_3	D	d	C	T	重量 (KGS) Weight
C32-NC/ER25-60	97	60	37	12	42	25	32	M18-1.5P	0.70
C32-NC/ER32-60	103	60	43	13	50	32	32	M22-1.5P	0.75
C40-NC/ER32-80	118	80	38	13	50	32	40	M22-1.5P	1.25
C40-NC/ER40-75	135	75	60	15	63	40	40	M28-1.5P	1.30

選配表 Option

筒夾 Collet	螺帽 Nut	扳手 Spanner
B612	B634	B650

• 長度單位 Unit of Length (mm)

直柄 ER 夾頭組
ER COLLET CHUCK SET

特點 Feature

- 本體可指定削平，適用於側邊鎖固。(另外加價)
- 價格 =(筒夾 × 數)+ 本體 + 扳手 + 包裝盒
- 本價格以塑膠盒計算，指定木盒差額請外加
- 套裝小孔徑筒夾不另加價。

- Flatten the body can be specified for the side locking. (Additional price optional).
- Whole set=(ER collet x Qty) + body + spanner + box.
- The prices calculated in plastic boxes, wooden specify please add balance.
- Collets of small sizes in the whole set have no additional price.

規格 Spec.	內容物 Contents 內附筒夾 夾持能力 Collet	重量 (KGS) Weight
C16-ER16-50-9PCS	2-10 x 9□ Ø2, Ø3, Ø4, Ø5, Ø6, Ø7, Ø8, Ø9, Ø10	1.30
C16-ER16-100-9PCS	2-10 x 9□ Ø2, Ø3, Ø4, Ø5, Ø6, Ø7, Ø8, Ø9, Ø10	1.40
C16-ER16-150-9PCS	2-10 x 9□ Ø2, Ø3, Ø4, Ø5, Ø6, Ø7, Ø8, Ø9, Ø10	1.50
C20-ER16-50-9PCS	2-10 x 9□ Ø2, Ø3, Ø4, Ø5, Ø6, Ø7, Ø8, Ø9, Ø10	1.40
C20-ER16-100-9PCS	2-10 x 9□ Ø2, Ø3, Ø4, Ø5, Ø6, Ø7, Ø8, Ø9, Ø10	1.60
C20-ER16-150-9PCS	2-10 x 9□ Ø2, Ø3, Ø4, Ø5, Ø6, Ø7, Ø8, Ø9, Ø10	1.60
C20-ER20-60-12PCS	2-13 x 12□ Ø2, Ø3, Ø4, Ø5, Ø6, Ø7, Ø8, Ø9, Ø10, Ø11, Ø12, Ø13	1.72
C20-ER20-120-12PCS	2-13 x 12□ Ø2, Ø3, Ø4, Ø5, Ø6, Ø7, Ø8, Ø9, Ø10, Ø11, Ø12, Ø13	1.76
C20-ER20-180-12PCS	2-13 x 12□ Ø2, Ø3, Ø4, Ø5, Ø6, Ø7, Ø8, Ø9, Ø10, Ø11, Ø12, Ø13	1.88
C20-ER25-50-15PCS	2-16 x 15□ Ø2~Ø16	1.20
C20-ER25-100-15PCS	2-16 x 15□ Ø2~Ø16	2.50
C20-ER32-50-6PCS	6-20 x 6□ Ø6, Ø8, Ø10, Ø12, Ø16, Ø20	1.20
C20-ER32-100-6PCS	6-20 x 6□ Ø6, Ø8, Ø10, Ø12, Ø16, Ø20	1.20
C20-ER32-50-18PCS	3-20 x 18□ Ø3~Ø20	1.67
C20-ER32-100-18PCS	3-20 x 18□ Ø3~Ø20	1.77
C25-ER25-50-15PCS	2-16 x 15□ Ø2~Ø16	1.80
C25-ER25-100-15PCS	2-16 x 15□ Ø2~Ø16	2.00
C25-ER32-50-6PCS	6-20 x 6□ Ø6, Ø8, Ø10, Ø12, Ø16, Ø20	1.50
C25-ER32-50-18PCS	3-20 x 18□ Ø3~Ø20	2.00
C25-ER40-50-7PCS	6-25 x 7□ Ø6, Ø8, Ø10, Ø12, Ø16, Ø20, Ø25	1.80
C25-ER40-50-23PCS	4-26 x 23□ Ø4~Ø26	2.70
C32-ER32-60-6PCS	6-20 x 6□ Ø6, Ø8, Ø10, Ø12, Ø16, Ø20	2.05
C32-ER32-60-18PCS	3-20 x 18□ Ø3~Ø20	3.50
C32-ER40-50-7PCS	6-25 x 7□ Ø6, Ø8, Ø10, Ø12, Ø16, Ø20, Ø25	3.80
C32-ER40-50-23PCS	4-26 x 23□ Ø4~Ø26	7.88

• 長度單位 Unit of Length (mm)

SPU 鑽夾頭
SPU DRILL CHUCK

Fig.1

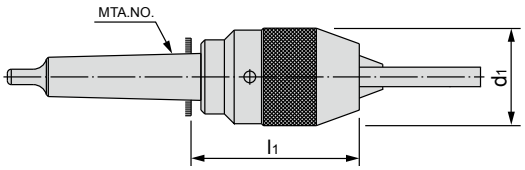
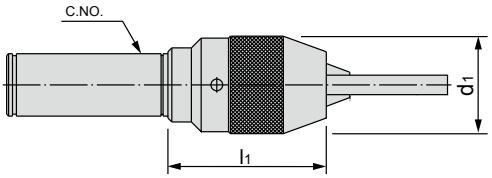


Fig.2



特點 Feature

- 一體式設計，可避免鑽頭夾具脫落的危險
- 適合使用夾持鑽頭加工
- 操作方便，使用勾扳手可直接鎖緊

- The integration design, may avoid the danger which the drilling attachment falls off.
- Suitable for using clamping drill bit processing.
- The ease of operation, the use hook wrench to be possible to lock directly.

規格 Spec.	NO.	l_1	d_1	夾持範圍 Clamp Range		扳手 Wrench	Fig.	重量 (KGS) Weight
				mm	inch			
MTA3-SPU13-80	MTA3	80	50	0.5~13	1/50~1/2	H-130	1	1.30
MTA4-SPU13-80	MTA4	80	50	0.5~13	1/50~1/2	H-130	1	1.65
C20-SPU13-80	C20	80	50	0.5~13	1/50~1/2	H-130	2	1.20
C25-SPU13-80	C25	80	50	0.5~13	1/50~1/2	H-130	2	1.30
C32-SPU13-80	C32	80	50	0.5~13	1/50~1/2	H-130	2	1.50

- 附扳手 Attaches the spanner.

注意事項 Notice

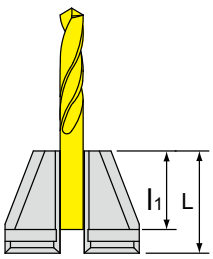
本產品之最大優點為簡單容易操作、快速方便、安全性極高，當使用本產品時，為了減少意外事故發生，延長產品壽命，必須遵守以下列舉的基本事項：夾持長度 (l_1) 應將鑽頭柄插入到底或至少爪長 (L) 的 2/3

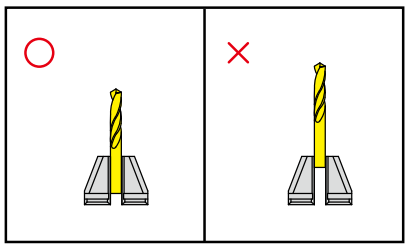
The most advantage for this product is easy to operate, fast, convenience and high safety. Please abide by following instructions to avoid the accidents & extend the product life when in use.
The shank of drill (clamping length l_1) should be inserted into the bottom fully. Or at least 2/3 length of L .

* 以下為各種規格夾爪長度及夾持量 -Following table is the specification for clamping length & volume

規格 Spec.	夾爪長度 L(mm)	夾持量 l_1 (mm) 至少
3mm (1/8")	14	9
6.5mm (1/4")	20	13
8mm (5/16")	26	17
10mm (3/8")	26	17
13mm (1/2")	28	19
16mm (5/8")	30	20

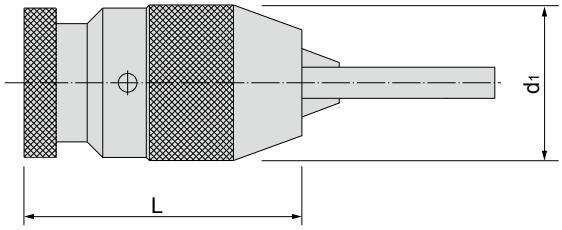
範例 Example





• 長度單位 Unit of Length (mm)

KLS 自動鑽夾頭
KLS KEYLESS DRILL CHUCK



特點 Feature

- 適合使用夾持鑽頭加工
- 操作方便，使用勾扳手可直接鎖緊

- Suitable for using clamp drill bit processing.
- The ease of operation, the use hook wrench to be possible to lock directly.

規格 Spec.	斜度 Taper	L	d_1	夾持範圍 Clamping Range		重量 (KGS) Weight
				mm	inch	
KLS-3/8	JT2	80	43	1~10	1/24~3/8	0.61
KLS-1/2	JT6	90	49	1~13	1/24~1/2	0.92
KLS-5/8	JT6	97	55	3~16	1/8~5/8	1.20

- 附扳手 Attaches the spanner.

注意事項 Notice

本產品之最大優點為簡單容易操作、快速方便、安全性極高，當使用本產品時，為了減少意外事故發生，延長產品壽命，必須遵守以下列舉的基本事項：夾持長度 (l_1) 應將鑽頭柄插入到底或至少爪長 (L) 的 2/3。

The most advantage for this product is easy to operate, fast, convenience, and high safety. Please abide by following instructions to avoid the accidents & extend the product life when in use.

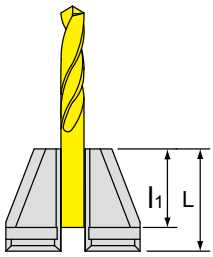
The shank of drill (clamping length l_1) should be inserted into the bottom fully.

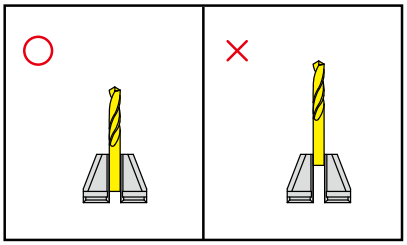
Or at least 2/3 length of L

以下為各種規格夾爪長度及夾持量：

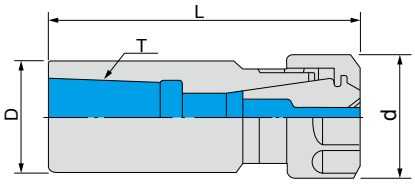
Following table is the specification for clamping length & volume

規格 Spec.	夾爪長度 L(mm)	夾持量 l_1 (mm) 至少
3mm (1/8")	14	9
6.5mm (1/4")	20	13
8mm (5/16")	26	17
10mm (3/8")	26	17
13mm (1/2")	28	19
16mm (5/8")	30	20





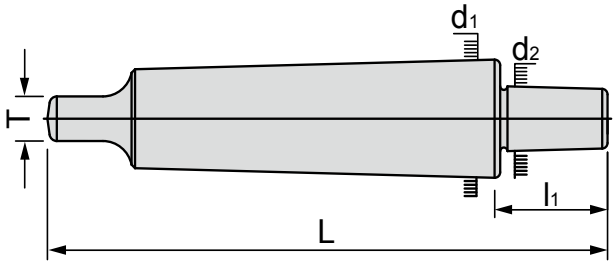
JT/ER 夾頭柄
JT/ER COLLET CHUCK



規格 Spec.	L	D	d	T	重量 (KGS) Weight
JT6-ER16-70	70	28	28	JT6	0.28
JT6-ER20-70	70	34	34	JT6	0.32

• 長度單位 Unit of Length (mm)

精密鑽頭柄
CA/MT DRILL SLEEVE



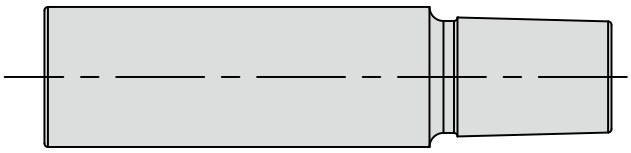
特點 Feature

- 全支熱處理研磨

-Grinding and heat treatment all support.

規格 Spec.	適用夾頭 Applicable Chuck	L	l_1	d_1	d_2	T	重量 (KGS) Weight
CA-MT2-JT6	1/2"	109.4	29.4	17.78	17.17	6.3	0.19
CA-MT3-JT6	1/2"	128.4	29.4	23.825	17.17	7.9	0.30
CA-MT4-JT6	1/2"	153.4	29.4	31.267	17.17	11.9	0.70
CA-MT5-JT6	1/2"	187.4	29.4	44.8	17.17	16.5	1.56

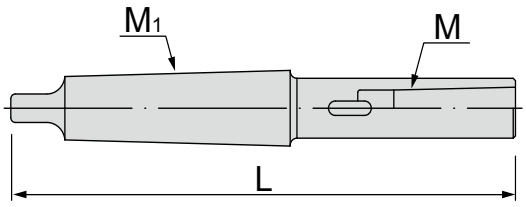
C/JT6 直柄鑽頭柄
C/JT6 DRILL SLEEVE



規格 Spec.	斜度 Taper	重量 (KGS) Weight
C20-JT6	JT6	0.19
C25-JT6	JT6	0.33
C32-JT6	JT6	0.50
C42-JT6	JT6	0.84

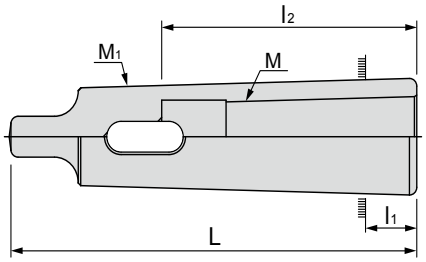
• 長度單位 Unit of Length (mm)

精密延長套筒
EXTENSION DRILL SLEEVE



規格 Spec. （內徑 X 外徑）	L	M	M_1	重量 (KGS) Weight
ES-MT1-MT2	160	MT1	MT2	0.25
ES-MT2-MT2	175	MT2	MT2	0.34
ES-MT3-MT2	196	MT3	MT2	0.57
ES-MT2-MT3	194	MT2	MT3	0.49
ES-MT3-MT3	215	MT3	MT3	0.71
ES-MT4-MT3	240	MT4	MT3	1.38
ES-MT2-MT4	215	MT2	MT4	0.83
ES-MT3-MT4	240	MT3	MT4	1.05
ES-MT4-MT4	265	MT4	MT4	1.72
ES-MT5-MT4	300	MT5	MT4	2.97
ES-MT3-MT5	268	MT3	MT5	2.03
ES-MT4-MT5	300	MT4	MT5	2.66
ES-MT5-MT5	335	MT5	MT5	4.18

精密套筒
PRECISION DRILL SLEEVE



特點 Feature

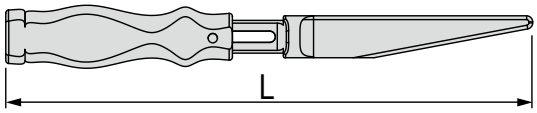
- 全支熱處理研磨

- Grinding and heat treatment all support.

規格 Spec. （內徑 - 外徑）	L	I_1	I_2	M	M_1	重量 (KGS) Weight
DS-MT1-MT2	92	17	56	MT1	MT2	0.10
DS-MT2-MT3	112	18	67	MT2	MT3	0.19
DS-MT2-MT4	124	6.5	67	MT2	MT4	0.45
DS-MT3-MT4	140	22.5	84	MT3	MT4	0.40
DS-MT4-MT5	171	21.5	107	MT4	MT5	0.96
DS-MT5-MT6	218	8	135	MT5	MT6	2.80

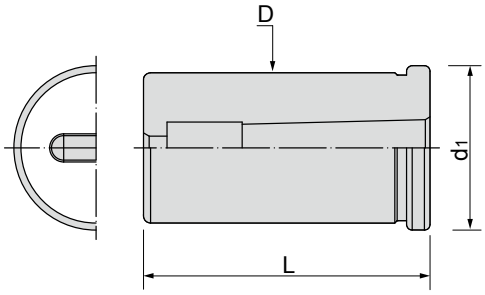
• 長度單位 Unit of Length (mm)

快速退鑽器
HAND DRIFT



規格 Spec.	適用主軸斜度 Taper	L	重量 (KGS) Weight
KP-1	#2, #3, #4, #5	380	1.23

直柄鑽頭套筒
MORSE TAPER SLEEVE



規格 Spec.	內孔斜度 Taper	L	D	d_1	重量 (KGS) Weight
C20-MT1	MT1	60	20	27	0.13
C20-MT2	MT2	70	20	27	0.12
C25-MT1	MT1	60	25	33	0.23
C25-MT2	MT2	70	25	33	0.20
C25-MT3	MT3	90	25	33	0.18
C32-MT1	MT1	60	32	37	0.36
C32-MT2	MT2	70	32	37	0.37
C32-MT3	MT3	90	32	37	0.36
C32-MT4	MT4	110	32	37	0.27
C42-MT2	MT2	70	42	47	0.82
C42-MT3	MT3	90	42	47	0.82
C42-MT4	MT4	110	42	47	0.77

• 長度單位 Unit of Length (mm)

Boring

搪孔模組化示意圖
Modular combination

搪刀類 Boring Cutter

SBJ

CSBJ/CCBJ

CBJ

CBI-Extension

SEB ST -W SBJ Sleeve

搪頭類 Boring Head

SBJ

CBI

SMB

SCK-C

RBH

RBH-LA

CBH

MBH

FBH55

延長桿類 Extension

異徑延長桿
Extension(Reducing)

等徑延長桿
Extension(Constant Dia.)

小接大異徑延長桿
Extension(Reducing)

直柄搪孔刀桿
Straight Boring Head Shank

直柄碳化鎢搪孔刀桿
Straight Tungsten Carbide
Boring Head Shank

MCK
CK

MCK.CK
Boring Head Shank

BST

BST
Boring Head Shank

搪頭類
Boring Head

SMB大孔徑(精搪)
Large Dia. Finish Boring Head

SRW大孔徑(粗搪)
Large Dia. Roughing Boring Head

CBH大孔徑(精搪)
Large Dia. Finish Boring Head

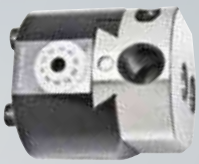
RBH-LA大孔徑(粗搪)
Large Dia. Roughing Boring Head

RBH120.160大孔徑(粗搪)
Large Dia. Roughing Boring Head

RBH200以上大孔徑(粗搪)
Large Dia. Roughing Boring Head

NBH

BT/NT 粗 / 精搪孔頭刀桿
BT/NT Boring Head Shank



NBH2084S 精密搪孔頭
NBH2084S Precision Boring Head

SBJ-20 替換式搪孔刀柄
SBJ-20 Interchangable Boring Cutter

Boring Head

SMB特點

搭配MCK系列刀桿並可與CK系統刀桿相容，
另有PSC三角錐結構可與BT-PSC刀桿結合，
並採模組化設計，連結不同長度之延長桿，
解決加工需求並有更多的搭配性。
微調單位:每刻度移動量為0.01mm。
替換式刀座設計，可模組化組合使用。

Suitable for combining with MCK series of tool holders as well as CK series of tool holders. Another PSC structure can be combined with BT-PSC arbor,The modular design connects the extension rods of different lengths to solve the processing needs and has more matching. Micro-adjustment unitl：each unit is 0.01mm.The insert seat has an exchangeable design and can be used after combination.

SIC-1　　SIC-2　　SIC-3

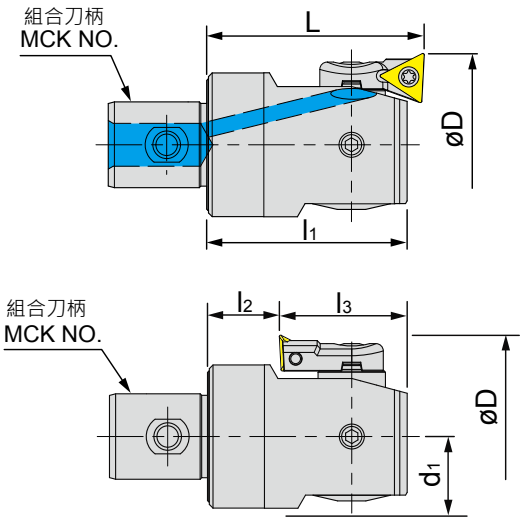
SIC刀座，可完全包覆住心軸，提升穩固性。
三種尺寸刀座，可加大搪孔範圍，搪孔範圍
Ø25~Ø203mm。2號及3號刀座，皆能做背
搪加工，1號刀座僅SMB53、SMB68、
SMB100，才能做背搪加工。

SIC insert holder can be completely coated to live spindle and enhance stability.Three type insert holder can increase the range of Boring, boring range Ø25 to Ø203mm.SIC-2 and SIC-3 insert holder can do back boring processing, SIC-1 insert holder can do back boring processing only SMB53、SMB68、SMB100.

Feature

SMB 超微米精搪頭
SMB SUPER MICRON EXCHANGEABLE FINISH BORING HEAD

台灣精品2009 TAIWAN EXCELLENCE



搪孔範圍	精度	最高轉速
ø25~203 Boring Range	0.01mm Accuracy	8000 Max. rpm

特點 Feature

- 精搪孔專用
- 微調單位 : 每刻度移動量為 ø0.01mm
- 搪頭內藏式出水孔，可以有效沖刷屑片，提高加工效果
- 替換式刀座設計，可模組化組合使用
- 組合搭配 MCK 系列刀桿或是共容於 CK 系列刀桿

- For finish boring.
- Micro-adjustment unit : each unit is 0.01 mm.
- The insert seat is designed to have a coolant holes at sides, which can remove the metal chips effectively and raise the manufacturing effect.
- The insert seat has an exchangeable design and can be used after modular.
- Suitable for combining with MCK series of tool holders as CK series of tool holders.

規格 Spec.	øD 搪孔範圍 Boring Range(正搪)				øD 搪孔範圍 Boring Range(背搪)					組合刀柄 Mck No.	刀片座 Insert Holder	刀片 Insert	重量 (KGS) Weight
	Min.	Max.	L	l1	Min.	Max.	l2	l3	d1				
SMB20	20	26	32.5	29.5	-	-	10.5	19.5	10	CK 1	SIB20-1/SIC20-1	TB..0601 TP..0802	0.07
	25	31	32.5	29.5	30	31	10.5	19.5	10	CK 1	SIB20-2/SIC20-2		0.07
	30	36	32.5	29.5	30	36	10.5	19.5	10	CK 1	SIB20-3/SIC20-3		0.07
SMB25	25	33	35.5	32.5	-	-	11.5	21	12.5	CK 2	SIB25-1/SIC25-1	TB..0601 TP..0802	0.12
	32	40	35.5	32.5	36	40	11.5	21	12.5	CK 2	SIB25-2/SIC25-2		0.12
	39	47	35.5	32.5	39	47	11.5	21	12.5	CK 2	SIB25-3/SIC25-3		0.12
SMB32	32	42	40	35	-	-	10	25	16	CK 3	SIB32-1/SIC32-1	TB..0601 TP..0802	0.21
	41	51	40	35	46	51	10	25	16	CK 3	SIB32-2/SIC32-2		0.21
	50	60	40	35	50	60	10	25	16	CK 3	SIB32-3/SIC32-3		0.21
SMB41	41	54	47	43	-	-	14	29	20	CK 4	SIB41-1/SIC41-1	TP..0902 TC..1102	0.40
	50	63	47	43	53	63	14	29	20	CK 4	SIB41-2/SIC41-2		0.40
	61	74	47	43	61	74	14	29	20	CK 4	SIB41-3/SIC41-3		0.40
SMB53	53	70	57	53	62	70	19	34	25.5	CK 5	SIB53-1/SIC53-1		1.10
	65	82	57	53	65	82	19	34	25.5	CK 5	SIB53-2/SIC53-2		1.10
	78	95	57	53	78	95	19	34	25.5	CK 5	SIB53-3/SIC53-3		1.10
SMB68	68	100	71	67.2	80	100	22	45.2	32.5	CK 6	SIB68-1/SIC68-1		1.74
	94	126	71	67.2	94	126	22	45.2	32.5	CK 6	SIB68-2/SIC68-2		1.74
	118	150	71	67.2	118	150	22	45.2	32.5	CK 6	SIB68-3/SIC68-3		1.74
SMB100	100	153	71	67.2	112	153	22	45.2	45.5	CK 6	SIB68-1/SIC68-1		2.46
	126	179	71	67.2	126	179	22	45.2	45.5	CK 6	SIB68-2/SIC68-2		2.46
	150	203	71	67.2	150	203	22	45.2	45.5	CK 6	SIB68-3/SIC68-3		2.46

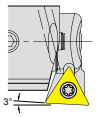
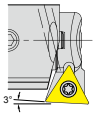
-SIB/C□□-1，SIB/C□□-2，SIB/C□□-3□□□ 需另購
-SIB/C□□-1，SIB/C□□-2，SIB/C□□-3 is ordered separately

• 長度單位 Unit of Length (mm)

BORING

SMB 超微米精搪頭刀片座
SMB SUPER MICRON EXCHANGEABLE FINISH BORING HEAD INSERT SEAT

3°

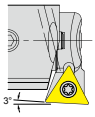
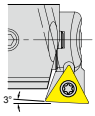
規格 Spec.	刀座形狀 Insert Holder	組合搪頭	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
SIB20-1	 ???? TB..0601 TP..0802	SMB20	M2-5.0-2.7-60	T6	0.6	-
SIB20-2						-
SIB20-3						-
SIB25-1		SMB25				-
SIB25-2						-
SIB25-3						-
SIB32-1		SMB32				-
SIB32-2						-
SIB32-3						-
SIB41-1	 ???? TP..0902 TC..1102	SMB41	M2.5-6.0-3.5-60	T8	1.2	-
SIB41-2						-
SIB41-3						-
SIB53-1		SMB53				-
SIB53-2						-
SIB53-3						-
SIB68-1		SMB68 SMB100				-
SIB68-2						-
SIB68-3						-

BORING

• 長度單位 Unit of Length (mm)

SMB 超微米精搪頭刀片座
SMB SUPER MICRON EXCHANGEABLE FINISH BORING HEAD INSERT SEAT

3°

規格 Spec.	刀座形狀 Insert Holder	組合搪頭	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
SIC20-1	 ???? TB..0601 TP..0802	SMB20	M2-5.0-2.7-60	T6	0.6	-
SIC20-2						-
SIC20-3						-
SIC25-1		SMB25				0.02
SIC25-2						0.02
SIC25-3						0.02
SIC32-1		SMB32				0.02
SIC32-2						0.02
SIC32-3						0.02
SIC41-1	 ???? TP..0902 TC..1102	SMB41	M2.5-6.0-3.5-60	T8	1.2	0.03
SIC41-2						0.03
SIC41-3						0.03
SIC53-1		SMB53				0.04
SIC53-2						0.04
SIC53-3						0.04
SIC68-1		SMB68 SMB100				0.06
SIC68-2						0.06
SIC68-3						0.06

• 長度單位 Unit of Length (mm)

SMB 搪孔刀片切削數據表
SMB BORING HEAD INSERT CUTTING CONDITIONS

規格 Spec.	Mck No.	工件材質 Material	刀片 Insert		切削速度 (m/min)	切削量 (mm/Ø)	進給量 (mm/rev)	
			刀片 R 角	刀片材質 Insert Material			推薦值	Max.
SMB20	MCK1 CK1	碳鋼、合金鋼 Carbon steel . Alloyed Steels	0.2/0.4	RM4030 RM1205 CBN250 CBN500 RM5005 PCD	180 120 60 180 200 400	0.15 0.15 0.10 0.15 0.20 0.20	0.06 0.06 0.06 0.06 0.10 0.06	0.15 0.15 0.10 0.10 0.15 0.15
		不鏽鋼 Stainless Steels						
		鑄鐵 Cast Iron						
		球墨鑄鐵 Nodular Cast Iron						
		鋁合金 Aluminum Alloy						
SMB25	MCK2 CK2	碳鋼、合金鋼 Carbon steel . Alloyed Steels	0.2/0.4	RM4030 RM1205 CBN250 CBN500 RM5005 PCD	180 120 60 180 200 400	0.15 0.15 0.10 0.15 0.20 0.20	0.06 0.06 0.06 0.06 0.10 0.06	0.15 0.15 0.10 0.10 0.15 0.15
		不鏽鋼 Stainless Steels						
		鑄鐵 Cast Iron						
		球墨鑄鐵 Nodular Cast Iron						
		鋁合金 Aluminum Alloy						
SMB32	MCK3 CK3	碳鋼、合金鋼 Carbon steel . Alloyed Steels	0.2/0.4	RM4030 RM1205 CBN250 CBN500 RM5005 PCD	180 150 80 200 300 800	0.20 0.20 0.10 0.15 0.25 0.25	0.06 0.06 0.06 0.06 0.10 0.10	0.15 0.15 0.10 0.10 0.15 0.15
		不鏽鋼 Stainless Steels						
		鑄鐵 Cast Iron						
		球墨鑄鐵 Nodular Cast Iron						
		鋁合金 Aluminum Alloy						
SMB41	MCK4 CK4	碳鋼、合金鋼 Carbon steel . Alloyed Steels	0.2/0.4	RM4030 RM1205 CBN250 CBN500 RM5005 PCD	180 150 80 200 300 800	0.25 0.25 0.10 0.20 0.30 0.30	0.06 0.06 0.08 0.10 0.12 0.12	0.15 0.15 0.10 0.10 0.15 0.15
		不鏽鋼 Stainless Steels						
		鑄鐵 Cast Iron						
		球墨鑄鐵 Nodular Cast Iron						
		鋁合金 Aluminum Alloy						
SMB53	MCK5 CK5	碳鋼、合金鋼 Carbon steel . Alloyed Steels	0.2/0.4	RM4030 RM1205 CBN250 CBN500 RM5005 PCD	180 150 80 200 300 800	0.25 0.25 0.10 0.20 0.30 0.30	0.10 0.10 0.10 0.10 0.16 0.12	0.15 0.15 0.10 0.10 0.28 0.15
		不鏽鋼 Stainless Steels						
		鑄鐵 Cast Iron						
		球墨鑄鐵 Nodular Cast Iron						
		鋁合金 Aluminum Alloy						
SMB68 **SMB100**	MCK6 CK6	碳鋼、合金鋼 Carbon steel . Alloyed Steels	0.2/0.4	RM4030 RM1205 CBN250 CBN500 RM5005 PCD	180 150 80 200 300 800	0.25 0.25 0.10 0.20 0.30 0.30	0.10 0.10 0.10 0.10 0.16 0.12	0.15 0.15 0.10 0.10 0.28 0.15
		不鏽鋼 Stainless Steels						
		鑄鐵 Cast Iron						
		球墨鑄鐵 Nodular Cast Iron						
		鋁合金 Aluminum Alloy						

- 本表是切削數據的設定基準，請視當時的機床、工件材質、鐵屑的排出情況做適當的調整。
-The cutting data table is set benchmarks, please make the appropriate adjustments depend on the situation which machine tools, workpiece materials, iron chips discharge.

• 長度單位 Unit of Length (mm)

BT/SMB 微調精搪孔頭刀桿
BT/SMB BORING HEAD SHANK

Fig.1

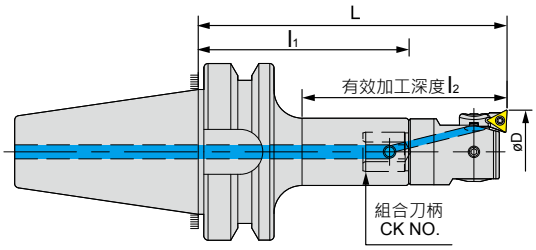
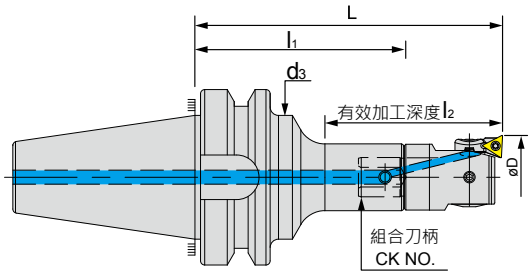


Fig.2

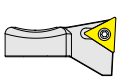
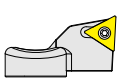
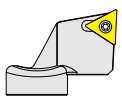


搪孔範圍 Boring Range	精度 Accuracy	最高轉速 Max. rpm
ø25~203	0.01mm	8000

規格 Spec.	øD 搪孔範圍 Boring Range		搪孔組合 Combination		組合刀柄 ck No.	L	l_1	有效加工深度 l_2	Fig.	重量 (KGS) Weight
	Min.	Max.	刀桿 Shank	搪頭 Boring Head						
BT30-SMB25-115	25	47	BT30-CK2-80	SMB25	CK2	115.5	80	85.5	1	0.92
BT30-SMB32-120	32	60	BT30-CK3-80	SMB32	CK3	120	80	96	1	1.11
BT30-SMB41-117	41	74	BT30-CK4-70	SMB41	CK4	117	70	87	1	1.40
BT30-SMB53-117	53	95	BT30-CK5-60	SMB53	CK5	117	60	87	1	2.20
BT30-SMB68-131	68	150	BT30-CK6-60	SMB68	CK6	131	60	101	1	1.94
BT30-SMB100-131	100	203	BT30-CK6-60	SMB100	CK6	131	60	101	1	-
BT40-SMB25-120	25	47	BT40-CK2-85	SMB25	CK2	120.5	85	85.5	2	1.32
BT40-SMB32-135	32	60	BT40-CK3-95	SMB32	CK3	135	95	100	1	1.51
BT40-SMB41-132	41	74	BT40-CK4-85	SMB41	CK4	132	85	97	1	1.85
BT40-SMB41-177	41	74	BT40-CK4-130	SMB41	CK4	177	130	142	1	1.90
BT40-SMB53-132	53	95	BT40-CK5-75	SMB53	CK5	132	75	97	1	2.80
BT40-SMB53-182	53	95	BT40-CK5-125	SMB53	CK5	182	125	147	1	3.05
BT40-SMB68-136	68	150	BT40-CK6-65	SMB68	CK6	136	65	101	1	3.89
BT40-SMB100 -136	100	203	BT40-CK6-65	SMB100	CK6	136	65	101	1	-

- 標準配備附為 SIB□□-1 刀片座，SIB□□-2，SIB□□-3 需另購。
- 訂購時請說明使用刀座型號。
- SIB□SIC 刀片的相關資料請參照 B688-B689。
- 刀片座有三種型式可交換使用，增大加工範圍。
< 例 >BT50-SMB25-140 不同刀片座的加工範圍。

- Standard mating part SIB□□ -1. SIB/C □□ -2 , SIB/C□□ -3 is ordered separately.
- Please inform the spec / model no. for insert holder when ordering.
- For related information of SIB, SIC inserts, please refer to A688-A689.
- There are three kinds of insert holders for selection for the different cutting range.
for example: BT50-SMB25-140 has different cutting range for different insert holder.

標準型刀片座 Standard insert holder	另購型刀片座 In additional purchased insert holder	
SIB25-1	SIB25-2	SIB25-3
Ø25~Ø33	Ø32~Ø40	Ø39~Ø47
		

BORING

• 長度單位 Unit of Length (mm)

BT/SMB 微調精搪孔頭刀桿
BT/SMB BORING HEAD SHANK

Fig.1

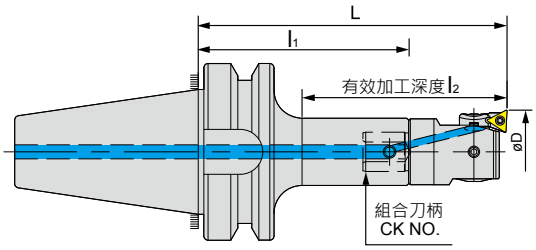
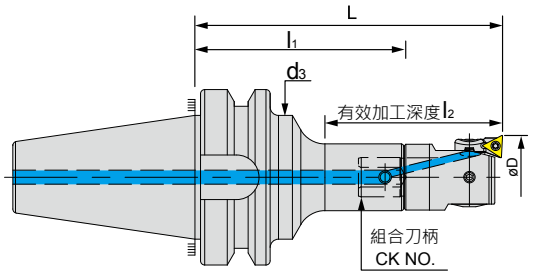


Fig.2



搪孔範圍	精度	最高轉速
ø25~203	0.01mm	8000
Boring Range	Accuracy	Max. rpm

規格 Spec.	øD 搪孔範圍 Boring Range		搪孔組合 Combination		組合刀柄 ck No.	L	l1	有效加工深度 l2	Fig.	重量 (KGS) Weight
	Min.	Max.	刀桿 Shank	搪頭 Boring Head						
BT50-SMB25-145	25	47	BT50-CK2-110	SMB25	CK2	145	110	100.5	2	4.12
BT50-SMB25-175	25	47	BT50-CK2-140	SMB25	CK2	175	140	130.5	2	4.22
BT50-SMB32-165	32	60	BT50-CK3-125	SMB32	CK3	165	125	120	1	4.61
BT50-SMB32-195	32	60	BT50-CK3-155	SMB32	CK3	195	155	150	1	4.81
BT50-SMB41-162	41	74	BT50-CK4-115	SMB41	CK4	162	115	117	1	5.20
BT50-SMB41-192	41	74	BT50-CK4-145	SMB41	CK4	192	145	147	1	5.60
BT50-SMB53-162	53	95	BT50-CK5-105	SMB53	CK5	162	105	117	1	6.50
BT50-SMB53-237	53	95	BT50-CK5-180	SMB53	CK5	237	180	192	1	7.30
BT50-SMB53-297	53	95	BT50-CK5-240	SMB53	CK5	297	240	252	1	7.50
BT50-SMB68-166	68	150	BT50-CK6-95	SMB68	CK6	166	95	121	1	7.65
BT50-SMB68-241	68	150	BT50-CK6-170	SMB68	CK6	241	170	196	1	8.25
BT50-SMB68-301	68	150	BT50-CK6-230	SMB68	CK6	301	230	256	1	8.65
BT50-SMB68-361	68	150	BT50-CK6-290	SMB68	CK6	361	290	316	1	-
BT50-SMB68-421	68	150	BT50-CK6-350	SMB68	CK6	421	350	371	1	-
BT50-SMB100-166	100	203	BT50-CK6-95	SMB100	CK6	166	95	121	1	-
BT50-SMB100-241	100	203	BT50-CK6-170	SMB100	CK6	241	170	196	1	-
BT50-SMB100-301	100	203	BT50-CK6-230	SMB100	CK6	301	230	256	1	-
BT50-SMB100-361	100	203	BT50-CK6-290	SMB100	CK6	361	290	316	1	-
BT50-SMB100-421	100	203	BT50-CK6-350	SMB100	CK6	421	350	371	1	-

- 標準配備附為 SIB□-1 刀片座，SIB□-2，SIB□-3 需另購。
- 訂購時請說明使用刀座型號。
- SIB□SIC 刀片的相關資料請參照 B688-B689。
- 刀片座有三種型式可交換使用，增大加工範圍。

< 例 >BT50-SMB25-140 不同刀片座的加工範圍。

標準型刀片座 Standard insert holder	另購型刀片座 In additional purchased insert holder	
SIB25-1	SIB25-2	SIB25-3
Ø25~Ø33	Ø32~Ø40	Ø39~Ø47

- Standard mating part SIB□ -1. SIB/C □ -2 , SIB/C□ -3 is ordered separately.
- Please inform the spec / model no. for insert holder when ordering.
- For related information of SIB, SIC inserts, please refer to A688-A689.
- There are three kinds of insert holders for selection for the different cutting range. for example: BT50-SMB25-140 has different cutting range for different insert holder.

• 長度單位 Unit of Length (mm)

Feature

SCK特點

微調單位：每一刻度移動量1mm，直徑為Ø2mm，搪孔範圍Ø24~Ø220mm
Micro-adjustment unitl:1mm of each,diameter Ø2mm, boring range Ø24 ~ Ø220mm.

使用CCMT刀片，適合重切削及斷續切削，SCK80102-C採用替換式刀座設計，增加搪孔範圍，並可降低維修成本

Use CCMT inserts are suitable for rough boring, heavy and interrupted cutting. The insert seat of SCK80102-C type has an exchangeable design , increase the range of boring and reduces maintenance costs.

微調螺絲，轉動時雙刃可同時移動

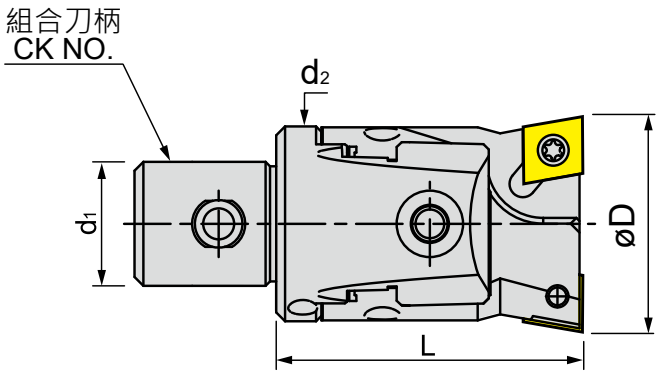
Fine-tuning screw, two insert seats at the same time move.

採一體式本體，加強包覆刀座力量

Adopt one body, Strengthen the inserts seat strength.

Boring Head

SCK 可調式雙刃粗搪孔頭
SCK ROUGHING TWIN ADJUSTMENT BORING HEAD



搪孔範圍	精度
ø24~220	0.2mm
Boring Range	Accuracy

特點 Feature

- 雙刃微調同時移動，適用於大進給 (F) 切削

-Both inserts operate with a fine adjustment and simultaneous movenment, suitable for big feeding (F) cutting.

規格 Spec.	øD 搪孔範圍 Boring Range		組合刀柄 Mck No.	L	d_1	d_2	鎖固螺絲 Screw	鎖固扳手 Wrench	扭力值 (N.m) Torque	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
	Min.	Max.												
SCK2430-C	24	30	CK2	34	14	22	M4	PL3	3.0	CC..0602	M2.5-6.45-3.7-43	T8	1.4	0.19
SCK2940-C	29	40	CK2	42	14	27	M5	PL4	4.0	CC..09T3	M4-10-5.7-60	T15	3.0	0.19
SCK3950-C	39	50	CK3	45	18	32	M5	PL4	5.0	CC..09T3	M4-10-5.7-60	T15	3.0	0.19
SCK4965-C	49	65	CK4	56	22	42	M6	PL5	6.0	CC..1204	M5-11-7.5-60	T20	5.0	0.10
SCK6382-C	63	82	CK5	66	28	54	M8	PL6	10.0	CC..1204	M5-11-7.5-60	T20	5.0	0.20
SCK80102-C	80	102	CK6	86	36	68	M10	PL8	12.0	CC..1204	M5-11-7.5-60	T20	5.0	2.30
SCK100125-C	100	125	MCK7	100	46	85	M10	PL8	12.0	CC..1204	M5-11-7.5-60	T20	5.0	4.00
SCK125160-C	125	160	MCK7	100	46	110	M10	PL8	12.0	CC..1204	M5-11-7.5-60	T20	5.0	6.16
SCK160220-C	160	220	MCK7	100	46	145	M10	PL8	12.0	CC..1204	M5-11-7.5-60	T20	5.0	8.10

CCMT 刀片適用粗搪、重及斷續切削。
CCMT inserts are suitable for rough boring, heavy and interrupted cutting.

BORING

• 長度單位 Unit of Length (mm)

BT/SCK 搪孔頭刀桿
BT/SCK BORING HEAD SHANK

搪孔範圍 ø24~220 Boring Range

精度 0.2mm Accuracy

Fig.1

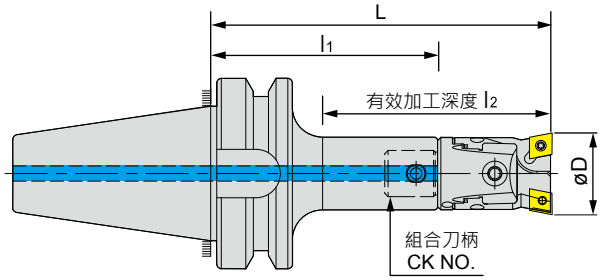
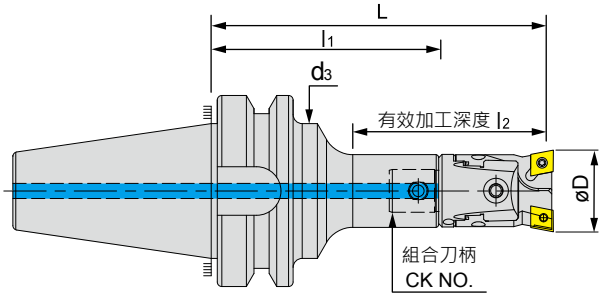


Fig.2



規格 Spec.	øD 搪孔範圍 Boring Range		搪孔組合 Combination		組合刀柄 ck No.	L	l_1	有效加工深度 l_2	Fig.	重量 (KGS) Weight
	Min.	Max.	刀桿 Shank	搪頭 Boring Head						
BT30-SCK2430C-114	24	30	BT30-CK2-80	SCK2430-C	CK2	114	80	84	1	1.17
BT30-SCK2940C-122	30	40	BT30-CK2-80	SCK2940-C	CK2	122	80	92	1	1.21
BT30-SCK3950C-125	39	50	BT30-CK3-80	SCK3950-C	CK3	125	80	95	1	1.31
BT30-SCK4965C-126	49	65	BT30-CK4-70	SCK4965-C	CK4	126	70	96	1	1.59
BT30-SCK6382C-126	63	82	BT30-CK5-60	SCK6382-C	CK5	126	60	96	1	1.75
BT30-SCK80102C-146	80	102	BT30-CK6-60	SCK80102-C	CK6	146	60	116	1	2.25
BT40-SCK2430C-119	24	30	BT40-CK2-85	SCK2430-C	CK2	119	85	84	2	1.57
BT40-SCK2940C-127	30	40	BT40-CK2-85	SCK2940-C	CK2	127	85	92	2	1.61
BT40-SCK3950C-140	39	50	BT40-CK3-95	SCK3950-C	CK3	140	95	105	1	1.71
BT40-SCK4965C-141	49	65	BT40-CK4-85	SCK4965-C	CK4	141	85	106	1	2.04
BT40-SCK4965C-186	49	65	BT40-CK4-130	SCK4965-C	CK4	186	130	151	1	2.09
BT40-SCK6382C-141	63	82	BT40-CK5-75	SCK6382-C	CK5	141	75	106	1	2.35
BT40-SCK6382C-191	63	82	BT40-CK5-125	SCK6382-C	CK5	191	125	156	1	2.60
BT40-SCK80102C-151	80	102	BT40-CK6-65	SCK80102-C	CK6	151	65	116	1	3.20

選配表 Option

拉頭 Pull Stud

B645-B647

• 長度單位 Unit of Length (mm)

BT/SCK 搪孔頭刀桿
BT/SCK BORING HEAD SHANK

搪孔範圍 ø24~220 Boring Range

精度 0.2mm Accuracy

Fig.1

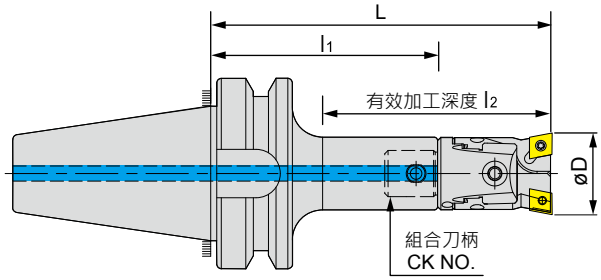
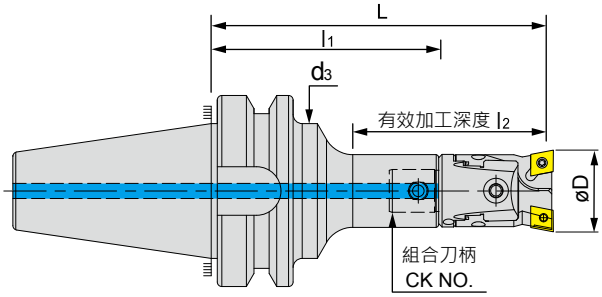


Fig.2



規格 Spec.	øD 搪孔範圍 Boring Range		搪孔組合 Combination		組合刀柄 ck No.	L	l_1	有效加工深度 l_2	Fig.	重量 (KGS) Weight
	Min.	Max.	刀桿 Shank	搪頭 Boring Head						
BT50-SCK2430C-144	24	30	BT50-CK2-110	SCK2430-C	CK2	144	110	99	2	4.37
BT50-SCK2430C-174	24	30	BT50-CK2-140	SCK2430-C	CK2	174	140	129	2	4.47
BT50-SCK2940C-152	30	40	BT50-CK2-110	SCK2940-C	CK2	152	110	107	2	4.41
BT50-SCK2940C-182	30	40	BT50-CK2-140	SCK2940-C	CK2	182	140	137	2	4.51
BT50-SCK3950C-170	39	50	BT50-CK3-125	SCK3950-C	CK3	170	125	125	1	4.81
BT50-SCK3950C-200	39	50	BT50-CK3-155	SCK3950-C	CK3	200	155	155	1	5.01
BT50-SCK4965C-171	49	65	BT50-CK4-115	SCK4965-C	CK4	171	115	126	1	5.39
BT50-SCK4965C-201	49	65	BT50-CK4-145	SCK4965-C	CK4	201	145	156	1	5.79
BT50-SCK6382C-171	63	82	BT50-CK5-105	SCK6382-C	CK5	171	105	126	1	6.05
BT50-SCK6382C-246	63	82	BT50-CK5-180	SCK6382-C	CK5	246	180	201	1	6.85
BT50-SCK6382C-306	63	82	BT50-CK5-240	SCK6382-C	CK5	306	240	261	1	7.05
BT50-SCK80102C-181	80	102	BT50-CK6-95	SCK80102-C	CK6	181	95	136	1	6.95
BT50-SCK80102C-256	80	102	BT50-CK6-170	SCK80102-C	CK6	256	170	211	1	7.55
BT50-SCK80102C-316	80	102	BT50-CK6-230	SCK80102-C	CK6	316	230	271	1	7.95
BT50-SCK80102C-376	80	102	BT50-CK6-290	SCK80102-C	CK6	376	290	331	1	-
BT50-SCK80102C-436	80	102	BT50-CK6-350	SCK80102-C	CK6	436	350	386	1	-

選配表 Option

拉頭 Pull Stud

B645-B647

• 長度單位 Unit of Length (mm)

搪孔刀片切削數據表
BORING HEAD INSERT CUTTING CONDITIONS

規格	Mck No.	工件材質	刀片		切削速度 (m/min)	切削量 (mm/Ø)		進給量 (mm/rev)	
			刀片 R 角	刀片材質		推薦值	Max.	推薦值	Max.
SCK2430-C	MCK2 CK2	碳鋼、合金鋼 Carbon steel . Alloyed Steels	0.4/0.8	RM4035	140	2.5	3.5	0.25	0.35
		不鏽鋼 Stainless Steels		OM4010	140	2.0	3.0	0.25	0.35
		鑄鐵 Cast Iron		RM315	120	2.5	3.5	0.30	0.35
		鋁合金 Aluminum Alloy		RM5005	160	3.5	4.5	0.35	0.40
SCK2940-C	MCK2 CK2	碳鋼、合金鋼 Carbon steel . Alloyed Steels	0.4/0.8	RM4035	140	3.5	4.0	0.25	0.40
		不鏽鋼 Stainless Steels		OM4010	140	3.0	4.0	0.30	0.35
		鑄鐵 Cast Iron		RM315	120	3.5	4.0	0.35	0.40
		鋁合金 Aluminum Alloy		RM5005	160	4.0	5.0	0.40	0.45
SCK3950-C	MCK3 CK3	碳鋼、合金鋼 Carbon steel . Alloyed Steels	0.4/0.8	RM4035	140	4.5	5.5	0.30	0.45
		不鏽鋼 Stainless Steels		OM4010	140	4.0	5.5	0.35	0.45
		鑄鐵 Cast Iron		RM315	120	4.5	5.5	0.40	0.45
		鋁合金 Aluminum Alloy		RM5005	160	6.0	8.0	0.45	0.50
SCK4965-C	MCK4 CK4	碳鋼、合金鋼 Carbon steel . Alloyed Steels	0.4/0.8	RM4035	140	6.0	8.0	0.30	0.50
		不鏽鋼 Stainless Steels		OM4010	140	6.0	8.0	0.40	0.45
		鑄鐵 Cast Iron		RM315	120	6.0	8.0	0.45	0.50
		鋁合金 Aluminum Alloy		RM5005	160	8.0	10.0	0.45	0.55
SCK6382-C	MCK5 CK5	碳鋼、合金鋼 Carbon steel . Alloyed Steels	0.4/0.8	RM4035	140	6.0	8.0	0.35	0.50
		不鏽鋼 Stainless Steels		OM4010	140	6.0	8.0	0.40	0.45
		鑄鐵 Cast Iron		RM315	120	6.0	8.0	0.45	0.50
		鋁合金 Aluminum Alloy		RM5005	160	8.0	10.0	0.45	0.55
SCK80102-C	MCK6 CK6	碳鋼、合金鋼 Carbon steel . Alloyed Steels	0.4/0.8	RM4035	140	6.0	8.0	0.35	0.50
		不鏽鋼 Stainless Steels		OM4010	140	6.0	8.0	0.40	0.45
		鑄鐵 Cast Iron		RM315	120	6.0	8.0	0.45	0.50
		鋁合金 Aluminum Alloy		RM5005	160	8.0	10.0	0.45	0.55
SCK100125-C SCK125160-C SCK160220-C	MCK7	碳鋼、合金鋼 Carbon steel . Alloyed Steels	0.4/0.8	RM4035	140	6.0	8.0	0.35	0.50
		不鏽鋼 Stainless Steels		OM4010	140	6.0	8.0	0.40	0.45
		鑄鐵 Cast Iron		RM315	120	6.0	8.0	0.45	0.50
		鋁合金 Aluminum Alloy		RM5005	160	8.0	10.0	0.45	0.55

- 本表是切削數據的設定基準，請視當時的機床、工件材質、鐵屑的排出情況做適當的調整

-The cutting data table is set benchmarks, please make the appropriate adjustments depend on the situation which machine tools, workpiece materials, iron chips discharge.

• 長度單位 Unit of Length (mm)

CK 搪孔頭刀桿
CK BORING HEAD SHANK

細牙
Fine Teeth

Fig.1

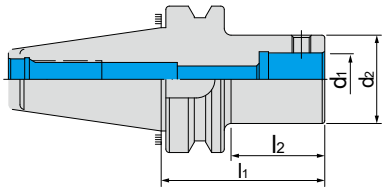
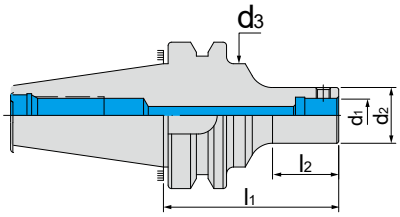


Fig.2



特點 Feature

- 內孔公差 H6
- 整支通孔，利於出水及抗震
- 可共用並互容於大多數 "CK" 系列
- 側邊鎖固螺絲與鍵槽呈 90 度，確保搪孔切削完畢時的相對位置
- 鎖固時請使用螺絲防卡油防止因搪孔加工扭力過大，導致螺絲卡死難以拆卸組裝

- Internal tolerance is H6.
- The tool holder with through coolant design is better for water to get through vibration resistance
- Compatible tolerance in most of the "CK" series.
- Side of the locking screw and keyway was 90 degrees, to ensure that the relative position of the conclusion of the boring cutting.
- Use locking screw preventing oil to prevent excessive torque due to boring processing, resulting in seizure of the thread is difficult to remove the assembly screws.

規格 Spec.	l_1	l_2	d_1	d_2	d_3	側邊螺絲 Screw	Fig.	重量 (KGS) Weight
BT30-CK1-70L	70	40	11	19	-	M4-0.5P-5L	1	0.50
BT30-CK2-80L	80	50	14	24	-	M5-0.5P-6.5L	1	0.60
BT30-CK3-80L	80	50	18	31	-	M6-0.75P-8L	1	0.70
BT30-CK4-70L	70	40	22	39	-	M8-0.75P-11L	1	0.80
BT30-CK5-60L	60	30	28	50	-	M10-1.0P-14L	1	0.80
BT30-CK6-60L	60	30	36	64	-	M12-1.0P-18L	1	1.00
BT40-CK1-75L	75	40	11	19	-	M4-0.5P-5L	1	1.00
BT40-CK1-105L	105	70	11	19	-	M4-0.5P-5L	1	1.20
BT40-CK2-85L	85	50	14	24	-	M5-0.5P-6.5L	1	1.10
BT40-CK2-115L	115	80	14	24	-	M5-0.5P-6.5L	1	1.40
BT40-CK3-95L	95	60	18	31	-	M6-0.75P-8L	1	1.20
BT40-CK3-125L	125	90	18	31	-	M6-0.75P-8L	1	1.50
BT40-CK3-155L	155	120	18	31	-	M6-0.75P-8L	1	1.70
BT40-CK4-85L	85	50	22	39	-	M8-0.75P-11L	1	1.30
BT40-CK4-130L	130	95	22	39	-	M8-0.75P-11L	1	1.90
BT40-CK4-175L	175	140	22	39	-	M8-0.75P-11L	1	2.20
BT40-CK5-75L	75	40	28	50	-	M10-1.0P-14L	1	1.30
BT40-CK5-125L	125	90	28	50	-	M10-1.0P-14L	1	2.30
BT40-CK5-175L	175	140	28	50	-	M10-1.0P-14L	1	3.00
BT40-CK6-65L	65	30	36	64	-	M12-1.0P-18L	1	1.30
BT40-CK6-115L	115	80	36	64	-	M12-1.0P-18L	1	2.70
BT40-CK6-165L	165	130	36	64	-	M12-1.0P-18L	1	3.90

選配表 Option

拉頭 Pull Stud	延長桿 Extension Spacer	搪頭 Boring Head					
B645-B647	B708-B709	B687	B694	B746	B717	B727	B730

• 長度單位 Unit of Length (mm)

CK 搪孔頭刀桿
CK BORING HEAD SHANK

細牙
Fine Teeth

Fig.1

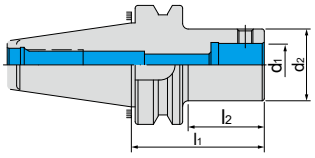
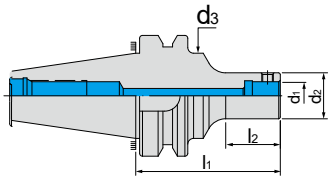


Fig.2



規格 Spec.	l_1	l_2	d_1	d_2	d_3	側邊螺絲 Screw	Fig.	重量 (KGS)Weight
BT50-CK1-115L	115	40	11	19	31	M4-0.5P-5L	2	4.00
BT50-CK1-145L	145	70	11	19	31	M4-0.5P-5L	2	4.10
BT50-CK2-110L	110	65	14	24	-	M5-0.5P-6.5L	1	3.90
BT50-CK2-140L	140	95	14	24	-	M5-0.5P-6.5L	1	4.00
BT50-CK3-125L	125	80	18	31	-	M6-0.75P-8L	1	4.10
BT50-CK3-155L	155	110	18	31	-	M6-0.75P-8L	1	4.20
BT50-CK4-115L	115	70	22	39	-	M8-0.75P-11L	1	4.30
BT50-CK4-145L	145	100	22	39	-	M8-0.75P-11L	1	4.40
BT50-CK4-175L	175	130	22	39	-	M8-0.75P-11L	1	4.80
BT50-CK4-205L	205	160	22	39	-	M8-0.75P-11L	1	4.90
BT50-CK5-105L	105	60	28	50	-	M10-1.0P-14L	1	4.50
BT50-CK5-180L	180	135	28	50	-	M10-1.0P-14L	1	5.50
BT50-CK5-240L	240	195	28	50	-	M10-1.0P-14L	1	6.20
BT50-CK5-300L	300	195	28	50	64	M10-1.0P-14L	2	7.60
BT50-CK6-95L	95	50	36	64	-	M12-1.0P-18L	1	4.50
BT50-CK6-170L	170	125	36	64	-	M12-1.0P-18L	1	6.30
BT50-CK6-230L	230	185	36	64	-	M12-1.0P-18L	1	7.60
BT50-CK6-290L	290	245	36	64	-	M12-1.0P-18L	1	9.00
BT50-CK6-350L	350	300	36	64	90	M12-1.0P-18L	2	13.5
BT50-CK7R-100	100	55	58	88	-	M12-1.0P-18L	1	4.80
BT50-CK7R-150	150	105	58	88	-	M12-1.0P-18L	1	6.50
BT50-CK7R-200	200	155	58	88	-	M12-1.0P-18L	1	8.00
BT50-CK7R-250	250	205	58	88	-	M12-1.0P-18L	1	9.00
BT50-CK7R-300	300	255	58	88	-	M12-1.0P-18L	1	10.00
BT50-CK7R-350	350	305	58	88	-	M12-1.0P-18L	1	12.00
BT50-CK7R-400	400	355	58	88	-	M12-1.0P-18L	1	14.00
BT50-CK7R-450	450	405	58	88	-	M12-1.0P-18L	1	17.10
BT50-CK7R-500	500	455	58	88	-	M12-1.0P-18L	1	18.70
BT50-CK7R-550	550	505	58	88	-	M12-1.0P-18L	1	20.40
HSK100A-CK7R-100	100	66	58	88	-	M12-1.0P-18L	1	-
HSK100A-CK7R-150	150	116	58	88	-	M12-1.0P-18L	1	-
HSK100A-CK7R-200	200	166	58	88	-	M12-1.0P-18L	1	-
HSK100A-CK7R-250	250	216	58	88	-	M12-1.0P-18L	1	-
HSK100A-CK7R-300	300	266	58	88	-	M12-1.0P-18L	1	-
HSK100A-CK7R-350	350	316	58	88	-	M12-1.0P-18L	1	-
HSK100A-CK7R-400	400	366	58	88	-	M12-1.0P-18L	1	-
HSK100A-CK7R-450	450	416	58	88	-	M12-1.0P-18L	1	-

選配表 Option

拉頭 Pull Stud	延長桿 Extension Spacer	搪頭 Boring Head					
B645-B647	B708-B709	B687	B694	B746	B717	B727	B730

• 長度單位 Unit of Length (mm)

SBT/MCK 法蘭加厚型搪孔刀柄
SBT/MCK DUAL DRIVE BORING HEAD SHANK

雙面拘束 Dual Contact | **細牙 Fine Teeth**

Fig.1

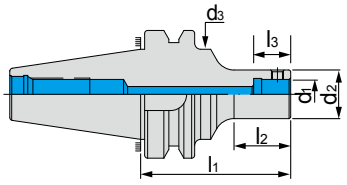
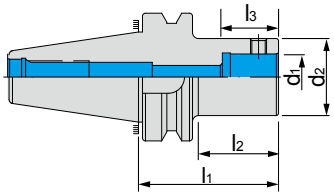


Fig.2



特點 Feature

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- 可共用並互容於大多數 "CK" 系列
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- Sharing and mutual tolerance in most of the"CK" series.
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規格 Spec.	l_1	l_2	l_3	d_1	d_2	d_3	側邊螺絲 Screw	Fig.	重量 (KGS) Weight
SBT30-MCK1-55	55	28	18	11	19	-	M4-0.5P	2	0.70
SBT30-MCK1-70	70	43	18	11	19	-	M4-0.5P	2	0.80
SBT30-MCK2-60	60	33	18.5	14	23.5	-	M5-0.5P	2	0.80
SBT30-MCK2-75	75	48	18.5	14	23.5	-	M5-0.5P	2	0.80
SBT30-MCK2-80	80	53	18.5	14	23.5	-	M5-0.5P	2	0.81
SBT30-MCK3-50	50	26	24	18	31	-	M6-0.75P	2	0.90
SBT30-MCK3-80	80	56	24	18	31	-	M6-0.75P	2	0.95
SBT30-MCK4-60	60	37	22	22	39	-	M8-0.75P	2	1.00
SBT30-MCK4-70	70	47	29	22	39	-	M8-0.75P	2	1.00
SBT30-MCK5-70	70	47	35	28	50	-	M10-1.0P	2	1.10
SBT30-MCK6-60	60	38	42	36	63	-	M12-1.0P	2	1.20
SBT40-MCK1-100	100	51	18	11	19	44.45	M4-0.5P	1	1.48
SBT40-MCK1-115	115	66	18	11	19	44.45	M4-0.5P	1	1.30
SBT40-MCK2-75	75	28	18.5	14	23.5	44.45	M5-0.75P	1	1.14
SBT40-MCK2-85	85	38	18.5	14	23.5	44.45	M5-0.75P	1	1.24
SBT40-MCK2-115	115	68	18.5	14	23.5	44.45	M5-0.75P	1	1.30
SBT40-MCK3-80	80	48	24	18	31	-	M6-0.75P	2	1.22
SBT40-MCK3-95	95	63	24	18	31	-	M6-0.75P	2	1.32
SBT40-MCK3-125	125	93	24	18	31	-	M6-0.75P	2	1.40
SBT40-MCK3-155	155	123	24	18	31	-	M6-0.75P	2	1.42
SBT40-MCK4-70	70	40	28	22	39	-	M8-0.75P	2	1.50
SBT40-MCK4-100	100	70	28	22	39	-	M8-0.75P	2	1.56
SBT40-MCK4-130	130	98	28	22	39	-	M8-0.75P	2	1.66
SBT40-MCK4-175	175	143	28	22	39	-	M8-0.75P	2	1.76
SBT40-MCK5-60	60	30	35	28	50	-	M10-1.0P	2	1.30
SBT40-MCK5-80	80	51	35	28	50	-	M10-1.0P	2	1.60
SBT40-MCK5-125	125	96	35	28	50	-	M10-1.0P	2	1.70
SBT40-MCK5-175	175	146	35	28	50	-	M10-1.0P	2	1.90
SBT40-MCK6-55	55	28	42	36	63	-	M12-1.0P	2	2.15
SBT40-MCK6-65	65	38	42	36	63	-	M12-1.0P	2	2.20
SBT40-MCK6-115	115	88	42	36	63	-	M12-1.0P	2	2.40
SBT40-MCK6-165	165	138	42	36	63	-	M12-1.0P	2	2.50

選配表 Option

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SBT/MCK DUAL DRIVE BORING HEAD SHANK

雙面拘束 Dual Contact **細牙 Fine Teeth**

Fig.1

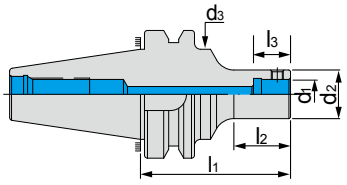
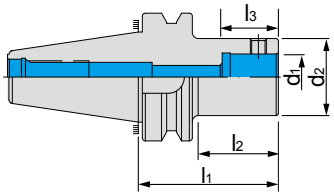


Fig.2



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SBT50-MCK1-105	105	38	18	11	19	69.85	M4-0.5P	1	3.90
SBT50-MCK1-115	115	48	18	11	19	69.85	M4-0.5P	1	3.90
SBT50-MCK1-145	145	78	18	11	19	69.85	M4-0.5P	1	4.00
SBT50-MCK2-105	105	39	18.5	14	23.5	69.85	M5-0.5P	1	4.00
SBT50-MCK2-135	135	67	18.5	14	23.5	69.85	M5-0.5P	1	4.10
SBT50-MCK2-140	140	72	18.5	14	23.5	69.85	M5-0.5P	1	4.10
SBT50-MCK3-110	110	62	24	18	31	-	M6-0.75P	2	4.40
SBT50-MCK3-140	140	92	24	18	31	-	M6-0.75P	2	4.60
SBT50-MCK3-155	155	107	24	18	31	-	M6-0.75P	2	4.60
SBT50-MCK4-100	100	52	28	22	39	-	M8-0.75P	2	4.80
SBT50-MCK4-160	160	112	28	22	39	-	M8-0.75P	2	5.20
SBT50-MCK4-175	175	127	28	22	39	-	M8-0.75P	2	5.30
SBT50-MCK4-205	205	205	28	22	39	-	M8-0.75P	2	5.40
SBT50-MCK5-90	90	42	35	28	50	-	M10-1.0P	2	5.40
SBT50-MCK5-105	105	57	35	28	50	-	M10-1.0P	2	5.60
SBT50-MCK5-165	165	117	35	28	50	-	M10-1.0P	2	6.20
SBT50-MCK5-210	210	162	35	28	50	-	M10-1.0P	2	6.40
SBT50-MCK5-240	240	192	35	28	50	-	M10-1.0P	2	6.60
SBT50-MCK5-300	300	252	35	28	50	-	M10-1.0P	2	6.80
SBT50-MCK6-85	85	37	42	36	63	-	M12-1.0P	2	5.90
SBT50-MCK6-155	155	107	42	36	63	-	M12-1.0P	2	6.50
SBT50-MCK6-215	215	167	42	36	63	-	M12-1.0P	2	6.90
SBT50-MCK6-250	250	212	42	36	63	-	M12-1.0P	2	7.00
SBT50-MCK6-300	300	262	42	36	63	-	M12-1.0P	2	7.20
SBT50-MCK6-350	350	312	42	36	63	-	M12-1.0P	2	7.40
SBT50-MCK7-180	180	139	52	46	90	-	M12-1.0P	2	5.00
SBT50-MCK7-330	330	289	52	46	90	-	M12-1.0P	2	12.5

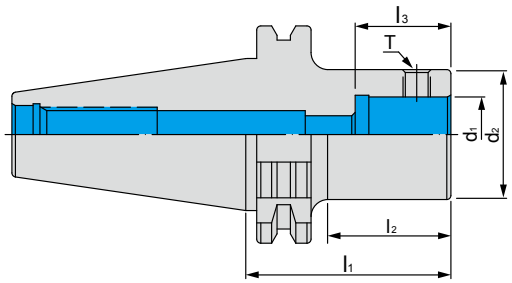
選配表 Option

拉頭 Pull Stud	延長桿 Extension Spacer	搪頭 Boring Head					
B645-B647	B708-B709	B687	B694	B746	B717	B727	B730

• 長度單位 Unit of Length (mm)

DAT/MCK 搪孔刀柄
DAT/MCK BORING HEAD SHANK

DIN 69871



DAT

特點 Feature

- 內孔公差 H6
- 整支通孔，利於出水及抗震
- 可共用並互容於大多數 "CK" 系列
- 側邊鎖固螺絲與鍵槽呈 90 度，確保搪孔切削機能時的退刀相位
- 鎖固時請使用螺絲防卡油防止因搪孔加工扭力過大，導致螺絲卡死難以拆卸組裝

- Internal tolerance is H6.
- The tool holder with through coolant design is better for water to get through vibration resistance
- Compatible on most "CK" series
- 90 degree between the side lock screw & notch, ensure the correct position of cutter when the cutter go back.
- Due to big boring torque, please apply the grease when screwing to avoid the screw jammed shut.

規格 Spec.	l_1	l_2	l_3	d_1	d_2	T	重量 (KGS) Weight
DAT30-MCK1-50	50	27.9	15	11	19	M4-0.5P	0.60
DAT30-MCK2-65	65	42.9	18.5	14	23.5	M5-0.5P	0.70
DAT30-MCK3-50	50	27.9	22	18	31	M6-0.75P	0.80
DAT30-MCK4-50	50	27.9	28	22	39	M8-0.75P	1.30
DAT40-MCK1-80	80	50.9	18	11	19	M4-0.5P	1.00
DAT40-MCK1-95	95	65.9	18	11	19	M4-0.5P	1.05
DAT40-MCK2-80	80	50.9	18.5	14	23.5	M5-0.5P	1.10
DAT40-MCK2-110	110	80.9	18.5	14	23.5	M5-0.5P	1.15
DAT40-MCK3-90	90	65.9	24	18	31	M6-0.75P	1.20
DAT40-MCK3-125	125	100.9	24	18	31	M6-0.75P	1.25
DAT40-MCK4-80	80	55.9	28	22	39	M8-0.75P	1.30
DAT40-MCK4-110	110	85.9	28	22	39	M8-0.75P	1.35
DAT40-MCK5-95	95	75.4	35	28	50	M10-1.0P	1.40
DAT40-MCK5-110	110	90.4	35	28	50	M10-1.0P	1.45
DAT40-MCK6-65	65	45.4	42	36	63	M12-1.0P	1.50
DAT40-MCK6-95	95	75.4	42	36	63	M12-1.0P	1.55
DAT50-MCK1-110	110	80.9	18	11	19	M4-0.5P	3.10
DAT50-MCK1-125	125	95.9	18	11	19	M4-0.5P	3.15
DAT50-MCK2-95	95	65.9	18.5	14	23.5	M5-0.5P	3.20
DAT50-MCK2-125	125	95.9	18.5	14	23.5	M5-0.5P	3.25
DAT50-MCK3-125	125	95.9	24	18	31	M6-0.75P	3.30
DAT50-MCK3-155	155	125.9	24	18	31	M6-0.75P	3.35
DAT50-MCK4-110	110	80.9	28	22	39	M8-0.75P	3.40
DAT50-MCK4-125	125	95.9	28	22	39	M8-0.75P	3.45
DAT50-MCK5-65	65	35.9	35	28	50	M10-1.0P	3.50
DAT50-MCK5-140	140	110.9	35	28	50	M10-1.0P	3.55
DAT50-MCK6-140	140	110.9	42	36	63	M12-1.0P	3.60
DAT50-MCK6-170	170	140.9	42	36	63	M12-1.0P	3.65
DAT50-MCK7-95	95	60	52	46	90	M20-1.5P	5.00

選配表 Option

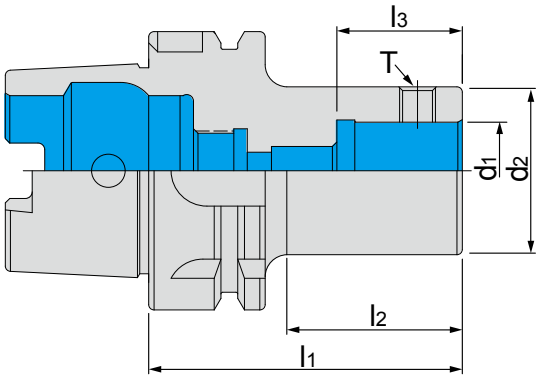
拉頭 Pull Stud	延長桿 Extension Spacer	搪頭 Boring Head					
B645-B647	B708-B709	B687	B694	B746	B717	B727	B730

• 長度單位 Unit of Length (mm)

HSK/MCK 搪孔刀柄
HSK/MCK BORING HEAD SHANK(FOR TYPE A)

DIN 69893-A

細牙 Fine Teeth



規格 Spec.	l_1	l_2	l_3	d_1	d_2	T	重量 (KGS) Weight
HSK40A-MCK1-50	50	27	15	11	19	M4-0.5P	0.60
HSK40A-MCK2-60	60	37	18.5	14	23.5	M5-0.5P	0.36
HSK40A-MCK3-60	60	38	22	18	31	M6-0.75P	0.80
HSK50A-MCK1-60	60	31	15	11	19	M4-0.5P	1.00
HSK50A-MCK2-60	60	31	18.5	14	23.5	M5-0.5P	1.10
HSK50A-MCK3-60	60	32	22	18	31	M6-0.75P	1.20
HSK50A-MCK4-60	60	32	24	22	39	M8-0.75P	1.30
HSK50A-MCK5-80	80	53	30	28	50	M10-1.0P	1.00
HSK50A-MCK6-80	80	53	40	36	63	M12-1.0P	1.50
HSK63A-MCK1-80	80	49	15	11	19	M4-0.5P	1.20
HSK63A-MCK1-95	95	64	15	11	19	M4-0.5P	1.25
HSK63A-MCK2-80	80	44	18.5	14	23.5	M5-0.5P	0.86
HSK63A-MCK2-110	110	79	18.5	14	23.5	M5-0.5P	1.35
HSK63A-MCK3-90	90	59	24	18	31	M6-0.75P	1.02
HSK63A-MCK3-125	125	94	24	18	31	M6-0.75P	0.52
HSK63A-MCK4-80	80	49	28	22	39	M8-0.75P	1.09
HSK63A-MCK4-110	110	79	28	22	39	M8-0.75P	1.55
HSK63A-MCK5-95	95	67.5	35	28	50	M10-1.0P	1.60
HSK63A-MCK5-110	110	82.5	35	28	50	M10-1.0P	1.78
HSK63A-MCK6-70	70	43.5	42	36	63	M12-1.0P	1.31
HSK63A-MCK6-95	95	68.5	42	36	63	M12-1.0P	1.84
HSK100A-MCK1-100	100	61	18	11	19	M4-0.5P	2.07
HSK100A-MCK2-75	75	36	18.5	14	23.5	M5-0.5P	2.09
HSK100A-MCK2-115	115	76	18.5	14	23.5	M5-0.5P	2.18
HSK100A-MCK3-60	60	21	24	18	31	M6-0.75P	2.15
HSK100A-MCK3-125	125	86	24	18	31	M6-0.75P	2.47
HSK100A-MCK4-70	70	31	28	22	39	M8-0.75P	2.34
HSK100A-MCK4-120	120	86	28	22	39	M8-0.75P	2.76
HSK100A-MCK5-70	70	31	35	28	50	M10-1.0P	2.60

選配表 Option

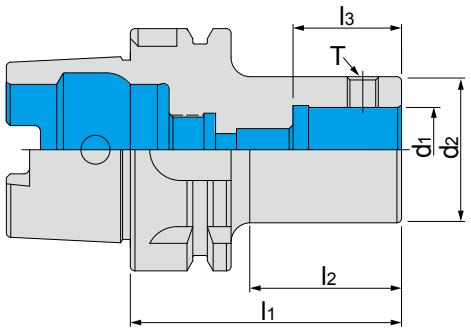
延長桿 Extension Spacer	搪頭 Boring Head						給水管 Coolant Supply Unti
B708-B709	B687	B694	B746	B717	B727	B730	B519

• 長度單位 Unit of Length (mm)

HSK/MCK 搪孔刀柄
HSK/MCK BORING HEAD SHANK(FOR TYPE A)

DIN 69893-A

細牙 Fine Teeth



規格 Spec.	l_1	l_2	l_3	d_1	d_2	T	重量 (KGS) Weight
HSK100A-MCK5-110	110	76	35	28	50	M10-1.0P	3.17
HSK100A-MCK6-75	75	41	42	36	63	M12-1.0P	3.02
HSK100A-MCK6-100	100	66	42	36	63	M12-1.0P	3.60

HSK

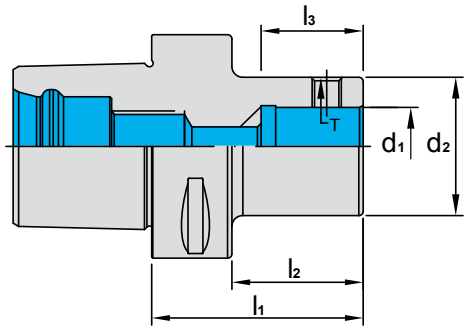
選配表 Option

延長桿 Extension Spacer	搪頭 Boring Head						給水管 Coolant Supply Unti
B708-B709	B687	B694	B746	B717	B727	B730	B519

• 長度單位 Unit of Length (mm)

PSC/MCK 搪孔刀柄
PSC/MCK BORING HEAD SHANK

ISO 26623-1



特點 Feature

- 內孔公差 H6
- 整支通孔，利於出水及抗震

- Internal tolerance is H6.
- The tool holder with through coolant design is better for water to get through vibration resistance

規格 Spec.	l_1	l_2	l_3	d_1	d_2	T	重量 (KGS) Weight
PSC40-MCK2-45	45	19.5	18.5	14	24	M5-0.5P	0.40
PSC40-MCK3-40	40	17	24	18	31	M6-0.75P	0.50
PSC40-MCK4-33	33	12.5	28	22	39	M8-0.75P	0.50
PSC50-MCK2-85	85	60.5	18.5	14	24	M5-0.5P	0.60
PSC50-MCK3-55	55	30	24	18	31	M6-0.75P	0.60
PSC50-MCK3-80	80	55	24	18	31	M6-0.75P	0.70
PSC50-MCK4-48	48	23	28	22	39	M8-0.75P	0.60
PSC50-MCK4-73	73	48	28	22	39	M8-0.75P	0.70
PSC50-MCK5-50	50	30	35	28	50	M10-1.0P	0.60
PSC50-MCK5-83	83	63	35	28	50	M10-1.0P	1.30
PSC50-MCK6-50	50	30	42	36	63	M12-1.0P	1.00
PSC63-MCK2-90	90	53	18.5	14	24	M5-0.5P	1.30
PSC63-MCK3-65	65	38	24	18	31	M6-0.75P	1.30
PSC63-MCK3-100	100	73	24	18	31	M6-0.75P	1.50
PSC63-MCK4-58	58	31	28	22	39	M8-0.75P	1.30
PSC63-MCK4-93	93	66	28	22	39	M8-0.75P	1.70
PSC63-MCK5-48	48	22	35	28	50	M10-1.0P	1.30
PSC63-MCK5-83	83	57	35	28	50	M10-1.0P	1.70
PSC63-MCK6-59	59	37	42	36	63	M12-1.0P	1.60
PSC63-MCK6-94	94	72	42	36	63	M12-1.0P	2.30

選配表 Option

延長桿 Extension Spacer	搪頭 Boring Head						鎖刀座 Lock Device
B708-B709	B687	B694	B746	B717	B727	B730	B655

• 長度單位 Unit of Length (mm)

PSC

搪孔刀柄 (RBH、NBH、BST)
BORING HEAD SHANK(RBH、NBH、BST)

Fig.1

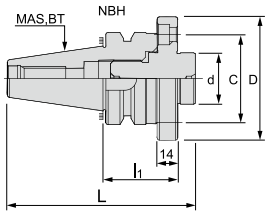
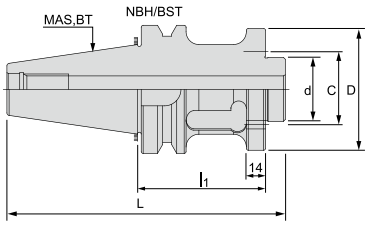


Fig.2



規格 Spec.	L	l_1	D	d h7	C	Fig.	重量 (KGS) Weight
BT40-NBH2084A	155.4	51	84	35	PCD.Ø60 4-M8-1.25P	1	1.70
BT50-NBH2084A	170.8	57	84	35		1	3.50
NT50-NBH2084A	168	41.2	84	35		1	6.30
FR60-NBH2084	58.5	14	84	35	PCD.Ø60	-	-
BT40-NBH2084B-100	204.4	100	84	35	PCD.Ø60 4-M8-1.25P	2	2.00
BT50-NBH2084B-100	213.8	100	84	35		2	4.00
BT50-NBH2084B-165	278.8	165	84	35		2	4.50
BT50-NBH2084B-200	313.8	200	84	35		2	-
BT50-NBH2084B-250	363.8	250	84	35		2	8.50
BT50-NBH2084B-300	413.8	300	84	35		2	9.67
NT30-NBH2084	109	14	84	35	PCD.Ø60 4-M8-1.25P	2	3.60
NT40-NBH2084	136	14	84	35		2	4.00
NT50-NBH2084	168	14	84	35		2	6.30
BT40-BST-70	131	70	95	50	PCD.Ø72 4-Ø13	2	2.50
BT50-BST-100	208.8	100	95	50		2	5.65
BT50-BST-150	258.8	150	95	50		2	6.75
BT50-BST-200	308.8	200	95	50		2	8.75
BT50-BST-250	358.8	250	95	50		2	9.76
BT50-BST-300	408.8	300	95	50		2	11.5
BT50-BST-350	458.8	350	95	50		2	12.8
BT50-BST-400	508.8	400	95	50		2	14.1

BORING

選配表 Option

拉頭 Pull Stud	搪頭 Boring Head
B645-B647	B753

• 長度單位 Unit of Length (mm)

BST 加強型搪孔刀柄
BST BORING HEAD SHANK

Fig.1

Fig.2

Fig.1

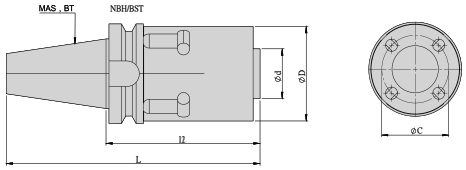
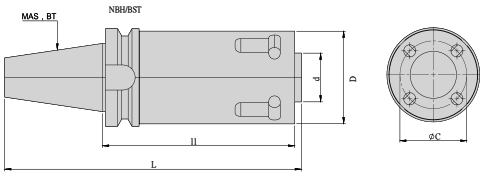


Fig.2



規格 Spec.	L	l_1	D	d h7	C	重量 (KGS) Weight	Fig.
BT50-BST-150L-D95	258.8	150	95	50	PCD.Ø72 4-Ø13	6.75	1
BT50-BST-200L-D95	308.8	200	95	50		-	2
BT50-BST-250L-D95	358.8	250	95	50		-	2
BT50-BST-300L-D95	408.8	300	95	50		-	2

SCK 等徑延長桿
SCK EXTENSION CONSTANT DIAMETER

Fig.1

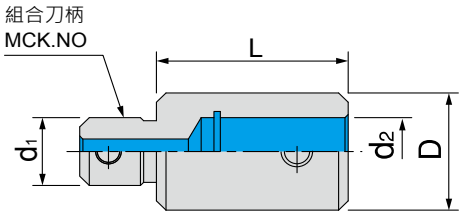
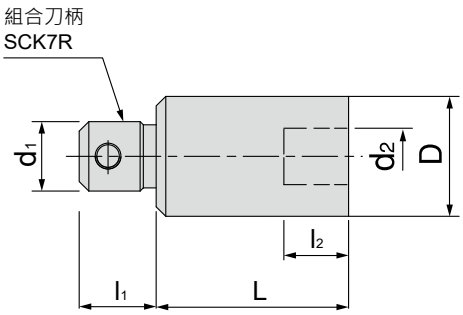


Fig.2



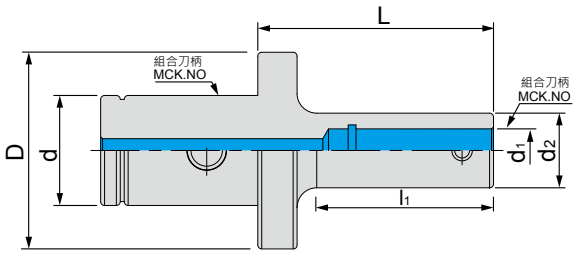
規格 Spec.	L	l_1	l_2	D	d_1	d_2	側邊螺絲 Screw	適用搪頭 Boring Head	Fig.	重量 (KGS) Weight
SCK1-1-30L	30	-	-	19	11	11	M4-0.5P-5L	-	1	0.07
SCK2-2-30L	30	-	-	24	14	14	M5-0.5P-6.5L	-	1	0.10
SCK3-3-30L	30	-	-	31	18	18	M6-0.75P-8L	-	1	0.15
SCK4-4-45L	45	-	-	39	22	22	M8-0.75P-11L	-	1	0.40
SCK5-5-60L	60	-	-	50	28	28	M10-1.0P-14L	-	1	0.80
SCK6-6-60L	60	-	-	64	36	36	M12-1.0P-18L	-	1	1.40
SCK7R-7R-100	100	50	52	88	58	58	M12-1.0P-18L	CBH100DP、CBH150DP、CBH200DP	2	4.85

選配表 Option

拉頭 Pull Stud	搪頭 Boring Head
B645-B647	B753

• 長度單位 Unit of Length (mm)

SCK 異徑延長桿
SCK EXTENSION REDUCING



特點 Feature

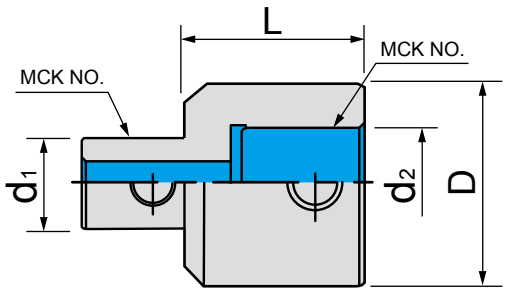
- CBH100DP~CBH200DP /CK7R 接合柄專用

-For CBH100DP~CBH200DP /CK7R

規格 Spec.	L	l_1	D	d	d_1	d_2	側邊螺絲 Screw	重量 (KGS) Weight
SCK2-1-36L	36	30	24	14	11	19	M4-0.5P-5L	0.10
SCK3-1-41L	41	30	31	18	11	19	M4-0.5P-5L	0.15
SCK3-2-37L	37	25	31	18	14	24	M5-0.5P-6.5L	0.15
SCK4-1-58L	58	40	39	22	11	19	M4-0.5P-5L	0.30
SCK4-2-50L	50	36	39	22	14	24	M5-0.5P-6.5L	0.30
SCK4-3-50L	50	37	39	22	18	31	M6-0.75P-8L	0.35
SCK5-1-60L	60	40	50	28	11	19	M4-0.5P-5L	0.48
SCK5-2-54L	54	35	50	28	14	24	M5-0.5P-6.5L	0.45
SCK5-2-74L	74	55	50	28	14	24	M5-0.5P-6.5L	0.60
SCK5-3-47L	47	29	50	28	18	31	M6-0.75P-8L	0.52
SCK5-3-72L	72	54	50	28	18	31	M6-0.75P-8L	0.68
SCK5-4-42L	42	25	50	28	22	39	M8-0.75P-11L	0.50
SCK5-4-67L	67	50	50	28	22	39	M8-0.75P-11L	0.80
SCK6-1-70L	70	40	64	36	11	19	M4-0.5P-5L	0.95
SCK6-2-63L	63	45	64	36	14	24	M5-0.5P-6.5L	0.78
SCK6-2-93L	93	75	64	36	14	24	M5-0.5P-6.5L	0.80
SCK6-3-56L	56	39	64	36	18	31	M6-0.75P-8L	0.82
SCK6-3-96L	96	79	64	36	18	31	M6-0.75P-8L	1.07
SCK6-4-51L	51	35	64	36	22	39	M8-0.75P-11L	0.92
SCK6-4-101L	101	85	64	36	22	39	M8-0.75P-11L	1.30
SCK6-5-41L	41	25	64	36	28	52	M10-1.0P-14L	0.94
SCK6-5-91L	91	75	64	36	28	52	M10-1.0P-14L	1.60
BST-SCK6	100	60	95	50	36	64	-	3.32
SCK7R-6-145	145	128	88	58	36	64	M12-1.0P-18L	-

• 長度單位 Unit of Length (mm)

SCK 延長桿（小接大）
ARBOR FOR SCK EXTENSION

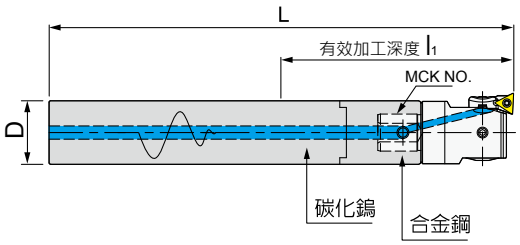


規格 Spec.	L	D	d_1	d_2	適用搪孔頭 Applicable Boring Head	重量 (KGS) Weight
SCK3-4-35L	35	39	18	22	CBH40	0.28
SCK4-5-45L	45	50	22	28	CBH52	0.58

- SCK3-4-35L 與 SCK4-5-45L 為小變大異徑延長桿
-SCK3-4-35L and SCK4-5-45L are the extension bar, diameter ranged from small to big.

SCK 直柄碳化鎢製搪孔頭刀桿
SCK STRAIGHT CARBIDE BORING SHANK

範例 Example



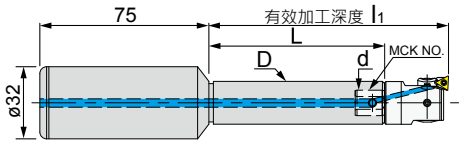
規格 Spec.	L	l_1	D	重量 (KGS) Weight
SC19-SCK1-130L	180	130	19	0.54
SC19-SCK1-150L	225	150	19	0.72
SC19-SCK1-200L	275	200	19	0.92
SC24-SCK2-140L	200	140	24	0.88
SC24-SCK2-180L	260	180	24	1.24
SC24-SCK2-240L	320	240	24	1.60
SC32-SCK3-160L	240	160	32	2.00
SC32-SCK3-240L	320	240	32	2.88
SC32-SCK3-310L	390	310	32	3.62

BORING

• 長度單位 Unit of Length (mm)

SCK 直柄搪孔頭刀桿
SCK STRAIGHT BORING SHANK

Fig.1



範例 Example

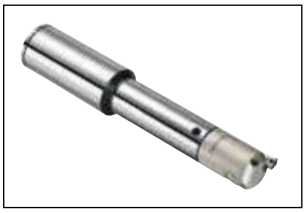
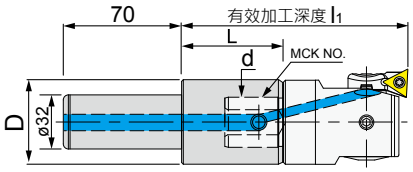


Fig.2



規格 Spec.	L	有效加工深度 l_1	D	d	適用搪孔頭 Applicable Boring Head	Fig.	重量 (KGS) Weight
C32-SCK1-75L	75	110	19	11	CBH20	1	0.62
C32-SCK2-70L	70	110	24	14	RBH25/RBH25LA/CBH25	1	0.67
C32-SCK2-120L	120	160	24	14	RBH25/RBH25LA/CBH25	1	0.82
C32-SCK3-70L	70	110	31	18	RBH32/RBH32LA/CBH32	1	0.77
C32-SCK3-120L	120	160	31	18	RBH32/RBH32LA/CBH32	1	1.03
C32-SCK4-60L	60	110	39	22	RBH40/RBH40LA/CBH40/CBI4	2	0.93
C32-SCK4-110L	110	160	39	22	RBH40/RBH40LA/CBH40/CBI4	2	1.37
C32-SCK5-60L	60	120	50	28	RBH52/RBH52LA/CBH52/CBI5	2	1.22
C32-SCK5-120L	120	180	50	28	RBH52/RBH52LA/CBH52/CBI5	2	2.00
C32-SCK6-60L	60	130	64	36	RBH68,90/RBH68LA,90LA /CBH68,100,150/CBI6	2	1.55
C32-SCK6-120L	120	190	64	36	RBH68,90/RBH68LA,90LA /CBH68,100,150/CBI6	2	2.93

• 長度單位 Unit of Length (mm)

90° 粗搪孔刀柄
BT SQUARE CUTTER BORING BAR HOLDER

搪孔範圍
ø25~260
Boring Range

Fig.1

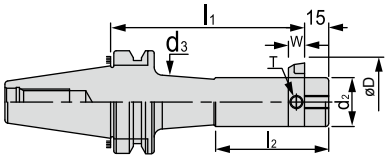


Fig.2

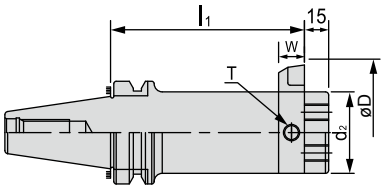


Fig.3

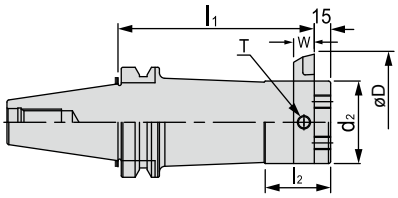
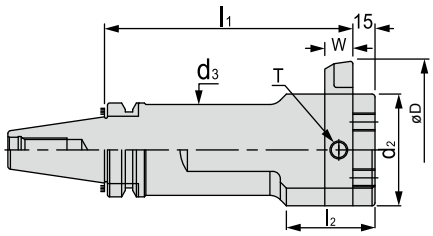


Fig.4



特點 Feature

- 適用於孔徑凹凸不平，毛胚粗糙之加工物
- 可選用四角形焊刃刀具或捨棄式刀具
- 搪通孔專用

-Suitable for the uneven hole & raw parts with rough surface.
-Selects the foursquare carbide tipped cutter or supplemental cutting tool.
-Exclusively for boring through hole.

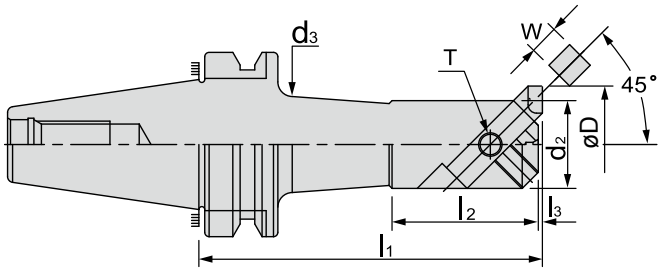
規格 Spec.	øD 搪孔範圍 Boring Range		l_1	l_2	d_2	d_3	W	T	Fig.	重量 (KGS) Weight
	Min.	Max.								
BT40-BSB25-120	25	52	120	50	20	22	8	M6	1	1.97
BT40-BSB38-150	38	70	150	70	30	33	10	M8	1	1.70
BT40-BSB50-165	50	90	165	85	40	44	13	M10	1	2.50
BT40-BSB62-180	62	115	180	95	50	56	16	M10	3	3.66
BT40-BSB90-180	90	150	180	60	75	61	19	M12	4	5.90
BT50-BSB25-135	25	52	135	50	20	22	8	M6	1	4.30
BT50-BSB38-180	38	70	180	50	30	33	10	M8	1	4.94
BT50-BSB50-180	50	90	180	85	40	44	13	M10	1	5.50
BT50-BSB50-240	50	90	240	85	40	44	13	M10	1	6.35
BT50-BSB62-195	62	115	195	-	50	-	16	M10	2	6.40
BT50-BSB62-270	62	115	270	-	50	-	16	M10	2	7.82
BT50-BSB72-195	72	135	195	95	60	66	19	M12	3	7.84
BT50-BSB72-285	72	135	285	95	60	66	19	M12	3	9.97
BT50-BSB90-210	90	150	210	60	75	80	19	M12	3	10.7
BT50-BSB90-300	90	150	300	60	75	80	19	M12	3	12.8
BT50-BSB105-195	105	190	195	-	90	-	25	M12	2	12.3
BT50-BSB105-285	105	190	285	-	90	-	25	M12	2	16.9
BT50-BSB130-255	130	260	255	75	110	98	25	M12	4	18.1

選配表 Option

搪刀 Boring Cutter		
B714	B715	B715

• 長度單位 Unit of Length (mm)

45° 粗搪孔刀柄
BT SQUARE CUTTER BORING BAR HOLDER



搪孔範圍
ø25~190
Boring Range

特點 Feature

- 可選用四角形熔焊刀具或捨棄式刀具
- 搪盲孔專用

-Selects the foursquare carbide tipped cutter or supplemental cutting tool.
-Exclusively for boring blind hole.

規格 Spec.	øD 搪孔範圍 Boring Range		l_1	l_2	l_3	d_2	d_3	W	T	重量 (KGS) Weight
	Min.	Max.								
BT40-BSA25-120	25	38	120	35	1	20	22	8	M6	1.20
BT40-BSA30-150	30	42	150	40	1.6	24	26	8	M6	1.40
BT40-BSA38-165	38	52	165	50	2.6	30	33	10	M8	1.70
BT40-BSA42-165	42	56	165	50	2.6	34	37	10	M8	2.00
BT40-BSA50-165	50	65	165	65	3	40	44	13	M8	2.30
BT40-BSA62-180	62	90	180	80	2	50	56	16	M10	3.40
BT40-BSA72-180	72	110	180	149	2.4	60	-	19	M10	3.90
BT40-BSA90-180	90	125	180	60	4	75	-	19	M10	5.20
BT50-BSA25-135	25	38	135	35	1	20	22	8	M6	4.20
BT50-BSA30-165	30	42	165	40	1.6	24	26	8	M6	4.40
BT50-BSA38-180	38	52	180	50	2.6	30	33	10	M8	4.80
BT50-BSA42-210	42	56	210	50	2.6	34	37	10	M8	5.00
BT50-BSA50-180	50	65	180	65	3	40	44	13	M10	5.40
BT50-BSA50-240	50	65	240	65	3	40	44	13	M10	5.70
BT50-BSA62-195	62	90	195	80	2	50	56	16	M10	6.20
BT50-BSA62-270	62	90	270	80	2	50	56	16	M10	7.60
BT50-BSA72-195	72	110	195	95	2.4	60	66	19	M10	7.00
BT50-BSA72-285	72	110	285	95	2.4	60	66	19	M10	9.30
BT50-BSA90-210	90	125	210	110	4	75	80	19	M12	9.20
BT50-BSA90-300	90	125	300	110	4	75	80	19	M12	12.3
BT50-BSA105-195	105	160	195	153	3	90	-	25	M12	10.7
BT50-BSA105-285	105	160	285	130	3	90	94	25	M12	15.0
BT50-BSA130-255	130	190	255	120	3	110	-	25	M12	14.5

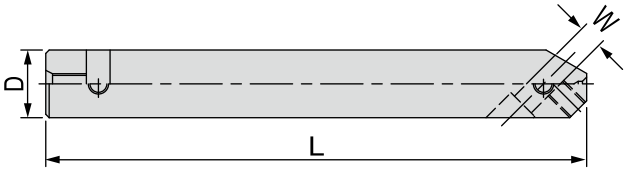
選配表 Option

搪刀 Boring Cutter	
B714	B715

• 長度單位 Unit of Length (mm)

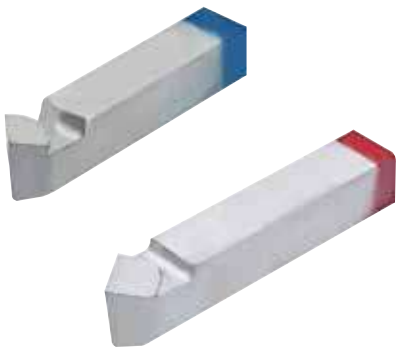
直柄搪孔頭刀柄
STRAIGHT BORING BAR

搪孔範圍
ø18~75
Boring Range



規格 Spec.	搪孔角度 Boring Angle	øD 搪孔範圍 Boring Range		L	D	側邊固定螺絲 Screw	W	重量 (KGS) Weight
		Min.	Max.					
C16-BS150	90°	18	28	150	16	M5-0.8P-5L	6	0.24
	30°							
C18-BS180	90°	20	32	180	18			0.38
	30°							
C20-BS200	90°	22	36	200	20	M6-1.0P-6L	8	0.50
	30°							
C25-BS250	90°	28	45	250	25			1.00
	30°							
C32-BS300	90°	36	58	300	32	M8-1.25P-10L	10	1.88
	30°							
C42-BS300	90°	48	75		42	M10-1.5P-10L	13	3.18
	30°							

焊刃式搪孔刀
BRAZED BORING CUTTER



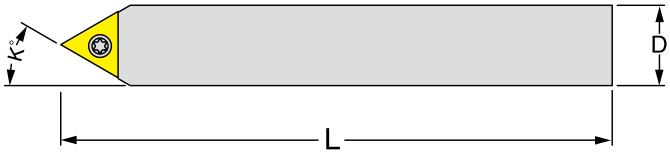
規格 Spec.	規格 Spec.	柄徑 Shank Diameter	全長 Length	角度 Angle	重量 (KGS) Weight
BS-306P	BS-306K	6	30	30°	0.01
BS-308P	BS-308K	8	40		0.02
BS-310P	BS-310K	10	50		0.04
BS-313P	BS-313K	13	65		0.10
BS-316P	BS-316K	16	75		0.22
BS-406P	BS-406K	6	30	45°	0.01
BS-408P	BS-408K	8	40		0.03
BS-410P	BS-410K	10	50		0.04
BS-413P	BS-413K	13	65		0.09
BS-416P	BS-416K	16	75		0.22
BS-906P	BS-906K	6	30	90°	0.01
BS-908P	BS-908K	8	40		0.03
BS-910P	BS-910K	10	50		0.05
BS-913P	BS-913K	13	65		0.09
BS-916P	BS-916K	16	75		0.18

- K 加工鑄鐵、鋁合金
- P 加工合金鋼
- 訂購前註明 K 或 P

- K Cast Iron, aluminium alloy
- P Alloy Steels
- Before the purchase please indicate K or P.

• 長度單位 Unit of Length (mm)

SBS 替換式搪孔刀柄
SBS INTERCHANGABLE BORING CUTTER



特點 Feature

- 適用於 BSA、BSB 粗搪刀桿
- SBS 適合精加工及中切削加工

-Applicable for BSA BSB rough boring cutter.
-SBS is suitable for fine processing and medium cutting processing.

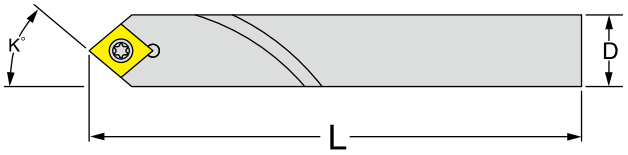
規格 Spec.	L	D	K	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
SBS-308	55	8	30°	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.04
SBS-310	65	10	30°	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.06
SBS-313	80	13	30°	TP..1103	M3-8.0-4.0-43	T9	1.4	0.11
SBS-316	120	16	30°	TP..1103	M3-8.0-4.0-43	T9	1.4	0.24
SBS-319	140	19	30°	TP..1603	M4-10-5.0-43	T15	3.0	0.40
SBS-325	150	25	30°	TP..1603	M4-10-5.0-43	T15	3.0	0.74
SBS-408	55	8	45°	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.04
SBS-410	65	10	45°	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.06
SBS-413	80	13	45°	TP..1103	M3-8.0-4.0-43	T9	1.4	0.11
SBS-416	120	16	45°	TP..1103	M3-8.0-4.0-43	T9	1.4	0.26
SBS-419	140	19	45°	TP..1603	M4-10-5.0-43	T15	3.0	0.41
SBS-425	150	25	45°	TP..1603	M4-10-5.0-43	T15	3.0	0.74
SBS-908	55	8	90°	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.04
SBS-910	65	10	90°	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.06
SBS-913	80	13	90°	TP..1103	M3-8.0-4.0-43	T9	1.4	0.11
SBS-916	120	16	90°	TP..1103	M3-8.0-4.0-43	T9	1.4	0.25
SBS-919	140	19	90°	TP..1603	M4-10-5.0-43	T15	3.0	0.41
SBS-925	150	25	90°	TP..1603	M4-10-5.0-43	T15	3.0	0.75

選配表 Option

搪孔刀桿 Boring Bar
B711-B712

• 長度單位 Unit of Length (mm)

CBS 替換式搪孔刀柄
CBS INTERCHANGABLE BORING CUTTER



特點 Feature

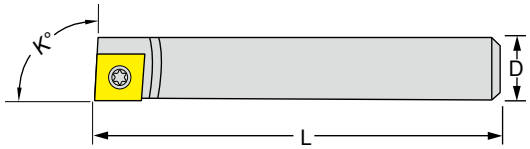
- 適用於 BSA、BSB 粗搪刀桿
-CBS 適合重切削加工

-Applicable for BSA BSB rough boring cutter.
-CBS is suitable for heavy cutting processing.

規格 Spec.	D	L	K	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
CBS-308	8	55	30°	CC..0602	M2.5-6.0-3.5-60	T8	1.2	0.04
CBS-310	10	65	30°	CC..0602	M2.5-6.0-3.5-60	T8	1.2	0.06
CBS-313	13	80	30°	CC..09T3	M4-10-5.7-60	T15	2.0	0.12
CBS-316	16	120	30°	CC..09T3	M4-10-5.7-60	T15	2.0	0.27
CBS-319	19	140	30°	CC..1204	M5-11-7.5-60	T20	3.0	0.41
CBS-408	8	55	45°	CC..0602	M2.5-6.0-3.5-60	T8	1.2	0.04
CBS-410	10	65	45°	CC..0602	M2.5-6.0-3.5-60	T8	1.2	0.06
CBS-413	13	80	45°	CC..09T3	M4-10-5.7-60	T15	2.0	0.12
CBS-416	16	120	45°	CC..09T3	M4-10-5.7-60	T15	2.0	0.26
CBS-419	19	140	45°	CC..1204	M5-11-7.5-60	T20	3.0	0.40
CBS-908	8	55	90°	CC..0602	M2.5-6.0-3.5-60	T8	1.2	0.04
CBS-910	10	65	90°	CC..0602	M2.5-6.0-3.5-60	T8	1.2	0.06
CBS-913	13	80	90°	CC..09T3	M4-10-5.7-60	T15	2.0	0.14
CBS-916	16	120	90°	CC..09T3	M4-10-5.7-60	T15	2.0	0.27
CBS-919	19	140	90°	CC..1204	M5-11-7.5-60	T20	3.0	0.42

CBS 替換式搪孔刀柄 (左撇)
CBS INTERCHANGABLE BORING CUTTER(LEFT-HANDED)

KOVIT



特點 Feature

- 適用於 BSA、BSB 粗搪刀桿
- CBS 適合重切削加工

-Applicable for BSA BSB rough boring cutter.
-CBS is suitable for heavy cutting processing.

規格 Spec.	D	L	K	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
CBS-908L	8	55	90°	CC..0602	M2.5-6.0-3.5-60	T8	1.2	0.04
CBS-910L	10	65	90°	CC..0602	M2.5-6.0-3.5-60	T8	1.2	0.06
CBS-913L	13	80	90°	CC..09T3	M4-10-5.7-60	T15	2.0	0.12
CBS-916L	16	120	90°	CC..09T3	M4-10-5.7-60	T15	2.0	0.27
CBS-919L	19	140	90°	CC..1204	M5-11-7.5-60	T20	3.0	0.42

※ 背搪專用 For reverse boring

選配表 Option

搪孔刀桿 Boring Bar
B711-B712

• 長度單位 Unit of Length (mm)

Feature

RBH-LA特點

微調單位：每一刻度移動量1mm，直徑為Ø2mm，搪孔範圍Ø25~Ø2000mm。

連接壓板使刀頭與刀座一體，增加切削剛性。

CC及TC刀片座，供客戶選擇，獨特高低段差設計，平刃或高低刃均可採用。

排屑槽設計，增加深孔排屑功能。

Micro-adjustment unitl:1mm of each, diameterØ2mm, boring range Ø25~Ø2000mm.
Clamp plate solidifies cartridges and head, upgrading cutting rigidity.
CC and TC insert seats are suitable for customers to choose, Patented step boring design; suitable for both level boring and step boring.
Completed with chip pocket, improving chip flow of deep boring.

A-A / B-B刀片座
A-A / B-B Insert seat

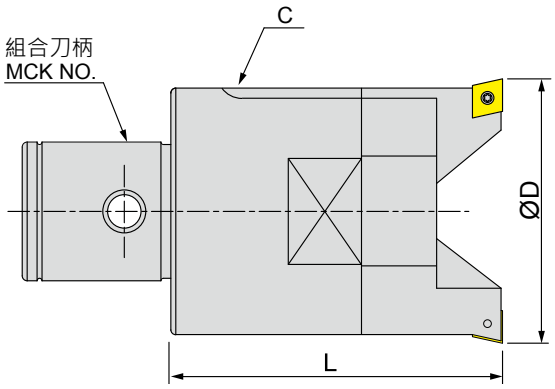
A-B / B-A刀片座
A-B / B-A Insert seat

A-A及B-B為平刃設計，刀片座為等高狀態，可用於一般搪孔加工A-B及B-A為高低刃設計，刀座獨特高低段差設計，可實現不等徑、不等高的搪孔加工。

A-A and B-B flat blade design, the insert seat contours state, can be used for general Boring processing.
A-B and B-A for the high and low edge design, knife blocks unique level of segment Poor design can achieve unequal diameter, height Boring processing.

Boring Head

RBH 可調式雙刃粗搪孔頭
RBH INDEXABLE TWIN-BIT ROUGH BORING HEAD



搪孔範圍
ø25~500
Boring Range

特點 Feature

- 適用單刃搪孔，雙刃搪孔及高低階搪孔。搪孔範圍 Ø25~500mm
- 新型刀刃滑座設計，刀背補強。加工時，滑座承受的兩個作用力相互抵消，產生最大剛性和切削力。適合各形態的搪孔作業
- 可依照不同加工需求，輕易調整搪刀，作少量多樣的加工。加工深度可配合延長桿延伸至所需長度
- 最適合在各型切削中心機或搪床上配合使用，並可搭配各種廠牌相同規格的指定刀片，節省刀具研磨時間並大幅增加搪孔效率
- 專利高低段差設計，平刃或高低刃均可採用
- 直徑 Ø200 以上大孔徑搪刀，使用直接組件，結構簡單剛性強，調整範圍為直徑 100mm

- The head is suitable for single bit boring, twin-bit boring and step boring with working diameter from Ø25mm to Ø500mm on diameter.
- New blade slide design with reinforced back. The pressure umposed on both cartridges coubteracts producing highest rigidity and cutting efficiency, most suitable for a variety of borings.
- Boring head can be easily adjusted to different boring needs for machining on demand. Boring depth can be extended by tool connection.
- Most suitable for boring on various machine centers or boring mills. Universal design accepts inserts of any brands, which will reduce tool grinding and greatly improve boring performance.
- Patented step boring design; suitable for both level boring and step boring.

規格 Spec.	øD 搪孔範圍 Boring Range		C	L	組合刀柄 Mck No.	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
	Min.	Max.								
RBH25-33-C	25	33	24	45	CK2/MCK2	CC..0602	M2.5-6.0-3.5-60	T8	1.2	0.23
RBH32-42-T	32	42	31	55	CK3/MCK3	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.23
RBH32-42-C	32	42	31	55	CK3/MCK3	CC..0602	M2.5-6.0-3.5-60	T8	1.2	0.23
RBH40-55-T	40	55	39	65	CK4/MCK4	TC..16T3	M4-10-5.0-43	T15	3.0	0.66
RBH40-55-C	40	55	39	65	CK4/MCK4	CC..09T3	M4-10-5.7-60	T15	3.0	0.66
RBH52-70-T	52	70	50	75	CK5/MCK5	TC..16T3	M4-10-5.0-43	T15	3.0	0.40
RBH52-70-C	52	70	50	75	CK5/MCK5	CC..09T3	M4-10-5.7-60	T15	3.0	0.40
RBH68-92-T	68	92	64	85	CK6/MCK6	TC..16T3	M4-10-5.0-43	T15	3.0	2.00
RBH68-92-C	68	92	64	85	CK6/MCK6	CC..1204	M5-11-7.0-55	T20	5.0	2.10
RBH90-122-T	90	122	80	100	CK6/MCK6	TC..2204	M5-11-7.0-55	T20	5.0	3.03
RBH90 -122-C	90	122	80	100	CK6/MCK6	CC..1204	M5-11-7.0-55	T20	5.0	3.18
RBH200-300-T	200	300	-	95	BST	TC..2204	M5-11-7.0-55	T20	5.0	7.00
RBH200-300-C	200	300	-	95	BST	CC..1204	M5-11-7.0-55	T20	5.0	7.00
RBH300-400-T	300	400	-	95	BST	TC..2204	M5-11-7.0-55	T20	5.0	10.70
RBH300-400-C	300	400	-	95	BST	CC..1204	M5-11-7.0-55	T20	5.0	10.70
RBH400-500-T	400	500	-	95	BST	TC..2204	M5-11-7.0-55	T20	5.0	14.00
RBH400-500-C	400	500	-	95	BST	CC..1204	M5-11-7.0-55	T20	5.0	14.00

選配表 Option

刀桿 Shank	
B698-B700	B706

• 長度單位 Unit of Length (mm)

RBH-LA 新型可調整式雙刃粗搪孔頭
RBH-LA INDEXABLE TWIN-BIT ROUGH BORING HEAD

Fig.1

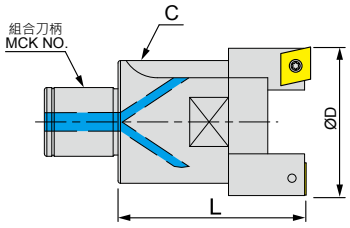
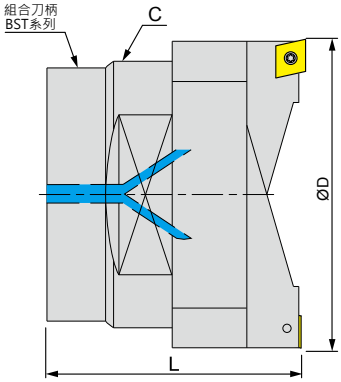


Fig.2



搪孔範圍
ø25~204
Boring Range

特點 Feature

新型第二代 LA 搪刀頭增加如下功能：
- 刀片支持座厚度增加，剛性增強
- RBH-25LA~RBH-160LA 為內藏式水孔，直接冷卻，增加刀片的壽命
- 排屑槽設計，增加深孔排屑功能
- 連接壓板使刀頭與刀座一體，增加切削剛性
- 獨特高低段差設計，平刃或高低刃均可採用
- 調整範圍增大，增加穩定性

Following is the junior LA boring head new functions:
-Thickened cartridge with higher rigidity.
-RBH-25LA~RBH-160LA Coolant nozzle easily cools the insert elongating its working life.
-Flute design, improving chip discharge of deep boring.
-Clamp plate solidifies cartridges and head, upgrading cutting rigidity.
-Patented step boring design; suitable for both level boring and step boring.
-The extended of adjustment range, increased stability.

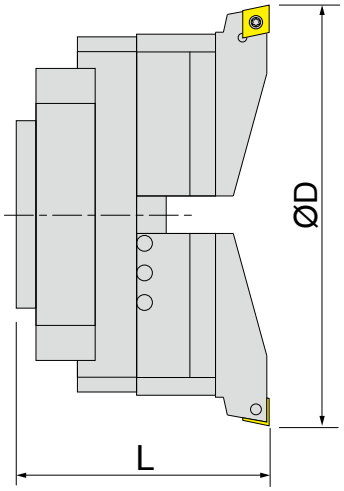
規格 Spec.	øD 搪孔範圍 Boring Range		C	L	組合刀柄 Mck No.	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig	重量 (KGS) Weight
	Min.	Max.									
RBH-25-35LA-C	25	35	24	50	CK2/MCK2	CC..0602	M2.5-6.0-3.5-60	T8	1.2	1	0.18
RBH-32-45LA-C	32	45	31	60	CK3/MCK3	CC..0602	M2.5-6.0-3.5-60	T8	1.2	1	0.34
RBH-32-45LA-T	32	45	31	60	CK3/MCK3	TC..1102	M2.5-6.0-3.5-60	T8	1.2	1	0.35
RBH-40-55LA-C	40	55	39	74	CK4/MCK4	CC..09T3	M4-10-5.7-60	T15	3.0	1	0.62
RBH-40-55LA-T	40	55	39	74	CK4/MCK4	TC..16T3	M4-10-5.0-43	T15	3.0	1	0.61
RBH-52-75LA-C	52	75	50	80	CK5/MCK5	CC..09T3	M4-10-5.7-60	T15	3.0	1	1.13
RBH-52-75LA-T	52	75	50	80	CK5/MCK5	TC..16T3	M4-10-5.0-43	T15	3.0	1	1.11
RBH-68-100LA-C	68	100	66	90	CK6/MCK6	CC..1204	M5-11-7.0-55	T20	5.0	1	2.20
RBH-68-100LA-T	68	100	66	90	CK6/MCK6	TC..16T3	M4-10-5.0-43	T15	3.0	1	2.21
RBH-90-130LA-C	90	130	88	100	CK6/MCK6	CC..1204	M5-11-7.0-55	T20	5.0	1	3.10
RBH-90-130LA-T	90	130	88	100	CK6/MCK6	TC..16T3	M4-10-5.0-43	T15	3.0	1	2.99
RBH-120-164LA-C	120	164	100	95	BST	CC..1204	M5-11-7.0-55	T20	5.0	2	3.80
RBH-120-164LA-T	120	164	100	95	BST	TC..2204	M5-11-7.0-55	T20	5.0	2	3.80
RBH-160-204LA-C	160	204	130	95	BST	CC..1204	M5-11-7.0-55	T20	5.0	2	4.80
RBH-160-204LA-T	160	204	130	95	BST	TC..2204	M5-11-7.0-55	T20	5.0	2	4.80

選配表 Option

刀桿 Shank	
B698-B700	B706

• 長度單位 Unit of Length (mm)

RBH-LA 新型大孔徑雙刃粗搪孔頭
RBH-LA LARGE DIAMETER ROUGH BORING HEAD



搪孔範圍
ø200~2000
Boring Range

特點 Feature

- RBH600LA 以下加工調整範圍為直徑 110mm，RBH600LA~RBH900LA 調整範圍為 300mm，RBH1200LA 以上調整範圍為 400mm

-Processing adjustment range RBH600LA within 110mm diameter RBH600LA of ~ RBH900LA adjustment range is 300mm, above RBH1200LA adjustment range of 400mm.

規格 Spec.	ØD 搪孔範圍 Boring Range		L	組合型式 Combination type								
	Min.	Max.		組合刀柄 Mck No.	連接盤 Flange		橫向滑板 Extension Slide		滑塊 Horizontal Slide	刀片座墊片 Insert Seat Shim	刀片座 Insert Seat	重量 (KGS) Weight
RBH200LA	200	310	130	BST	合金鋼	BR200	合金鋼	S-RST200	RS200	RS201	RB200C12 RB200T16 RB200T22 RB200S12 (四選一)	9.52
RBH300LA	300	410						S-RST300				11.52
RBH400LA	400	510						S-RST400				13.52
RBH500LA	500	610						S-RST500				15.52
RBH600LA	600	900	150	FMA 47.625	鋁合金	BR600		S-RST300X2 只				23.02
RBH900LA	900	1200				BR900		S-RST400X2 只				31.72
RBH1200LA	1200	1600	180			BR1200		S-RST500X2 只				46.62
RBH1600LA	1600	2000				BR1600						51.82

配件表 Accessories

刀片座 Insert Seat	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
RB200C12	CC..1204	M5-11-7.0-55	T20	5.0	0.68
RB200T16	TC..16T3	M4-10-5.0-43	T15	3.0	0.68
RB200T22	TC..2204	M5-11-7.0-55	T20	5.0	0.68
RB200S12	SC..1204	M5	T20	5.0	0.68

選配表 Option

刀桿 Shank

B706

• 長度單位 Unit of Length (mm)

BORING

搪孔刀片切削數據表
BORING HEAD INSERT CUTTING CONDITIONS

規格 Spec.	Mck No.	工件材質	刀片		切削速度 (m/min)	切削量 (mm/Ø)		進給量 (mm/rev)	
			刀片 R 角	刀片材質		推薦值	Max.	推薦值	Max.
RBH-25-35LA-C	MCK2 CK2	碳鋼、合金鋼	0.4/0.8	RM4035	140	2.5	3.5	0.25	0.35
		不鏽鋼		OM4010	140	2.0	3.0	0.25	0.35
		鑄鐵		RM315	120	2.5	3.5	0.30	0.35
		鋁合金		RM5005	160	3.5	4.5	0.35	0.40
RBH-32-45LA-C RBH-32-45LA-T	MCK3 CK3	碳鋼、合金鋼	0.4/0.8	RM4035	140	4.5	5.5	0.25	0.45
		不鏽鋼		OM4010	140	4.0	5.5	0.35	0.45
		鑄鐵		RM315	120	4.5	5.5	0.40	0.45
		鋁合金		RM5005	160	6.0	8.0	0.45	0.50
RBH-40-55LA-C RBH-40-55LA-T	MCK4 CK4	碳鋼、合金鋼	0.4/0.8	RM4035	140	6.0	8.0	0.30	0.50
		不鏽鋼		OM4010	140	6.0	8.0	0.40	0.45
		鑄鐵		RM315	120	6.0	8.0	0.45	0.50
		鋁合金		RM5005	160	8.0	10.0	0.45	0.55
RBH-52-75LA-C RBH-52-75LA-T RBH-68-100LA-C RBH-68-100LA-T RBH-90-130LA-C RBH-90-130LA-T	MCK5 CK5	碳鋼、合金鋼	0.4/0.8	RM4035	140	6.0	8.0	0.30	0.50
		不鏽鋼		OM4010	140	6.0	8.0	0.40	0.45
		鑄鐵		RM315	120	6.0	8.0	0.45	0.50
		鋁合金		RM5005	160	8.0	10.0	0.45	0.55
	MCK6 CK6	碳鋼、合金鋼	0.4/0.8	RM4035	140	6.0	8.0	0.35	0.50
		不鏽鋼		OM4010	140	6.0	8.0	0.40	0.45
		鑄鐵		RM315	120	6.0	8.0	0.45	0.50
		鋁合金		RM5005	160	8.0	10.0	0.45	0.55
RBH-120-164LA-C RBH-120-164LA-T RBH-160-204LA-C RBH-160-204LA-T RBH200LA RBH300LA RBH400LA RBH500LA RBH600LA RBH900LA RBH1200LA RBH1600LA	BST FMA47.625	碳鋼、合金鋼	0.4/0.8	RM4035	140	6.0	8.0	0.35	0.50
		不鏽鋼		OM4010	140	6.0	8.0	0.40	0.45
		鑄鐵		RM315	120	6.0	8.0	0.45	0.50
		鋁合金		RM5005	160	8.0	10.0	0.45	0.55

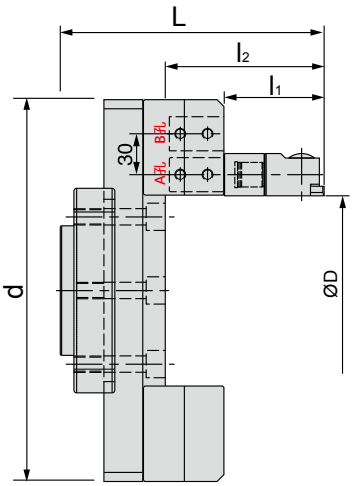
- 本表是切削數據的設定基準，請視當時的機床、工件材質、鐵屑的排出情況做適當的調整。

-The cutting data table is set benchmarks, please make the appropriate adjustments depend on the situation which machine tools, workpiece materials, iron chips discharge.

BORING

• 長度單位 Unit of Length (mm)

CBR 組合式外圓微調精搪刀系列
CBR MODULAR EXTERNAL FINISH BORING HEAD



搪孔範圍
ø10~850
Boring Range

規格 Spec.	ØD 搪孔範圍 Boring Range				L	l_1	l_2	d	重量 (KGS) Weight
	A 孔 A Hole		B 孔 B Hole						
	Min.	Max.	Min.	Max.					
CBR200	10	90	70	150	190/220	70/100	115/145	180	9.70
CBR300	10	190	70	250	190/220	70/100	115/145	280	11.7
CBR400	10	290	70	350	190/220	70/100	115/145	380	13.7
CBR500	10	390	70	450	190/220	70/100	115/145	480	15.7
CBR600	200	490	400	850	210/240	70/100	115/145	580	19.6
CBR900	200	790	500	1150	210/240	70/100	115/145	880	30.8

規格 Spec.	組合型式 Combination type								
	組合刀柄 Mck No.	連接盤 Flange		橫向滑板 Extension Slide		平衡滑塊 Balance Slide	外圓滑塊 Clamp Base	外圓用接桿 Adapter For External Boring	組合搪頭 Applicable Boring Head
CBR200	BST	□□鋼	BR200 (2.7KG)	□□□	A-RST200 (1.1KG)	RBN200 (1.6KG)	HBR200 (1.3KG)	C25-SCK3-30 (0.3KG) C25-SCK3-60 (0.5KG) (□□□)	CBH32
CBR300	BST				A-RST300 (1.9KG)				
CBR400	BST				A-RST400 (2.7KG)				
CBR500	BST				A-RST500 (3.5KG)				
CBR600	FMA 47.625	□□□	BR600 (8.8KG)		A-RST300X2□ (3.8KG)				
CBR900	FMA 47.625		BR900 (13.5KG)		A-RST400X2□ (5.4KG)				

※ 在主軸逆轉下使用 Spindle reversal using.

選配表 Option

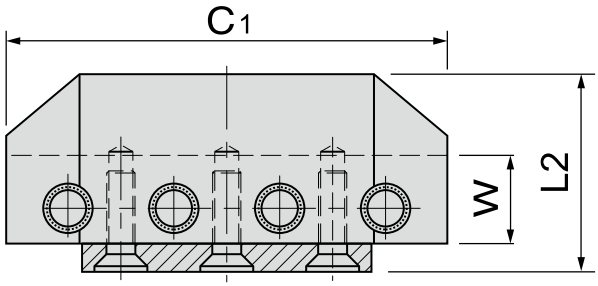
刀桿 Shank

B706

• 長度單位 Unit of Length (mm)

BORING

WBST 四方柄徑搪孔刀架
WBST SQUARE BORING TOOL REST

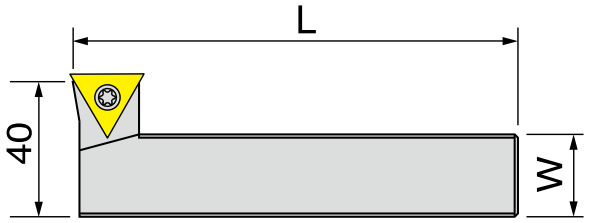


搪孔範圍
ø150~500
Boring Range

規格 Spec.	øD 搪孔範圍 Boring Range		組合刀柄 No.	L_2	C_1	W	重量 (KGS) Weight
	Min.	Max.					
A-WBST150	150	250	BST	55	125	25	1.03
S-WBST150	150	250	BST	55	125	25	2.50
A-WBST200	200	300	BST	55	175	25	1.50
S-WBST200	200	300	BST	55	175	25	3.60
A-WBST300	300	400	BST	55	275	25	2.34
S-WBST300	300	400	BST	55	275	25	6.00
A-WBST400	400	500	BST	55	375	25	3.17
S-WBST400	400	500	BST	55	375	25	8.30

※ 規格 A- 材質為鋁合金，規格 S- 為合金鋼 Spec. A-made of aluminum alloy, Spec. S- steels alloy.

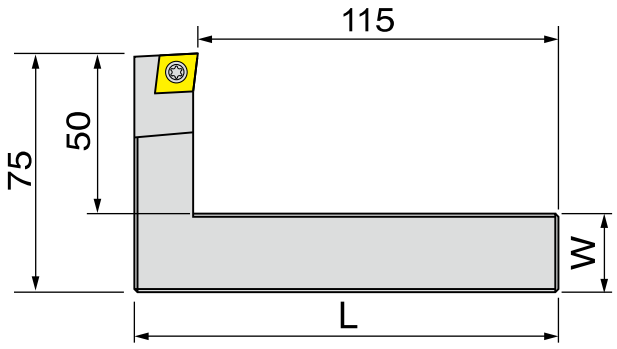
WBST 刀盤專用四方柄搪刀
WBST SQUARE SHANK BORING TOOL HOLDER



規格 Spec.	L	W	使用刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
BSB25-T16-135	135	25	TC..16T3	M4-10-5.0-43	T15	3.0	0.67
BSB25-T22-135	135	25	TC..2204	M5-11-7.0-55	T20	5.0	0.67
BSB25-C12-135	135	25	CC..1204	M5-11-7.0-55	T20	5.0	0.67
BSB25-S12-135	135	25	SC..1204	M5-11-7.0-55	T20	5.0	0.67

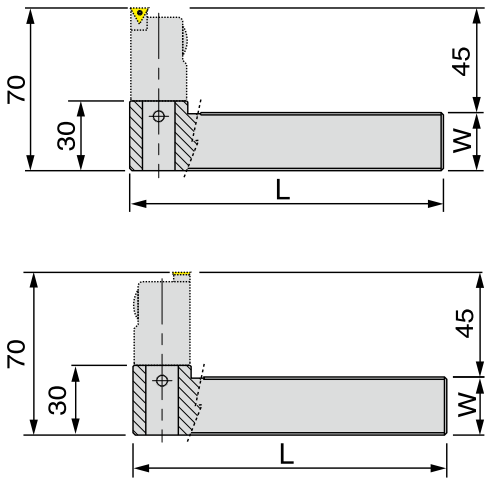
• 長度單位 Unit of Length (mm)

WBST 刀盤專用四方柄外圓搪刀
WBST SQUARE SHANK EXTERNAL BORING TOOL HOLDER



規格 Spec.	L	W	有效加工深度 Valid depth	使用刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
EBSB25-T16-135-50	135	25	40	TC..16T3	M4-10-5.0-43	T15	3.0	0.8
EBSB25-C12-135-50	135	25	40	CC..1204	M5-11-7.0-55	T20	5.0	0.8

WBST 刀盤專用四方柄內外圓精搪孔刀架
WBST SQUARE INTERNAL & EXTERNAL BORING TOOL HOLDER



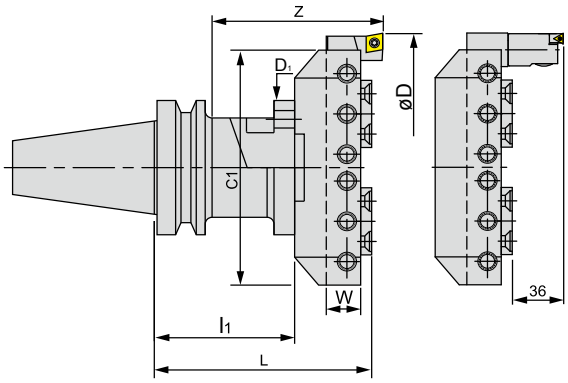
規格 Spec.	L	W	加工深度	搪頭 Boring Head	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
BSB25-SCK2-135	135	25	36	CBH25	TP..0802	M2-5.0-3.1-60	T6	0.6	0.63

※ 此規格不含搪刀頭 Boring head is not included.

BORING

• 長度單位 Unit of Length (mm)

WBST 四方柄大徑搪刀 +BST 刀桿
WBST SQUARE LARGE BORING CUTTER+BST SHANK



搪孔範圍	精度	最高轉速
ø150~510 Boring Range	0.01mm Accuracy	8000 Max. rpm

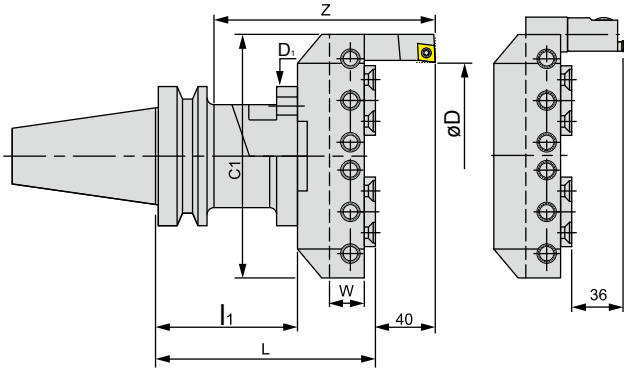
WBST 四方柄搪孔刀架 +BST 刀桿 +BSB25 四方柄搪刀

規格 Spec.	øD 搪孔範圍 Boring Range		Z	組合內容 Tool Connection		組合刀柄 No.	L	l_1	D_1	重量 (KGS) Weight
	Min.	Max.		BST 刀桿 BST Shank	WBST 刀桿 WBST Tool Rest					
BT40-WBST150-125	150	260	90	BT40-BST-70	WBST150	BST	150	70	95	5.70
BT40-WBST200-125	200	310	90	BT40-BST-70	WBST200	BST	150	70	95	6.80
BT50-WBST150-155	150	260	110	BT50-BST-100	WBST150	BST	155	100	95	7.60
BT50-WBST150-205	150	260	160	BT50-BST-150	WBST150	BST	205	150	95	9.30
BT50-WBST150-255	150	260	210	BT50-BST-200	WBST150	BST	255	200	95	12.1
BT50-WBST150-305	150	260	260	BT50-BST-250	WBST150	BST	305	250	95	14.0
BT50-WBST150-355	150	260	310	BT50-BST-300	WBST150	BST	355	300	95	16.0
BT50-WBST150-405	150	260	360	BT50-BST-350	WBST150	BST	405	350	95	18.6
BT50-WBST150-455	150	260	410	BT50-BST-400	WBST150	BST	455	400	95	21.8
BT50-WBST200-155	200	310	110	BT50-BST-100	WBST200	BST	155	100	95	8.70
BT50-WBST200-205	200	310	160	BT50-BST-150	WBST200	BST	205	150	95	10.4
BT50-WBST200-255	200	310	210	BT50-BST-200	WBST200	BST	255	200	95	13.2
BT50-WBST200-305	200	310	260	BT50-BST-250	WBST200	BST	305	250	95	15.1
BT50-WBST200-355	200	310	310	BT50-BST-300	WBST200	BST	355	300	95	17.1
BT50-WBST200-405	200	310	360	BT50-BST-350	WBST200	BST	405	350	95	19.7
BT50-WBST200-455	200	310	410	BT50-BST-400	WBST200	BST	455	400	95	22.9
BT50-WBST300-155	300	410	110	BT50-BST-100	WBST300	BST	155	100	95	11.1
BT50-WBST300-205	300	410	160	BT50-BST-150	WBST300	BST	205	150	95	12.8
BT50-WBST300-255	300	410	210	BT50-BST-200	WBST300	BST	255	200	95	15.6
BT50-WBST300-305	300	410	260	BT50-BST-250	WBST300	BST	305	250	95	17.5
BT50-WBST300-355	300	410	310	BT50-BST-300	WBST300	BST	355	300	95	19.5
BT50-WBST300-405	300	410	360	BT50-BST-350	WBST300	BST	405	350	95	22.1
BT50-WBST300-455	300	410	410	BT50-BST-400	WBST300	BST	455	400	95	25.3
BT50-WBST400-155	400	510	110	BT50-BST-100	WBST400	BST	155	100	95	13.4
BT50-WBST400-205	400	510	160	BT50-BST-150	WBST400	BST	205	150	95	15.1
BT50-WBST400-255	400	510	210	BT50-BST-200	WBST400	BST	255	200	95	17.9
BT50-WBST400-305	400	510	260	BT50-BST-250	WBST400	BST	305	250	95	19.8
BT50-WBST400-355	400	510	310	BT50-BST-300	WBST400	BST	355	300	95	21.8
BT50-WBST400-405	400	510	360	BT50-BST-350	WBST400	BST	405	350	95	24.4
BT50-WBST400-455	400	510	410	BT50-BST-400	WBST400	BST	455	400	95	27.6

※ 此規格不含 BSB25 四方柄搪刀 This specification is not included BSB25 Quartet Shank Boring Tool.

• 長度單位 Unit of Length (mm)

WBST 四方柄大徑搪刀 +BST 刀桿外圓加工用
WBST SQUARE LARGE BORING CUTTER+BST SHANK



搪孔範圍
ø80~450
Boring Range

WBST 四方柄搪孔刀架 +BST 刀桿 +BSB25 四方柄外圓搪刀

規格 Spec.	øD 搪孔範圍 Boring Range		Z	加工深度 depth	組合內容 Tool Connection		組合刀柄 No.	L	l_1	D_1	重量 (KGS) Weight
	Min.	Max.			BST 刀桿 BST Shank	WBST 刀桿 WBST Tool Rest					
BT40-WBST150-125	80	200	90	36	BT40-BST-70	WBST150	BST	150	70	95	5.7
BT40-WBST200-125	130	250	90	36	BT40-BST-70	WBST200	BST	150	70	95	6.8
BT50-WBST150-155	80	200	110	36	BT50-BST-100	WBST150	BST	155	100	95	7.6
BT50-WBST150-205	80	200	160	36	BT50-BST-150	WBST150	BST	205	150	95	9.3
BT50-WBST150-255	80	200	210	36	BT50-BST-200	WBST150	BST	255	200	95	12.1
BT50-WBST150-305	80	200	260	36	BT50-BST-250	WBST150	BST	305	250	95	14
BT50-WBST150-355	80	200	310	36	BT50-BST-300	WBST150	BST	355	300	95	16
BT50-WBST150-405	80	200	360	36	BT50-BST-350	WBST150	BST	405	350	95	18.6
BT50-WBST150-455	80	200	410	36	BT50-BST-400	WBST150	BST	455	400	95	21.8
BT50-WBST200-155	130	250	110	36	BT50-BST-100	WBST200	BST	155	100	95	8.7
BT50-WBST200-205	130	250	160	36	BT50-BST-150	WBST200	BST	205	150	95	10.4
BT50-WBST200-255	130	250	210	36	BT50-BST-200	WBST200	BST	255	200	95	13.2
BT50-WBST200-305	130	250	260	36	BT50-BST-250	WBST200	BST	305	250	95	15.1
BT50-WBST200-355	130	250	310	36	BT50-BST-300	WBST200	BST	355	300	95	17.1
BT50-WBST200-405	130	250	360	36	BT50-BST-350	WBST200	BST	405	350	95	19.7
BT50-WBST200-455	130	250	410	36	BT50-BST-400	WBST200	BST	455	400	95	22.9
BT50-WBST300-155	230	350	110	36	BT50-BST-100	WBST300	BST	155	100	95	11.1
BT50-WBST300-205	230	350	160	36	BT50-BST-150	WBST300	BST	205	150	95	12.8
BT50-WBST300-255	230	350	210	36	BT50-BST-200	WBST300	BST	255	200	95	15.6
BT50-WBST300-305	230	350	260	36	BT50-BST-250	WBST300	BST	305	250	95	17.5
BT50-WBST300-355	230	350	310	36	BT50-BST-300	WBST300	BST	355	300	95	19.5
BT50-WBST300-405	230	350	360	36	BT50-BST-350	WBST300	BST	405	350	95	22.1
BT50-WBST300-455	230	350	410	36	BT50-BST-400	WBST300	BST	455	400	95	25.3
BT50-WBST400-155	330	450	110	36	BT50-BST-100	WBST400	BST	155	100	95	13.4
BT50-WBST400-205	330	450	160	36	BT50-BST-150	WBST400	BST	205	150	95	15.1
BT50-WBST400-255	330	450	210	36	BT50-BST-200	WBST400	BST	255	200	95	17.9
BT50-WBST400-305	330	450	260	36	BT50-BST-250	WBST400	BST	305	250	95	19.8
BT50-WBST400-355	330	450	310	36	BT50-BST-300	WBST400	BST	355	300	95	21.8
BT50-WBST400-405	330	450	360	36	BT50-BST-350	WBST400	BST	405	350	95	24.4
BT50-WBST400-455	330	450	410	36	BT50-BST-400	WBST400	BST	455	400	95	27.6

※ 此規格不含 BSB25 四方柄搪刀 Not included BSB25 Square Shank External Boring Tool holder.
※ 拆掉護蓋，有效深可達到 45，最小搪孔範圍可達到 Ø10. Applicable Boring Depth up to 45mm with Minimum Boring Range down to Ø10mm after taking off the Shield.

• 長度單位 Unit of Length (mm)

Feature

CBH特點

微調單位：圓周50等分，每格調整尺寸為直徑0.01mm，另有副尺可作更精細之調整，搪孔範圍Ø20~Ø202均可搭配選用。

搭配T型刀片離隙角為3°。

刀座心軸採用方型結構，雙支撐面固定，所以切削穩定且剛性大。

Micro-adjustments with fifty 0.01mm in diameter. Includes a sub-dial for finer adjustments ranging from Ø20mm~Ø202mm.
T-type insert has a clearance angle of 3°.
The insert seat spindle use square structure with two face support, proving high stability and rigidity on diameter.

CBH大孔徑

橫向滑板，搪孔範圍Ø200~Ø2000均可搭配選用，材質採用鋁合金製，可減少重量。

平衡滑塊，減少搪孔時的不平衡量。

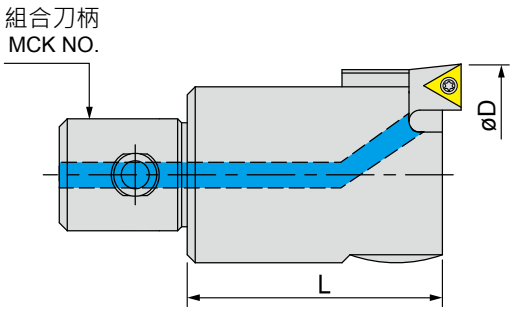
刀座心軸採用方型結構，雙支撐面固定，所以切削穩定且剛性大。

微調滑塊，每格調整尺寸為直徑0.01mm。

Horizontal boring ranges from Ø200mm ~ Ø2000mm in diameter and is made with light-weight aluminum alloy.
Sliding counter-weight for long term precision.
0.01mm diameter Micro-adjustable sliding block.

Boring Head

CBH 微調精搪孔頭
CBH FINISH BORING HEAD



搪孔範圍 Boring Range	精度 Accuracy	最高轉速 Max. rpm
ø20~202	0.01mm	6000

規格 Spec.	øD 搪孔範圍 Boring Range		組合刀柄 Mck No.	L	刀片座 insert Seat	使用刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
	Min.	Max.								
CBH20-TB06	20	26	MCK1	35	-	TB..0601	M2-5.0-2.7-60	T6	0.6	0.19
CBH25-TB06	25	33	MCK2	40	-	TB..0601	M2-5.0-2.7-60	T6	0.6	0.20
CBH32-TB06	32	42	MCK3	40	CBH32-TB06-S	TB..0601	M2-5.0-2.7-60	T6	0.6	0.28
CBH40-TB06	40	55	MCK4	50	CBH40-TB06-S	TB..0601	M2-5.0-2.7-60	T6	0.6	0.59
CBH20-TP08	20	26	MCK1	35	-	TP..0802	M2-5.0-3.1-60	T6	0.6	0.19
CBH25-TP08	25	33	MCK2	40	-	TP..0802	M2-5.0-3.1-60	T6	0.6	0.26
CBH32-TP08	32	42	MCK3	40	CBH32-TP08-S	TP..0802	M2-5.0-3.1-60	T6	0.6	0.37
CBH40-TP08	40	55	MCK4	50	CBH40-TP08-S	TP..0802	M2-5.0-3.1-60	T6	0.6	0.52
CBH20-TC09	20	26	MCK1	35	-	TC..0902	M2-5.0-3.1-60	T6	0.6	0.19
CBH25-TC09	25	33	MCK2	40	-	TC..0902	M2-5.0-3.1-60	T6	0.6	0.20
CBH32-TC09	32	42	MCK3	40	CBH32-TC09-S	TC..0902	M2-5.0-3.1-60	T6	0.6	0.37
CBH40-TC09	40	55	MCK4	50	CBH40-TC09-S	TC..0902	M2-5.0-3.1-60	T6	0.6	0.50
CBH20-TP09	20	26	MCK1	35	-	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.10
CBH25-TP09	25	33	MCK2	40	-	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.20
CBH32-TP09	32	42	MCK3	40	CBH32-TP09-S	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.30
CBH40-TP09	40	55	MCK4	50	CBH40-TP09-S	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.50
CBH52-TP08	52	75	MCK5	60	CBH52-TP08-S	TP..0802	M2-5.0-3.1-60	T6	0.6	1.02
CBH68-TP08	68	102	MCK6	72	CBH68-TP08-S	TP..0802	M2-5.0-3.1-60	T6	0.6	2.02
CBH100-TP08	100	152	MCK6	72	CBH68-TP08-S	TP..0802	M2-5.0-3.1-60	T6	0.6	2.90
CBH100B-TP08	100	152	BST	95	CBH68-TP08-S	TP..0802	M2-5.0-3.1-60	T6	0.6	3.70
CBH150-TP08	150	202	MCK6	72	CBH68-TP08-S	TP..0802	M2-5.0-3.1-60	T6	0.6	4.43
CBH150B-TP08	150	202	BST	95	CBH68-TP08-S	TP..0802	M2-5.0-3.1-60	T6	0.6	4.90
CBH52-TP09	52	75	MCK5	60	CBH52-TP09-S	TP..0902	M2.5-6.0-3.5-60	T8	1.2	1.00
CBH68-TP09	68	102	MCK6	72	CBH68-TP09-S	TP..0902	M2.5-6.0-3.5-60	T8	1.2	2.00
CBH100-TP09	100	152	MCK6	72	CBH68-TP09-S	TP..0902	M2.5-6.0-3.5-60	T8	1.2	3.16
CBH100B-TP09	100	152	BST	95	CBH68-TP09-S	TP..0902	M2.5-6.0-3.5-60	T8	1.2	3.70
CBH150-TP09	150	202	MCK6	72	CBH68-TP09-S	TP..0902	M2.5-6.0-3.5-60	T8	1.2	4.20
CBH150B-TP09	150	202	BST	95	CBH68-TP09-S	TP..0902	M2.5-6.0-3.5-60	T8	1.2	4.90
CBH52-TC11	52	75	MCK5	60	CBH52-TC11-S	TC..1102	M2.5-6.0-3.5-60	T8	1.2	1.00
CBH68-TC11	68	102	MCK6	72	CBH68-TC11-S	TC..1102	M2.5-6.0-3.5-60	T8	1.2	2.00
CBH100-TC11	100	152	MCK6	72	CBH68-TC11-S	TC..1102	M2.5-6.0-3.5-60	T8	1.2	2.90
CBH100B-TC11	100	152	BST	95	CBH68-TC11-S	TC..1102	M2.5-6.0-3.5-60	T8	1.2	3.70
CBH150-TC11	150	202	MCK6	72	CBH68-TC11-S	TC..1102	M2.5-6.0-3.5-60	T8	1.2	4.20
CBH150B-TC11	150	202	BST	95	CBH68-TC11-S	TC..1102	M2.5-6.0-3.5-60	T8	1.2	4.90

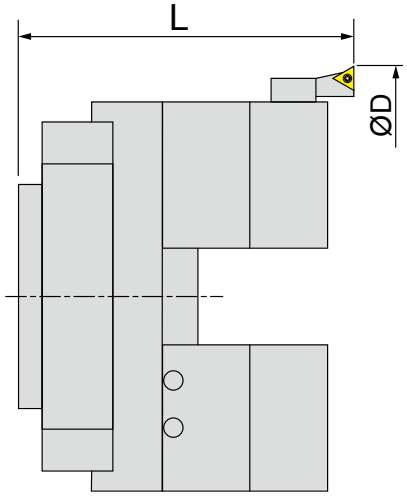
選配表 Option

刀桿 Shank	
B698-B700	B706

• 長度單位 Unit of Length (mm)

BORING

CBH 新型大孔徑微調搪孔頭
CBH LARGE DIAMETER FINISH BORING HEAD



搪孔範圍 ø200~2000 Boring Range

精度 0.01mm Accuracy

特點 Feature

- CBH600 以下加工調整範圍為直徑 110mm，CBH600~CBH900 調整範圍為 300mm，CBH1200 以上調整範圍為 400mm

- Processing adjustment range below CBH600 is 110mm diameter, CBH600 of ~ RBH900 adjustment range is 300mm, above CBH1200 adjustment range is 400mm.

規格 Spec.	øD 搪孔範圍 Boring Range		L	組合型式 Combination type								
	Min.	Max.		組合刀柄 Mck No.	連接盤 Flange		橫向滑板 Extension Slide	平衡滑塊 Balance Slide	微調滑塊 Micro-Adjusted Sliding Block	刀片座 Insert Seat	刀片 Insert	重量 (KGS) Weight
CBH200	200	310	130	BST		BR200		A-RST200	RBN200	CB200			7.40
CBH300	300	410	130	BST		BR200		A-RST300	RBN200	CB200			8.20
CBH400	400	510	130	BST		BR200		A-RST400	RBN200	CB200			9.00
CBH500	500	610	130	BST		BR200		A-RST500	RBN200	CB200	CBH68-TP08-S CBH68-TP09-S CBH68-TC11-S	TP..0802 TP..0902 TC..1102 (□□□)	9.80
CBH600	600	900	150	FMA47.625		BR600		A-RST300x2□	RBN200	CB200			16.20
CBH900	900	1200	150	FMA47.625		BR900		A-RST400x2□	RBN200	CB200			21.40
CBH1200	1200	1600	180	FMA47.625		BR1200		A-RST500x2□	RBN200	CB200			35.00
CBH1600	1600	2000	180	FMA47.625		BR1600		A-RST500x2□	RBN200	CB200			40.20

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
TP..0802	M2-5.0-3.1-60	T6	0.6
TP..0902	M2.5-6.0-3.5-60	T8	1.2
TC..1102	M2.5-6.0-3.5-60	T8	1.2

選配表 Option

刀桿 Shank
B706

• 長度單位 Unit of Length (mm)

Feature

MBH特點

微調單位：每刻度移動量為0.01mm，另有副尺可做更精確之調整，精密導程螺絲與螺帽均經硬化處理，堅固耐用。

搭配T型刀片離隙角為3°，C型刀片離隙角為 0°

刀片座可承靠於本體上，能穩定搪孔尺寸與增加加工面光滑度。

內藏式水孔，易於排屑與冷卻。

Micro-adjustments with fifty 0.01mm in diameter. Includes a sub-dial for finer adjustments.
High precision lead screw and nut are heat hardened for high durability.
T-type inserts with clearance angle of 3° or 0°.
Interchangeable insert seats are able to stabilize and improve surface quality.
Built-in coolant nozzle improves chip removal rate and workpeice quality.

A型刀座
A-Type Insert seat

B型刀座
B-Type Insert seat

MBH40~MBH500皆附A、B型兩款刀座、可自行更換增加搪孔範圍、節省客戶另外購買刀座之成本。

MBH40-MBH500 offers exchangeable A and B insert-holders for exchange on demand to obtain the optimum boring range and cost.

Boring Head

MBH 微調精搪孔頭
MBH FINISH BORING HEAD

搪孔範圍 ø16~200 Boring Range

最高轉速 8000 Max. rpm

Fig.1

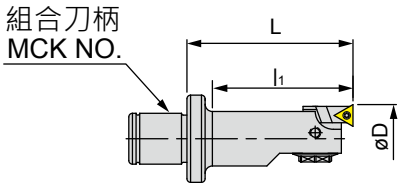
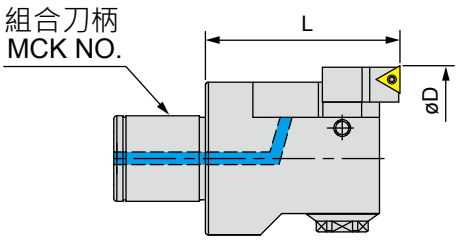


Fig.2



特點 Feature

- MBH 精搪刀使用於精切削搪孔，搪孔範圍 Ø16~Ø200mm 均可搭配選用
- 調整刻度每格調整尺寸為直徑 0.01mm
- 精密導程螺絲與螺帽均經硬化處理，堅固耐用
- 內藏式水孔，易於排屑與冷卻
- 刀片座為兩面固定無振動產生，可增加刀片壽命與加工面光滑度

- MBH Finish Boring Head is suitable for fine boring with working range from Ø16 to Ø200mm diameter.
- Every division for adjustment is 0.01mm diameter.
- High precision lead screw and nut have been heat treated and hardened, with high durability.
- Built-in coolant nozzle is easy for chip removal and cooling.
- Insert holder is with two-face support, free of vibration, which will also extend the working life of insert and ensure smoothness of working surface.

規格 Spec.		øD 搪孔範圍 Boring Range Min.	Max.	組合刀柄 Mck No.	L	l1	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
MBH16A		16	20	MCK2	55	50	WC..02	M2.0-5.0-2.7-60	T6	0.6	1	0.09
MBH20		20	26	MCK1	35		WC..02	M2.0-5.0-2.7-60	T6	0.6	2	0.07
MBH25		25	32	MCK2	40		WC..02	M2.0-5.0-2.7-60	T6	0.6	2	0.12
MBH32		32	42	MCK3	40		TP..0902	M2.5-6.0-3.5-60	T8	1.2	2	0.23
		32	42	MCK3	40		TC..0902	M2-5.0-3.1-60	T6	0.6	2	0.23
MBH32C		32	42	MCK3	40		CC..0602	M2.5-6.0-3.5-60	T8	1.2	2	0.23
MBH40	A	40	55	MCK4	50		TP..1103 TC..1102 CC..0602	M3-8.0-4.0-43 M2.5-6.0-3.5-60 M2.5-6.0-3.5-60	T9 T8 T8	1.4 1.2 1.2	2	0.43
	B	55	70	MCK4	50						2	0.43
MBH52	A	52	70	MCK5	60		TP..1103 TC..1102 CC..0602	M3-8.0-4.0-43 M2.5-6.0-3.5-60 M2.5-6.0-3.5-60	T9 T8 T8	1.4 1.2 1.2	2	0.9
	B	67	85	MCK5	60						2	0.9
MBH68	A	68	88	MCK6	75		TP..1103 TC..1102 CC..09T3	M3-8.0-4.0-43 M2.5-6.0-3.5-60 M4-10-5.7-60	T9 T8 T15	1.4 1.2 3.0	2	1.86
	B	85	105	MCK6	75						2	1.86
MBH100	A	100	140	BST	105		TP..1103 TC..1102 CC..1204	M3-8.0-4.0-43 M2.5-6.0-3.5-60 M5-11-7.0-55	T9 T8 T20	1.4 1.2 5.0	2	4.08
	B	120	160	BST	105						2	4.08
MBH140	A	140	180	BST	105		TP..1103 TC..1102 CC..1204	M3-8.0-4.0-43 M2.5-6.0-3.5-60 M5-11-7.0-55	T9 T8 T20	1.4 1.2 5.0	2	5.45
	B	160	200	BST	105						2	5.45

※MBH40、MBH52、MBH68、MBH100、MBH140、MBH200、MBH300、MBH400、MBH500 各有 A、B 兩款刀片座，由使用者自行替換，以達到最大搪孔範圍

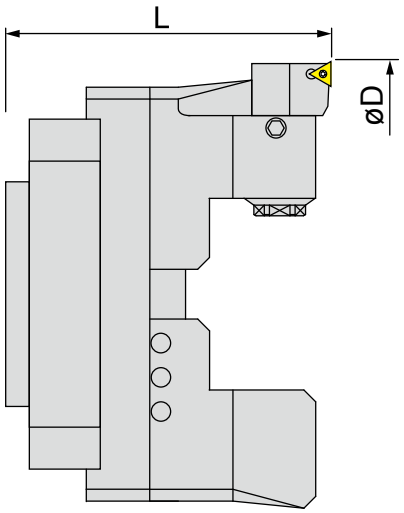
※Each of MBH40、MBH52、MBH68、MBH100、MBH140、MBH200、MBH300、MBH400、MBH500 is with both A and B insert-holders for exchange on demand to obtain the maximum boring range.

選配表 Option

刀桿 Shank	
B698-B700	B706

• 長度單位 Unit of Length (mm)

MBH 大孔徑微調精搪孔頭
MBH LARGE DIAMETER FINISH BORING HEAD



搪孔範圍 Boring Range	精度 Accuracy	最高轉速 Max. rpm
ø16~200	0.01mm	8000

特點 Feature

- MBH 精搪刀使用於精切削搪孔，搪孔範圍 Ø200~Ø1250mm 均可搭配選用
- 調整刻度每格調整尺寸為直徑 0.01mm
- 精密導程螺絲與螺帽均經硬化處理，堅固耐用
- 刀片座為兩面固定無振動產生，可增加刀片壽命與加工面光滑度

- MBH Finish Boring Head is suitable for fine boring with working range from Ø200 to Ø1250mm diameter.
- Every division for adjustment is 0.01mm diameter.
- High precision lead screw and nut have been heat treated and hardened, with high durability.
- Insert holder is with two-face support, free of vibration, which will also extend the working life of insert and ensure smoothness of working surface.

規格 Spec.	øD 搪孔範圍 Boring Range			組合刀柄 Mck No.	L	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
		Min.	Max.							
MBH200	A	200	260	BST	130	TC..1102 TP..1103 CC..1204	M2.5-6.0-3.5-60 M3-8.0-4.0-43 M5-11-7.5-60	T8 T9 T20	1.2 1.4 5.0	7.5
	B	250	310	BST	130					
MBH300	A	300	360	BST	130					8.3
	B	350	410	BST	130					
MBH400	A	400	460	BST	130					9.1
	B	450	510	BST	130					
MBH500	A	500	560	BST	130					9.9
	B	550	610	BST	130					
MBH600	A	600	900	FMA47.625	150					16.3
MBH900	A	900	1250	FMA47.625	150					22.6

選配表 Option

刀桿 Shank
B706

• 長度單位 Unit of Length (mm)

BORING

FBH55 組合圖 Combination

刀片座
Insert Seat

CK刀桿
CK Shank

等徑搪刀延長桿
Extension
(Constant Diameter)

FBH55精密微調精搪孔頭
FBH55 Micro Adjustment Boring Head

C16-BRM轉接桿
C16-BRM Transfer Bar

C16-BM10轉接螺帽
C16-BM10 Nut

FB2740-TP09
(Ø27~Ø40)

SH-M5-10-8

FB3550-TP09
(Ø35~Ø50)

SH-M5-12-10

FB4565-TP09
(Ø45~Ø65)

SH-M5-12-13

FB5580-TP09
(Ø55~Ø80)

FB68104-TP09
(Ø68~Ø104)

SH-M10-25-16

FB100154-TP09
(Ø100~Ø154)

Ø16

BR1606-21-C (Ø6~Ø9)

BR1608-28-C (Ø8~Ø11)

BR1610-35-C (Ø10~Ø13)

BR1612-42-C (Ø12~Ø15)

BR1614-50-C (Ø14~Ø17)

BR1616-60-C (Ø16~Ø20)

BR1620-65-C (Ø20~Ø24)

BR1624-68-C (Ø24~Ø28)

BR替換式搪孔刀柄
BR INTERCHANGABLE BORING CUTTER

FBH68 組合圖 Combination

CK刀桿
CK Shank

等徑搪刀延長桿
Extension
(Constant Diameter)

FBH68精密微調精搪孔頭
FBH68 Micro Adjustment Boring Head

C16-BRM轉接桿
C16-BRM Transfer Bar

刀片座
Insert Seat

FB2740-TP09
(Ø27~Ø40)

SH-M5-10-8

FB3550-TP09
(Ø35~Ø50)

SH-M5-12-10

FB4565-TP09
(Ø45~Ø68)

SH-M5-12-13

C16-BM10轉接螺帽
C16-BM10 Nut

FB68104-TP09
(Ø68~Ø104)

SH-M10-25-16

FB100154-TP09
(Ø100~Ø154)

AP150204轉接板
AP150204 Adapter Plate
(Ø150~Ø204)

SH-M5-20-8

FB100154-TP09
(Ø100~Ø154)

SH-M10-25-16

AP100平衡塊
AP100 Balance Base

SH-M10-25-16

Ø16

BR1606-21-C (Ø6~Ø9)

BR1608-28-C (Ø8~Ø11)

BR1610-35-C (Ø10~Ø13)

BR1612-42-C (Ø12~Ø15)

BR1614-50-C (Ø14~Ø17)

BR1616-60-C (Ø16~Ø20)

BR1620-65-C (Ø20~Ø24)

BR1624-68-C (Ø24~Ø28)

BR替換式搪孔刀柄
BR INTERCHANGABLE BORING CUTTER

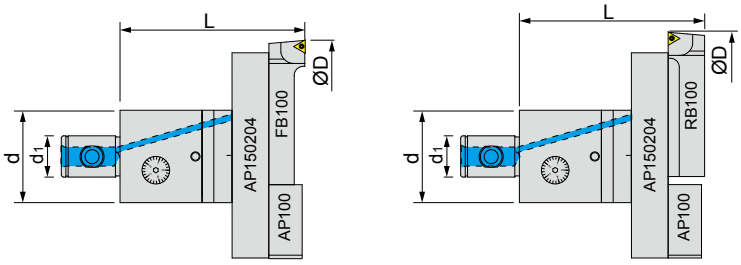
FBH 精密微調精搪孔頭
FBH MICRO ADJUSTMENT BORING HEAD

正搪 Forward Boring

背搪 Reverse Boring

Fig.1

Fig.2



搪孔範圍 ø55~204 Boring Range

精度 0.002mm Accuracy

規格 Spec.	øD 搪孔範圍 Boring Range(正搪)				øD 搪孔範圍 Boring Range(背搪 Back Boring)					d	d1	組合刀柄 ck No.	刀片 Insert	Fig.	重量 (KGS) Weight
	Min.	Max.	Insert Seat	L	Min.	Max.	刀片座 Insert Seat	L	l1						
FBH55	55	80	FB5580-TP09	85	60	84	RB6084-TP09	85	60	50	28	CK	TP..0902	1	1.04
	68	104	FB68104-TP09	95	78	115	RB78115-TP09	95	70	50	28	CK	TP..0902	1	1.11
	100	154	FB100154-TP09	95	110	164	RB110164-TP09	95	70	50	28	CK	TP..0902	1	1.22
	150	204	FB100154-TP09 AP150204 AP100	120	160	214	RB110164-TP09 AP150204 AP100	120	95	140	28	CK	TP..0902	2	2.13
FBH68	68	104	FB68104-TP09	100	78	115	RB78115-TP09	100	75	63	36	CK	TP..0902	1	2.00
	100	154	FB100154-TP09	100	110	164	RB110164-TP09	100	75	63	36	CK	TP..0902	1	2.11
	150	204	FB100154-TP09 AP150204 AP100	125	160	214	RB110164-TP09 AP150204 AP100	125	100	140	36	CK	TP..0902	2	3.02

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
TP..0902	M2.5-6.0-3.5-60	T8	1.2

選配表 Option

刀桿 Shank
B698-B700

• 長度單位 Unit of Length (mm)

BORING

FBH 精密微調精搪孔頭刀桿
FBH MICRO ADJUSTMENT BORING HEAD SHANK

正搪
Forward Boring

搪孔範圍
ø55~104
Boring Range

精度
0.002mm
Accuracy

Fig.1

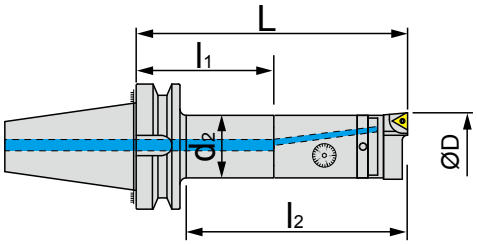
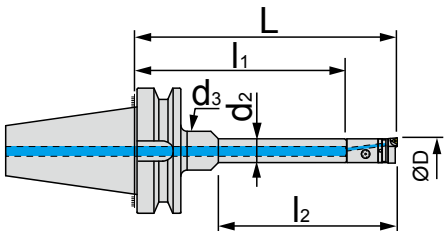


Fig.2



規格 Spec.	øD 搪孔範圍 Boring Range		搪孔組合 Tools Combination		L	l1	l2	d2	d3	組合刀柄 Ck No.	Fig.	重量 (KGS) Weight
	Min.	Max.	刀桿 Shank	搪頭 - 刀片座 Boring Head - Insert Seat								
BT30-FBH55-145	55	80	BT30-CK5-60	FBH55-FB5580-TP09	145	60	115	50	-	CK	1	1.84
BT30-FBH68-160	68	104	BT30-CK6-60	FBH68-FB68104-TP09	160	60	130	64	-	CK	1	3.00
BT40-FBH55-160	55	80	BT40-CK5-75	FBH55-FB5580-TP09	160	75	125	50	-	CK	1	2.34
BT40-FBH55-210	55	80	BT40-CK5-125	FBH55-FB5580-TP09	210	125	175	50	-	CK	1	3.34
BT40-FBH55-260	55	80	BT40-CK5-175	FBH55-FB5580-TP09	260	175	225	50	-	CK	1	4.04
BT40-FBH68-165	68	104	BT40-CK6-65	FBH68-FB68104-TP09	165	65	130	50	-	CK	1	3.30
BT40-FBH68-215	68	104	BT40-CK6-115	FBH68-FB68104-TP09	215	115	180	50	-	CK	1	4.70
BT40-FBH68-265	68	104	BT40-CK6-165	FBH68-FB68104-TP09	265	165	230	50	-	CK	1	5.90
BT50-FBH55-190	55	80	BT50-CK5-105	FBH55-FB5580-TP09	190	105	145	50	-	CK	1	5.54
BT50-FBH55-265	55	80	BT50-CK5-180	FBH55-FB5580-TP09	265	180	220	50	-	CK	1	6.54
BT50-FBH55-325	55	80	BT50-CK5-240	FBH55-FB5580-TP09	325	240	280	50	-	CK	1	7.24
BT50-FBH55-385	55	80	BT50-CK5-300	FBH55-FB5580-TP09	385	300	280	50	64	CK	2	8.64
BT50-FBH68-195	68	104	BT50-CK6-95	FBH68-FB68104-TP09	195	95	150	64	-	CK	1	6.50
BT50-FBH68-270	68	104	BT50-CK6-170	FBH68-FB68104-TP09	270	170	225	64	-	CK	1	8.30
BT50-FBH68-330	68	104	BT50-CK6-230	FBH68-FB68104-TP09	330	230	285	64	-	CK	1	9.60
BT50-FBH68-390	68	104	BT50-CK6-290	FBH68-FB68104-TP09	390	290	345	64	-	CK	1	11.0
BT50-FBH68-450	68	104	BT50-CK6-350	FBH68-FB68104-TP09	450	350	285	64	90	CK	2	15.5

選配表 Option

刀桿 Shank
B700

• 長度單位 Unit of Length (mm)

BORING

FBH 精密微調精搪孔頭刀桿
FBH MICRO ADJUSTMENT BORING HEAD SHANK

背搪
Reverse Boring

Fig.1

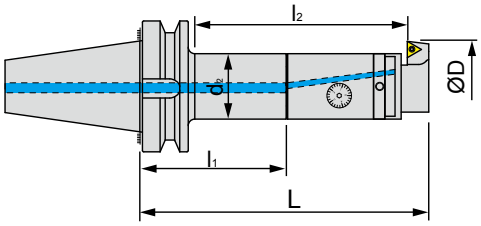
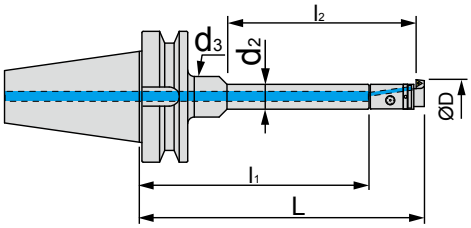


Fig.2



搪孔範圍
ø60~115
Boring Range

精度
0.002mm
Accuracy

規格 Spec.	øD 搪孔範圍 Boring Range		搪孔組合 Tools Combination		L	l1	l2	d2	d3	組合刀柄 Ck No.	Fig.	重量 (KGS) Weight
	Min.	Max.	刀桿 Shank	搪頭 - 刀片座 Boring Head - Insert Seat								
BT30-FBH55-145-R	60	84	BT30-CK5-60	FBH55-RB6084-TP09	145	60	90	50	-	CK	1	1.84
BT30-FBH68-160-R	78	115	BT30-CK6-60	FBH68-RB78115-TP09	160	60	105	64	-	CK	1	3.00
BT40-FBH55-160-R	60	84	BT40-CK5-75	FBH55-RB6084-TP09	160	75	100	50	-	CK	1	2.34
BT40-FBH55-210-R	60	84	BT40-CK5-125	FBH55-RB6084-TP09	210	125	150	50	-	CK	1	3.34
BT40-FBH55-260-R	60	84	BT40-CK5-175	FBH55-RB6084-TP09	260	175	200	50	-	CK	1	4.04
BT40-FBH68-165-R	78	115	BT40-CK6-65	FBH68-RB78115-TP09	165	65	105	50	-	CK	1	3.30
BT40-FBH68-215-R	78	115	BT40-CK6-115	FBH68-RB78115-TP09	215	115	155	50	-	CK	1	4.70
BT40-FBH68-265-R	78	115	BT40-CK6-165	FBH68-RB78115-TP09	265	165	205	50	-	CK	1	5.90
BT50-FBH55-190-R	60	84	BT50-CK5-105	FBH55-RB6084-TP09	190	105	120	50	-	CK	1	5.54
BT50-FBH55-265-R	60	84	BT50-CK5-180	FBH55-RB6084-TP09	265	180	195	50	-	CK	1	6.54
BT50-FBH55-325-R	60	84	BT50-CK5-240	FBH55-RB6084-TP09	325	240	255	50	-	CK	1	7.24
BT50-FBH55-385-R	60	84	BT50-CK5-300	FBH55-RB6084-TP09	385	300	255	50	64	CK	2	8.64
BT50-FBH68-195-R	78	115	BT50-CK6-95	FBH68-RB78115-TP09	195	95	125	64	-	CK	1	6.50
BT50-FBH68-270-R	78	115	BT50-CK6-170	FBH68-RB78115-TP09	270	170	200	64	-	CK	1	8.30
BT50-FBH68-330-R	78	115	BT50-CK6-230	FBH68-RB78115-TP09	330	230	260	64	-	CK	1	9.60
BT50-FBH68-390-R	78	115	BT50-CK6-290	FBH68-RB78115-TP09	390	290	320	64	-	CK	1	11.0
BT50-FBH68-450-R	78	115	BT50-CK6-350	FBH68-RB78115-TP09	450	350	260	64	90	CK	2	15.5

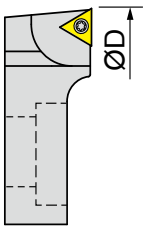
BORING

選配表 Option

刀桿 Shank
B700

• 長度單位 Unit of Length (mm)

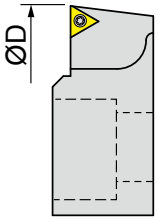
FBH55/68 專用正反搪刀片座
FBH55/68 FORWARD/REVERSE INSERT SEAT



- **正搪** Forward Boring

規格 Spec.	組合搪頭 Suitable Boring Head	øD 搪孔範圍 Boring Range(正搪 Boring)		轉接螺帽 Nut	鎖固螺絲 Locking screws	刀片 Insert	重量 (KGS) Weight
		Min.	Max.				
FB5580-TP09	FBH55	55	80	C16-BM10	SH-M10-25-16	TP..0902	0.14
FB68104-TP09	FBH55/FBH68	68	104	C16-BM10	SH-M10-25-16	TP..0902	0.22
FB100154-TP09	FBH55/FBH68	100	154	C16-BM10	SH-M10-25-16	TP..0902	0.3

※ 附鎖固螺絲 With locking screws

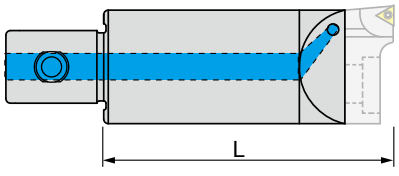


- **背搪** Reverse Boring

規格 Spec.	組合搪頭 Suitable Boring Head	øD 搪孔範圍 Boring Range (背搪 Back Boring)		轉接螺帽 Nut	鎖固螺絲 Locking screws	刀片 Insert	重量 (KGS) Weight
		Min.	Max.				
RB6084-TP09	FBH55	60	84	C16-BM10	SH-M10-25-16	TP..0902	0.20
RB78115-TP09	FBH55/FBH68	78	115	C16-BM10	SH-M10-25-16	TP..0902	0.40
RB110164-TP09	FBH55/FBH68	110	164	C16-BM10	SH-M10-25-16	TP..0902	0.60

※ 附鎖固螺絲 With locking screws

FBH55/68 專用刀片座轉接桿
FBH55/68 TRANSFER BAR FOR INSERT HOLDER



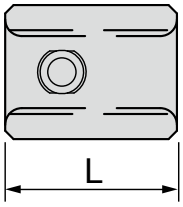
規格 Spec.	組合搪頭 Suitable Boring Head	刀片座 Insert Seat	øD 搪孔範圍 Boring Range		L	刀片 Insert	重量 (KGS) Weight
			Min.	Max.			
C16-BRM	FBH55 FBH68	FB2740-TP09	Ø27	Ø40	62	TP..0902	-
		FB3550-TP09	Ø35	Ø50	65	TP..0902	-
		FB4565-TP09	Ø45	Ø68	68	TP..0902	-

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
TP..0902	M2.5-6.0-3.5-60	T8	1.2

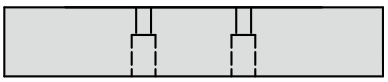
• **長度單位 Unit of Length (mm)**

FBH55/68 專用轉接螺帽
FBH55/68 NUT



規格 Spec.	L	重量 (KGS) Weight
C16-BM10	20.5	0.04

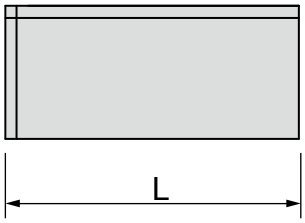
FBH55/68 專用轉接板
FBH55/68 ADAPTER PLATE



規格 Spec.	組合搪頭 Suitable Boring Head	正搪刀片座 Forward Boring Insert Seat	øD 搪孔範圍 Boring Range(正搪)		背搪刀片座 Forward Boring Insert Seat	øD 搪孔範圍 Boring Range(背搪)		刀片 Insert	重量 (KGS) Weight
			Min.	Max.		Min.	Max.		
AP150204	FBH55 FBH68	FB100154-TP09	150	204	RB110164-TP09	160	214	TP..0902	0.72

※ **附鎖固螺絲 SH-M5-20-8*4pcs** With locking screws SH-M5-20-8*4pcs

FBH55/68 專用平衡塊
FBH55/68 BALANCE BASE



規格 Spec.	L	重量 (KGS) Weight
AP100	50	0.2

※ **附鎖固螺絲 SH-M10-25-16** With locking screws SH-M10-25-16

• **長度單位 Unit of Length (mm)**

FBH55 精密微調精搪孔頭套裝
FBH55 MICRO ADJUSTMENT BORING HEAD SET

規格 Spec.	內容物 Contents										重量 (KGS) Weight
	刀桿 Shank	搪頭 Boring Head	刀片座 Insert Seat	øD 搪孔範圍 Boring Range		刀具 Tools	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	
				Min.	Max.						
FBH55-SET	BT30-CK5-60 BT40-CK5-75 BT50-CK5-105 (任選一只)	FBH55	FB2740-TP09	Ø27	Ø40	BR1606-21-C	WBGT060104L-F RM4015(10⍰)	M2-3.8-2.68-43	T6	0.6	6.2
			FB3550-TP09	Ø35	Ø50	BR1608-28-C	TBGT060102L-F01 RM4030(10⍰)	M2-5.0-2.7-60			
			FB4565-TP09	Ø45	Ø68	BR1610-35-C					
			FB5580-TP09	Ø55	Ø80	BR1612-42-C	TPGT090204L-F01 RM4030(10⍰)	M2.5-6.0-3.5-60	T8	1.2	
			FB68104-TP09	Ø68	Ø104	BR1614-50-C					
			FB100154-TP09	Ø100	Ø154	BR1616-60-C					
						BR1620-65-C	TPGT110302L-F01 RM4030(10⍰)	M3-8.0-4.0-43	T9	1.4	
						BR1624-68-C					

※ 此套裝組刀片為選配 The insert is optional for this set.

規格 Spec.	內容物 Contents							重量 (KGS) Weight
	轉接桿 Transfer Bar	轉接螺帽 Nut	鎖固螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	扳手 Wrench	扭力值 (N.m) Torque	
FBH55-SET	C16-BRM	C16-BM10	SH-M5-10-8 (1 只) SH-M5-12-10 (1 只) SH-M5-12-13 (1 只) SH-M10-25-16 (1 只)	PL4 PL5 PL6 PL8	5.0 6.0	PT2.5 PT3	5.0	6.2

BORING

• 長度單位 Unit of Length (mm)

FBH68 精密微調精搪孔頭套裝
FBH68 MICRO ADJUSTMENT BORING HEAD SET

規格 Spec.	內容物 Contents										重量 (KGS) Weight
	刀桿 Shank	搪頭 Boring Head	刀片座 Insert Seat	øD 搪孔範圍 Boring Range		刀具 Tools	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	
				Min.	Max.						
FBH68-SET	BT30-CK6-60 BT40-CK6-65 BT50-CK6-95 (任選一只)	FBH68	FB2740-TP09	Ø27	Ø40	BR1606-21-C	WBGT060104L-F RM4015(10⍰)	M2-3.8-2.68-43	T6	0.6	7.7
			FB3550-TP09	Ø35	Ø50	BR1608-28-C	TBGT060102L-F01 RM4030(10⍰)	M2-5.0-2.7-60			
			FB4565-TP09	Ø45	Ø68	BR1610-35-C					
			FB68104-TP09	Ø68	Ø104	BR1614-50-C	TPGT090204L-F01 RM4030(10⍰)	M2.5-6.0-3.5-60	T8	1.2	
			FB100154-TP09	Ø100	Ø154	BR1616-60-C					
						BR1620-65-C	TPGT110302L-F01 RM4030(10⍰)	M3-8.0-4.0-43	T9	1.4	
						BR1624-68-C					

※ 此套裝組刀片為選配 The insert is optional for this set.

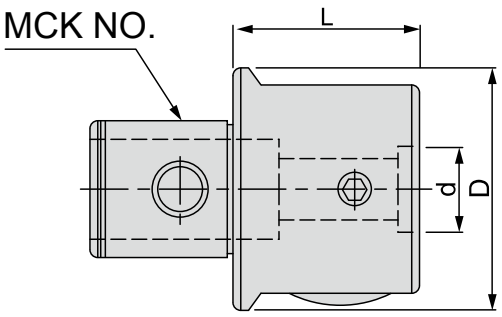
規格 Spec.	內容物 Contents									重量 (KGS) Weight
	轉接桿 Transfer Bar	轉接螺帽 Nut	轉接板 Adapter Plate	平衡塊 Balance Base	鎖固螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	扳手 Wrench	扭力值 (N.m) Torque	
FBH68-SET	C16-BRM	C16-BM10	AP150204	AP100	SH-M5-10-8 (1 只) SH-M5-12-10 (1 只) SH-M5-12-13 (1 只) SH-M5-20-8 (4 只) SH-M10-25-16 (2 只)	PL4 PL5 PL6 PL8	5.0 6.0	PT2.5 PT3	5.0	7.7

BORING

• 長度單位 Unit of Length (mm)

CBI 小徑微調精搪刀系列
CBI SMALL DIA. FINISH BORING HEAD

組合刀柄
MCK NO.



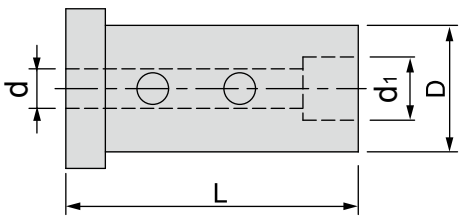
特點 Feature

- CBI 小徑精搪刀有三種選擇，通用於 Ø8~Ø50mm 小孔徑使用，如使用全鎢鋼小徑搪刀桿可加工 Ø3~Ø10mm 範圍小孔
- 調整刻度為圓周 50 等分，每格調整尺寸為直徑 0.01mm，另有副尺可作更精細之調整
- 精密導程螺絲位於內部，不受切屑、磨耗、生鏽等影響，具有內部潤滑精準耐用

- Three options of CBI compatible with small aperture from Ø8mm to Ø50mm. Boring range can be within Ø3mm to Ø10mm if small diameter solid carbide boring bar has been employed.
- The dial has been graduated into 50 divisions, each of which is 0.01mm diameter, attached with sub-dial for finer adjustment.
- High precision internal lead screw maintain inner lubrication is free from the effects of chips, abrasion, and rust, featuring precision and high durability.

規格 Spec.	移動量 mm	組合刀柄 Mck No.	L	D	d	重量 (KGS) Weight
CBI4	0-2.0	MCK4	32	39	10	0.40
CBI5	0-3.5	MCK5	40	50	12	0.80
CBI6	0-5.0	MCK6	50	64	16	1.27

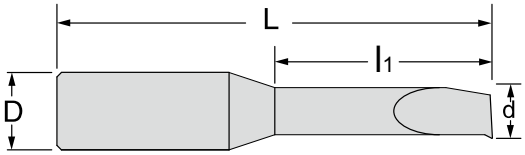
CBI 小徑套筒
CBI SMALL DIA. ADAPTER



規格 Spec.	L	D	d	d_1	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
SH-0416-37	37	16	4	8	HS4-4	PL2	3.0	0.07
SH-0516-37	37	16	5	8	HS5-5.5	PL2	3.0	0.06
SH-0616-37	37	16	6	8	HS6-4	PL2	3.0	0.06
SH-0716-37	37	16	7	8	HS6-4	PL2	3.0	0.06

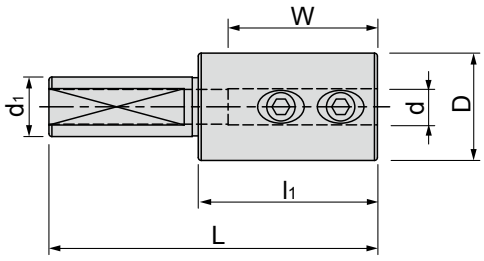
• 長度單位 Unit of Length (mm)

CBI 系列專用超小徑碳化鎢搪孔刀
CARBIDE BOING BAR FOR SMALL DIA.



規格 Spec.	ød 搪孔範圍 Boring Range				L	l1	D	重量 (KGS) Weight
	Min.	Max.						
		CBI 4	CBI 5	CBI 6				
CBJ0603-15	3	7	10	13	50	15	6	-
CBJ0604-20	4	8	11	14	50	20	6	-
CBJ0605-25	5	9	12	15	60	25	6	-
CBJ0606-30	6	10	13	16	60	30	6	-
CBJ1008-35	8	12	15	18	75	35	10	-
CBJ1010-40	10	14	17	20	75	40	10	0.07

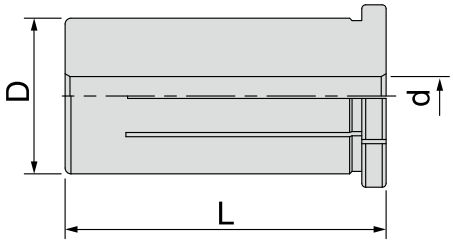
CBI 系列專用超小徑搪刀延長桿
BORING BAR EXTENSION FOR SMALL DIA.



規格 Spec.	L	l1	D	d	d1	W	重量 (KGS) Weight
AC1006-30	55	30	18	6	10	25	0.08
AC1206-35	65	35	22	6	12	25	0.14
AC1210-35	65	35	22	10	12	30	0.12
AC1606-35	85	35	16	6	16	25	0.14
AC1610-35	85	35	22	10	16	30	0.14

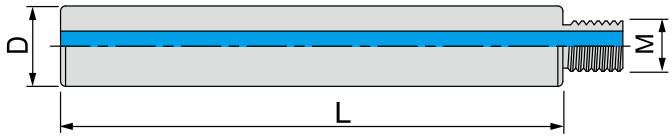
• 長度單位 Unit of Length (mm)

鎢鋼刀柄專用套筒
SLEEVE FOR SOLID CARBIDE TOOL HOLDER



規格 Spec.	L	D	d	重量 (KGS) Weight
SBJ-10-4K	30	10	4	0.01
SBJ-10-6K	30	10	6	0.01
SBJ-10-8K	30	10	8	0.01
SBJ-12-4K	35	12	4	0.01
SBJ-12-6K	35	12	6	0.01
SBJ-12-8K	35	12	8	0.01
SBJ-12-10K	35	12	10	0.01
SBJ-16-8K	37	16	8	0.08
SBJ-16-10K	37	16	10	0.04
SBJ-16-12K	37	16	12	0.02
SBJ-16-14K	37	16	14	0.01

抗震鎢鋼刀柄
VIBRATION-DUMPED CARBIDE TOOL HOLDER



特點 Feature

- 搪孔深度不得超過孔徑六倍

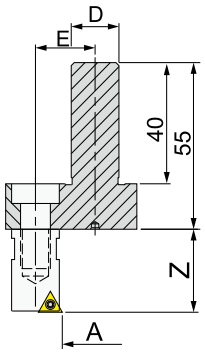
-Boring depth must not exceed six times of the diameter.

規格 Spec.	øD 搪孔範圍 Boring Range		L	D	M	組合搪頭 Suitable Boring Head	重量 (KGS) Weight
	Min.	Max.					
ST08-W5-100L	9	13	100	8	M5-0.8P	SEB09N	0.07
ST10-W6-110L	12	15	110	10	M6-1.0P	SEB12N	0.14
ST12-W6-120L	14	17	120	12	M6-1.0P	SEB14N	0.21
ST14-W6-160L	16	20	160	14	M6-1.0P	SEB16N	0.36
ST16-W10-160L	18	42	160	16	M10-1.25P	SEB18N~SEB50N	0.47

• 長度單位 Unit of Length (mm)

CBR20/CBR30 組合式外圓搪孔組件
CBR20/CBR30 MODULAR EXTERNAL BORING HEAD

範例 Example



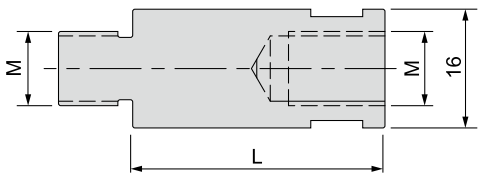
規格 Spec.	搪頭	A	偏心距離 E	有效深 Z	D	使用刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
C16-CBR20 C20-CBR20	SEB36N	5-14	20	25	16/20	TP..0802	M2-5.0-2.7-60	T6	0.6	-
	SEB34N	7-16	20	25	16/20	TP..0802	M2-5.0-2.7-60	T6	0.6	-
	SEB32N	9-18	20	25	16/20	TP..0802	M2-5.0-2.7-60	T6	0.6	-
	SEB30N	11-20	20	25	16/20	TP..0802	M2-5.0-2.7-60	T6	0.6	-
	SEB28N	13-22	20	25	16/20	TP..0802	M2-5.0-2.7-60	T6	0.6	-
	SEB26N	15-24	20	25	16/20	TP..0802	M2-5.0-2.7-60	T6	0.6	-
	SEB24N	17-26	20	25	16/20	TP..0802	M2-5.0-2.7-60	T6	0.6	-
	SEB22N	19-28	20	25	16/20	TP..0802	M2-5.0-2.7-60	T6	0.6	-
	SEB20N	21-30	20	25	16/20	TP..0802	M2-5.0-2.7-60	T6	0.6	-
	SEB18N	23-32	20	25	16/20	TP..0802	M2-5.0-2.7-60	T6	0.6	-
C16-CBR30 C20-CBR30	SEB36N	25-34	30	25	16/20	TP..0802	M2-5.0-2.7-60	T6	0.6	-
	SEB34N	27-36	30	25	16/20	TP..0802	M2-5.0-2.7-60	T6	0.6	-
	SEB32N	29-38	30	25	16/20	TP..0802	M2-5.0-2.7-60	T6	0.6	-
	SEB30N	31-40	30	25	16/20	TP..0802	M2-5.0-2.7-60	T6	0.6	-
	SEB28N	33-42	30	25	16/20	TP..0802	M2-5.0-2.7-60	T6	0.6	-
	SEB26N	35-44	30	25	16/20	TP..0802	M2-5.0-2.7-60	T6	0.6	-
	SEB24N	37-46	30	25	16/20	TP..0802	M2-5.0-2.7-60	T6	0.6	-
	SEB22N	39-48	30	25	16/20	TP..0802	M2-5.0-2.7-60	T6	0.6	-
	SEB20N	41-50	30	25	16/20	TP..0802	M2-5.0-2.7-60	T6	0.6	-
	SEB18N	43-52	30	25	16/20	TP..0802	M2-5.0-2.7-60	T6	0.6	-

※C16-CBR20、CBR30 為 CBI6 搪孔器專用搪外圓組件 C16-CBR20、CBR30 are the external boring assemblies for CBI6 boring system.
※C20-CBR20、CBR30 為 NBH2084 搪孔器專用搪外圓組件 C20-CBR20、CBR30 are the external boring assemblies for NBH2084 boring system.
※ 附螺絲 M10x20L With Screw M10 x 20L

CBR20/CBR30 專用加長連接桿
CBR20/CBR30 EXTENSION ADAPTER

LEMMA

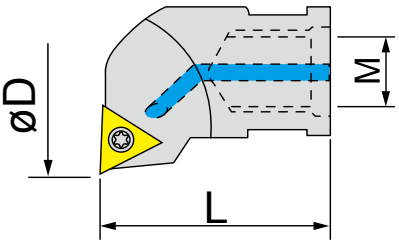
範例 Example



規格 Spec.	搪頭 Boring Head	L	結合牙 M	重量 (KGS) Weight
CBRM10-34	SEB18N~SEB36N	34	M10	0.06
CBRM10-64	SEB18N~SEB36N	64	M10	0.10

• 長度單位 Unit of Length (mm)

捨棄式搪孔頭
SUPPLEMENTAL BORING HEAD

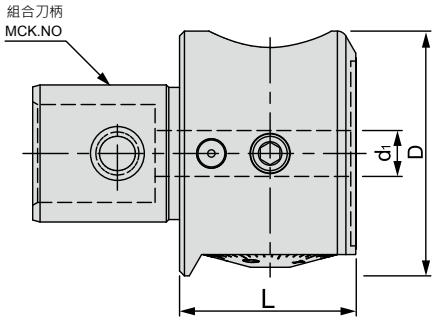


規格 Spec.	øD 搪孔範圍 Boring Range		L	M	使用刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
	Min.	Max.							
SEB09N-TP08	9	10.5	18	M5	TP..0802	M2-5.0-2.7-60	T6	0.6	0.02
SEB10.5N-TP08	10.5	12	18	M5	TP..0802	M2-5.0-2.7-60	T6	0.6	0.02
SEB12N-TP08	12	14	23	M6	TP..0802	M2-5.0-2.7-60	T6	0.6	0.02
SEB14N-TP08	14	16	23	M6	TP..0802	M2-5.0-2.7-60	T6	0.6	0.02
SEB16N-TP08	16	18	23	M6	TP..0802	M2-5.0-2.7-60	T6	0.6	0.03
SEB18N-TP08	18	20	27	M10	TP..0802	M2-5.0-2.7-60	T6	0.6	0.03
SEB20N-TP08	20	22	27	M10	TP..0802	M2-5.0-2.7-60	T6	0.6	0.04
SEB22N-TP08	22	24	27	M10	TP..0802	M2-5.0-2.7-60	T6	0.6	0.04
SEB24N-TP08	24	26	27	M10	TP..0802	M2-5.0-2.7-60	T6	0.6	0.04
SEB26N-TP08	26	28	27	M10	TP..0802	M2-5.0-2.7-60	T6	0.6	0.04
SEB28N-TP08	28	30	27	M10	TP..0802	M2-5.0-2.7-60	T6	0.6	0.04
SEB30N-TP08	30	32	27	M10	TP..0802	M2-5.0-2.7-60	T6	0.6	0.04
SEB32N-TP08	32	34	27	M10	TP..0802	M2-5.0-2.7-60	T6	0.6	0.04
SEB34N-TP08	34	36	27	M10	TP..0802	M2-5.0-2.7-60	T6	0.6	0.05
SEB36N-TP08	36	38	27	M10	TP..0802	M2-5.0-2.7-60	T6	0.6	0.04

規格 Spec.	øD 搪孔範圍 Boring Range		L	M	使用刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
	Min.	Max.							
SEB09N-TB06	9	10.5	18	M5	TB..0601	M2-5.0-2.7-60	T6	0.6	0.02
SEB12N-TB06	12	14	23	M6	TB..0601	M2-5.0-2.7-60	T6	0.6	0.02
SEB14N-TP09	14	16	23	M6	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.02
SEB16N-TP09	16	18	23	M6	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.03
SEB18N-TP09	18	20	27	M10	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.03
SEB20N-TP09	20	22	27	M10	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.04
SEB22N-TP11	22	24	27	M10	TP..1103	M3-8.0-4.0-43	T9	1.4	0.04
SEB24N-TP11	24	26	27	M10	TP..1103	M3-8.0-4.0-43	T9	1.4	0.04
SEB26N-TP11	26	28	27	M10	TP..1103	M3-8.0-4.0-43	T9	1.4	0.04
SEB28N-TP11	28	30	27	M10	TP..1103	M3-8.0-4.0-43	T9	1.4	0.04
SEB30N-TP11	30	32	27	M10	TP..1103	M3-8.0-4.0-43	T9	1.4	0.04
SEB32N-TP11	32	34	27	M10	TP..1103	M3-8.0-4.0-43	T9	1.4	0.04
SEB34N-TP11	34	36	27	M10	TP..1103	M3-8.0-4.0-43	T9	1.4	0.05
SEB36N-TP11	36	38	27	M10	TP..1103	M3-8.0-4.0-43	T9	1.4	0.04
SEB38N-TP11	38	40	27	M10	TP..1103	M3-8.0-4.0-43	T9	1.4	0.05

• 長度單位 Unit of Length (mm)

SBJ 高精密搪孔頭
SBJ BORING HEAD FOR FINISHING



搪孔範圍 Boring Range	精度 Accuracy	最高轉速 Max. rpm
ø6~50	0.01mm	8000

特點 Feature

- 採用特殊表面處理，加強防鏽效果
- 搭配 16mm 柄徑的小徑搪刀，並搭配不同切削刀具，達成多樣化的組合，以利客戶加工使用
- 微調單位：每刻度移動量為 0.01mm，另有副尺可做更精確之調整，搪孔範圍 Ø6~Ø50mm

- With special coating treatment, to strengthen the anti-corrosion effect.
- Use with 16mm shank trails boring, and match with different cutting tools can achieve variety of combinations, in order to facilitate customers choice of tool.
- Micro-adjustment until: each unit is 0.01mm. Attached with a sub-dial for finer adjustment, boring range Ø6~Ø50mm.

規格 Spec.	øD 搪孔範圍 Boring Range		D	微調行程 Stroke	精度 Accuracy	d_1	L	組合刀柄 Mck No.	重量 (KGS) Weight
	Min.	Max.							
SBJ10	6	22	39	2	0.01	10	28.5	CK4/MCK4	0.25
SBJ12	6	32	50	3.5	0.01	12	36	CK5/MCK5	0.50
SBJ16	6	50	63.5	6	0.01	16	45	CK6/MCK6	1.00

範例 Example

1. SBJ16+SBJ1612-53

2. SBJ16+SBJ-16-10K+ST10-W6-110L +SEB12N TP08

3. SBJ16+AC1606-35+CBJ0603-15

4. SBJ16+C16-CBR30+SEB28N TP09

• 長度單位 Unit of Length (mm)

SBJ-10 替換式搪孔刀柄
SBJ-10 INTERCHANGABLE BORING CUTTER

Fig.1

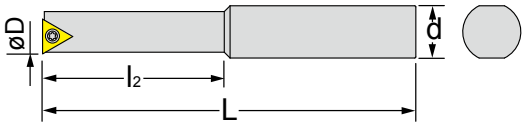
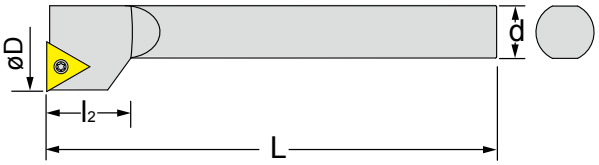


Fig.2



規格 Spec.	øD 搪孔範圍 Boring Range		D	d	L	l₂	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
	Min.	Max.										
SBJ-1008-32	8	10	8	10	64	32	TB..0601	M2-5.0-2.7-60	T6	0.6	1	0.06
SBJ-1010-40	10	12	10	10	77	40	TB..0601	M2-5.0-2.7-60	T6	0.6	1	0.06
SBJ-1012-45	12	16	12	10	77	22	TP..0902	M2.5-6.0-3.5-60	T8	1.2	2	0.08
SBJ-1016-45	16	20	16	10	77	20	TP..0902	M2.5-6.0-3.5-60	T8	1.2	2	0.08
SBJ-1020-45	20	25	20	10	77	22.7	TP..0902	M2.5-6.0-3.5-60	T8	1.2	2	0.08

SBJ-12 替換式搪孔刀柄
SBJ-12 INTERCHANGABLE BORING CUTTER

Fig.1

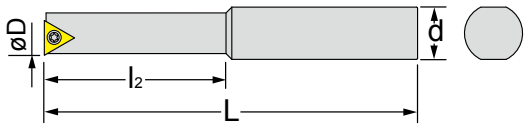
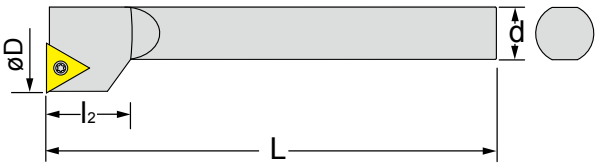


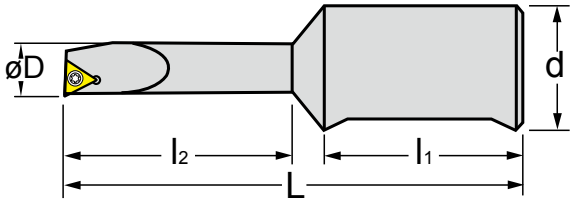
Fig.2



規格 Spec.	øD 搪孔範圍 Boring Range		D	d	L	l₂	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
	Min.	Max.										
SBJ-1208-32	8	10	8	12	64	32	TB..0601	M2-5.0-2.7-60	T6	0.6	1	0.08
SBJ-1210-40	10	12	10	12	72	40	TB..0601	M2-5.0-2.7-60	T6	0.6	1	0.08
SBJ-1212-45	12	16	12	12	77	45	TP..0902	M2.5-6.0-3.5-60	T8	1.2	1	0.08
SBJ-1216-45	16	20	16	12	77	20	TP..0902	M2.5-6.0-3.5-60	T8	1.2	2	0.10
SBJ-1220-45	20	25	20	12	77	23	TP..0902	M2.5-6.0-3.5-60	T8	1.2	2	0.08

• 長度單位 Unit of Length (mm)

SBJ-16 替換式搪孔刀柄
SBJ-16 INTERCHANGABLE BORING CUTTER



規格 Spec.	øD 搪孔範圍 Boring Range		D	d	L	l_1	l_2	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
	Min.	Max.										
SBJ-1606-24	6	9	6	16	-	32	24	WB..0601	M2-3.8-2.68-43	T6	0.6	0.09
SBJ-1608-32	8	11	8	16	74	32	32	TB..0601	M2-5.0-2.7-60	T6	0.6	0.09
SBJ-1608-40	8	11	8	16	82	32	40	TB..0601	M2-5.0-2.7-60	T6	0.6	0.07
SBJ-1610-40	10	13	10	16	75	32	40	TB..0601	M2-5.0-2.7-60	T6	0.6	0.09
SBJ-1610-50	10	13	10	16	85	32	50	TB..0601	M2-5.0-2.7-60	T6	0.6	0.08
SBJ-1612-53	12	17	12	16	85	32	53	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.10
SBJ-1612-65	12	17	12	16	97	32	65	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.12
SBJ-1616-68	16	21	16	16	100	32	68	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.15
SBJ-1616-85	16	21	16	16	117	32	85	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.16
SBJ-1620-83	20	26	20	16	115	32	83	TP..1103	M3-8.0-4.0-43	T9	1.4	0.23
SBJ-1620-105	20	26	20	16	137	32	105	TP..1103	M3-8.0-4.0-43	T9	1.4	0.25
SBJ-1625-90	25	32	25	16	122	32	90	TP..1103	M3-8.0-4.0-43	T9	1.4	0.25
SBJ-1630-90	30	40	30	16	122	32	90	TP..1103	M3-8.0-4.0-43	T9	1.4	0.29
SBJ-1640-90	40	50	40	16	122	32	90	TP..1103	M3-8.0-4.0-43	T9	1.4	0.30

SBJ-20 替換式搪孔刀柄
SBJ-20 INTERCHANGABLE BORING CUTTER

Fig.1

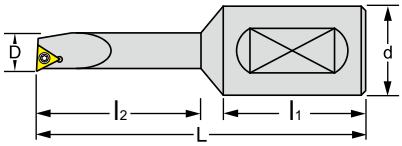
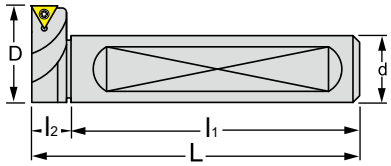


Fig.2



規格 Spec.	øD 搪孔範圍 Boring Range		D	d	L	l_1	l_2	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
	Min.	Max.											
SBJ-2008-32	8	11	8	20	76	32	44	TB..0601	M2-5.0-2.7-60	T6	0.6	1	0.12
SBJ-2010-40	10	13	10	20	76	32	44	TB..0601	M2-5.0-2.7-60	T6	0.6	1	0.10
SBJ-2012-53	12	17	12	20	85	32	53	TP..0902	M2.5-6.0-3.5-60	T8	1.2	1	0.13
SBJ-2016-68	16	21	16	20	100	32	68	TP..0902	M2.5-6.0-3.5-60	T8	1.2	1	0.18
SBJ-2020-83	20	125	20	20	115	32	83	TP..1103	M3-8.0-4.0-43	T9	1.4	1	0.25
SBJ-2025-96	25	130	25	20	135	32	96	TP..1103	M3-8.0-4.0-43	T9	1.4	1	0.30
SBJ-2030-115	30	135	30	20	158	32	115	TP..1103	M3-8.0-4.0-43	T9	1.4	1	0.59
SBJ-L20-20	120	280	28	20	97	83.5	13.5	TP..1103	M3-8.0-4.0-43	T9	1.4	2	0.28

SBJ 搪孔刀柄套裝組
SBJ BORING CUTTER SET

Fig.1

Fig.2

Fig.3

Fig.4

規格 Spec.	???Contents						Fig.	重量 (KGS) Weight
	刀具 Tools	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	數量 Qty		
SBJ-10-SET	SBJ-1008-32	TBGH060104L RM4030(10?)	M2-5.0-2.7-60	T6K	0.6	1	1	1.39
	SBJ-1010-40							
	SBJ-1012-45	TPGH090204L RM4030(10?)	M2.5-6.0-3.5-60	T8K	1.2			
	SBJ-1016-45							
	SBJ-1020-45							

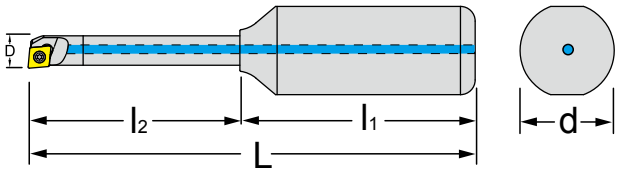
規格 Spec.	???Contents						Fig.	重量 (KGS) Weight
	刀具 Tools	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	數量 Qty		
SBJ-12-SET	SBJ-1208-32	TBGH060104L RM4030(10?)	M2-5.0-2.7-60	T6K	0.6	1	2	1.45
	SBJ-1210-40							
	SBJ-1212-45	TPGH090204L RM4030(10?)	M2.5-6.0-3.5-60	T8K	1.2			
	SBJ-1216-45							
	SBJ-1220-45							

規格 Spec.	???Contents						Fig.	重量 (KGS) Weight
	刀具 Tools	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	數量 Qty		
SBJ-16-SET	SBJ-1608-32	TBGH060104L RM4030(10?)	M2-5.0-2.7-60	T6K	0.6	1	3	2.7
	SBJ-1610-40							
	SBJ-1612-53	TPGH090204L RM4030(10?)	M2.5-6.0-3.5-60	T8K	1.2			
	SBJ-1616-68							
	SBJ-1620-83	TPGH110304L RM4030(10?)	M3-8.0-4.0-43	T9K	1.4			
	SBJ-1625-90							
	SBJ-1630-90							
	SBJ-1640-90							

規格 Spec.	???Contents						Fig.	重量 (KGS) Weight
	刀具 Tools	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	數量 Qty		
SBJ-20-SET	SBJ-2008-32	TBGH060104L RM4030(10?)	M2-5.0-2.7-60	T6K	0.6	1	4	3.02
	SBJ-2010-40							
	SBJ-2012-53	TPGH090204L RM4030(10?)	M2.5-6.0-3.5-60	T8K	1.2			
	SBJ-2016-68							
	SBJ-2020-83	TPGH110304L RM4030(10?)	M3-8.0-4.0-43	T9K	1.4			
	SBJ-2025-96							
	SBJ-2030-115							
	SBJ-L20-20							

• 長度單位 Unit of Length (mm)

CSBJ 鎢鋼替換式搪孔刀柄
CSBJ INTERCHANGABLE BORING CUTTER



特點 Feature

- 使用碳化鎢鋼材質，加工深度可達直徑的數倍
- 高剛性，延長使用刀片壽命
- 抗震性佳，加工後搪孔尺寸穩定

- The use carbon tungsten steel material quality, the working depth may reach the diameter the several-fold.
- High rigidity, extend use bit life.
- The vibration resistance quality is good, after the processing, the boring size is stable.

Dx5

規格 Spec.	L	l_1	l_2	D	d	øD 搪孔範圍 Boring Range		刀 片 Insert	重 量 (KGS) Weight
						Min.	Max.		
CSBJ-1605-28-C	68	40	28	5.6	16	5.6	8	CC..03S1	0.06
CSBJ-1606-30-C	70	40	30	6	16	6	9	CC..03S1	0.07
CSBJ-1608-40-C	80	40	40	8	16	8	11	TB..0601	0.07
CSBJ-1610-50-C	90	40	50	10	16	10	13	TB..0601	0.10
CSBJ-1612-60-C	100	40	60	12	16	12	15	TP..0902	0.13
CSBJ-1614-70-C	110	40	70	14	16	14	17	TP..0902	0.18
CSBJ-1616-80-C	120	40	80	16	16	16	19	TP..1103	0.25
CSBJ-1618-90-C	130	-	-	18	16	18	21	TP..1103	0.33

Dx6

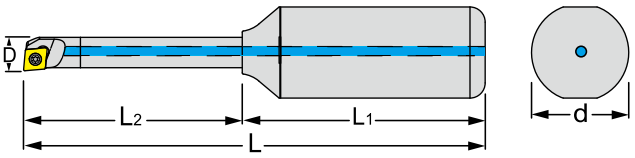
規格 Spec.	L	l_1	l_2	D	d	øD 搪孔範圍 Boring Range		刀 片 Insert	重 量 (KGS) Weight
						Min.	Max.		
CSBJ-1605-34-C	74	40	34	5.6	16	5.6	8	CC..03S1	0.06
CSBJ-1606-36-C	76	40	36	6	16	6	9	CC..03S1	0.07
CSBJ-1608-48-C	88	40	48	8	16	8	11	TB..0601	0.08
CSBJ-1610-60-C	100	40	60	10	16	10	13	TB..0601	0.10
CSBJ-1612-72-C	112	40	72	12	16	12	15	TP..0902	0.15
CSBJ-1614-84-C	124	40	84	14	16	14	17	TP..0902	0.20
CSBJ-1616-96-C	136	40	96	16	16	16	19	TP..1103	0.28
CSBJ-1618-108-C	148	-	-	18	16	18	21	TP..1103	0.38

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
CC..03S1	M1.8-4.0-2.5-54	T6	0.6
TB..0601	M2-5.0-2.7-60	T6	0.6
TP..0902	M2.5-6.0-3.5-60	T8	1.2
TP..1103	M3-8.0-4.0-43	T9	1.4

• 長度單位 Unit of Length (mm)

CSBJ/CCBJ 鎢鋼替換式搪孔刀柄
CSBJ/CCBJ INTERCHANGABLE BORING CUTTER



特點 Feature

- 使用碳化鎢鋼材質，加工深度可達直徑的數倍
- 高剛性，延長使用刀片壽命
- 抗震性佳，加工後搪孔尺寸穩定

- The use carbon tungsten steel material quality, the working depth may reach the diameter the several-fold.
- High rigidity, extend use bit life.
- The vibration resistance quality is good, after the processing, the boring size is stable.

Dx5

規格 Spec.	D	d	L	L_1	L_2	øD 搪孔範圍 Boring Range		刀 片 Insert	重 量 (KGS) Weight
						Min.	Max.		
CSBJ-1605-28-C	5.6	16	68	40	28	5.6	8	CC..03S1	0.06
CSBJ-1606-30-C	6	16	70	40	30	6	9	CC..03S1	0.07
CCBJ-1608-40-C	8	16	80	40	40	8	11	CC..03S1	0.07
CCBJ-1610-50-C	10	16	90	40	50	10	13	CC..0602	0.10
CCBJ-1612-60-C	12	16	100	40	60	12	15	CC..0602	0.13
CCBJ-1614-70-C	14	16	110	40	70	14	17	CC..09T3	0.18
CCBJ-1616-80-C	16	16	120	40	80	16	19	CC..09T3	0.25
CCBJ-1618-90-C	18	16	130	-	-	18	21	CC..09T3	0.33

Dx6

規格 Spec.	D	d	L	L_1	L_2	øD 搪孔範圍 Boring Range		刀 片 Insert	重 量 (KGS) Weight
						Min.	Max.		
CSBJ-1605-34-C	5.6	16	74	40	34	5.6	8	CC..03S1	0.06
CSBJ-1606-36-C	6	16	76	40	36	6	9	CC..03S1	0.07
CCBJ-1608-48-C	8	16	88	40	48	8	11	CC..03S1	0.08
CCBJ-1610-60-C	10	16	100	40	60	10	13	CC..0602	0.10
CCBJ-1612-72-C	12	16	112	40	72	12	15	CC..0602	0.15
CCBJ-1614-84-C	14	16	124	40	84	14	17	CC..09T3	0.20
CCBJ-1616-96-C	16	16	136	40	96	16	19	CC..09T3	0.28
CCBJ-1618-108-C	18	16	148	-	-	18	21	CC..09T3	0.38

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
CC..03S1	M1.8-4.0-2.5-54	T6	0.6
CC..0602	M2.5-6.0-3.5-60	T8	1.2
CC..09T3	M4-8.0-5.7-60	T15	3.0

• 長度單位 Unit of Length (mm)

CSBJ/CCBJ 鎢鋼替換式搪孔刀柄套裝組
CSBJ/CCBJ INTERCHANGABLE BORING CUTTER SET

Fig.1

Fig.2

Fig.3

Fig.4

規格 Spec.	內容物 Contents						Fig.	重量 (KGS) Weight
	刀具 Tools	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	數量 Qty		
CSBJ16-C Dx5-SET	CSBJ-1605-28-C	CCGT03S104L-F RM4015(10⍰)	M1.8-4.0-2.5-54	T6K	0.6	1	1	2.16
	CSBJ-1606-30-C							
	CSBJ-1608-40-C	TBGT060104L RM4030 (10⍰)	M2-5.0-2.7-60					
	CSBJ-1610-50-C							
	CSBJ-1612-60-C	TPGT090204L RM4030 (10⍰)	M2.5-6.0-3.5-60	T8K	1.2			
	CSBJ-1614-70-C							
	CSBJ-1616-80-C	TPGT110304L RM4030 (10⍰)	M3-8.0-4.0-43	T9K	1.4			
	CSBJ-1618-90-C							

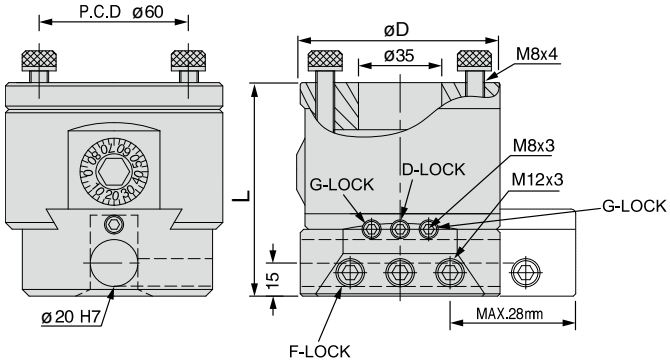
規格 Spec.	內容物 Contents						Fig.	重量 (KGS) Weight
	刀具 Tools	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	數量 Qty		
CSBJ16-C Dx6-SET	CSBJ-1605-34-C	CCGT03S104L-F RM4015(10⍰)	M1.8-4.0-2.5-54	T6K	0.6	1	2	2.16
	CSBJ-1606-36-C							
	CSBJ-1608-48-C	TBGT060104L RM4030(10⍰)	M2-5.0-2.7-60					
	CSBJ-1610-60-C							
	CSBJ-1612-72-C	TPGT090204L RM4030 (10⍰)	M2.5-6.0-3.5-60	T8K	1.2			
	CSBJ-1614-84-C							
	CSBJ-1616-96-C	TPGT110304L RM4030 (10⍰)	M3-8.0-4.0-43	T9K	1.4			
	CSBJ-1618-108-C							

規格 Spec.	內容物 Contents						Fig.	重量 (KGS) Weight
	刀具 Tools	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	數量 Qty		
CCBJ16-C Dx5-SET	CSBJ-1605-28-C	CCGT03S104L-F RM4015(10⍰)	M1.8-4.0-2.5-54	T6K	0.6	1	3	2.16
	CSBJ-1606-30-C							
	CCBJ-1608-40-C							
	CCBJ-1610-50-C	CCMT060204-M01 RM425(10⍰)	M2.5-6.0-3.5-60	T8K	1.2			
	CCBJ-1612-60-C							
	CCBJ-1614-70-C	CCMT09T304-M01 RM425(10⍰)	M4-8.0-5.7-60	T15K	3.0			
	CCBJ-1616-80-C							
	CCBJ-1618-90-C							

規格 Spec.	內容物 Contents						Fig.	重量 (KGS) Weight
	刀具 Tools	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	數量 Qty		
CCBJ16-C Dx6-SET	CSBJ-1605-34-C	CCGT03S104L-F RM4015(10⍰)	M1.8-4.0-2.5-54	T6K	0.6	1	4	3.2
	CSBJ-1606-36-C							
	CCBJ-1608-48-C							
	CCBJ-1610-60-C	CCMT060204-M01 RM425(10⍰)	M2.5-6.0-3.5-60	T8K	1.2			
	CCBJ-1612-72-C							
	CCBJ-1614-84-C	CCMT09T304-M01 RM425(10⍰)	M4-8.0-5.7-60	T15K	3.0			
	CCBJ-1616-96-C							
	CCBJ-1618-108-C							

• 長度單位 Unit of Length (mm)

NBH 精密精搪孔頭
NBH PRECISION BORING HEAD



搪孔範圍	精度	最高轉速
ø8~280 Boring Range	0.01mm Accuracy	8000 Max. rpm

規格 Spec.	øD 搪孔範圍 Boring Range		微調行程 Stroke	精度 Win Feed	刀具孔徑 Tooling Dia	組合刀柄	L	D	重量 (KGS) Weight
	Min.	Max.							
NBH2084S	8	280	28	0.01	Ø20	NBH	83	84	3.26

BT/NT 粗 / 精搪孔頭刀桿
BT/NT Boring Head Shank

NBH2084S 精密搪孔頭
NBH2084S Precision Boring Head

SBJ-20 替換式搪孔刀柄
SBJ-20 Interchangable Boring Cutter

選配表 Option

刀桿 Shank		搪刀 Cutter
B698-B700	B706	B747

• 長度單位 Unit of Length (mm)

BORING

NBH 精密精搪孔套裝組
NBH PRECISION BORING HEAD SET

Fig.1

Fig.2

Fig.3

Fig.4

規格 Spec.	內容物 Contents							Fig.	重量 (KGS) Weight
	搪刀頭 Boring Head	刀具 Tools	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	扳手 Wrench	數量 Qty		
NT30-NBH2084S-3P-SET	NBH2084S	SBJ-2012-53	M2.5-6.0-3.5-60	T8K	1.2	PT4	1	1	6.20
NT40-NBH2084S-3P-SET									6.60
NT50-NBH2084S-3P-SET		SBJ-2025-96	M3-8.0-4.0-43	T9K	1.4	PT6			8.90
BT40-NBH2084S-3P-SET									8.00
BT50-NBH2084S-3P-SET		SBJ-L20-20							10.1

規格 Spec.	內容物 Contents								Fig.	重量 (KGS) Weight
	搪刀頭 Boring Head	刀具 Tools	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	扳手 Wrench	數量 Qty		
NT30-NBH2084S-3P-SET	NBH2084S	SBJ-2012-53	TPGT090204L RM4030(10?)	M2.5-6.0-3.5-60	T8K	1.2	PT4	1	2	6.40
NT40-NBH2084S-3P-SET										6.80
NT50-NBH2084S-3P-SET		SBJ-2025-96	TPGT110304L RM4030(10?)	M3-8.0-4.0-43	T9K	1.4	PT6			9.10
BT40-NBH2084S-3P-SET										8.50
BT50-NBH2084S-3P-SET		SBJ-L20-20								10.1

規格 Spec.	內容物 Contents							Fig.	重量 (KGS) Weight
	搪刀頭 Boring Head	刀具 Tools	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	扳手 Wrench	數量 Qty		
NT30-NBH2084S-8P-SET	NBH2084S	SBJ-2008-32	M2-5.0-2.7-60	T6K	0.6	PT4	1	3	7.30
NT40-NBH2084S-8P-SET		SBJ-2010-40							7.70
NT50-NBH2084S-8P-SET		SBJ-2012-53	M2.5-6.0-3.5-60	T8K	1.2				10.0
BT40-NBH2084S-8P-SET		SBJ-2016-68							8.70
BT50-NBH2084S-8P-SET		SBJ-2020-83	M3-8.0-4.0-43	T9K	1.4	PT6			11.19
		SBJ-2025-96							-
		SBJ-2030-115							-
		SBJ-L20-20							-

規格 Spec.	內容物 Contents								Fig.	重量 (KGS) Weight
	搪刀頭 Boring Head	刀具 Tools	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	扳手 Wrench	數量 Qty		
NT30-NBH2084S-8P-SET	NBH2084S	SBJ-2008-32	TBGT060102L RM4030 (10?)	M2-5.0-2.7-60	T6K	0.6	PT4	1	4	7.50
NT40-NBH2084S-8P-SET		SBJ-2010-40								7.80
NT50-NBH2084S-8P-SET		SBJ-2012-53	TPGT090204L RM4030 (10?)	M2.5-6.0-3.5-60	T8K	1.2				10.2
BT40-NBH2084S-8P-SET		SBJ-2016-68								9.00
BT50-NBH2084S-8P-SET		SBJ-2020-83	TPGT110304L RM4030 (10?)	M3-8.0-4.0-43	T9K	1.4	PT6			11.19
		SBJ-2025-96								-
		SBJ-2030-115								-
		SBJ-L20-20								-

• 長度單位 Unit of Length (mm)

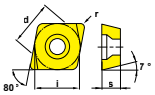
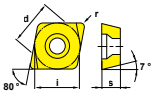
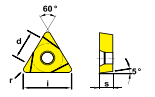
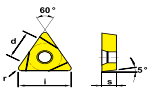
BORING

搪孔系列刀片
BORING HEAD INSERT

ISO 分類																	
P	合金鋼 Alloyed Steels	○				○	○				○						
M	不鏽鋼 Stainless Steels					○					○						
K	鑄鐵 Cast Iron																
N	鋁及鋁合金 Aluminum&Al													○			
S	高溫合金 Refractory Alloys																
H	高硬度材 Hard Material																

切削狀態 Cutting Condition :

● 連續切削 Continuous Cutting
○ 一般切削 General Cutting
■ 斷續切削 Interrupted Cutting

形狀 Form	規格 Spec.	鍍層硬質合金 Layer coating carbide alloy				鍍層超微粒 Layer coating ultra-micro					瓷金 Cermet			超硬微粒 Ultra-hard microprogram			尺寸 (mm) Size				圖形 Drawing
		CVD				CHF					HT			HF							
		RM4035				RM4015	RM4030				RM1205			RM5005			d	i	s	r	
	CCGT03S102L-F					●											3.57	-	1.39	0.2	
	CCGT03S104L-F					●											3.57	-	1.39	0.4	
	CCMT060202N-F01	●															6.35	6.4	2.38	0.4	
	CCMT060204N-F01	●															6.35	6.4	2.38	0.8	
	CCMT09T304N-F01	●															9.525	9.7	3.97	0.4	
	CCMT09T308N-F01	●															9.525	9.7	3.97	0.8	
	CCMT120404N-F01	●															12.7	12.9	4.76	0.4	
	CCMT120408N-F01	●															12.7	12.9	4.76	0.8	
	TBGT060102L-F01						●				●			●			3.97	6.4	1.59	0.2	
	TBGT060104L-F01						●				●			●			3.97	6.4	1.59	0.4	
	TPGT080202L-F01						●				●			●			4.76	8.2	2.38	0.2	
	TPGT080204L-F01						●				●			●			4.76	8.2	2.38	0.4	
	TPGT090202L-F01						●				●			●			5.56	9.6	2.38	0.2	
	TPGT090204L-F01						●				●			●			5.56	9.6	2.38	0.4	
	TPGT110302L-F01						●				●			●			6.35	11	3.18	0.2	
	TPGT110304L-F01						●				●			●			6.35	11	3.18	0.4	

BORING

• 長度單位 Unit of Length (mm)

Damping

減震模組化示意圖
Modular combination

車削TURNING

一體式 Integrated

DP/STUPR一體式減震車刀架
Vibration -damped Boring Bar With Coolant

BM 模組化系列 BM Modular Series

BM模組化高硬度減震車刀柄
Modular Vibration-damped Boring Bar

BM模組化高硬度大柄徑減震車刀柄
Modular Vibration-damped Boring Bar

BM模組化鎢鋼減震車刀柄
Modular Vibration-damped Carbide Boring Bar

BM/SCLCR, STUCR, SNR
BM/SDUCR, STUPR, SVUCR
BM/MCLNR, MTUNR

DPFSCK模組化系列 DPFSCK Modular Series

DPFSCK模組化減震車刀柄
Modular Vibration -damped Boring Bar Shank

FSCK/SCLC, SCLP, SCKC, SDZC
FSCK/SDUC, STFC, STUC, STUP
FSCK/SVJC, MCLN, MTUN, SDQC
FSCK/SSSC, SVUC, SIR, DGIR

平面銑削FACE MILLING

FDP減震銑刀桿
Damping Face Mill Arbor

HR圓刃殼型銑刀
Round Corner End Milling Cutter

BGP迷你殼型銑刀
Face Milling Cutter

IFM殼型銑刀
Face Milling Cutter

GR圓刃殼型銑刀
Round Corner End Milling Cutter

SFM殼型銑刀
Face Milling Cutter

KM45°殼型銑刀
Face Milling Cutter

KFM殼型銑刀
Face Milling Cutter

搪孔Boring

樣式1 Type1 (DX6)

MCK搪孔頭刀柄
Boring Head Shank

CK搪孔頭刀柄
Boring Head Shank

SCK/DP 減震延長桿
Damping Extension

SMB超微米精搪頭
SMB Super Micron Exchangeable
Finish Boring Head

樣式2 Type2 (DX6)

CK / DP搪孔頭刀柄
Boring Head Shank

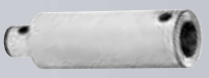
SMB超微米精搪頭
SMB Super Micron Exchangeable
Finish Boring Head

樣式3 Type3 (DX8)

MCK搪孔頭刀柄
Boring Head Shank

CK搪孔頭刀柄
Boring Head Shank

SBT/MLK法蘭加厚型(雙面拘束)
強力銑削夾頭
Dual DRIVE Force Collet Chuck



SCK延長桿
Anti-Vibration Extension

SCK直柄碳化鎢鋼搪孔頭刀桿
Straight Carbide Boring Shank

CBH / DP減震精搪頭
Damping Finish Boring Head

樣式4 Type4 (DX8)

HSK/PSC套筒
HSK/PSC Adapter

SBT/PSC套筒
SBT/PSC Adapter

DAT/PSC套筒
DAT/PSC Adapter

PSC等徑套筒
PSC Adapter For Same Dia.

PSC異徑套筒
Adapter For Different Dia.

PSC/PMB減震精密微調搪頭
Submicron Finish Boring Head

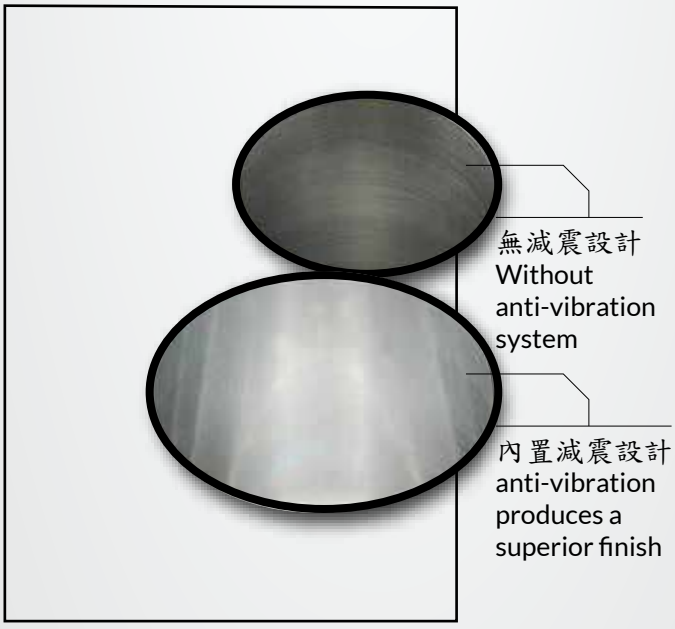
Feature

DP減震系列特點

Anti-Vibration

本產品應用在加工深度為柄徑的4~8倍長效果最好。
減震器與搪孔頭的結合，一體式的結構，當搪孔加工時可與一般MCK/CK刀桿結合，得到更大的加工有效長與更好的加工表面精度。
具有多種規格，所有規格均具有中心出水功能。
使用雙邊對稱定位接合，可使減震效果更好。

For most efficient results use for 4D~8D machining.
Adjust the scale of each grid to a diameter of 0.002mm.
The integrated damper and extension with generic MCK/CK arbors achieve wider cuts and better accuracy.
No matter the specifications or the desired function the coolant runs through the spindle.
The bilateral symmetry joint allows for almost zero vibration.



使用減震系列產品，對於長懸伸刀具加工時，可有效改善工件表面粗糙度、提高金屬切除率、延長刀具使用壽命。

The CBH/DP is most efficient cutting deaply. It enhances the workpiece's surface finish and has a longer life.

Anti-Vibration

CBH/DP 減震精搪頭
CBH/DP DAMPING FINISH BORING HEAD

ZL201520282217.6
ZL201520282261.7

Anti-Vibration

Fig.1

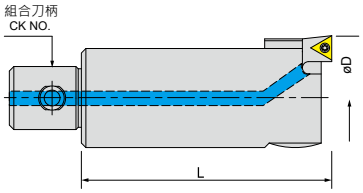
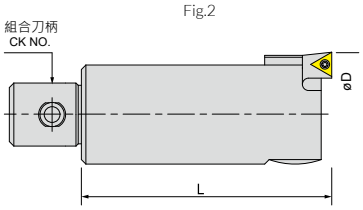


Fig.2



搪孔範圍	精度	最高轉速
ø20~152	0.01mm	6000
Boring Range	Accuracy	Max. rpm

規格 Spec.	øD 搪孔範圍 Boring Range		組合刀柄 Ck No.	L	使用刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight	Fig.
	Min.	Max.								
CBH20DP-90L-TP08	20	26	CK1	90	TP..0802	M2-5.0-3.1-60	T6	0.6	0.22	2
CBH25DP-90L-TP08	25	33	CK2	90	TP..0802	M2-5.0-3.1-60	T6	0.6	0.39	2
CBH32DP-100L-TP08	32	42	CK3	100	TP..0802	M2-5.0-3.1-60	T6	0.6	0.71	1
CBH40DP-120L-TP08	40	55	CK4	120	TP..0802	M2-5.0-3.1-60	T6	0.6	1.47	1
CBH52DP-140L-TP08	52	75	CK5	140	TP..0802	M2-5.0-3.1-60	T6	0.6	2.72	1
CBH68DP-175L-TP08	68	100	CK6	175	TP..0802	M2-5.0-3.1-60	T6	0.6	5.70	1
CBH68DP-175L-TP09	68	100	CK6	175	TP..0902	M2.5-6.0-3.5-60	T8	1.2	5.70	1
CBH68DP-175L-TC11	68	100	CK6	175	TC..1102	M2.5-6.0-3.5-60	T8	1.2	5.70	1
CBH100DP-225L-CK7R-TP08	100	152	CK7R	225	TP..0802	M2.5-5.0-3.1-60	T6	-	13.0	1
CBH100DP-225L-CK7R-TP09	100	152	CK7R	225	TP..0902	M2.5-60-3.5-60	T8	-	13.0	1
CBH100DP-225L-CK7R-TC11	100	152	CK7R	225	TC..1102	M2.5-60-3.5-60	T8	-	13.0	1
CBH150DP-225L-CK7R-TP08	150	202	CK7R	225	TP..0802	M2.5-5.0-3.1-60	T6	-	15.0	1
CBH150DP-225L-CK7R-TP09	150	202	CK7R	225	TP..0902	M2.5-60-3.5-60	T8	-	15.0	1
CBH150DP-225L-CK7R-TC11	150	202	CK7R	225	TC..1102	M2.5-60-3.5-60	T8	-	15.0	1
CBH200DP-310L-CK7R-TP08	200	310	CK7R	310	TP..0802	M2.5-60-3.5-60	T8	-	18.0	1
CBH200DP-310L-CK7R-TP09	200	310	CK7R	310	TC..0902	M2.5-60-3.5-60	T8	-	18.0	1
CBH200DP-310L-CK7R-TC11	200	310	CK7R	310	TP..1102	M2.5-5.0-3.1-60	T8	-	18.0	1

選配表 Option

刀桿 Shank	搪頭 Boring Head	
B698-B700	B727	B730

• 長度單位 Unit of Length (mm)

BORING

SCK/DP 減震延長桿
SCK/DP DAMPING EXTENSION

ZL201520282217.6
ZL201520282261.7

Anti-Vibration

Fig.1

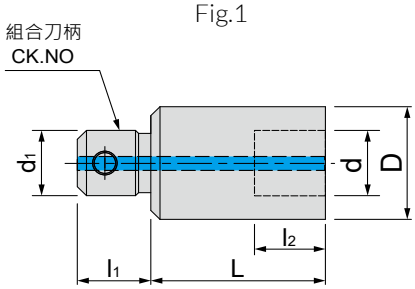
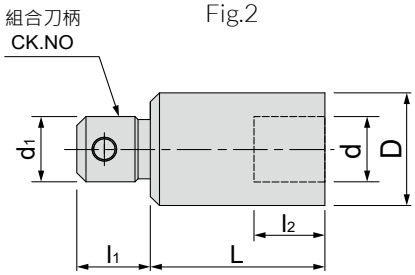


Fig.2



規格 Spec.	組合刀柄 Ck No.	L	l_1	l_2	D	d	d_1	適用搪孔頭 Suitable Boring Head	重量 (KGS) Weight	Fig.
SCK2DP-2-75L	CK2	75	16	18	24	14	14	CBH25/MBH25	0.33	2
SCK3DP-3-100L	CK3	100	20	22	31	18	18	CBH32/MBH32	0.62	1
SCK4DP-4-120L	CK4	120	24	26	39	22	22	CBH40/MBH40	1.11	1
SCK5DP-5-130L	CK5	130	30	32	50	28	28	CBH52/MBH52/FBH55	2.30	1
SCK6DP-6-170L	CK6	170	40	42	64	36	36	CBH68/MBH68/FBH68	5.10	1

• 長度單位 Unit of Length (mm)

CK/DP 減震搪孔刀桿
CK/DP DAMPING BORING HEAD SHANK

ZL201520282217.6
ZL201520282261.7

Anti-Vibration

Fig.1

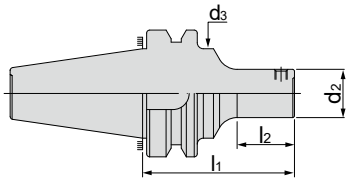


Fig.2

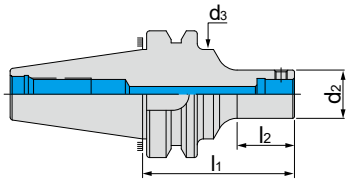
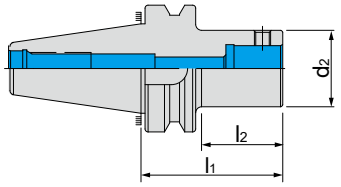


Fig.3



6 倍長 6 Times Longer

規格 Spec.	l_1	l_2	d_2	d_3	適用搪孔頭 Suitable Boring Head	Fig.	重量 (KGS) Weight
BT40-CK2DP-150	150	110	24	39	SMB25/SCK2430-C/SCK2940-C	1	2.94
BT40-CK3DP-200	200	160	31	50	SMB32/SCK3950-C	2	-
BT40-CK4DP-235	235	200	39	50	SMB41/SCK4965-C	2	4.4
BT40-CK5DP-310	310	280	50	-	SMB53/SCK6382-C	3	-
BT40-CK6DP-295	295	270	64	-	SMB68/SCK80102-C	3	9.7
BT50-CK2DP-160	160	110	24	39	SMB25/SCK2430-C/SCK2940-C	1	-
BT50-CK3DP-220	220	160	31	50	SMB32/SCK3950-C	2	6.5
BT50-CK4DP-260	260	205	39	64	SMB41/SCK4965-C	2	7.42
BT50-CK5DP-310	310	265	50	64	SMB53/SCK6382-C	2	9.34
BT50-CK6DP-375	375	330	64	-	SMB68/SCK80102-C	3	13.22

8 倍長 8 Times Longer

規格 Spec.	l_1	l_2	d_2	d_3	適用搪孔頭 Suitable Boring Head	Fig.	重量 (KGS) Weight
BT40-CK2DP-200	200	160	24	39	SMB25/SCK2430-C/SCK2940-C	1	3.14
BT40-CK3DP-260	260	220	31	50	SMB32/SCK3950-C	2	4.1
BT40-CK4DP-315	315	280	39	50	SMB41/SCK4965-C	2	-
BT50-CK2DP-210	210	160	24	39	SMB25/SCK2430-C/SCK2940-C	1	5.74
BT50-CK3DP-280	280	220	31	50	SMB32/SCK3950-C	2	-
BT50-CK4DP-340	340	285	39	64	SMB41/SCK4965-C	2	8.38
BT50-CK5DP-400	400	355	50	64	SMB53/SCK6382-C	2	-
BT50-CK6DP-505	505	460	64	-	SMB68/SCK80102-C	3	-

選配表 Option

□□Boring Head	□□□Extension
B759	B760

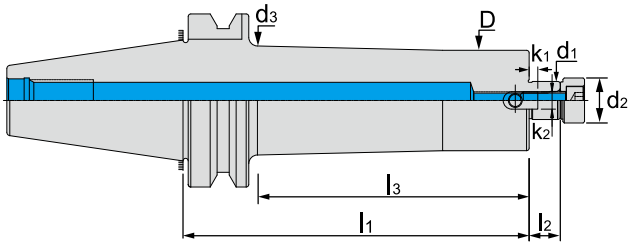
• 長度單位 Unit of Length (mm)

BORING

FDP 減震銑刀桿
FDP DAMPING FACE MILL ARBOR

ZL201520282217.6
ZL201520282261.7

Anti-Vibration



規格 Spec.	l_1	l_2	l_3	D	d_1	d_2	d_3	k_1	k_2	重量 (KGS) Weight
BT50-FDP22-300BG	300	18	255	58	22	31.75	62	4.3	10	10.84
BT50-FDP22-350BG	350	18	305	58	22	31.75	62	4.3	10	-
BT50-FDP22-400BG	400	18	355	58	22	31.75	62	4.3	10	12.72
BT50-FDP22-500BG	500	18	455	58	22	31.75	62	4.3	10	14.96
BT50-FDP27-300BG	300	20	255	58	27	31.5	62	5.8	12	10.96
BT50-FDP27-350BG	350	20	305	58	27	31.5	62	5.8	12	11.32
BT50-FDP27-400BG	400	20	355	58	27	31.5	62	5.8	12	-
BT50-FDP27-450BG	450	20	405	58	27	31.5	62	5.8	12	13.66
BT50-FDP27-500BG	500	20	455	58	27	31.5	62	5.8	12	-
BT50-FDP32-300BG	300	21	255	74	32	41	78	6.8	14	-
BT50-FDP32-400BG	400	21	355	74	32	41	78	6.8	14	16.76
BT50-FDP32-500BG	500	21	455	74	32	41	78	6.8	14	-
BT50-FDP32-600BG	600	21	555	74	32	41	78	6.8	14	-
HSK63A-FDP16-200	200	16.5	169	38	16	17	38	4.3	8	2.58
HSK63A-FDP16-250	250	16.5	219	38	16	17	38	4.3	8	3.31
HSK63A-FDP22-250 BG	250	18	219	58	22	31.75	62	4.3	10	6.3
HSK63A-FDP22-300 BG	300	18	269	58	22	31.75	62	4.3	10	7.4
HSK100A-FDP22-300 BG	300	18	261	58	22	31.75	62	4.3	10	8.84
HSK100A-FDP22-350 BG	350	18	311	58	22	31.75	62	4.3	10	9.9
HSK100A-FDP22-400 BG	400	18	361	58	22	31.75	62	4.3	10	10.96
HSK100A-FDP22-450 BG	450	18	411	58	22	31.75	62	4.3	10	12.02
HSK100A-FDP22-500 BG	500	18	461	58	22	31.75	62	4.3	10	13.08
HSK100A-FDP27-300 BG	300	20	261	74	27	31.5	78	5.8	12	10.12
HSK100A-FDP27-350 BG	350	20	311	74	27	31.5	78	5.8	12	11.27
HSK100A-FDP27-400 BG	400	20	361	74	27	31.5	78	5.8	12	12.41
HSK100A-FDP27-450 BG	450	20	411	74	27	31.5	78	5.8	12	13.63
HSK100A-FDP27-500BG	500	20	461	74	27	31.5	78	5.8	12	14.71
HSK100A-FDP32-300 BG	300	21	261	74	32	41	85	6.8	14	10.28
HSK100A-FDP32-350 BG	350	21	311	74	32	41	85	6.8	14	11.46
HSK100A-FDP32-400 BG	400	21	361	74	32	41	85	6.8	14	12.58
HSK100A-FDP32-450 BG	450	21	411	74	32	41	85	6.8	14	13.73
HSK100A-FDP32-500 BG	500	21	461	74	32	41	85	6.8	14	14.88
HSK100A-FDP32-600 BG	600	21	561	74	32	41	85	6.8	14	17.18

範例 Example

HR

GR

KM

BGP

SFM

KFM

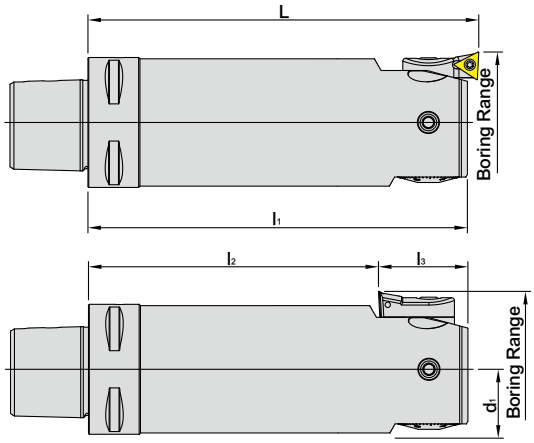
IFM

選配表 Option

銑刀頭 Milling Cutter						
A116	A125	A154	A141	A158	A161	A164

• 長度單位 Unit of Length (mm)

PSC/PMB 減震精密微調搪頭
DAMPING FINE BORING HEAD



規格 Spec.	øD 搪孔範圍 Boring Range(正搪)				øD 搪孔範圍 Boring Range(背搪)					刀片座 Insert Seat	刀片 Insert	螺絲 Screw	重量 (KGS) Weight
	Min.	Max.	L	l1	Min.	Max.	l2	l3	d1				
PSC32-PMB32DP-115	32	42	115	110	-	-	90	25	16	SIB32-1/SIC32-1	TB..0601 TP..0802	M2-5.0-2.7-60	0.82
	41	51	115	110	46	51	90	25	16	SIB32-2/SIC32-2			0.82
	50	60	115	110	50	60	90	25	16	SIB32-3/SIC32-3			0.82
PSC40-PMB41DP-125	41	54	125	121	-	-	96	29	20	SIB41-1/SIC41-1	TP..0902 TC..1102	M2.5-6.0-3.5-60	-
	50	63	125	121	53	63	96	29	20	SIB41-2/SIC41-2			-
	61	74	125	121	61	74	96	29	20	SIB41-3/SIC41-3			-
PSC50-PMB53DP-150	53	70	150	146	62	70	116	34	25.5	SIB53-1/SIC53-1	TP..0902 TC..1102		2.72
	65	82	150	146	65	82	116	34	25.5	SIB53-2/SIC53-2			2.72
	78	95	150	146	78	95	116	34	25.5	SIB53-3/SIC53-3			2.72
PSC63-PMB68DP-190	68	100	190	186.2	80	100	114.8	45.2	32.5	SIB68-1/SIC68-1	TP..0902 TC..1102		5.82
	94	126	190	186.2	94	126	114.8	45.2	32.5	SIB68-2/SIC68-2			5.82
	118	150	190	186.2	118	150	114.8	45.2	32.5	SIB68-3/SIC68-3			5.82

※ 不含 SIB/SIC 刀片座，刀片座需另外購買
Not including SIB/SIC insert seat, insert seat need to purchase separately.

選配表 Option

刀桿 Shank	刀片座 Insert Seat
B698-B700	B688

• 長度單位 Unit of Length (mm)

夾治具系統
Clamping Systems

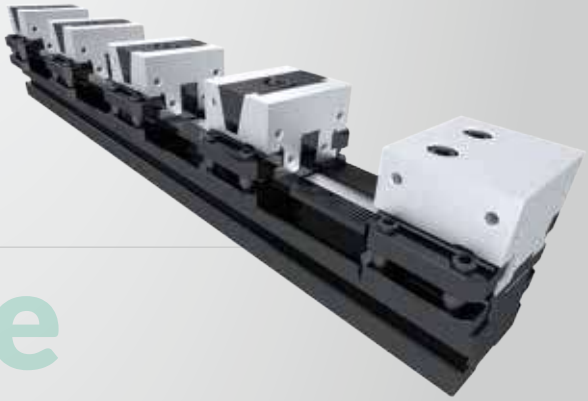
同動求心虎鉗
Self Center

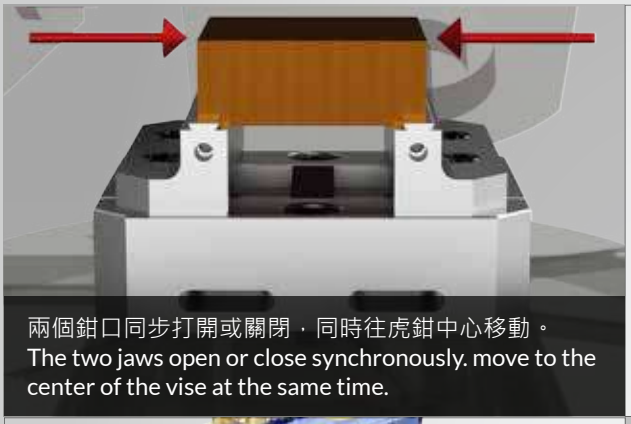
迷你虎鉗
OKV

雙夾型虎鉗
Double-Clamping

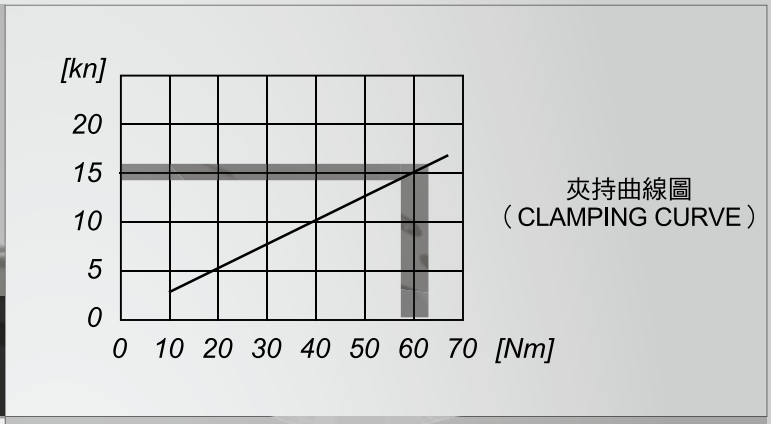
一般型虎鉗
General

彈性並列式虎鉗
Flexible Parallel Vise

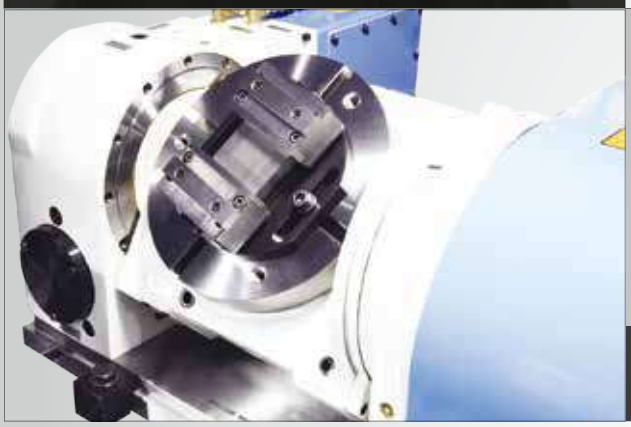


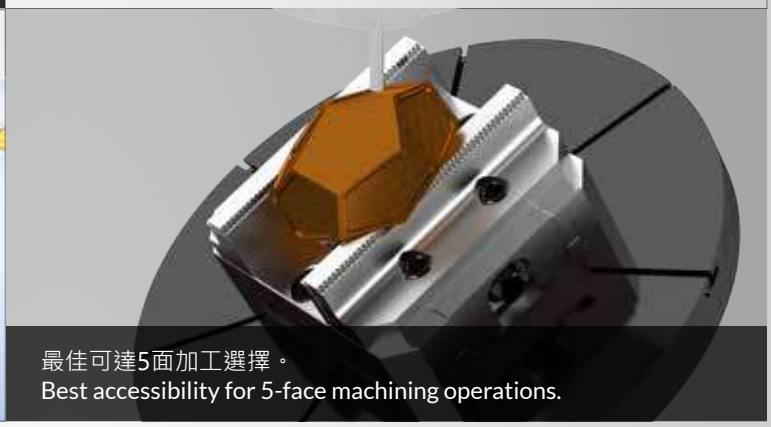


兩個鉗口同步打開或關閉，同時往虎鉗中心移動。
The two jaws open or close synchronously. move to the center of the vise at the same time.



夾持曲線圖
（CLAMPING CURVE）





最佳可達5面加工選擇。
Best accessibility for 5-face machining operations.

特點

Features

同動式求心虎鉗適用於三、四、五軸、CNC分度盤及臥式銑床精密加工
Self Centring Precision Vise is suitable for 3、4、5 axis、CNC Rotary Table and Horizontal machining.

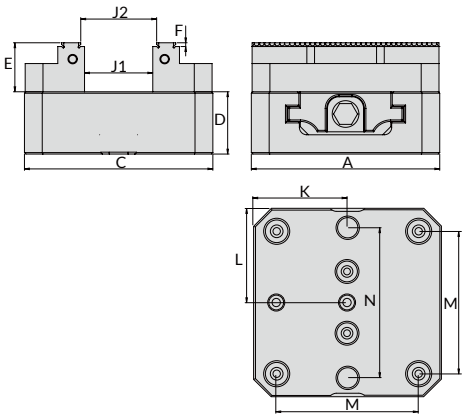
虎鉗中心重覆定位精度可保持±0.01mm，極其扁平的設計，為了最大限度地利用機台空間。
Vise precision of its center repetition position is ±0.01mm, extremely flat design, for maximum utilization of the machine room.

虎鉗滑軌經高週波熱處理HRC45˚以上，可保持高耐磨性。
Slideway has high frequence heat treatment at HRC45˚ or more to keep the accuracy and its long use life.

虎鉗鉗口採用全鋼材質，經熱處理硬度達HRC55˚以上，可拆換方向使用，變化性與互換性極佳。
Vise hard jaw material is full Steel and heat treatment at HRC55˚ or more. Owing to its good design to use both sides of jaw since it is exchangeable.

虎鉗特殊的結構設計，夾持工件時所產生的下壓力能有效防止工件上浮情形，鎖固力極佳。
Special design for the Self Centring Precision Vise to prevent work piece from bending during clamping and machining. Thus, it has the best solution in clamping the work piece.

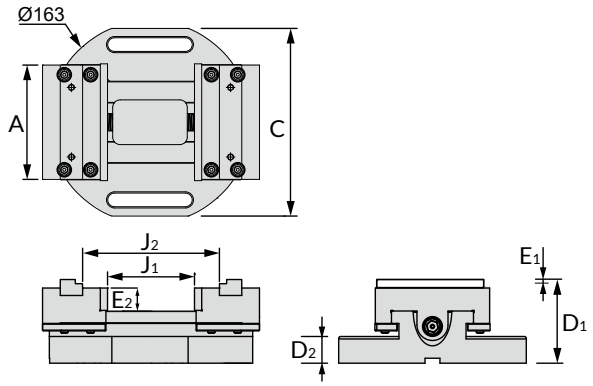
LM-VE-_SC 同動求心虎鉗
LM-VE-_SC SELF CENTRING VISE



本體材質:合金鋼 Using steel alloy

規格 Spec.	A	C	D	E	F	J_1	J_2	K	L	M	N	夾持力 Power	重量 (KGS) Weight
LM-VE-127SC	127	127	42	33	3	0-46	0-51	63.5	63.5	96	101	15KN	5.5
LM-VE-153SC	127	153	42	33	3	0-72.5	0-79	76.5	63.5	96	101	15KN	6.7
LM-VE-210SC	127	210	42	33	3	0-122	0-127	101.5	63.5	96	101	18KN	8.7
LM-VE-76102SC	76	102	35	21	2.5	0-45	0-49	127.5	75	96	-	-	-

LM-VE-90SC 同動求心虎鉗
LM-VE-90SC SELF CENTRING VISE



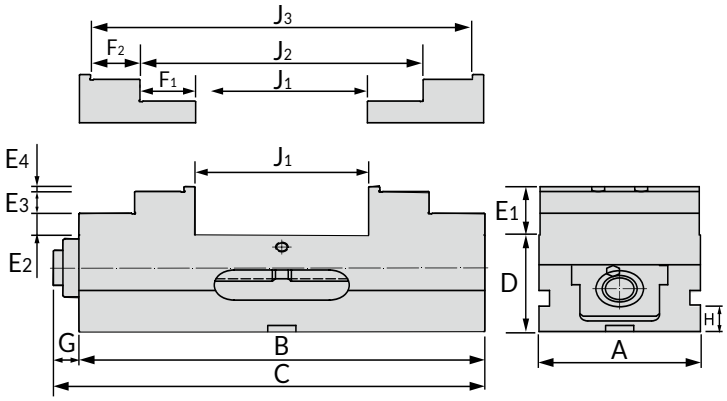
本體材質:合金鋼 Using alloy steel

規格 Spec.	A	C	D_1	D_2	E_1	E_2	J_1	J_2	夾持力 Power	重量 (KGS) Weight
LM-VE-90SC	90	151	60	17	5	18	0-60	40-100	15KN	4.00

AID

• 長度單位 Unit of Length (mm)

LM-VE-_SC 同動求心虎鉗
LM-VE-_SC SELF CENTRING VISE



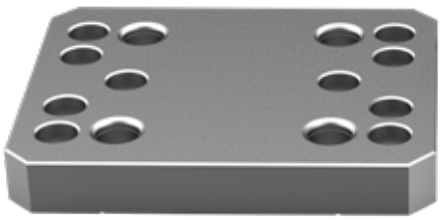
本體材質:球墨鑄鐵 Using FDC60

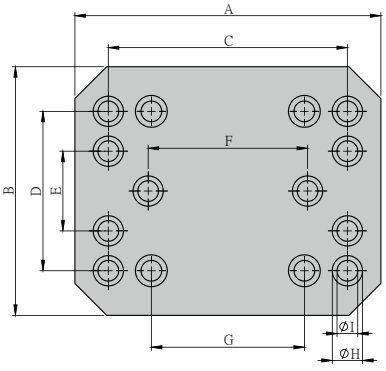
規格 Spec.	A	B	C	D	E1	E2	E3	E4	F1	F2	G	H	J1	J2	J3	夾持力 Power	重量 (KGS) Weight
LM-VE-60SC	60	120	143	60	25	12.5	12.5	-	17.5	-	23	18	0-50	38-85	-	15KN	6.00
LM-VE-100SC	101	240	260	80	40	18	18	4	35	31	20	22	0-90	70-160	134-222	15KN	16.0
LM-VE-160SC	160	370	440	105	55	27.5	27.5	-	42.5	-	70	22	0-200	86-285	-	18KN	47.0

CC-QCP96-192 快換式定位盤
CC-QCP96-192 QUICK-CHANGE BASE PLATE

NEW

範例 Example





特點 Feature

- 搭配 LM-VE-127SC、LM-VE-153SC、LM-VE-210SC 使用
- 重覆定位 :±0.005mm
- 材質 : 合金鋼

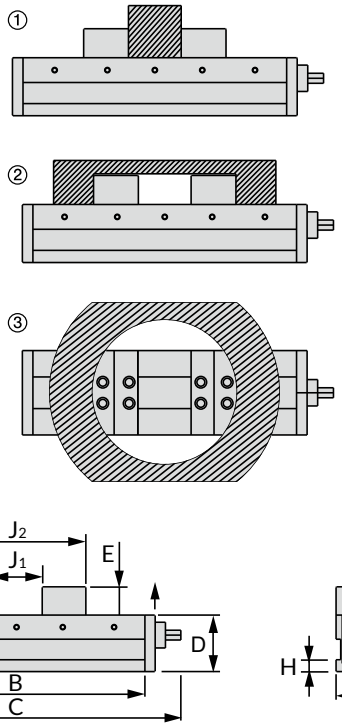
-Need to be used with LM-VE-127SC、LM-VE-153SC、LM-VE-210SC
-Precision of its center repetition position is ± 0.005mm.
-Material : Alloy steel

規格 Spec.	A	B	C	D	E	F	G	H	I	備註
CC-QCP96-192	192	156	150	100	50	100	96	19	13	?4 ?????

• 長度單位 Unit of Length (mm)

AID

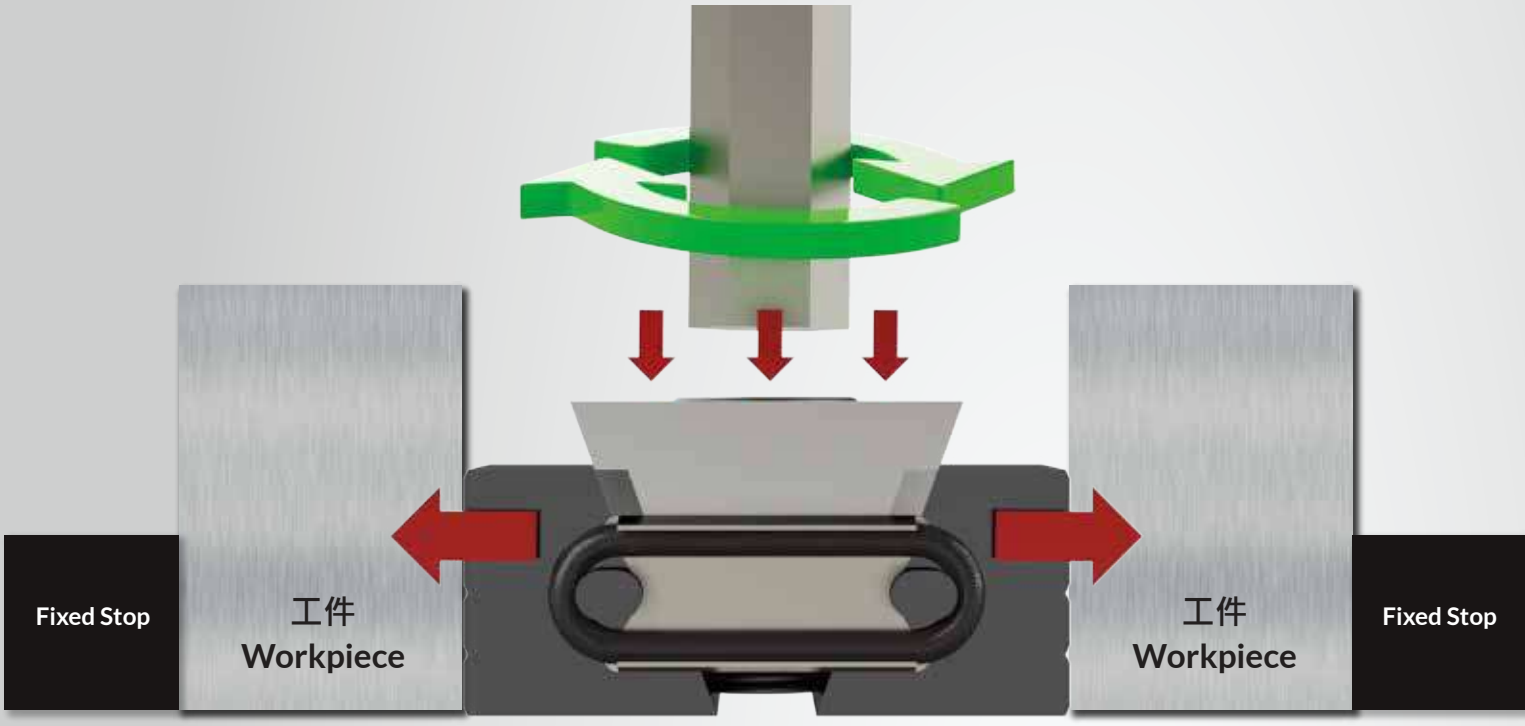
LM-VE-_DCS 角固式雙向求心機械虎鉗
LM-VE-_DCS MECHANICAL-TYPE DOUBLE SELF-CENTERING VISE



規格 Spec.	A	B	C	D	E	H	J1	J2	重量 (KGS) Weight
LM-VE-100DCS	101	310	410	95	40	23	60~170	220~305	30.0
LM-VE-130DCS	130	410	510	100	50	23	60~250	220~405	40.0
LM-VE-160DCS	160	490	590	110	55	23	60~320	230~485	60.0
LM-VE-200DCS	200	565	665	120	60	23	60~365	260~560	100.0

• 長度單位 Unit of Length (mm)

AID

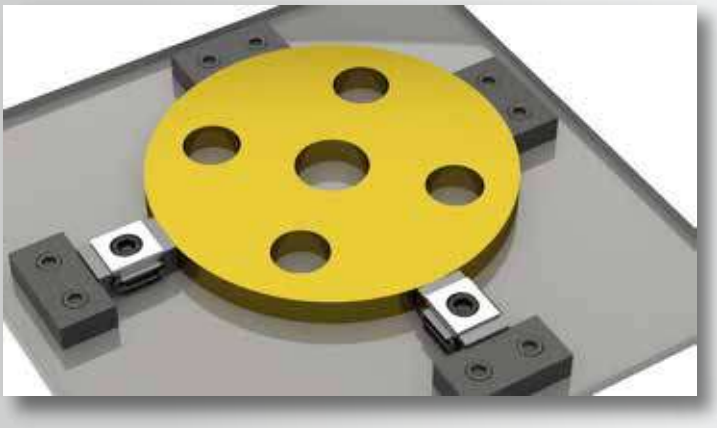


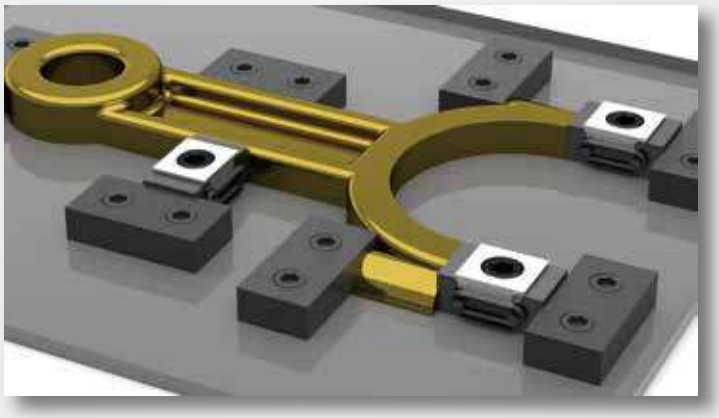
特點
Features

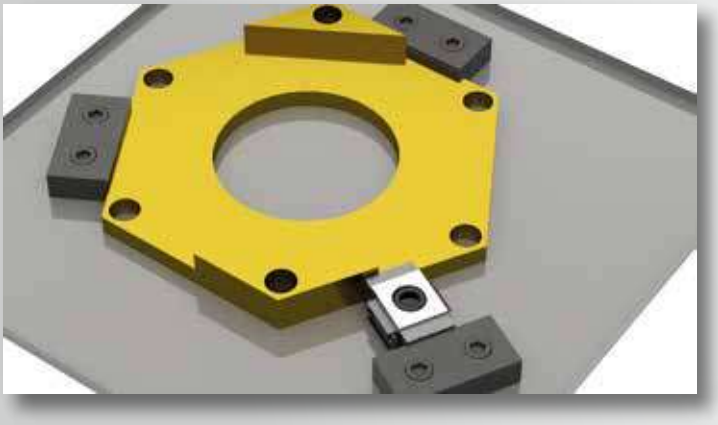
運用六角板手輕鬆鎖固之設計結構。
Designed with a hexagonal wrench for easy locking.

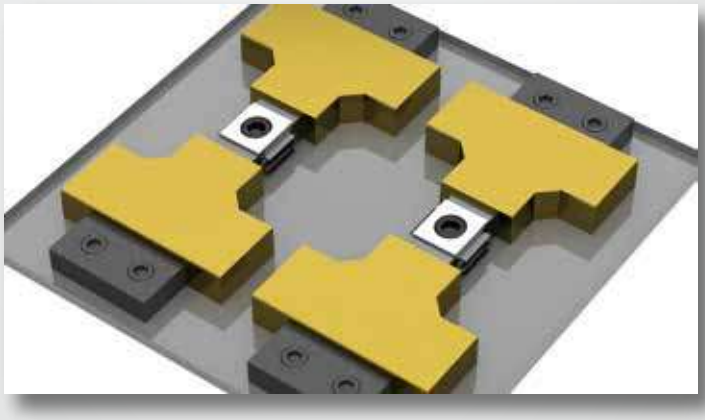
迷你型虎鉗更換工件及設置快速的特點，可靈活運用因應不同變化設計需求。
LM-OKV to replace the workpiece and set the fast features, can flexibly use the design requirements to adapt to different changes.

適用於不同工作平台 (三軸、四軸、五軸及臥式皆可使用)。
Suitable for different working platforms (three-axis, four-axis, five-axis and horizontal).

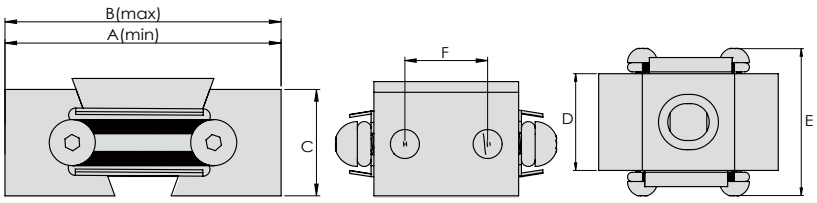




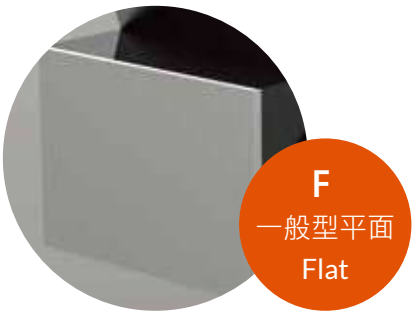




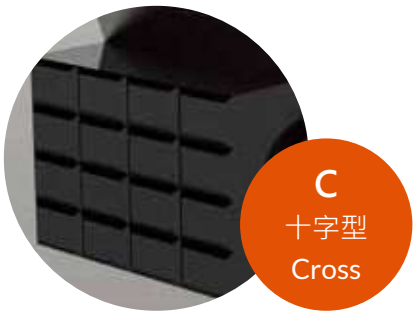
LM-OKV-_ 迷你型虎鉗
LM-OKV-_MINI VISE



規格 Spec.	形式 Type	行程 Stroke	AB 尺寸範圍 AB Size Range	C	D	E	F	夾持力	重量 (KGS) Weight
LM-OKV-2425F	?????	1mm	24.5-25.5mm	11	15	21.5	-	10kgf	0.04
LM-OKV-3742F		5mm	37-42mm	15	21	32	-	25kgf	0.1
LM-OKV-4751F		4mm	47-51mm	22	30	37	-	65kgf	0.26
LM-OKV-2425C	???	1mm	24.5-25.5mm	11	15	21.5	-	10kgf	0.04
LM-OKV-3742C		5mm	37-42mm	15	21	32	-	25kgf	0.1
LM-OKV-4751C		4mm	47-51mm	22	30	37	-	65kgf	0.24
LM-OKV-3742H	??	5mm	37-42mm	15	21	32	12(M5)	25kgf	0.1
LM-OKV-4751H		4mm	47-51mm	22	30	37	18(M5)	65kgf	0.24



當工件為光滑平面時，使用平面鉗口。
Plane jaws are used when the workpiece is a smooth plane.



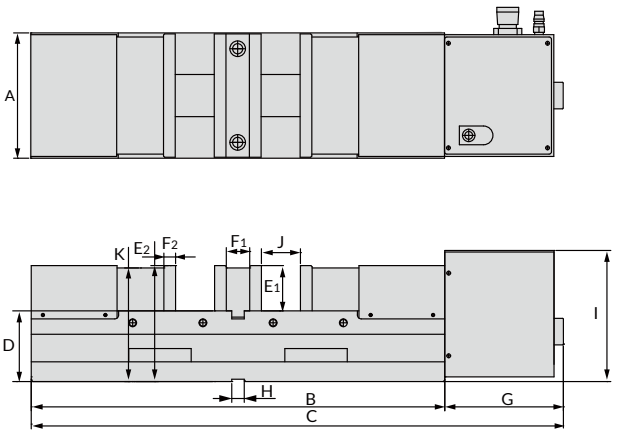
十字型產生高摩擦力，確保在任何情況下都能可靠夾緊。
Cross type creates high friction, which ensures reliable clamping in any circumstances.

側面附有內螺紋，使其可以快速方便地使用各種附加零件。
Internal threads are attached to the sides, making it quick and easy to use various additional pieces.

AID

• 長度單位 Unit of Length (mm)

LM-VE-_JD 空壓雙夾緊虎鉗
LM-VE-_JD SUPER HI-PRESSURE DOUBLE VISE

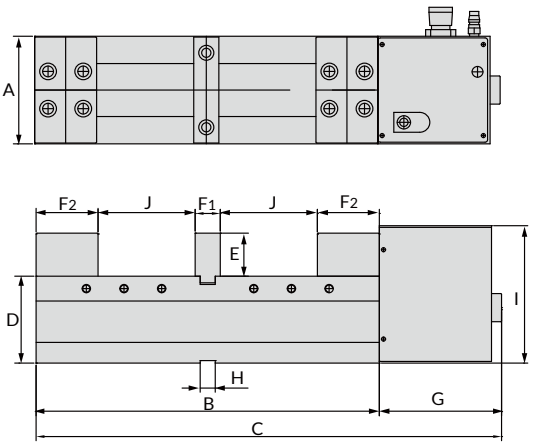


特點 Feature

- 空壓源 8kg/cm² 之低壓源，即可達 4000kgf 之超高夾持力，而夾持力從 0-4000kgf 可藉由調壓器自由調整設定

-Only need 8kg/cm² of low-voltage source to achieve 4000kgf of super high gripping force, and this gripping force can be adjusted from 0-4000kgf by using a pressure regulator.

規格 Spec.	A	B	C	D	E1	E2	F1	F2	G	H	I	J	K	夾持力 Power	重量 (KGS) Weight
LM-VE-530JD	160	530	682	90	58	3	30	15	152	18	168	0-100	145	4000kgf	66.0



特點 Feature

- 內藏浮動下壓可產生下鎖之力，可消除虎口板上浮和工作傾斜

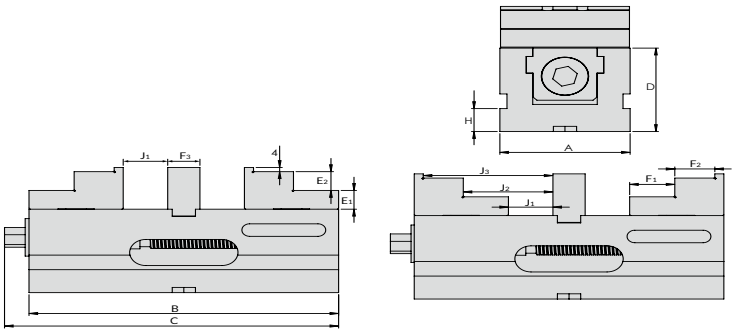
-Having built-in floating pressing structure to provide downward locking force to eliminate flotation of vise jaw and operational slope.

規格 Spec.	A	B	C	D	E	F1	F2	G	H	I	J	夾持力 Power	重量 (KGS) Weight
LM-VE-410JD	130	410	556	105	52	30	74	146	18	166	0-115	3200kgf	44.0
LM-VE-510JD	160	510	656	105	55	30	82	146	18	168	0-115	4000kgf	69.0

• 長度單位 Unit of Length (mm)

AID

LM-VE-_SD 精巧雙夾緊虎鉗
LM-VE-_SD DOUBLE-CLAMPING PRECISION VISE



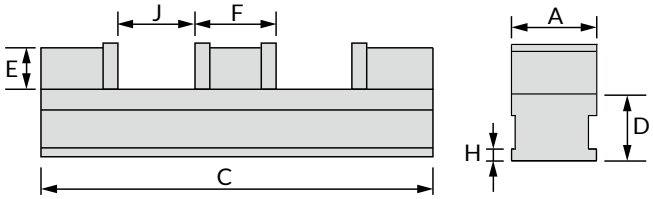
特點 Feature

- 使用快速雙夾機構，可以同時夾緊兩邊工件，亦可單邊夾持
- 虎鉗鉗口採用全鋼材質，經熱處理硬度達 HRC55 ° 以上，可拆換方向使用，變化性與互換性極佳
- 虎鉗本台及鉗口有固定高度，可以組合多台同時使用
- 側面排水槽，用於排出冷卻液和切屑

-With the fast double clamp mechanism, both workpieces can be clamped at the same time, also be clamped unilaterally.
-Vise hard jaw material is full steel and heat treatment at HRC55°or more. Owing to its good design to use both sides of jaw since it is exchangeable.
-The vise and the jaws have a fixed height and can be combined for use at the same time.
-Lateral drainage slots. For drainage of coolant and chips.

規格 Spec.	A	B	C	D	E	E_2	F_1	F_2	F_3	G_1	G_2	H	J_1	J_2	J_3	重量 (KGS) Weight
LM-VE-100SD	100	240	260	80	18	18	35	31	25	18	18	22	0-35	35-70	66-100	18.0

LM-VE-_D 雙夾緊虎鉗
LM-VE-_D DOUBLE-CLAMPING PRECISION VISE



特點 Feature

- 虎鉗採用下鎖式機構可消除虎口上浮的功能
- 在切削中心機上 1 台可變用一次可加工 2 件工件
- 延性鑄鐵的彈簧 FCD60

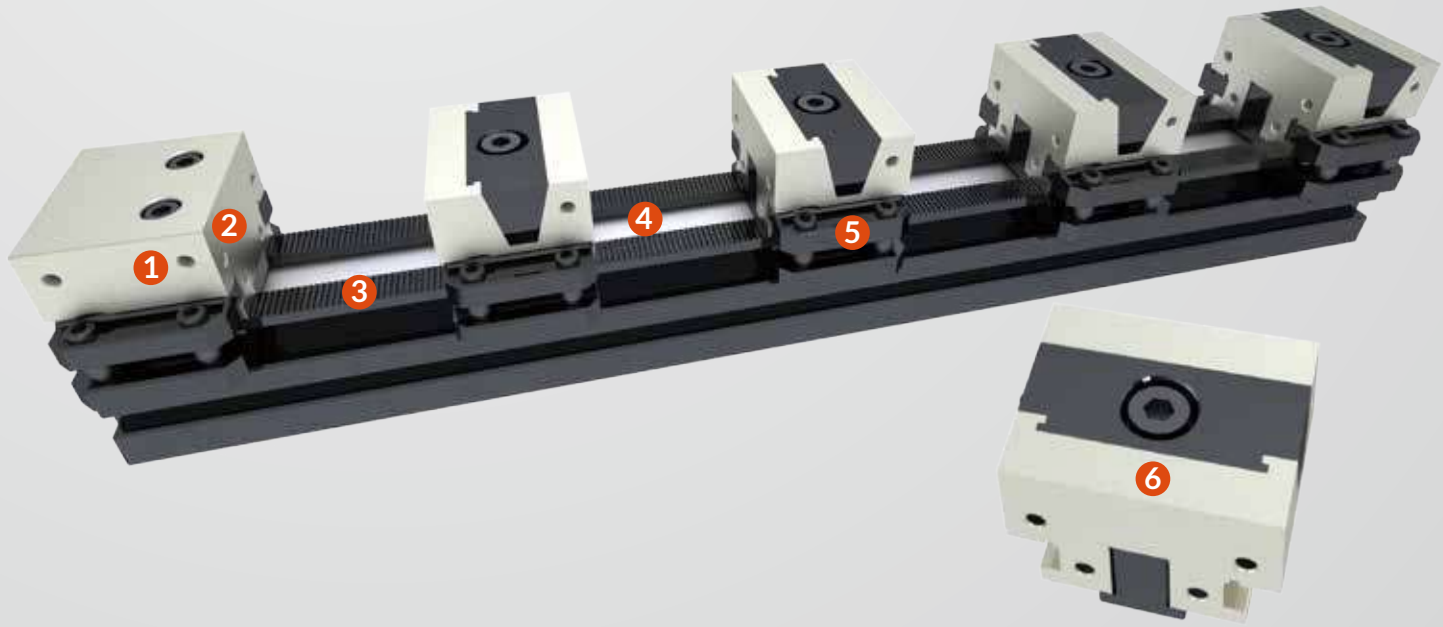
-Vise adopt downward locking structure to eliminate floating body functions.
-On the machining center with a variable of processing two parts.
-Spring of ductile iron FCD60.

規格 Spec.	A	C	D	E	F	H	J	重量 (KGS) Weight
LM-VE-100D	100	400	65	40	60	23	0-55	25.0
LM-VE-160D	160	500	85	60	66	23	0-75	50.0

• 長度單位 Unit of Length (mm)

AID

LM-FRA 彈性並列式虎鉗特色
LM-FRA Flexible parallel vise



1 2 預留孔位，可自行加裝治具
Reserved screw holes is convenient for optional jigs.

3 排齒設計，增加穩定性，快速移動定位用
The rack design of push block improves the stability.

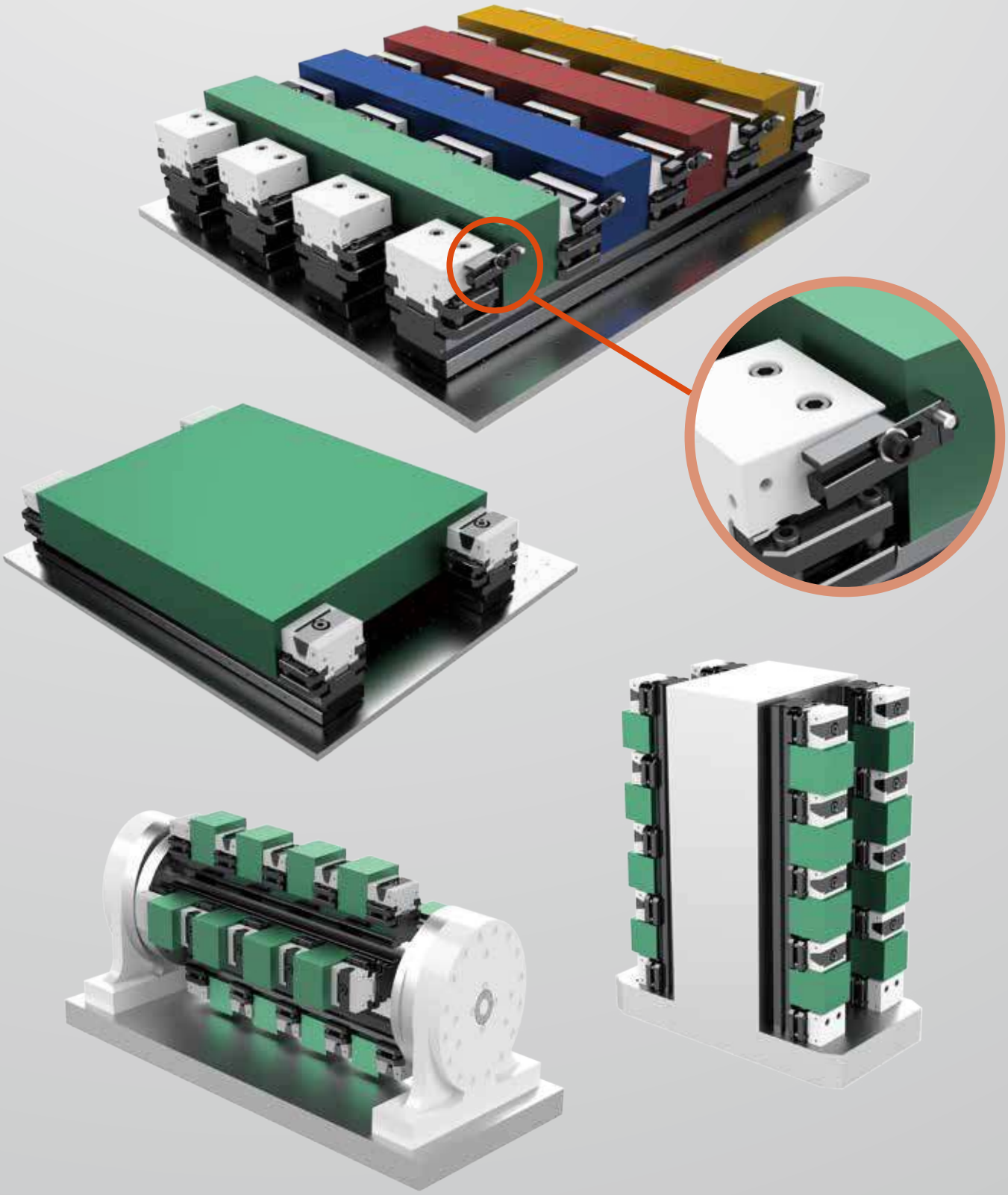
4 擋屑板，防止鐵屑掉落
Prevent chips from sticking in the vise by the plate.

5 快速固定鉗口的夾持塊
Quick-fixed clamping block.

6 獨立性快拆一體式設計，快速、便利移動調整
Independent push block is able to adjust and shift conveniently.

應用實例
Cutting Application

適用臥式、立式 配合多樣治具靈活使用
The application is flexible that both horizontal mills and vertical mills are available.

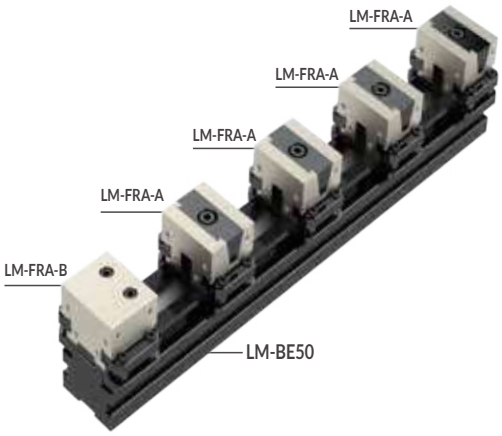


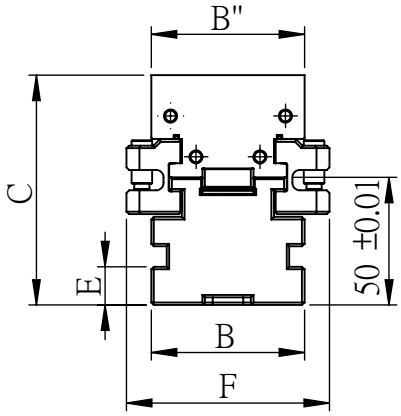
LM-FRA 彈性並列式虎鉗
LM-FRA FLEXIBLE PARALLEL VISE

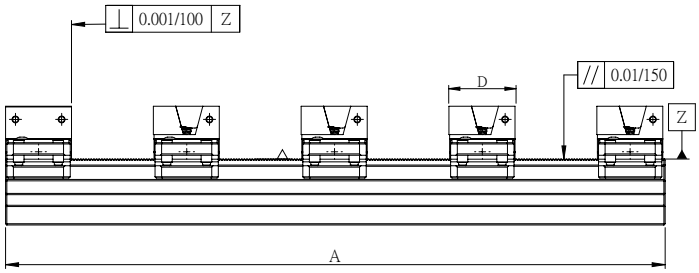
LM-FRA = LM-BE50(基座 BASE) + LM-FRA-_B(固定塊 FIXED BLOCK) + LM-FRA-_A (壓塊 BRIQUETTING)

單向平行夾持系列 Single Parallel clamping series

NEW







規格 Spec.	A	B	B'	C	D	E	F	A 型壓塊 A-type Briquetting	B 型固定塊 B-type Fixed block	重量 (KGS) Weight
LM-FRA-48300-A	300	60	48	90	66	12	81	LM-FRA-48A(4PC)	LM-FRA-48B(1PC)	10.40
LM-FRA-48400-A	400									12.48
LM-FRA-48500-A	500									14.22
LM-FRA-48600-A	600									16.31
LM-FRA-48700-A	700									17.92
LM-FRA-60300-A	300	60	60	90	66	12	81	LM-FRA-60A(4PC)	LM-FRA-60B(1PC)	10.96
LM-FRA-60400-A	400									13.04
LM-FRA-60500-A	500									14.78
LM-FRA-60600-A	600									16.87
LM-FRA-60700-A	700									18.48
LM-FRA-80400-A	400	80	80	95	72	12	99	LM-FRA-80A(4PC)	LM-FRA-80B(1PC)	19.87
LM-FRA-80500-A	500									22.63
LM-FRA-80600-A	600									25.28
LM-FRA-80700-A	700									27.86
LM-FRA-80800-A	800									30.51
LM-FRA-100400-A	400	100	100	95	72	12	99	LM-FRA-100A(4PC)	LM-FRA-100B(1PC)	23.05
LM-FRA-100500-A	500									26.60
LM-FRA-100600-A	600									30.05
LM-FRA-100700-A	700									35.46
LM-FRA-100800-A	800									38.99

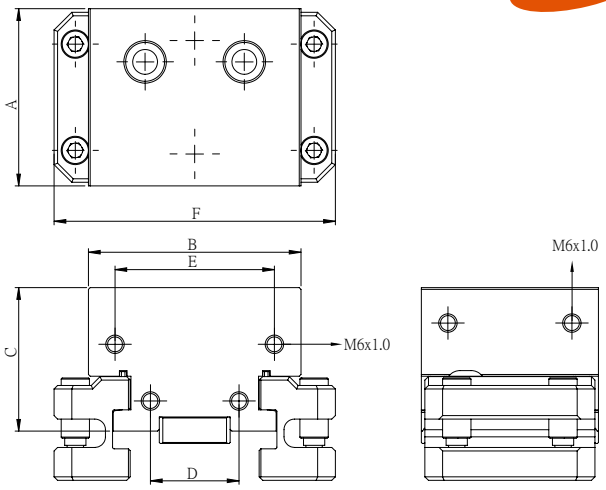
A：400 以下 (含) 附 M12T 帽及鎖固螺絲 3 set 鍵槽定位塊及螺絲 2 set
A：Spec. under 400 attached with M12T nut and locking screw 3 set keyway interlocks and 2 set screw.
A：500 以上 (含) 附 M12T 帽及鎖固螺絲 4 set 鍵槽定位塊及螺絲 2 set
A：Spec. above 500 attached with M12T nut and locking screw 4 set keyway interlocks and 2 set screw.

• 長度單位 Unit of Length (mm)

AID

LM-FRA-_B 多夾式虎鉗固定塊
LM-FRA-_B MULTI-FOLDER VISE FIXED BLOCK

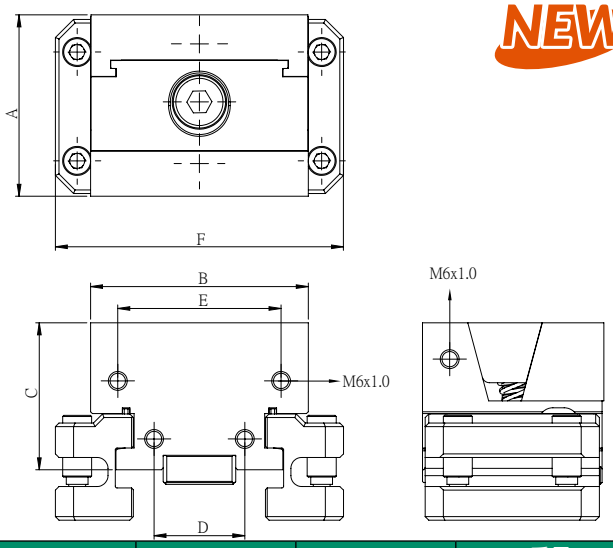
NEW



規格 Spec.	A	B	C	D	E	F	重量 (KGS) Weight
LM-FRA-48B	66	48	40	25	35	81	1.35
LM-FRA-60B	66	60	40	25	45	81	1.51
LM-FRA-80B	66	80	45	25	65	99	2.09
LM-FRA-100B	66	100	45	25	85	119	2.56

LM-FRA-_A 多夾式虎鉗壓塊
LM-FRA-_A MULTI-FOLDER VISE BRIQUETTING

NEW

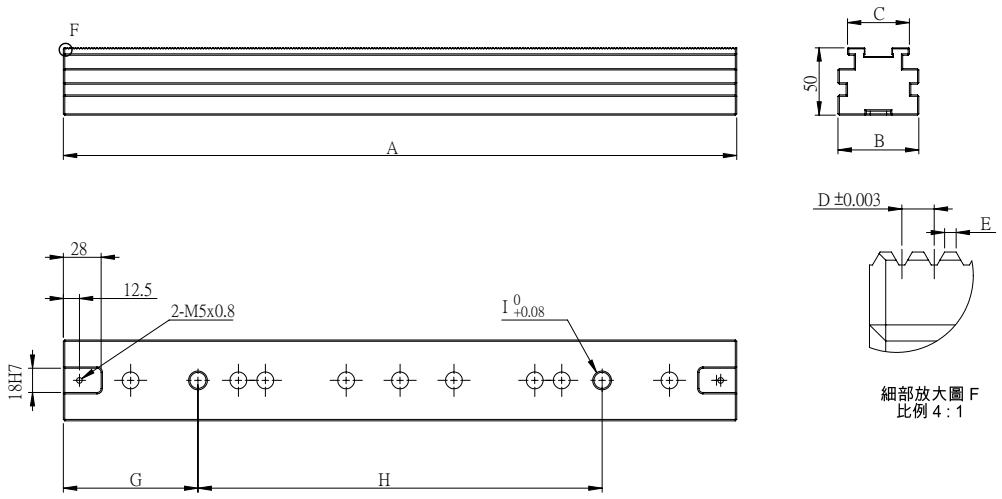


規格 Spec.	A	B	C	D	E	F	重量 (KGS) Weight
LM-FRA-48A	66	48	40	25	35	81	1.33
LM-FRA-60A	66	60	40	25	45	81	1.49
LM-FRA-80A	72	80	45	25	65	99	2.24
LM-FRA-100A	72	100	45	25	85	119	2.74

• 長度單位 Unit of Length (mm)

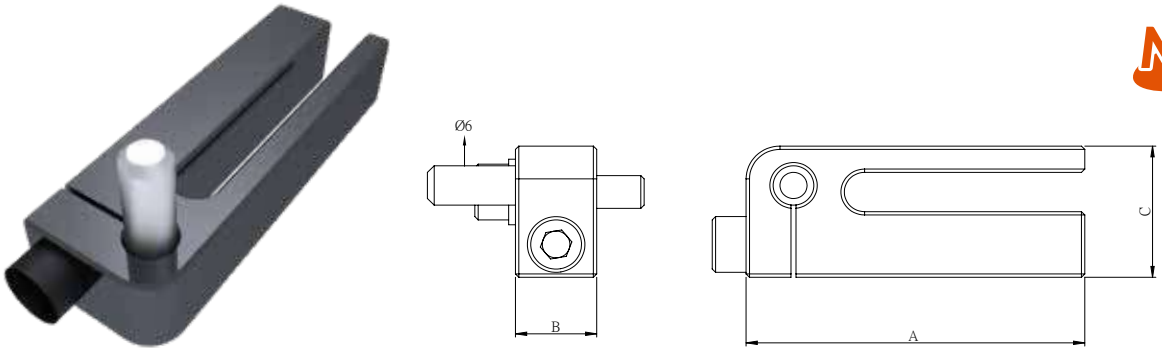
AID

LM-BE50 多夾式虎鉗基座
LM-BE50 MULTI-FOLDER VISE BASE



規格 Spec.	A	B	C	D	E	G	H	重量 (KGS) Weight	I
LM-BE50-60300	300	60	48	2	0.654	70	60	5.44	12
LM-BE50-60400	400					100	200	7.52	
LM-BE50-60500	500					100	300	9.26	
LM-BE50-60600	600					100	400	11.35	
LM-BE50-60700	700					100	400	12.96	
LM-BE50-80400	400	80	66	2	0.654	70	240	10.47	16
LM-BE50-80500	500					100	300	13.23	
LM-BE50-80600	600						400	15.88	
LM-BE50-80700	700						400	18.46	
LM-BE50-80800	800						400	21.11	
LM-BE50-100400	400	100	86	2	0.654	70	240	13.6	16
LM-BE50-100500	500					100	300	17.14	
LM-BE50-100600	600						400	20.56	
LM-BE50-100700	700						400	23.93	
LM-BE50-100800	800						400	27.47	

LM-DB 基準塊
LM-DB DATUM PLATE



規格 Spec.	A	B	C	重量 (KGS) Weight
LM-DB-5006-A	50	12	20	0.05
LM-DB-6006-A	60			0.06

• 使用方式請參考第 774 頁應用實例
Usage please refer to the application example of page 774

• 長度單位 Unit of Length (mm)

AID

LM-FRA 彈性並列式虎鉗 虎鉗夾持範圍
LM-FRA FLEXIBLE PARALLEL VISE CLAMPING RANGE

NEW

Fig.1

Fig.2

Fig.3

Fig.4

規格 Spec.	最大工件範圍 Biggest range of workpiece			
	一個工件 1 workpiece	二個工件 2 workpieces	三個工件 3 workpieces	四個工件 4 workpieces
	Fig.1	Fig.2	Fig.3	Fig.4
LM-FRA-048300-A	168	50	12	-
LM-FRA-048400-A	268	100	44	16
LM-FRA-048500-A	368	150	78	42
LM-FRA-048600-A	468	200	112	66
LM-FRA-048700-A	568	250	144	92
LM-FRA-060300-A	168	50	12	-
LM-FRA-060400-A	268	100	44	16
LM-FRA-060500-A	368	150	78	42
LM-FRA-060600-A	468	200	112	66
LM-FRA-060700-A	568	250	144	92
LM-FRA-080400-A	268	100	44	16
LM-FRA-080500-A	368	120	78	42
LM-FRA-080600-A	468	200	112	66
LM-FRA-080700-A	568	250	144	92
LM-FRA-080800-A	668	300	178	116
LM-FRA-100400-A	268	100	44	16
LM-FRA-100500-A	368	150	78	42
LM-FRA-100600-A	468	200	1112	66
LM-FRA-100700-A	568	250	144	92
LM-FRA-100800-A	668	300	178	116

• 長度單位 Unit of Length (mm)

LM-FRA 彈性並列式虎鉗 虎鉗夾持範圍
LM-FRA FLEXIBLE PARALLEL VISE CLAMPING RANGE

NEW

Fig.1

Fig.2

Fig.3

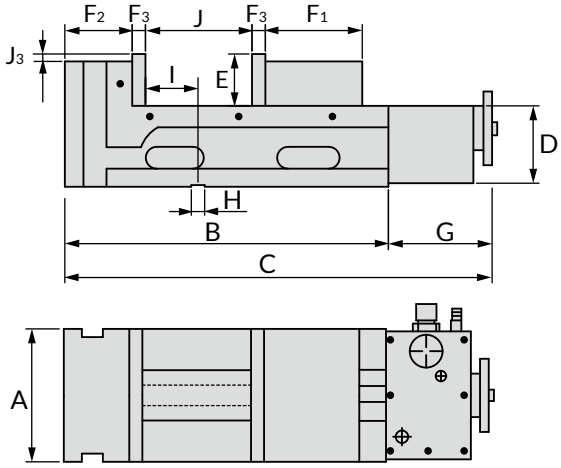
Fig.4

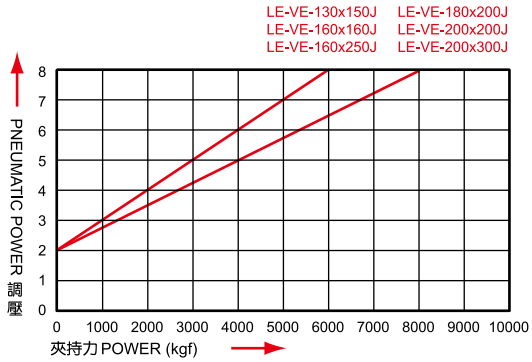
規格 Spec.	最大工件範圍 Biggest range of workpiece			
	五個工件 5 workpieces	六個工件 6 workpieces	七個工件 7 workpieces	八個工件 8 workpieces
	Fig.1	Fig.2	Fig.3	Fig.4
LM-FRA-048300-A	-	-	-	-
LM-FRA-048400-A	-	-	-	-
LM-FRA-048500-A	20	6	-	-
LM-FRA-048600-A	40	22	10	-
LM-FRA-048700-A	60	38	24	12
LM-FRA-060300-A	-	-	-	-
LM-FRA-060400-A	-	-	-	-
LM-FRA-060500-A	20	6	-	-
LM-FRA-060600-A	40	22	10	-
LM-FRA-060700-A	60	38	24	12
LM-FRA-080400-A	-	-	-	-
LM-FRA-080500-A	20	6	-	-
LM-FRA-080600-A	40	22	10	-
LM-FRA-080700-A	60	38	24	12
LM-FRA-080800-A	80	56	38	24
LM-FRA-100400-A	-	-	-	-
LM-FRA-100500-A	20	6	-	-
LM-FRA-100600-A	40	22	10	-
LM-FRA-100700-A	60	38	24	12
LM-FRA-100800-A	80	26	38	24

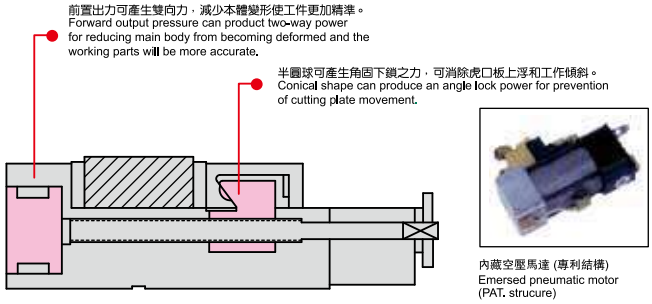
• 長度單位 Unit of Length (mm)

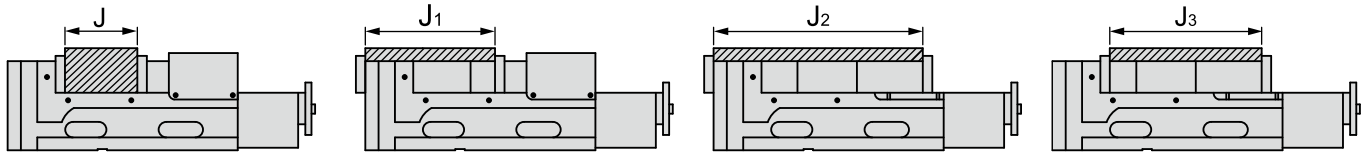
AID

LM-VE-_J 空壓快速精密虎鉗
LM-VE-_J PNEUMATIC MC PRECISION&ANGLE LOCK VISE









特點 Feature

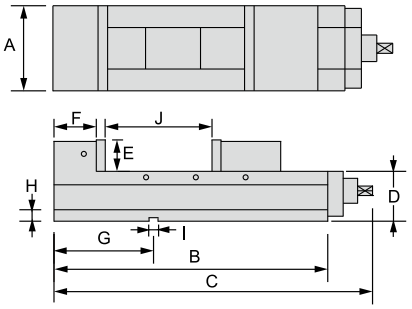
- 空壓源 8kg/cm^2 之低壓源，即可達 9000kgf 之超高夾持力，而夾持力從 0-9000kgf 可藉由調壓器自由調整設定
- 開關速度只需 1.5 秒，夾持安全距離可達 8mm，並可設有手輪安全線，可輕易由肉眼辨識出工件夾持之安全距離，是否超限
- 定寸規格，本體六面磨光並預留壓板槽，不須治具板，即可直立加工

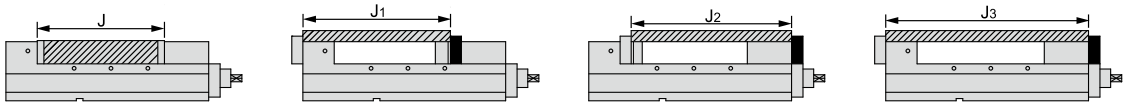
-Even the air source at low pressure 8kg/cm^2 which can be achieved super high gripping force can be adjusted freely by pressure regulator.
-The shifting speed is only 1.5 sec. with safety range: 8mm, also equipped with safety line on hand wheel to easily identify with eye whether if the safety distance of workpiece clamping is exceed.
- Six faces of vice body be super grinding & pre-setting pad slot, and can be processed vertically without jig fixture.

規格 Spec.	A	B	C	D	E	F1	F2	F3	G	H	I	J	J1	J2	J3	夾持力 Power	重量 (KGS) Weight
LM-VE-100-100J	100	320	435	100	48	100	85	15	125	16	45	0-100	95-220	100-200	200-300	3200kgf	29.0
LM-VE-130-150J	130	380	505	105	55	110	85	15	125	18	45	0-150	95-250	110-275	200-380	6000kgf	40.0
LM-VE-160-160J	160	400	525	105	58	120	85	15	125	18	45	0-160	95-260	120-295	210-400	6000kgf	50.0
LM-VE-160-250J	160	490	615	105	58	120	85	15	125	18	45	0-250	95-350	120-395	210-490	6000kgf	55.0
LM-VE-180-200J	180	460	585	110	63	130	90	18	125	18	72	0-200	100-300	130-350	220-460	9000kgf	72.0
LM-VE-200-200J	200	470	595	110	63	140	90	18	125	18	72	0-200	100-310	140-360	230-470	9000kgf	80.0
LM-VE-200-300J	200	570	695	110	63	140	90	18	125	18	72	0-300	100-410	140-460	230-570	9000kgf	90.0

• 長度單位 Unit of Length (mm)

CHW-_B 機械式精密虎鉗
CHW-_B MULIT-FOLDER VISE FIXED BLOCK





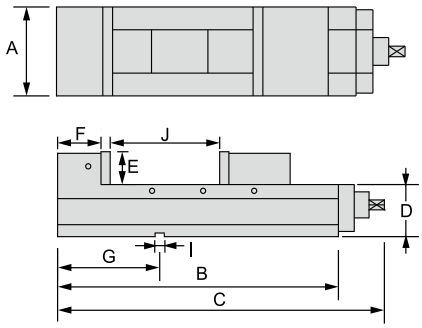
特點 Feature

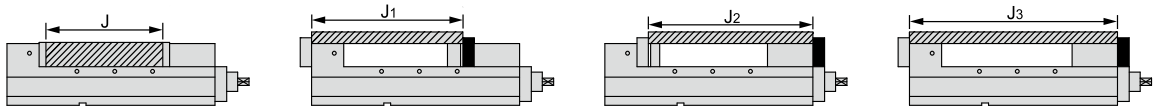
- 附防止所夾持工件上浮的角固裝置
- 無增壓機構，適用於較軟的工件夾持

- The unit had prevent lifting structure.
- Not turbo-charged organization, is suitable for clamping the soft workpiece.

規格 Spec.	A	B	C	D	E	F	G	H	I	J	J_1	J_2	J_3	重量 (KGS) Weight
CHW-100B	100	400	490	85	48	80	110	23	18	200	230	260	340	30.0
CHW-130B	130	450	540	95	53	85	135	23	18	240	285	320	405	43.0
CHW-160B	160	550	640	100	63	103	200	23	18	300	380	400	500	61.0
CHW-200B	200	600	690	110	63	108	220	23	18	340	438	470	578	84.0

LM-VE-_B 機械式虎鉗
LM-VE-_B MULIT-FOLDER VISE FIXED BLOCK





特點 Feature

- 高剛性結構
- 角固機械式虎鉗適合中、輕切削做精密加工
- 虎鉗本台使用高抗張力球狀石墨鑄鐵，抗張力強，不易變形

- High rigidity type.
- Holding work-piece firmly in single and multiple vises setup.
- Rigid and high tensile casting of ductile iron.

規格 Spec.	A	B	C	D	E	F	G	I	Jaw Opening(Max.)				重量 (KGS) Weight
									J	J_1	J_2	J_3	
LM-VE-100B	101	340	430	85	48	80	125	16	125	190	230	320	26.0
LM-VE-130B	131	405	495	95	55	85	150	18	180	240	290	380	39.0
LM-VE-160B	161	495	585	105	58	100	165		240	320	360	470	57.0
LM-VE-200B	201	570	666	110	63	108	190		280	360	420	540	86.0

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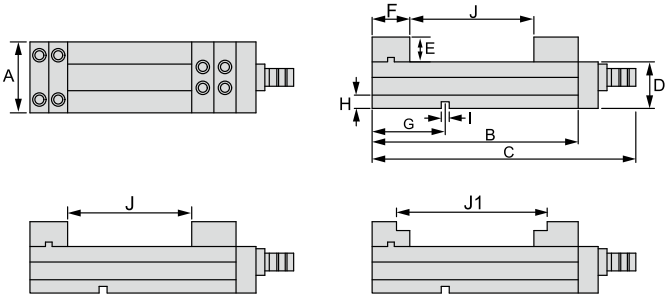
LM-VE-_C 角固式精密機械虎鉗
LM-VE-_C MECHANICAL-TYPE PRECISION VISE



特點 Feature

- 內藏防止上浮機制，夾持時往下方的力亦作動，因此工件及可動體的上浮極小，又本體及固定顎為一體構造，因此可防止鉗體的傾倒

- This unit had prevent lifting structure, when clamping, downward power also gearing, so the workpiece and movable parts lift very small, the body and soild jaw is a combination structure, it does not tilt.

規格 Spec.	A	B	C	D	E	F	G	H	I	J	J_1	夾持力 Power	重量 (KGS) Weight
LM-VE-100C	100	310	400	95	45	70	110	23	18	150	225	-	28.0
LM-VE-130C	130	410	500	100	50	80	135	23	18	250	330	-	46.0
LM-VE-160C	160	490	580	110	55	85	150	23	18	300	385	-	60.0
LM-VE-200C	200	565	655	120	60	100	220	23	18	350	450	-	100.0

- 較同等級虎鉗鉗口為深，可確實夾持較高之工件
-The jaw more deeper than those of same grade vise.Can clamping higher work piece correctly.

- 全自動伸縮防塵設計，可防止切削屑所引起的動作不良
-Chip cover adopted, preventing chips falling into causing bad motion.

- 較同等級虎鉗有近兩倍的開口，可輕易夾持較長工件
-Double opening than those of same grade vise. Can easy clamp longer work piece.

標準附件：
1. 把手壹組
2. 導正鍵 2 個
   M6x10L 螺絲 2 支
3. 虎鉗防屑裝置
4. 虎鉗固定塊 (4 只)

特別附件 (另購):
1. 特別虎口
2. 大開口鉗口壹組 (J5)

Standard Accessories:
1.Handle-1 set
2.Guide key-2pcs
  Screw-M6x10lx2pcs
3.Chip cover
4.Vise positioner

Optional Accessories:
(Purchase separately)
1.Special application jaw plates.
2.Opening jaw plates

• 長度單位 Unit of Length (mm)

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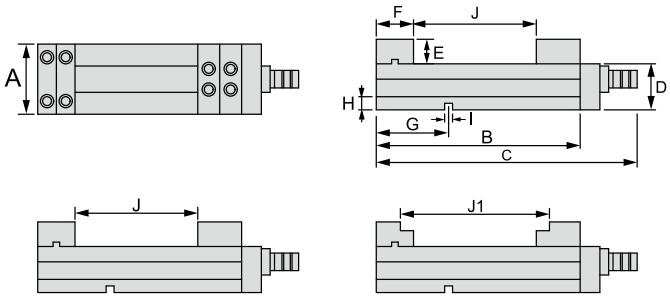
LM-VE-_S 倍力定壓式虎鉗
LM-VE-_S SUPER OPEN TYPE VISE



特點 Feature

- 內藏防止上浮機制，夾持時往下方的力亦作動，因此工件及可動體的上浮極小，又本體及固定顎為一體構造，因此可防止鉗體的傾倒

- This unit had prevent lifting structure, when clamping, downward power also gearing, so the workpiece and movable parts lift very small, the body and soild jaw is a combination structure, it does not tilt.

規格 Spec.	A	B	C	D	E	F	G	H	I	J	J_1	夾持力 Power	重量 (KGS) Weight
LM-VE-100S	100	310	435	95	45	70	110	23	18	140	200	4000kgf	30.0
LM-VE-130S	130	410	535	100	50	80	135	23	18	230	315	4000kgf	48.0
LM-VE-160S	160	490	615	110	55	85	150	23	18	300	385	5000kgf	62.0
LM-VE-200S	200	565	690	120	60	100	220	23	18	350	450	5000kgf	105.0

- 全自動伸縮防塵設計，可防止切削屑所引起的動作不良
-Chip coveradopted, preventing chips falling into causing bad motion.

- 較同等級虎鉗有近兩倍的開口，可輕易夾持較長工件
-Double opening than those of same grade vise.Can easy clamp longerwork piece.

- 新開發專利無油倍力定壓式機械增壓系統可輕易設定所需壓力(如表)夾持力永不退壓
-New development patened,oil-freepowerful mechanical boost system. Which gives greater clamping and never collapsing pressrue.

1	800kgf
2	2000kgf
3	3000kgf
4	4000kgf
5	5000kgf

標準附件：
1. 把手壹組
2. 導正鍵 2 個
   M6x10L 螺絲 2 支
3. 虎鉗防屑裝置
4. 虎鉗固定塊 (4 只)

特別附件 (另購):
1. 特別虎口
2. 大開口鉗口壹組 (J5)

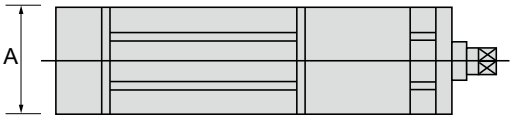
Standard Accessories:
1.Handle-1 set
2.Guide key-2pcs
 Screw-M6x10lx2pcs
3.Chip cover
4.Vise positioner

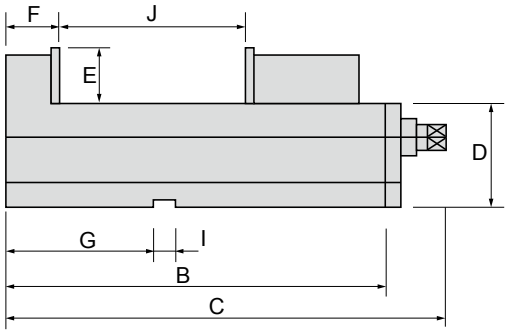
Optional Accessories:
(Purchase separately)
1.Special application jaw plates.
2.Opening jaw plates

• 長度單位 Unit of Length (mm)

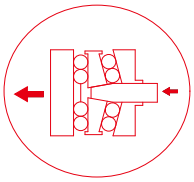
AID

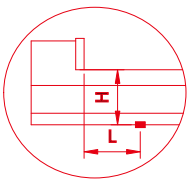
LM-VE-_P 倍力式虎鉗
LM-VE-_P MECHANICAL POWER VISE

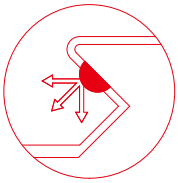


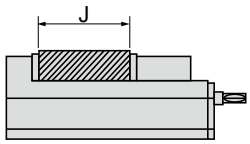


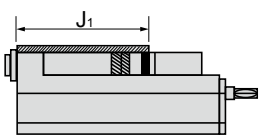
範例 Example

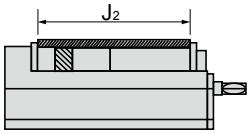


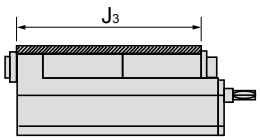












特點 Feature

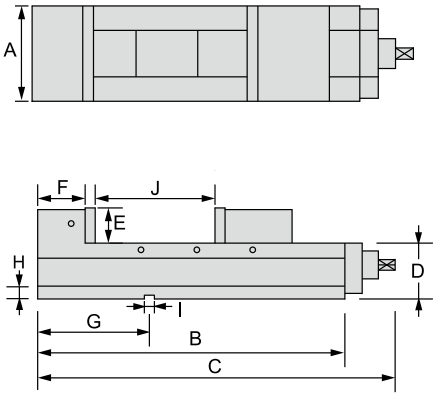
- 倍力式增壓機構
- 總長度較短、大開口、轉動扳手較省力

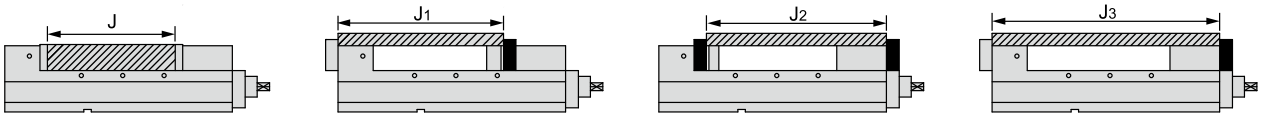
-Mechanical power structure.
-The total length is short, the big aperture, rotate the spanner to reduce effort.

規格 Spec.	A	B	C	D	E	F	G	I	J	J_1	J_2	J_3	夾持力 Power	重量 (KGS) Weight
LM-VE-100P	101	400	490	85	48	80	125	16	150	200	240	330	3000kgf	27.0
LM-VE-130P	131	465	555	95	55	85	150	18	230	250	300	390	3500kgf	40.0
LM-VE-160P	161	555	645	105	58	100	165	18	300	330	370	480	4000kgf	60.0
LM-VE-200P	201	630	720	110	63	108	190	18	340	370	430	550	4500kgf	81.0

• 長度單位 Unit of Length (mm)

CHW-_P 精密倍力式虎鉗
CHW-_P POWERFUL-TYPE PRECISION VISE





特點 Feature

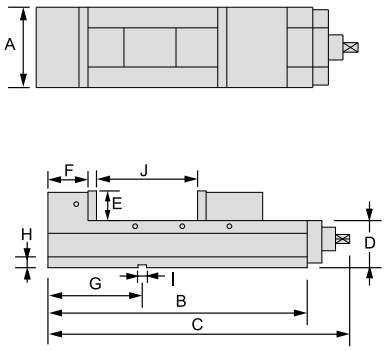
- 附防止所夾持工件上浮的角固裝置
- 倍力式增壓機構

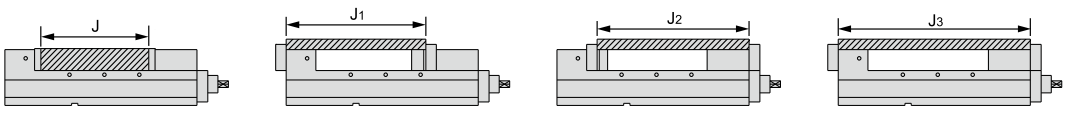
- The unit had prevent lifting structure.
- Mechanical power structure.

規格 Spec.	A	B	C	D	E	F	G	H	I	J	J_1	J_2	J_3	夾持力 Power	重量 (KGS) Weight
CHW-100P	100	400	530	85	48	80	110	23	18	200	230	260	340	4000kgf	35.0
CHW-130P	130	450	580	95	53	85	160	23	18	240	285	320	405	4500kgf	48.0
CHW-160P	160	550	680	100	63	103	200	23	18	300	380	400	500	5000kgf	66.0
CHW-200P	200	600	730	110	63	108	220	23	18	340	438	470	578	5500kgf	104.0

CHW-_PL 精密倍力式虎鉗（超長型）
CHW-_PL POWERFUL-TYPE PRECISION VISE(LENGTHEN)

LEMMA





特點 Feature

- 最大開口 750mm

- Max. opening capacity 750mm.

規格 Spec.	A	B	C	D	E	F	G	H	I	J	J_1	J_2	J_3	夾持力 Power	重量 (KGS) Weight
CHW-160PL	160	1000	1130	105	63	103	100	23	18	750	850	890	1000	4400kgf	108.0
CHW-200PL	200	1100	1230	110	63	108	220	23	18	840	940	990	1100	5500kgf	145.0

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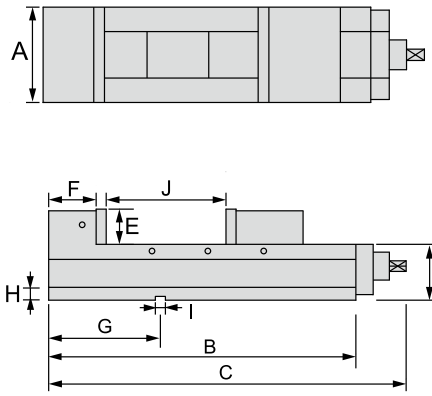
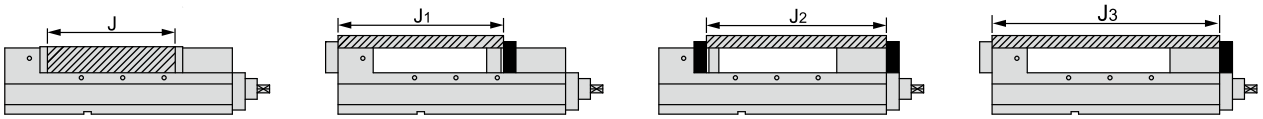
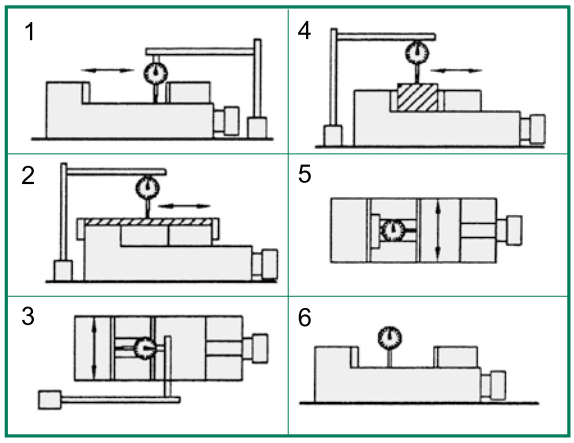
CHW-_V 角固式油壓精密虎鉗
CHW-_V HYDRAULIC&ANGLE LOCK VISE







※ 精度測定方法 Accuracy Testing Standard

NO	檢查事項 Item	JIS 規格 1 級 JIS Grade 1	驗證許可 Guaranteed
1	虎鉗底部與滑動面之平行度 Sliding surface of vise parallel to bottom of vise body.	0.020 100mm	0.010 100mm
2	虎鉗大開口與工件之平行度 Max opening test block parallel to bottom of vise body.	0.050 100mm	0.030 100mm
3	虎鉗底部鍵槽與虎口板之直角度測定 Keyways on bottom of vise square to clamping surface of jaw plate.	0.020 100mm	0.015 100mm
4	工作夾緊後之平行度 Top of rectangular test block clamped tightly by jaw parallel to bottom of vise body.	0.030 100mm	0.020 100mm
5	兩虎口板相互平行度 The parallelism of both jaw plate.	0.020 100mm	0.020 100mm
6	虎鉗側立與工作台之直角度 Vise side stand square to the work bench.	0.020 100mm	0.010 100mm

特點 Feature

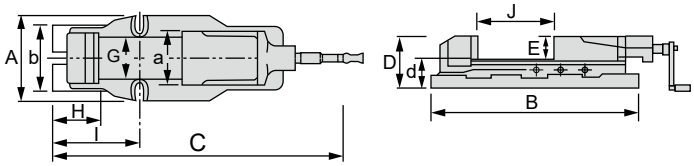
- 強而有力材質 | 虎鉗本台使用球狀石墨化鑄鐵 (FCD60-60kgs/mm^2) 抗張力強，耐磨性高，不易變形
- 虎鉗本台滑動面均經硬化熱處理 HRC45 以上，可保持長久耐磨性及精度

- Rigid material-vise body of ductile iron FCD60 JIS (equal to GGG60) with 60 kgs/mm2 or 80000 psi tensile strength.
- Slide surface of vise flame with harden treatment up to HRC45° and keeps up wear and maintain abrasion resistance for long.

規格 Spec.	A	B	C	D	E	F	G	I	J	J_1	J_2	J_3	夾持力 Power	重量 (KGS) Weight
CHW-100V	101	340	470	85	48	80	125	16	125	190	230	320	4000kgf	27.0
CHW-130V	131	405	535	95	55	85	150	18	180	240	290	380	5000kgf	40.0
CHW-160V	161	495	625	105	58	100	165	18	240	320	360	470	5500kgf	58.0
CHW-200V	201	570	700	110	63	108	190	18	280	360	420	540	6900kgf	87.0

• 長度單位 Unit of Length (mm)

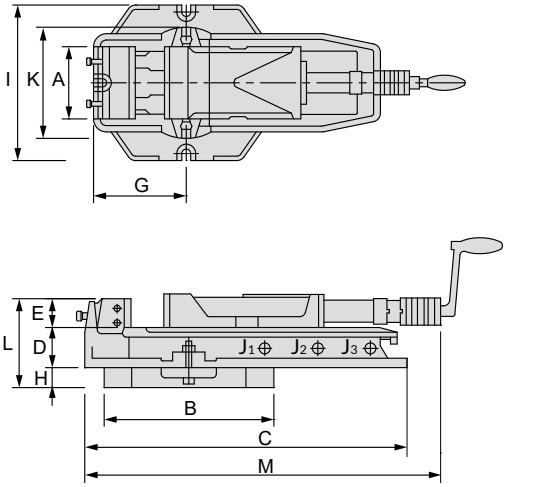
AH 內藏式油壓虎鉗
AH HYDRAULIC PRECISION VISE



規格 Spec.	A	B	C	D	E	G	H	I	J	a	b	d	開口行程 Camping Range			夾持力 Power	重量 (KGS) Weight
													X	Y	Z		
AH-4	170	440	525	95	36	80	95	147	170	105	135	58	0~57	55~114	112~170	2500kgf	21.0
AH-5	207	550	670	120	48	97	107	195	220	130	175	70.5	0~73	72~146	145~220	3500kgf	38.0
AH-6	225	620	970	135	53	116	117	210	300	150	182	82.5	0~100	98~200	198~300	4500kgf	53.0
AH-8	280	680	900	162	62	160	150	260	300	200	260	100	0~100	99~200	198~300	8000kgf	95.0

LM-VE-_H 外藏式油壓虎鉗
LM-VE-_H HYDRAULIC & ANGLE LOCK VISE

LEMMA



特點 Feature

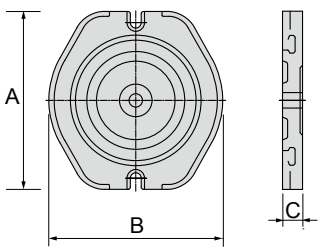
- 本體材質為球墨鑄鐵
- 角固式半圓球可產生角固下鎖之力，可消除虎口上浮和工件傾斜
- 虎鉗本台滑動面均經硬化熱處理 HRC 45°以上，可保持長久耐磨性及精度
- 油壓的最大夾持力為 4000kg

-The body is made of ductile iron.
-Down thrust "semi-sphere segment" mechanism-eliminates lift and work tilt.
-Vise bed flame hardened to HRC 45° and keeps up wear and maintain abrasion resistance for long.
-Max. hydraulic clamping force 4000kg.

規格 Spec.	A	B	C	D	E	G	H	I	K	L	M	行程開口 Stroke Opening			重量 (KGS) Weight
												J_1	J_2	J_3	
LM-VE-125H	130	266	505	72	55	180	32	280	190	160	570-795	0-55	55-130	130-220	37.5
LM-VE-160H	160	320	605	82	58	195	35	334	240	192	625-935	0-58	58-160	160-310	57.4
LM-VE-200H	200	420	700	100	63	265	50	420	280	240	725-1035	0-63	63-200	200-310	94.5

規格 Spec.	A	B	C	重量 (KGS) Weight
LM-VE-125H-B	280	266	32	12.0
LM-VE-160H-B	330	310	35	16.0
LM-VE-200H-B	375	355	40	16.0

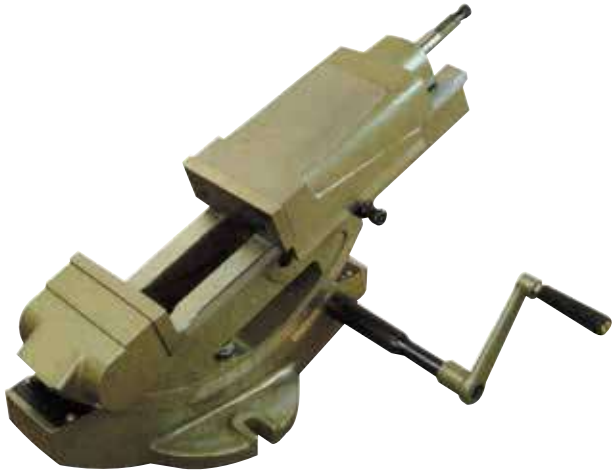
※ 底盤選配 Optional chassis.

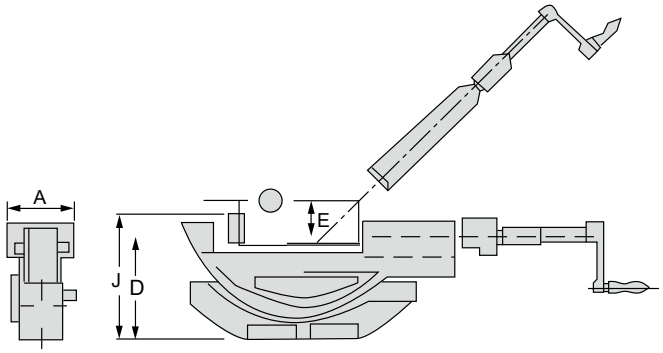


• 長度單位 Unit of Length (mm)

AID

JLB 傾斜式油壓內藏虎鉗
JLB UNIVERSAL HYDRAULIC TILTING VISE

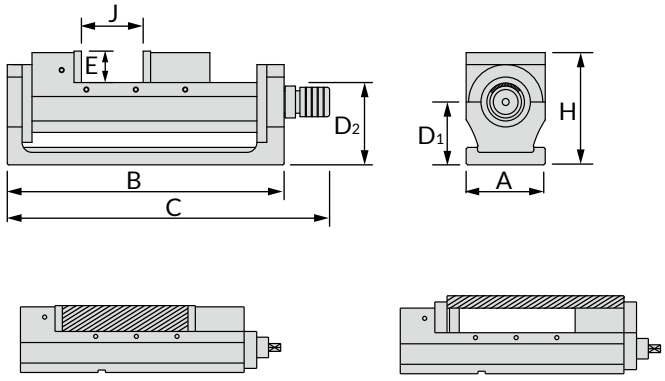




規格 Spec.	A	D	E	J	夾持力 Power	重量 (KGS) Weight
JLB-40	100	177	36	0-170	2540	23.0
JLB-60	154	237	53	0-300	4400	60.0

LM-VE-_U 傾斜式虎鉗
LM-VE-_U TILTING VISE

LEMMA



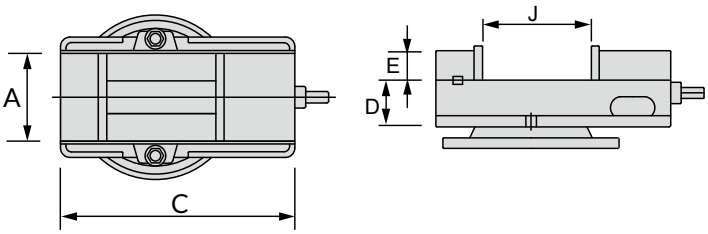
規格 Spec.	A	B	C	D_1	D_2	E	H	J	調整角度 Adjustable Angle	夾持力 Power	重量 (KGS) Weight
LM-VE-160U	160	550	645	126	165	63	225	200	0°~50°	5500kgf	80.0

範例 Example

• 長度單位 Unit of Length (mm)

AID

角固式虎鉗
FIXED ANGLE VISE

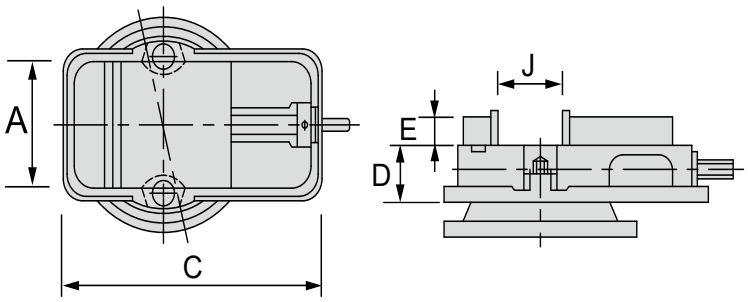


規格 Spec.	A	C	D	E	J	重量 (KGS) Weight
AV-4	100	320	65	36	100	20.0
AV-6	150	430	72	46	140	41.0
AV-8	200	600	85	62	190	73.0
AV-12	310	-	-	125	320	125.0

※AV-12 無底盤 AV-12 no chassis.

K 型銑床虎鉗
K-TYPE MILLING VISE

LEMMA

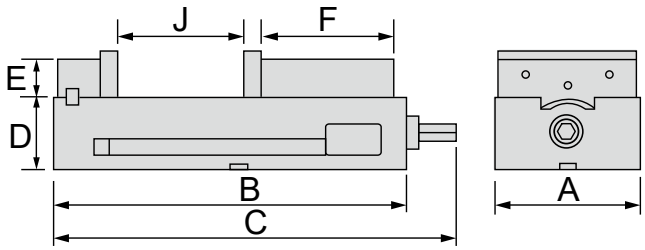


規格 Spec.	A	C	D	E	J	重量 (KGS) Weight
KV-4	100	295	55	30	65	9.00
KV-6	150	460	65	40	114	28.0
KV-8	200	620	82	58	150	53.0

• 長度單位 Unit of Length (mm)

AID

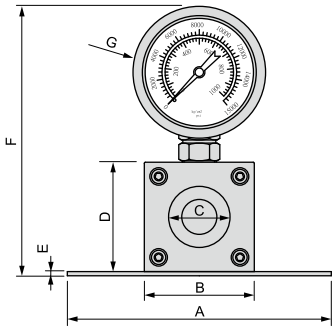
直角式角固虎鉗
FIXED ANGLE VISE



規格 Spec.	A	B	C	D	E	F	J	重量 (KGS) Weight
VAV-6	150	368	400	75	40	140	148	29.0

LM-PM 虎鉗測壓力計
LM-PM VISE PRESSURE GAUGE

範例 Example



特點 Feature

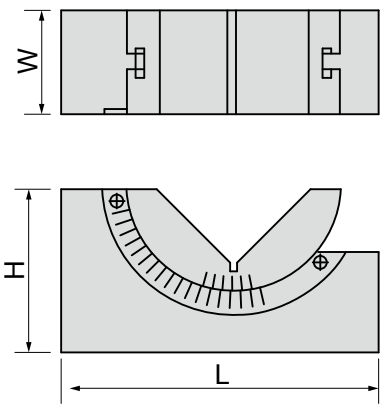
- 測量虎鉗壓力值，是否合乎標準值

-Accurately measure the pressure of the vise clamping force. .

規格 Spec.	A	B	C	D	E	F	G	重量 (KGS) Weight
LM-PM-1000	120	50	28	50	2	140	70	1.16

可調式角度規
ADJUSTABLE ANGLE PLATE

範例 Example

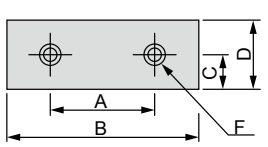


規格 Spec.	L	W	H	重量 (KGS) Weight
AP-1	102	46	47	1.50
AP-2	102	30	47	1.00
AP-3	75	25	32	0.50

• 長度單位 Unit of Length (mm)

AID

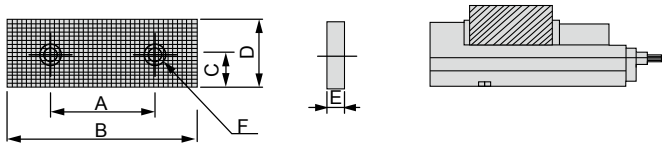
虎口板 (CHW-_B、CHW-_P、LM-VE-D、LM-VE-DCS、LM-VE-U適用)
JAW PLATE (APPLICABLE CHW-_B、CHW-_P、LM-VE-D、 LM-VE-DCS、LM-VE-U)



※ 標配 Standard accessories

規格 Spec.	A	B	C	D	E	F	重量 (KGS) Weight
J1 - 100	70	98	25	48	15	M8	1.06
J1 - 130	100	128	25	53	15	M8	1.54
J1 - 160	100	158	25	63	18	M10	2.7
J1 - 200	120	198	28	63	18	M12	3.38

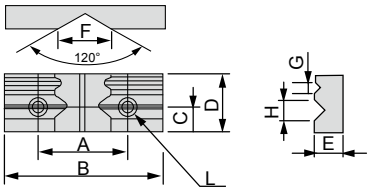
數量 : 一組兩塊 Qty: two piece per set



※ 選配 Optional accessories

規格 Spec.	A	B	C	D	E	F	重量 (KGS) Weight
J2 - 100	70	98	25	48	15	M8	1.06
J2 - 130	100	128	25	53	15	M8	1.5
J2 - 160	100	158	25	63	18	M10	2.66
J2 - 200	120	198	28	63	18	M12	3.00

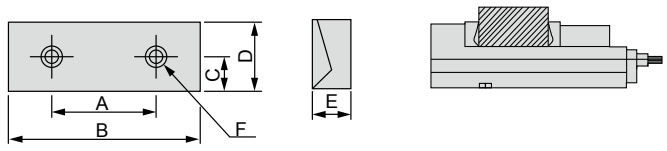
數量 : 一組兩塊 Qty: two piece per set



※ 選配 Optional accessories

規格 Spec.	A	B	C	D	E	F	G	H	L	重量 (KGS) Weight
J3-100	70	98	25	48	30	25	-	25	M8	0.96
J3-130	100	128	25	53	30	25	12	25	M8	1.38
J3-160	100	158	25	63	30	25	12	27	M10	1.98
J3-200	120	198	28	63	34	30	12	30	M12	2.78

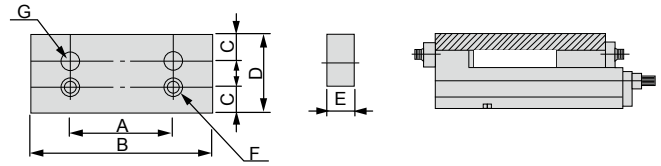
數量 : 一組一塊 Qty: one piece per set



※ 選配 Optional accessories

規格 Spec.	A	B	C	D	E	F	重量 (KGS) Weight
J4-100	70	98	25	48	30	M8	-
J4-130	100	128	25	53	32	M8	-
J4-160	100	158	25	63	32	M10	2.4
J4-200	120	198	28	63	40	M12	-

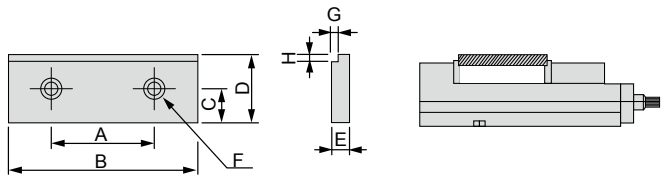
數量 : 一組兩塊 Qty: two piece per set



※ 選配 Optional accessories

規格 Spec.	A	B	C	D	E	F	G	重量 (KGS) Weight
J5-100	70	98	25	58	24	M8	M12	1.9
J5-130	100	128	25	63	24	M8	M12	3.28
J5-160	100	158	25	73	24	M10	M14	4.4
J5-200	120	198	28	77	24	M12	M16	5.82

數量 : 一組兩塊 Qty: two piece per set



※ 選配 Optional accessories

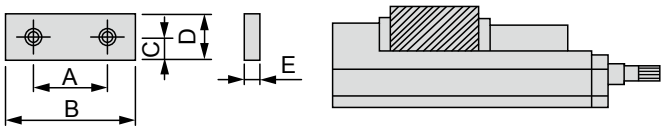
規格 Spec.	A	B	C	D	E	F	G	H	重量 (KGS) Weight
J6-100	70	98	25	48	15	M8	5	5	1.02
J6-130	100	128	25	53	15	M8	5	5	1.48
J6-160	100	158	25	63	18	M10	5	5	2.64
J6-200	120	198	28	63	18	M12	5	5	3.28

數量 : 一組兩塊 Qty: two piece per set

• 長度單位 Unit of Length (mm)

AID

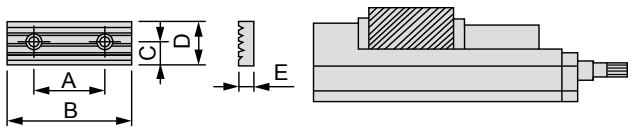
虎口板 (LM-VE-_B、LM-VE-_P、CHW-_V 適用)
JAW PLATE (APPLICABLE LM-VE_B、LM-VE-_P、CHW-_V)



※ 標配 Standard accessories

規格 Spec.	A	B	C	D	E	重量 (KGS) Weight
HJ-100	60	100	22	48	15	1.04
HJ-130	90	130	25	55	15	1.58
HJ-160	90	160	25	58	15	1.50
HJ-200	120	200	28	63	18	-

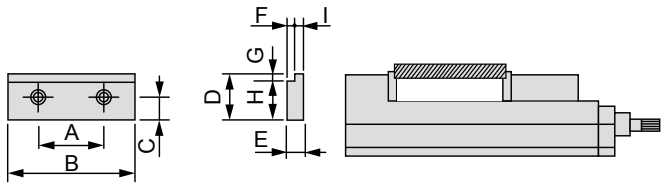
數量 : 一組兩塊 Qty: two piece per set



※ 選配 Optional accessories

規格 Spec.	A	B	C	D	E	重量 (KGS) Weight
LJ-100	60	100	22	48	15	-
LJ-130	90	130	25	55	15	-
LJ-160	90	160	25	58	15	-
LJ-200	120	200	28	63	18	-

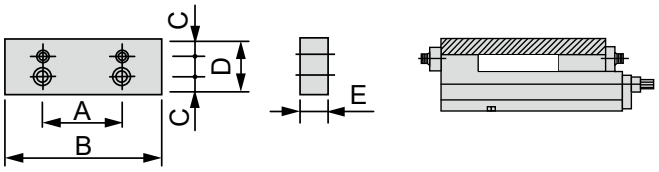
數量 : 一組兩塊 Qty: two piece per set



※ 選配 Optional accessories

規格 Spec.	A	B	C	D	E	F	G	H	I
SJ-100	60	100	22	48	15	5	5	43	10
SJ-130	90	130	25	55	15	5	5	50	10
SJ-160	90	160	25	58	15	5	5	53	10
SJ-200	120	200	28	63	18	5	5	58	13

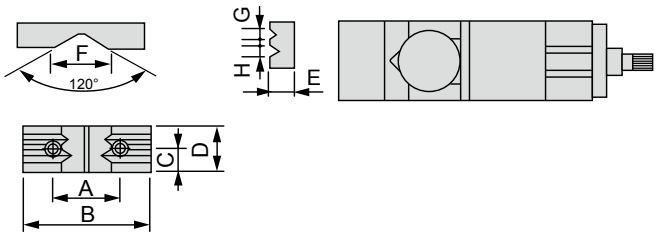
數量 : 一組兩塊 Qty: two piece per set



※ 選配 Optional accessories

規格 Spec.	A	B	C	D	E	重量 (KGS) Weight
TJ-100	60	100	22	64	21	-
TJ-130	90	130	25	69	24	3.34
TJ-160	90	160	25	74	24	-
TJ-200	120	200	28	88	31	-

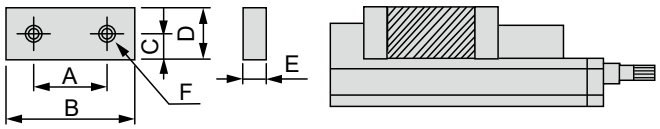
數量 : 一組兩塊 Qty: two piece per set



※ 選配 Optional accessories

規格 Spec.	A	B	C	D	E	F	G	H
VJ-100	60	100	22	48	30	120°	13.9	20.8
VJ-130	90	130	25	55	32	120°	13.9	31.2
VJ-160	90	160	25	58	32	120°	15.6	29.4
VJ-200	120	200	28	63	40	120°	12.1	24.6

數量 : 一組一塊 Qty: one piece per set



※ 選配 Optional accessories

規格 Spec.	A	B	C	D	E	F
FJ-1002	60	100	22	63	21	M10
FJ-1003	60	100	22	73	23	M10
FJ-1004	60	100	22	48	48	M10
FJ-1005	60	100	22	63	48	M10
FJ-1301	90	130	25	55	15	M10
FJ-1302	90	130	25	73	23	M10
FJ-1303	90	130	25	103	30	M10
FJ-1304	90	130	25	63	48	M10
FJ-1305	90	130	25	73	48	M10

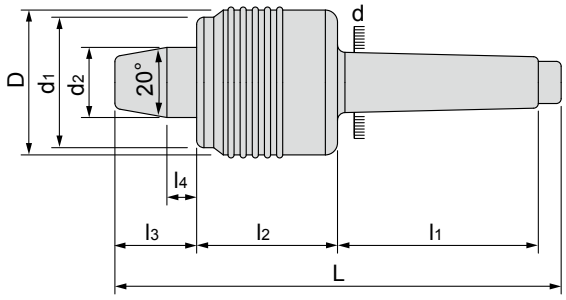
規格 Spec.	A	B	C	D	E	F
FJ-1601	90	160	25	58	15	M10
FJ-1602	90	160	25	73	23	M10
FJ-1603	90	160	25	103	30	M10
FJ-1604	90	160	25	63	48	M10
FJ-1605	90	160	25	73	48	M10
FJ-2001	90	200	28	63	18	M12
FJ-2002	90	200	28	103	30	M12
FJ-2003	90	200	28	123	37	M12
FJ-2004	90	200	28	63	63	M12
FJ-2005	120	200	28	102	63	M12

數量 : 一組兩塊 Qty: two piece per set

• 長度單位 Unit of Length (mm)

AID

SC-68 標準型注油式替換頂尖
SC-68 STANDARD INTERCHANGEABLE LIVE CENTER



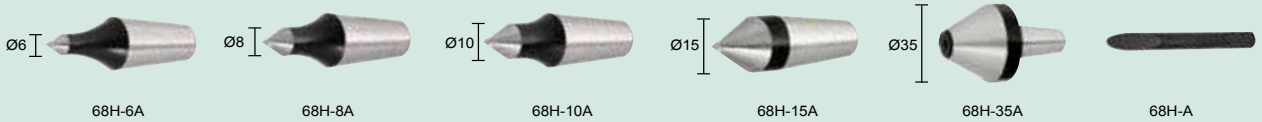
特點 Feature

- 有防水功能，本體易散熱
- 可定期注油增加使用壽命
- 頂尖子採用 SKS2(刀具鋼)
- 頂尖心軸採用 S45C
- 靜態精度 :8μ

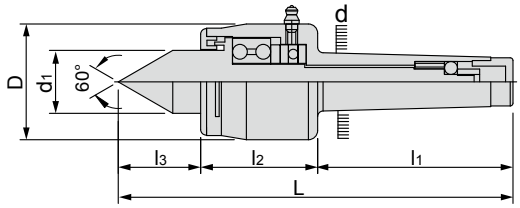
- Characteristic of waterproof and heat dissipation.
- Regular oiling can increase the service life.
- Center adoption is made of SKS2 (tool steel)
- Center mandrel is made of S45C
- Static accuracy: 8μ.

規格 Spec.	柄徑	內附零件 Included Accessories	rpm	L	l_1	l_2	l_3	l_4	D	d	d_1	d_2	重量 (KGS) Weight
SC-68H-MT4	MT4	G 組	4500	199	96	58	33	13	64	31.267	58	31.6	2.24
SC-68H-MT5	MT5	G 組	4500	226	120	58	33	13	64	44.399	58	31.6	3.10

零件圖 G 組 (頂尖中型)G set in drawing Medium for rotary center



MRC-MT 車床頂尖 (標準型)
STANDARD LIVE CENTER



特點 Feature

- 有防水功能，本體易散熱
- 可定期注油增加使用壽命
- 頂尖心軸及頂尖子採用 SKS2(刀具鋼)
- 靜態精度 :<5μ

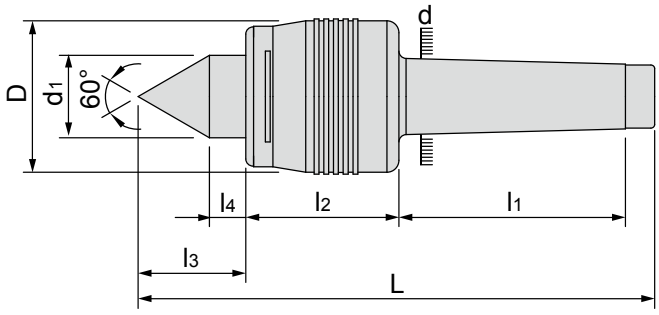
- Characteristic of waterproof and heat dissipation.
- Regular oiling can increase the service life.
- Center mandrel and center adoption are made of SKS2 (tool steel)
- Static accuracy: <5μ

規格 Spec.	柄徑	rpm	L	l_1	l_2	l_3	D	d	d_1	重量 (KGS) Weight
MRC-MT2	MT2	2800	171	69	52.5	43	49	17.78	35	1.60
MRC-MT3	MT3	2000	192.5	97	52.5	43	49	23.825	35	1.90
MRC-MT4	MT4	1500	213	117.5	52.5	43	49	31.267	35	2.30
MRC-MT5	MT5	1000	251.5	147	52.5	52	59	44.399	45	4.60
MRC-MT6	MT6	800	-	-	-	-	-	63.348	-	-

• 長度單位 Unit of Length (mm)

AID

SC-69 標準型注油式頂尖
SC-69 STANDARD LIVE CENTER



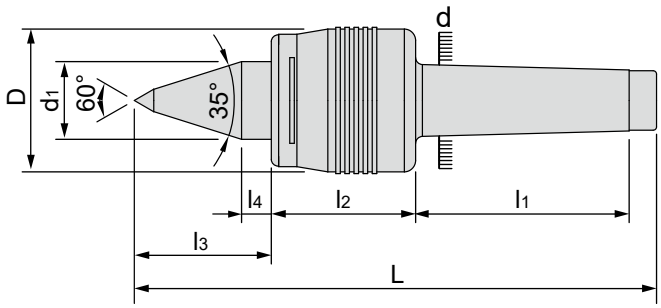
特點 Feature

- 有防水功能，本體易散熱
- 可定期注油增加使用壽命
- 頂尖心軸採用 SUJ2
- 靜態精度 :5μ

- Characteristic of waterproof and heat dissipation.
- Regular oiling can increase the service life
- Center mandrel is made of SUJ2.
- Static accuracy: 5μ

規格 Spec.	柄徑	rpm	L	l_1	l_2	l_3	l_4	D	d	d_1	重量 (KGS) Weight
SC-69M-MT4	MT4	4500	210	96	58	42	14.5	64	31.267	31.6	1.86
SC-69M-MT5	MT5	4500	237	120	58	42	14.5	64	44.399	31.6	2.46

SC-70 標準型細物用注油式頂尖
SC-70 STANDARD EXTENDED LIVE CENTER



特點 Feature

- 有防水功能，本體易散熱
- 可定期注油增加使用壽命
- 頂尖心軸採用 SUJ2
- 靜態精度 :5μ

- Characteristic of waterproof and heat dissipation.
- Regular oiling can increase the service life.
- Center mandrel is made of SUJ2.
- Static accuracy: 5μ.

規格 Spec.	柄徑	rpm	L	l_1	l_2	l_3	l_4	D	d	d_1	重量 (KGS) Weight
SC-70L-MT4	MT4	4500	224	108	58	58	11.5	64	31.267	31.5	2.24
SC-70L-MT5	MT5	4500	251	135	58	58	11.5	64	44.399	31.5	2.90

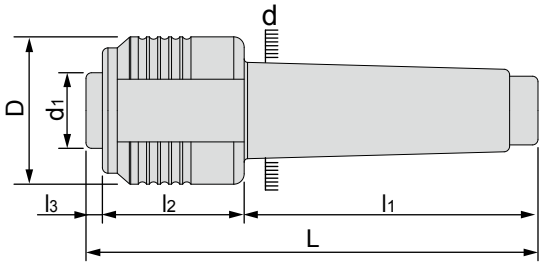
• 長度單位 Unit of Length (mm)

AID

SC-65 重切削注油式替換頂尖
SC-65 INTERCHANGEABLE LIVE CENTER FOR HEAVY TURNING

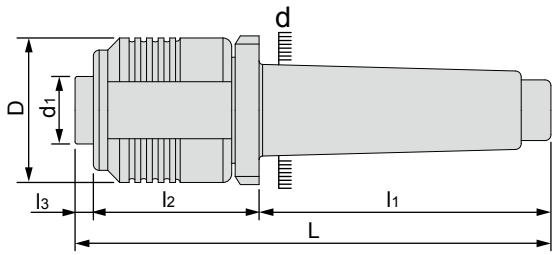
SC-65H

Fig.1



SC-65HA

Fig.2



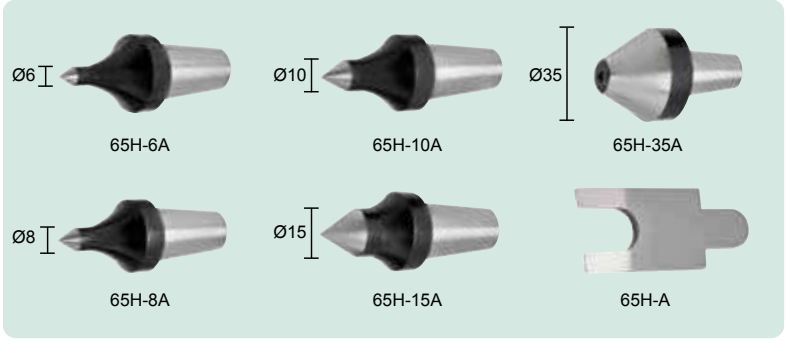
特點 Feature

- 增加強度使用大型頂尖子
- 有防水功能，本體易散熱
- 可定期注油增加使用壽命
- 頂尖子採用 SKS2(刀具鋼)
- 頂尖心軸採用 S45C
- 靜態精度 :8μ
- SC-65HA 型，用螺帽推出本體輕巧方便，不致產生卡死

-Use of large center adoption for increasing strength.
-Function of waterproof and heat dissipation.
-Regular oiling can increase the service life.
-Center adoption is made of SUJ2 (tool steel).
-Center mandrel is made of S45C.
-Static accuracy: 8μ.
-SC-65HA type launch with a nut body lightweight and convenient, preventing jammed shut.

規格 Spec.	柄徑	內附零件 Included Accessories	rpm	L	l_1	l_2	l_3	D	d	d_1	徑向力 (KG)	軸向力 (KG)	Fig.	重量 (KGS) Weight
SC-65H-MT4	MT4	H組	4000	178	108	56	14	68	31.267	31.6	1430	2700	1	3.16
SC-65H-MT5	MT5	H組	4000	205	135	56	14	68	44.399	31.6	1430	2700	1	3.72
SC-65HA-MT4	MT4	H組	4000	190	104	72	14	68	31.267	31.6	1430	2700	2	3.62
SC-65HA-MT5	MT5	H組	4000	217	131	72	14	68	44.399	31.6	1430	2700	2	4.22

零件圖 H 組 (頂尖加大型)H set in drawing Enlarged for rotary center



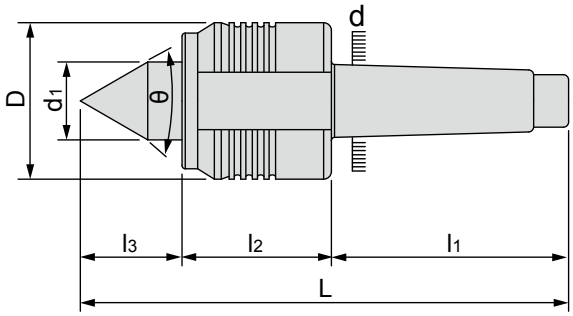
• 長度單位 Unit of Length (mm)

AID

SC-62 注油式迴轉頂尖（中切削型）
SC-62 OIL INTERCHANGEABLE LIVE CENTER FOR MEDIUM TURNING

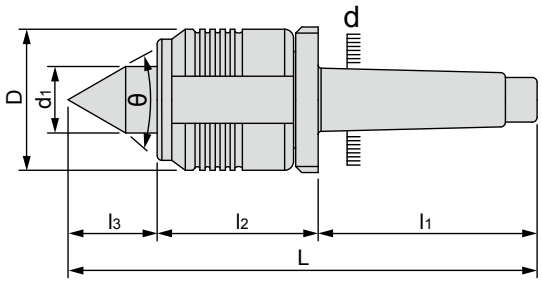
SC-62H

Fig.1



SC-62HA

Fig.2



特點 Feature

- 有防水功能，本體易散熱
- 可定期注油增加使用壽命
- 頂尖心軸採用 SUJ2
- 靜態精度 :5μ
- SC-62HA 型，用螺帽推出本體輕巧方便，不致產生卡死

- Function of waterproof and heat dissipation.
- Regular oiling can increase the service life.
- Center mandrel using SUJ2.
- Static accuracy: 5μ.
- SC-62HA type launch with a nut body lightweight and convenient, preventing jammed shut.

規格 Spec.	柄徑	rpm	L	l_1	l_2	l_3	D	d	d_1	θ	徑向力 (KG)	軸向力 (KG)	Fig.	重量 (KGS) Weight
SC-62H-MT4	MT4	4000	212	108	56	48	68	31.267	31.6	60°	1430	2700	1	2.20
SC-62H-MT5	MT5	4000	239	135	56	48	68	44.399	31.6	60°	1430	2700	1	2.84
SC-62HA-MT4	MT4	4000	224	104	72	48	68	31.267	31.6	60°	1430	2700	2	2.60
SC-62HA-MT5	MT5	4000	251	131	72	48	68	44.399	31.6	60°	1430	2700	2	3.66

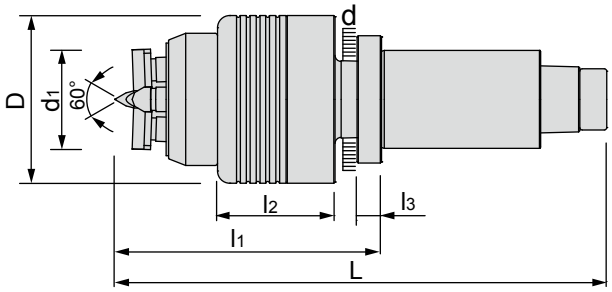
• 長度單位 Unit of Length (mm)

AID

SC-66 自動可調式插式頂尖
SC-66 AUTOMATIC ADJUSTABLE DEAD CENTER WITH INTERCHANGEABLE INSERT

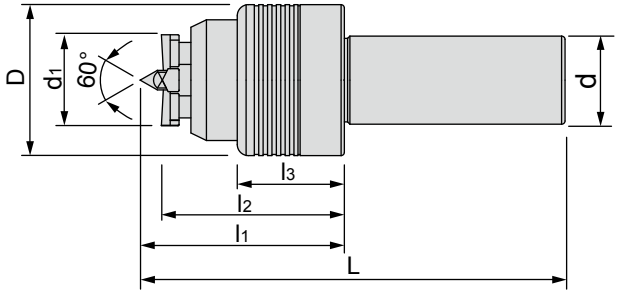
SC-66A

Fig.1



SC-66B

Fig.2



特點 Feature

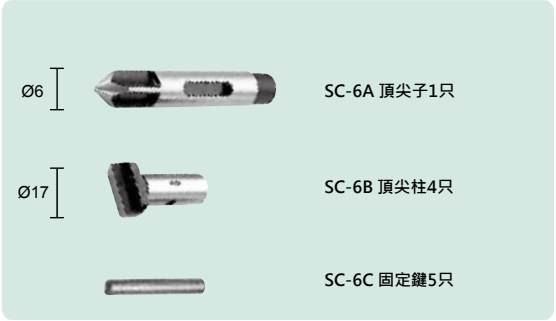
- 工作物不平時頂尖柱可自動調整穩固工作
- 頂尖子及頂尖柱可互換使用

-When workpiece is uneven, tip shaft can be adjusted automatically to stablize the working process.
- Center tips and Center columns are used interchangeably.

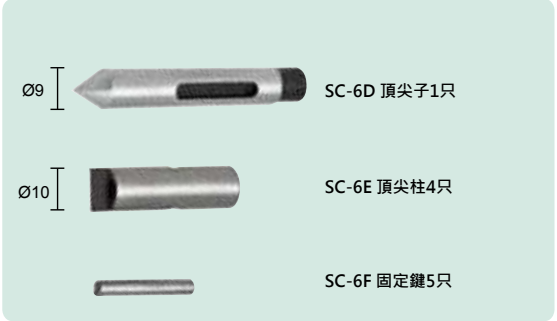
規格 Spec.	柄徑	使用範圍 Range	內附零件 Included Accessories	L	l_1	l_2	l_3	D	d	d_1	Fig.	重量 (KGS) Weight
SC-66A-MT4	MT4	A□Ø10~Ø60 B□Ø15~Ø35	□□□A□ □□□B□	203	109	48	10	68.5	31.267	40.5	1	3.29
SC-66B-C40	Ø40				92	82.7	48		40		2	2.94

零件規格 Spec.	重量 (KGS) Weight
SC-6A	0.02
SC-6B	0.02
SC-6C	0.09
SC-6D	0.03
SC-6E	0.08
SC-6F	0.07

零件圖 A 組 A set in drawing



零件圖 B 組 B set in drawing



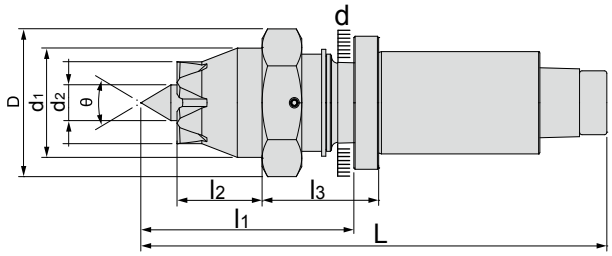
• 長度單位 Unit of Length (mm)

AID

SC-67 固定替換式插式頂尖
SC-67 FIXED DEAD CENTER WITH INTERCHANGEABLE INSERT

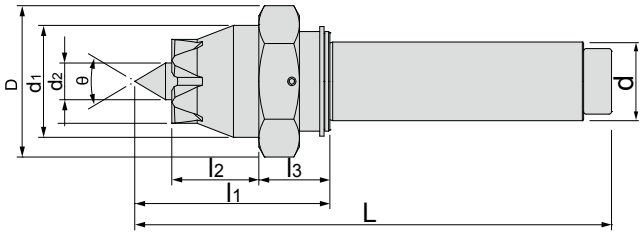
SC-67A

Fig.1



SC-67B

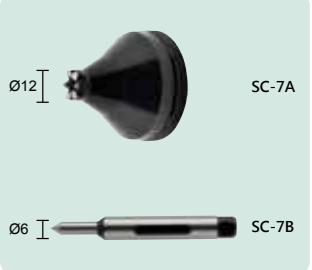
Fig.2



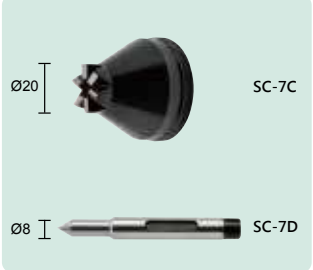
規格 Spec.	柄徑	使用範圍 Range	內附零件 Included Accessories	L	l_1	l_2	l_3	D	d	d_1	d_2	Fig.	重量 (KGS) Weight
SC-67A-MT4	MT4	C：Ø10~Ø17 D：Ø12~Ø25 E：Ø14~Ø30	C：E： D：F：	184.9	84.6	34.3	47	57	31.267	42.7	25	1	2.22
SC-67B-C30	Ø30	C：Ø10~Ø17 D：Ø12~Ø25 E：Ø14~Ø30	C：E： D：		73.9		28		53			2	1.86

零件規格 Spec.	重量 (KGS) Weight
SC-7A	0.18
SC-7B	0.04
SC-7C	0.21
SC-7D	0.42
SC-7E	0.21
SC-7F	0.22
C45xMT4	-

零件圖 C 組 C set in drawing



零件圖 D 組 D set in drawing



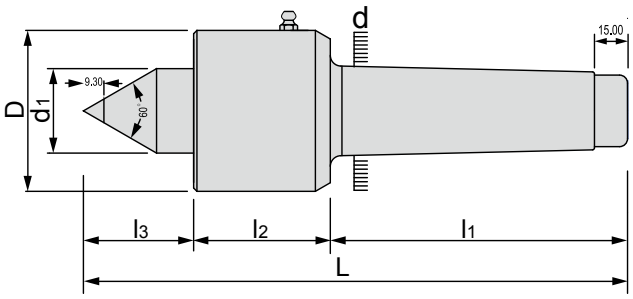
零件圖 E 組 E set in drawing

零件圖 F 組 Fset in drawing

• 長度單位 Unit of Length (mm)

AID

SC-100 強力重切削迴轉頂尖（鎢鋼頂尖）
SC-100 CARBIDE LIVE CENTER FOR HEAVY TURING

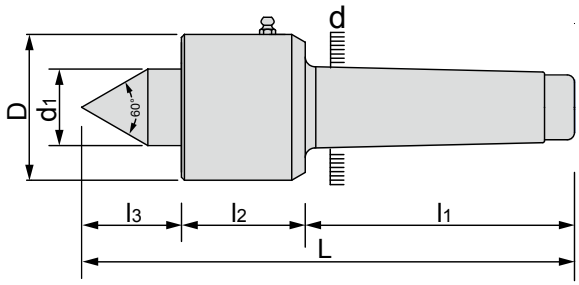


規格 Spec.	柄徑	L	l_1	l_2	l_3	D	d	d_1	重量 (KGS) Weight
SC-100-MT4C	MT4	218	108	68	42	63	31.267	34.5	2.98
SC-100-MT5C	MT5	255	135	69	51	73	44.399	44.2	4.02

SC-60 強力型重負荷迴轉頂尖
SC-60 LIVE CENTER FOR HEAVY TURNING

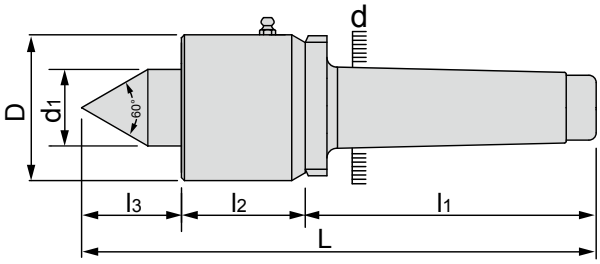
SC-60H

Fig.1



SC-60HA

Fig.2



特點 Feature

- 剛性強、穩定性佳，適用於長軸心重負荷車削加工
- 靜態精度：5μ

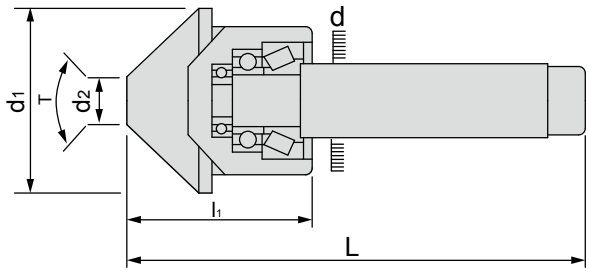
-The rigidity is strong, the stability is good, is suitable for the major axis grieving load lathe work.
-Static precision:5μ.

規格 Spec.	柄徑	rpm	L	l_1	l_2	l_3	D	d	d_1	徑向力 (KG)	軸向力 (KG)	Fig.	重量 (KGS) Weight
SC-60H-MT4	MT4	5000	205	108	58	44	78	31.267	34.3	1900	1600	1	2.98
SC-60H-MT5	MT5		244	135	64	50	83	44.399	44.2	3000	2200	1	4.02
SC-60HA-MT6	MT6	3000	342	190	75	67	108	63.348	60	5000	3500	2	9.96

• 長度單位 Unit of Length (mm)

AID

MT-BNC 傘型頂尖
MT-BNC BALL NOSE LIVE CENTER



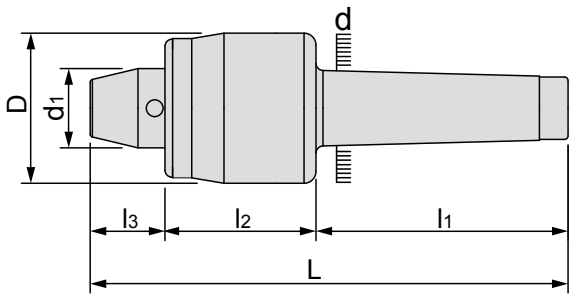
特點 Feature

-HRC52°
- 同心度 : 0.005mm
- 真圓度 : 0.005mm
- 材質 :S45C

- HRC52 °
- Concentricity: 0.005mm
- Roundness: 0.005mm
- Material: S45C

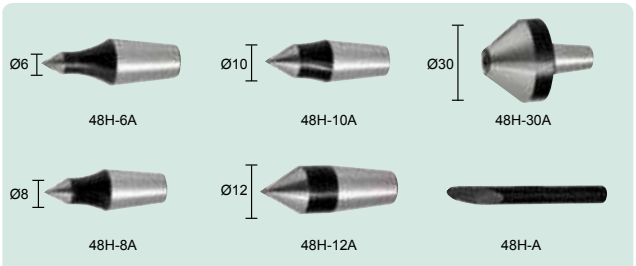
規格 Spec.	rpm	L	l_1	d	d_1	d_2	T	重量 (KGS) Weight
MT4-BNC3	2500	179	68	31.267	78	19	60°	2.15
MT4-BNC4	2000	181	70	31.267	106	32	70°	3.10
MT4-BNC5	1900	194	83	31.267	128	35	70°	4.00
MT4-BNC6	1900	204	93	31.267	156	50	70°	7.00
MT4-BNC8	1500	223	116	31.267	206	54	70°	14.5
MT5-BNC5	1900	227	83	44.399	128	35	70°	5.50
MT5-BNC6	1900	237	93	44.399	156	50	70°	7.80
MT5-BNC8	1500	257	113	44.399	206	54	75°	14.5
MT6-BNC8	1500	298	113	63.348	206	54	75°	19.0

SC-48 經濟型替換頂尖
SC-48 ECONOMICAL INTERCHANGEABLE CENTER



規格 Spec.	柄徑	rpm	L	l_1	l_2	l_3	D	d	d_1	重量 (KGS) Weight
SC-48H-MT4	MT4	1800	186.5	108	53	25.5	48.5	31.267	29.5	2.20

零件圖 I 組 I set in drawing

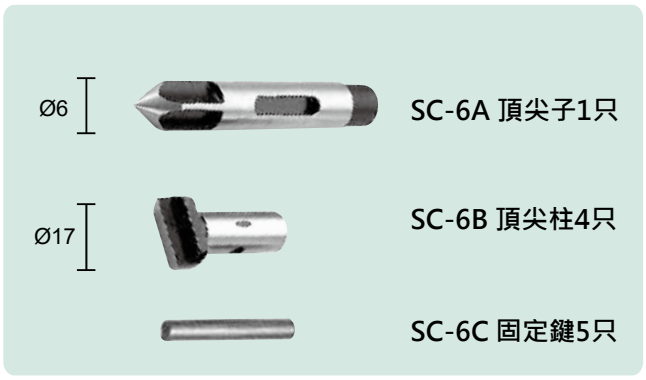


• 長度單位 Unit of Length (mm)

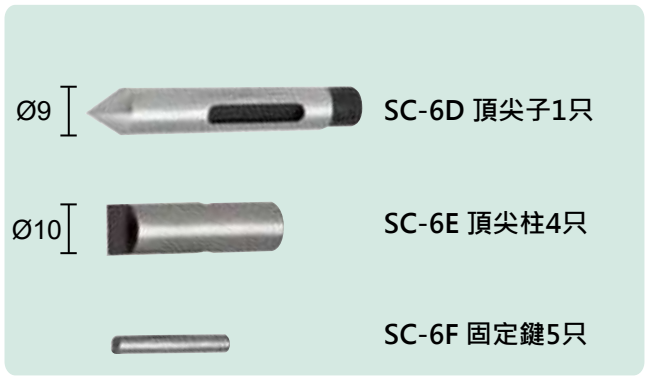
AID

頂尖配件表
CENTERS ACCESSORIES FORM

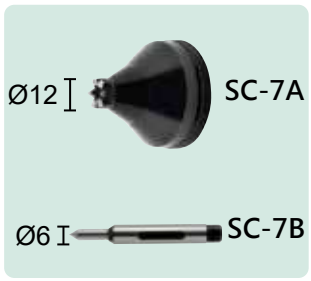
零件圖A組(適用:SC-66A)
A set in drawing(For use on SC-66A)



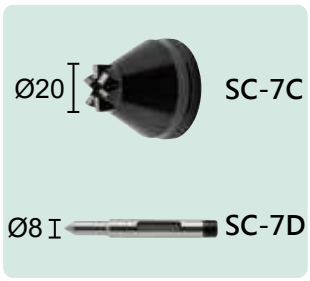
零件圖B組(適用:SC-66B)
B set in drawing(For use on SC-66B)



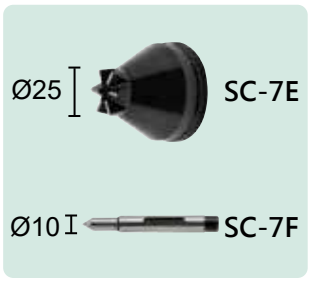
零件圖C組(適用:SC-67A/SC-67B)
C set in drawing(For use on SC-67A/67B)



零件圖D組(適用:SC-67A/SC-67B)
D set in drawing(For use on SC-67A/67B)

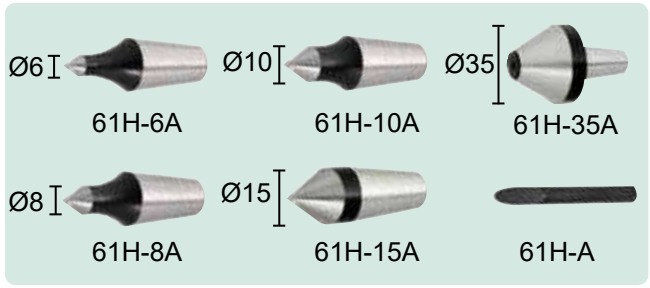


零件圖E組(適用:SC-67A/SC-67B)
E set in drawing(For use on SC-67A/67B)

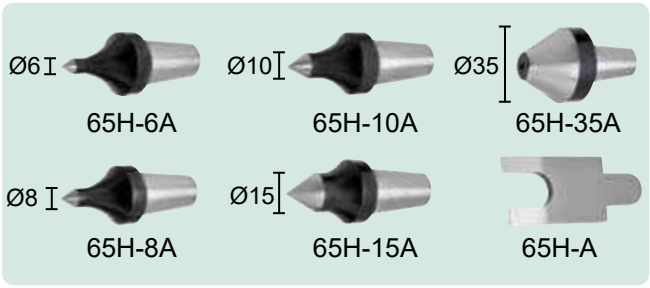


零件圖F組(適用:SC-67A/SC-67B)
F set in drawing(For use on SC-67A/67B)

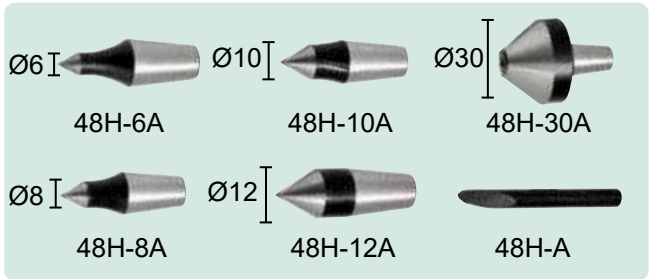
零件圖G組(頂尖中型)(適用:SC-61/SC-68)
G set in drawing - Medium(For use on SC-61 / SC-68)



零件圖H組(頂尖加大型)(適用:SC-65)
H set in drawing - Enlargement(For use on SC-65)



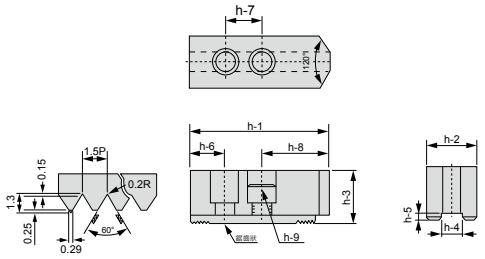
零件圖I組(頂尖小型)(適用:SC-48H)
I set in drawing - small(For use on SC-48H)



• 長度單位 Unit of Length (mm)

AID

HKS 油壓生爪
HKS POWER PRESSURE SOFT JAW



規格 Spec.	h-1	h-2	h-3	h-4	h-5	h-6	h-7	h-8	h-9	鋸齒狀節具 Serration Pitch	重量 (KGS) Weight
HKS-5	62	25	30	10	4	18	14	38	M8	1.5x60°	-
HKS-6	73	31	36	12	5		20	37	M10		-
HKS-8	95	35	38	14		22	25	46	M12		-
HKS-10	110	40	42	16		27	30	50	M12		-
HKS-12	129	50	50	18 / 21		30	30	60	M16		-
HKS-15	165	62	62	22	8	38	43	85	M20		-

5" 油壓生爪尺寸表 Spec. table

規格 Spec.	長 h-1	寬 h-2	高 h-3	重量 (KGS) Weight
HKS-5-62-25-30	62	25	30	0.82
HKS-5-62-25-50	62	25	50	-
HKS-5-62-25-70	62	25	70	1.92
HKS-5-62-25-80	62	25	80	-
HKS-5-62-25-100	62	25	100	-

6" 油壓生爪尺寸表 Spec. table

規格 Spec.	長 h-1	寬 h-2	高 h-3	重量 (KGS) Weight
HKS-6-73-31-36	73	31	36	1.51
HKS-6-73-31-36-60	73	31	36	
HKS-6-73-31-36-90	73	31	36	1.38
HKS-6-73-31-36-120	73	31	36	
HKS-6-73-31-50	73	31	50	-
HKS-6-73-31-60	73	31	60	-
HKS-6-73-31-70	73	31	70	2.93
HKS-6-73-31-70-60	73	31	70	2.48
HKS-6-73-31-80	73	31	80	3.35
HKS-6-73-31-90	73	31	90	-
HKS-6-73-31-100	73	31	100	4.19
HKS-6-73-31-110	73	31	110	-
HKS-6-73-31-120	73	31	120	-
HKS-6-73-31-130	73	31	130	-
HKS-6-73-31-150	73	31	150	-
HKS-6-73-50-31	73	50	31	-
HKS-6-73-50-36	73	50	36	-
HKS-6-73-50-50	73	50	50	-
HKS-6-73-50-60	73	50	60	-
HKS-6-73-50-70	73	50	70	-
HKS-6-73-60-31	73	60	31	-
HKS-6-73-60-36	73	60	36	-
HKS-6-73-60-50	73	60	50	-
HKS-6-73-60-60	73	60	60	-
HKS-6-73-70-36	73	70	36	-
HKS-6-73-70-70	73	70	70	-
HKS-6-73-80-36	73	80	36	-
HKS-6-95-35-37	95	35	37	2.46

8" 油壓生爪尺寸表 Spec. table

規格 Spec.	長 h-1	寬 h-2	高 h-3	重量 (KGS) Weight
HKS-8-95-35-37	95	35	37	2.37
HKS-8-95-35-37-60	95	35	37	-
HKS-8-95-35-37-90	95	35	37	-
HKS-8-95-35-37-120	95	35	37	-
HKS-8-95-35-50	95	35	50	3.17
HKS-8-95-35-50-60	95	35	50	2.77
HKS-8-95-35-50-120	95	35	50	3.08
HKS-8-95-35-60	95	35	60	3.81
HKS-8-95-35-60-60	95	35	60	-
HKS-8-95-35-60-90	95	35	60	-
HKS-8-95-35-60-120	95	35	60	-
HKS-8-95-35-70	95	35	70	-
HKS-8-95-35-70-60	95	35	70	-
HKS-8-95-35-70-120	95	35	70	-
HKS-8-95-35-80	95	35	80	-
HKS-8-95-35-90	95	35	90	5.82
HKS-8-95-35-100	95	35	100	6.36
HKS-8-95-35-110	95	35	110	-
HKS-8-95-35-120	95	35	120	-
HKS-8-95-35-130	95	35	130	-
HKS-8-95-35-140	95	35	140	-
HKS-8-95-35-150	95	35	150	-
HKS-8-95-35-160	95	35	160	-
HKS-8-95-35-180	95	35	180	-
HKS-8-95-35-200	95	35	200	-
HKS-8-95-50-35	95	50	35	3.39
HKS-8-95-50-35-120	95	50	35	
HKS-8-95-50-50	95	50	50	-
HKS-8-95-50-60	95	50	60	-
HKS-8-95-50-70	95	50	70	-
HKS-8-95-50-80	95	50	80	7.81
HKS-8-95-50-90	95	50	90	-
HKS-8-95-50-100	95	50	100	-
HKS-8-95-50-120	95	50	120	3.00
HKS-8-95-50-150	95	50	150	-

• 長度單位 Unit of Length (mm)

HKS 油壓生爪
HKS POWER PRESSURE SOFT JAW

8" 油壓生爪尺寸表 Spec. table

規格 Spec.	長 h-1	寬 h-2	高 h-3	重量 (KGS) Weight
HKS-8-95-60-35	95	60	35	-
HKS-8-95-60-50	95	60	50	-
HKS-8-95-60-60	95	60	60	-
HKS-8-95-60-70	95	60	70	-
HKS-8-95-60-80	95	60	80	-
HKS-8-95-60-90	95	60	90	-
HKS-8-95-60-100	95	60	100	-
HKS-8-95-60-120	95	60	120	-
HKS-8-95-60-150	95	60	150	-
HKS-8-95-70-35	95	70	35	-
HKS-8-95-70-50	95	70	50	7.14
HKS-8-95-70-60	95	70	60	-
HKS-8-95-70-70	95	70	70	-
HKS-8-95-80-40	95	80	40	-
HKS-8-95-80-50	95	80	50	-
HKS-8-95-80-60	95	80	60	-
HKS-8-95-80-80	95	80	80	-
HKS-8-95-90-90	95	90	90	-
HKS-8-95-100-40	95	100	40	-
HKS-8-95-100-50	95	100	50	-
HKS-8-95-100-60	95	100	60	-
HKS-8-95-100-100	95	100	100	-
HKS-8-95-120-50	95	120	50	-
HKS-8-130-35-40	130	35	40	-
HKS-8-130-35-50	130	35	50	-
HKS-8-150-35-50	150	35	50	-
HKS-8-150-35-70	150	35	70	-

10" 油壓生爪尺寸表 Spec. table

規格 Spec.	長 h-1	寬 h-2	高 h-3	重量 (KGS) Weight
HKS-10-110-40-42	110	40	42	3.69
HKS-10-110-40-42-60	110	40	42	-
HKS-10-110-40-42-120	110	40	42	-
HKS-10-110-40-50	110	40	50	4.39
HKS-10-110-40-60	110	40	60	5.25
HKS-10-110-40-70	110	40	70	6.14
HKS-10-110-40-80	110	40	80	7.03
HKS-10-110-40-80-60	110	40	80	-
HKS-10-110-40-80-120	110	40	80	-
HKS-10-110-40-90	110	40	90	-
HKS-10-110-40-100	110	40	100	8.81
HKS-10-110-40-110	110	40	110	9.86
HKS-10-110-40-120	110	40	120	11
HKS-10-110-40-130	110	40	130	-
HKS-10-110-40-140	110	40	140	-
HKS-10-110-40-150	110	40	150	13.39
HKS-10-110-40-160	110	40	160	-
HKS-10-110-40-180	110	40	180	-
HKS-10-110-40-200	110	40	200	-
HKS-10-110-40-220	110	40	220	-
HKS-10-110-50-50	110	50	50	-
HKS-10-110-50-60	110	50	60	-
HKS-10-110-50-70	110	50	70	-
HKS-10-110-50-80	110	50	80	-
HKS-10-110-50-100	110	50	100	-

10" 油壓生爪尺寸表 Spec. table

規格 Spec.	長 h-1	寬 h-2	高 h-3	重量 (KGS) Weight
HKS-10-110-60-40	110	60	40	-
HKS-10-110-60-50	110	60	50	-
HKS-10-110-60-60	110	60	60	-
HKS-10-110-60-70	110	60	70	9.89
HKS-10-110-60-80	110	60	80	11.29
HKS-10-110-60-100	110	60	100	-
HKS-10-110-70-40	110	70	40	-
HKS-10-110-70-50	110	70	50	-
HKS-10-110-70-70	110	70	70	-
HKS-10-110-70-70-60	110	70	70	-
HKS-10-110-70-80	110	70	80	
HKS-10-110-80-40	110	80	40	-
HKS-10-110-80-50	110	80	50	9.59
HKS-10-110-80-80	110	80	80	15.47
HKS-10-110-90-90	110	90	90	-
HKS-10-110-100-40	110	100	40	-
HKS-10-110-100-50	110	100	50	-
HKS-10-110-100-60	110	100	60	-
HKS-10-110-100-100	110	100	100	-
HKS-10-110-120-50	110	120	50	13.45
HKS-10-150-40-42	150	40	42	-
HKS-10-150-40-50	150	40	50	-
HKS-10-150-40-60	150	40	60	-
HKS-10-150-40-70	150	40	70	-
HKS-10-150-40-80	150	40	80	-
HKS-10-180-40-60	180	40	60	-
HKS-10-180-40-90	180	40	90	-
HKS-10-200-40-50	200	40	50	-
HKS-10-200-40-60	200	40	60	-
HKS-10-200-40-90	200	40	90	15.68

12" 油壓生爪尺寸表 Spec. table

規格 Spec.	長 h-1	寬 h-2	高 h-3	重量 (KGS) Weight
HKS-12-130-50-50	130	50	50	6.37
HKS-12-130-50-50-60	130	50	50	-
HKS-12-130-50-60	130	50	60	-
HKS-12-130-50-70	130	50	70	-
HKS-12-130-50-80	130	50	80	-
HKS-12-130-50-90	130	50	90	11.21
HKS-12-130-50-100	130	50	100	-
HKS-12-130-50-110	130	50	110	-
HKS-12-130-50-120	130	50	120	-
HKS-12-130-50-130	130	50	130	-
HKS-12-130-50-140	130	50	140	-
HKS-12-130-50-150	130	50	150	-
HKS-12-130-50-160	130	50	160	-
HKS-12-130-50-170	130	50	170	-
HKS-12-130-50-180	130	50	180	-
HKS-12-130-50-190	130	50	190	-
HKS-12-130-50-200	130	50	200	-
HKS-12-130-80-80	130	80	80	-

• 長度單位 Unit of Length (mm)

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HKS 油壓生爪
HKS POWER PRESSURE SOFT JAW

12" 油壓生爪尺寸表 Spec. table

規格 Spec.	長 h-1	寬 h-2	高 h-3	重量 (KGS) Weight
HKS-12-150-50-50	150	50	50	-
HKS-12-150-50-60	150	50	60	-
HKS-12-150-50-70	150	50	70	-
HKS-12-150-50-80	150	50	80	-
HKS-12-150-50-100	150	50	100	-
HKS-12-180-50-50	180	50	50	9.4
HKS-12-180-50-60	180	50	60	-
HKS-12-180-50-80	180	50	80	15.08
HKS-12-180-50-100	180	50	100	-
HKS-12-200-50-50	200	50	50	-
HKS-12-200-50-80	200	50	80	18.89
HKS-12-220-50-50	220	50	50	-
HKS-12-220-50-60	220	50	60	-
HKS-12-220-50-80	220	50	80	-
HKS-12-260-50-60	260	50	60	-
HKS-12-450-40-80	450	40	80	-

15" 油壓生爪尺寸表 Spec. table

規格 Spec.	長 h-1	寬 h-2	高 h-3	重量 (KGS) Weight
HKS-15-165-62-62	165	62	62	12.9
HKS-15-165-62-70	165	62	70	16
HKS-15-165-62-80	165	62	80	-
HKS-15-165-62-100	165	62	100	-
HKS-15-165-62-120	165	62	120	24
HKS-15-165-62-150	165	62	150	30
HKS-15-165-62-180	165	62	180	-
HKS-15-165-62-200	165	62	200	-
HKS-15-200-62-70	200	62	70	-
HKS-15-200-62-100	200	62	100	25
HKS-15-250-62-70	250	62	70	22.5

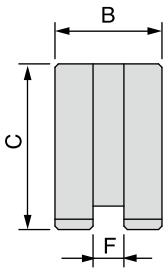
- 材質為 : 中碳鋼
- 特殊規格尺寸可訂作

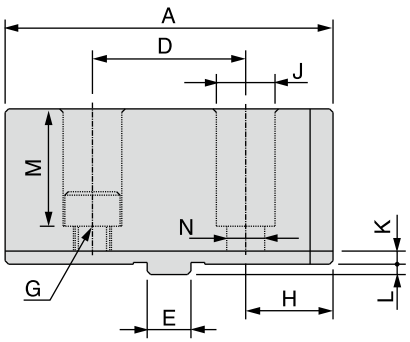
訂購前請註明角度
- 120° 平 標準型
- 120° 尖 特殊另外加價
- 60° 尖 特殊另外加價

- Material: Carbon steel
- Special specification is optional

- Before ordering, please inform the angle
- 120° flat, standard
- 120° sharp, special specification is price optional
- 60° sharp, special specification is price optional

SKS 強力生爪
SKS POWER PRESSURE SOFT JAW





特點 Feature

- 適用於強力三爪夾頭上，尺寸是國際規格，並有高可塑性
- 材質 S50C，不經熱處理，無硬度，可以修整成各種形狀尺寸來夾持工件

-Is suitable on the force universal chuck cartridge, the size is the international specification, and has the high plasticity.
-Material S50C, without heat treatment, no hardness, into various shapes and sizes can be trimmed to clamp workpiece.

規格 Spec.	A	B	C	D	E	F	G	H	J	K	L	M	N	重量 (KGS) Weight
SKS-6	73	26	37	38.1	12.68	7.94	M8-1.25P	17.45	14	3.5	3	25	9	1.3
SKS-7	95	31	48	44.4	12.68	7.94	M10-1.5P	23.5	17	3.8	3	34	11	2.6
SKS-9	110	37		54	19.03	12.7	M12-1.75P	28	19	4.2	3	34	13	3.6
SKS-12	125	40	54	63.5	19.03	12.7	M12-1.75P	30.75	19	4.2	3	38	13	5.5

• 長度單位 Unit of Length (mm)

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SKS 強力生爪
SKS POWER PRESSURE SOFT JAW

6" 強力生爪尺寸表 Spec. table

規格 Spec.	長 A	寬 B	高 C	重量 (KGS) Weight
SKS-6-73-25-37H	73	25	37	1.28
SKS-6-73-25-50H	73	25	50	1.74
SKS-6-73-25-60H	73	25	60	2.11
SKS-6-73-25-70H	73	25	70	2.48
SKS-6-73-25-80H	73	25	80	-
SKS-6-73-25-90H	73	25	90	-
SKS-6-73-25-100H	73	25	100	-
SKS-6-85-32-32H	85	32	32	-

7" 強力生爪尺寸表 Spec. table

規格 Spec.	長 A	寬 B	高 C	重量 (KGS) Weight
SKS-7-95-31-48H	95	31	48	-
SKS-7-95-31-60H	95	31	60	-
SKS-7-95-31-70H	95	31	70	-
SKS-7-95-31-80H	95	31	80	-
SKS-7-95-31-90H	95	31	90	5.03
SKS-7-95-31-100H	95	31	100	-
SKS-7-95-31-120H	95	31	120	-
SKS-7-95-32-32H	95	32	32	1.68
SKS-7-95-50-56H	95	50	56	-
SKS-7-150-31-50H	150	31	50	-
SKS-7-180-31-50H	180	31	50	-

9" 強力生爪尺寸表 Spec. table

規格 Spec.	長 A	寬 B	高 C	重量 (KGS) Weight
SKS-9-105-32-32H	105	32	32	1.38
SKS-9-105-32-32H-60	105	32	32	-
SKS-9-110-37-48H	110	37	48	3.69
SKS-9-110-37-48H-120	110	37	48	-
SKS-9-110-37-60H	110	37	60	4.66
SKS-9-110-37-70H	110	37	70	-
SKS-9-110-37-80H	110	37	80	6.28
SKS-9-110-37-100H	110	37	100	7.89
SKS-9-110-37-120H	110	37	120	9.47
SKS-9-110-37-130H	110	37	130	-
SKS-9-110-37-150H	110	37	150	-
SKS-9-110-37-180H	110	37	180	-
SKS-9-110-37-200H	110	37	200	-
SKS-9-110-54-56H	110	54	56	-
SKS-9-150-37-50H	150	37	50	-
SKS-9-150-37-60H	150	37	60	-
SKS-9-150-37-80H	150	37	80	-
SKS-9-180-37-60H	180	37	60	-
SKS-9-200-37-50H	200	37	50	-
SKS-9-200-37-60H	200	37	60	-
SKS-9-200-37-80H	200	37	80	-

12" 強力生爪尺寸表 Spec. table

規格 Spec.	長 A	寬 B	高 C	重量 (KGS) Weight
SKS-12-125-40-54H	125	40	54	-
SKS-12-125-40-70H	125	40	70	6.69
SKS-12-125-40-80H	125	40	80	-
SKS-12-125-40-90H	125	40	90	-
SKS-12-125-40-100H	125	40	100	-
SKS-12-125-40-120H	125	40	120	-
SKS-12-125-40-150H	125	40	150	-
SKS-12-125-40-180H	125	40	180	-
SKS-12-125-40-200H	125	40	200	-
SKS-12-180-40-60H	180	40	60	-
SKS-12-200-40-60H	200	40	60	-
SKS-12-230-40-60H	230	40	60	-
SKS-12-250-50-60H	250	50	60	-

15" 強力生爪尺寸表 Spec. table

規格 Spec.	長 A	寬 B	高 C	重量 (KGS) Weight
SKS-15-160-50-70H	160	50	70	-
SKS-15-160-50-100H	160	50	100	-
SKS-15-160-50-120H	160	50	120	-
SKS-15-160-50-150H	160	50	150	-

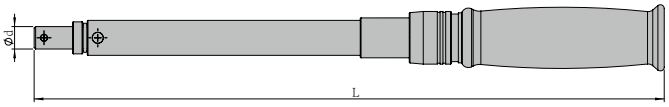
- SKS-7 與 SKS-8 共用 SKS-7 and SKS-8 altogether use.
- SKS-9 與 SKS-10 共用 SKS-9 and SKS-10 altogether use.

• 長度單位 Unit of Length (mm)

AID

LM-TW 扭力扳手
LM-TW TORQUE WRENCH

NEW



特點 Feature

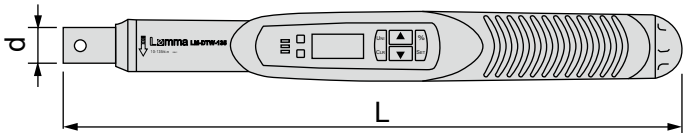
- 高精密度 : 扭矩誤差值 ±4%
- Ø16 圓頭型設計
- 雙刻度 :N.m(牛頓米)、ft-lbs(呎磅)
- 單向使用

規格 Spec.	L	d	扭力值 (N.m) Torque	重量 (KGS) Weight
LM-TW-60	360	16	10~60	0.9
LM-TW-100	420		20~100	1.1
LM-TW-200	490		40~200	1.6

範例 Example

• 長度單位 Unit of Length (mm)

LM-DTW 多功能扭力扳手
LM-DTW MULTI-FUNCTION TORQUE WRENCH



範例 Example

特點 Feature

- 特殊 ø16 圓頭型設計
- 當施力達到目標扭力值時，紅色及綠色 LED 燈會同時亮起，並發出長嗶聲，來提醒使用者，以免超過扭力值而造成物件損壞
- 操作方便

- Special ø16 round head design.
- When application of force achieve object torsion value, red and green LED will light at the same time, and emit long bip sound, reminds the user, in order to avoid surpasses the torsion value to create the thing damage.
- Convenient to operate .

規格 Spec.	L	d	扭力值 (N.m) Torque	重量 (KGS) Weight
LM-DTW-135	360	16	10-135	1.56
LM-DTW-200	530		20-200	1.96
LM-DTW-340	740		34-340	2.34

範例 Example

- 本產品不包含電池
  Non inclusive battery
- 電池數量 : 6 顆
  Number of battery: 6pcs
- 電池規格 Battery specification:
  台灣 -4 號電池 / 大陸 -7 號電池
  Taiwan - No.4 battery/China - No.7 battery

直徑 : 10.5mm
Diameter:10.5mm

• 長度單位 Unit of Length (mm)

AID

螺帽轉接頭〔扭力扳手用〕
NUT ADAPTERS FOR EXCHANGEABLE TORQUE SPANNER

螺帽扳手 Nut Spanner

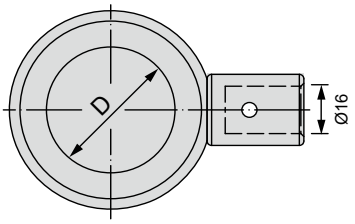
圖形 Form	規格 Spec.	扭力值 Torque	
		N.m	ft-lbs
	SKS6-LH	25	18
	SKS10-LH	45	33
	SKS16-LH	70	51
	SKS25-LH	100	73
	TDQ-D18	25	18
	TDQ-D30	45	33
	TDQ-D40	70	51
	TDQ-D55	100	73
	MLC20-LH	60	45
	MLC32-LH	80	60
	MLC42-LH	110	80
	EOC25-LH	200	147

圖形 Form	規格 Spec.	扭力值 Torque	
		N.m	ft-lbs
	ER11M-LH	20	14
	ER16M-LH	30	21
	ER20M-LH	40	24
	ER25M-LH	60	29
	ER16A-LH	40	30
	ER20A-LH	60	44
	ER25-UM□KM-LH/RD	80	59
	ER32-UM□KM-LH/RD	110	81
	ER40-UM□KM-LH/RD	130	95
	TDQ-D18	20	14
	TDQ-D30	40	30
	TDQ-D34	60	44
	TDQ-D42	80	59
	TDQ-D50	170	125

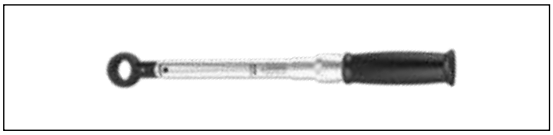
• 長度單位 Unit of Length (mm)

AID

螺帽轉接頭〔扭力扳手用〕
NUT ADAPTERS FOR EXCHANGEABLE TORQUE SPANNER



範例 Example



特點 Feature

- 搭配扭力扳手使用
- 參考規格，設定標準螺帽扭力值
- 預先設定好扭力值，可以預防加工時掉落，鎖緊後不容易鬆脫，也不會使筒夾彈性疲乏損壞

-Please use it with torque spanner.
-Set standard value for nut clamping torque, please see the type as below for your reference.
-Due to setting power in advance, it can prevent tool dropping when processing. Not easy to loosen for tightness and make the collets elastic fatigue.

規格 Spec.	D	扭力值 Torque		配合螺帽 Nut	重量 (KGS) Weight
		N.m	ft-lbs		
TDQ-D16	16	20	14	ER11M、PTER11	0.42
TDQ-D18	18	20	14	ER11-HS、SKS6	0.24
TDQ-D28	28	40	24	PTER20	0.25
TDQ-D30	30	45	33	ER16、ER16-HS-A、PNER16、UTER16、SKX10-CO、SKS10	0.28
TDQ-D32	32	60	44	PNER20	0.25
TDQ-D34	34	60	44	ER20、SKS13、ER20-HS-A	0.33
TDQ-D35	35	60	44	UTER20、PTER25	0.40
TDQ-D40	40	70	51	PNER25、SK316、SKX16-CO、SKS16	0.16
TDQ-D42	42	80	59	ER25、UTER25、ER25-HS-A	0.40
TDQ-D48	48	70	51	UTER32、SKX20-CO、SK320、SKS20	0.40
TDQ-D50	50	110	81	ER32、PNER32、ER32-HS-A	0.42
TDQ-D55	55	100	73	SKX25-CO、SKS25	0.42
TDQ-D63	63	130	95	PNER40、PRO32、SK325	0.25

• 長度單位 Unit of Length (mm)

螺帽轉接頭〔扭力扳手用〕
NUT ADAPTERS FOR EXCHANGEABLE TORQUE WRENCH

Fig.1

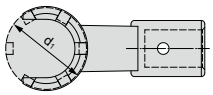


Fig.2

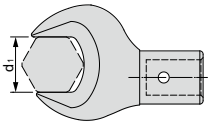


Fig.3

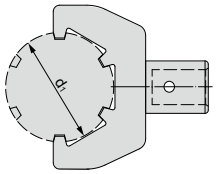
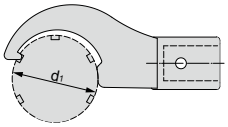


Fig.4



特點 Feature

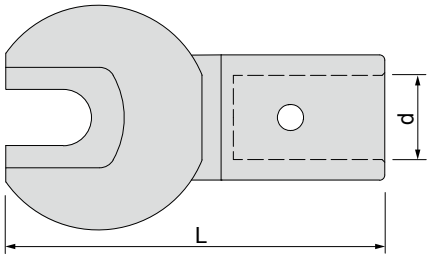
- 搭配扭力扳手使用
- 參考規格，設定標準螺帽扭力值
- 預先設定好扭力值，可以預防加工時掉落，鎖緊後不容易鬆脫，也不會使筒夾彈性疲乏損壞

-Please use it with torque spanner.
-Set standard value for nut clamping torque, please see the type as below for your reference.
-Due to presetting torque value, it can prevent tool dropping when processing. Not easy to loosen for tightness and make the collets elastic fatigue.

規格 Spec.	d_1	扭力值 Torque		配合螺帽 Nut	Fig.	重量 (KGS) Weight
		N.m	ft-lbs			
ER11M-LH	16	20	14	ER11M	1	0.09
ER16M-LH	22	30	21	ER16M	1	0.10
ER20M-LH	28	40	24	ER20M	1	0.10
ER25M-LH	35	60	29	ER25M	1	0.10
ER16A-LH	25	40	30	ER16A	2	0.14
ER20A-LH	30	60	44	ER20A	2	0.20
ER25-UM□KM-LH/RD	42	80	59	ER25-UM/KM/RD	3	0.25
ER32-UM□KM-LH/RD	50	110	81	ER32-UM/KM/RD	3	0.30
ER40-UM□KM-LH/RD	63	130	95	ER40-UM/KM/RD	3	0.40
SKS6-LH	18	25	18	SKS6-NUT	2	0.08
SKS10-LH	30	45	33	SKS10-NUT	4	0.16
SKS16-LH	40	70	51	SKS16-NUT	4	0.18
SKS25-LH	55	100	73	SKS25-NUT	4	0.20
MLC20-LH	46	60	45	MLC20	4	-
MLC32-LH	64	80	60	MLC32	4	0.22
MLC42-LH	65	110	80	MLC42	4	0.22

• 長度單位 Unit of Length (mm)

替換式拉頭扳手
INDEXABLE WRENCH FOR PULL STUD



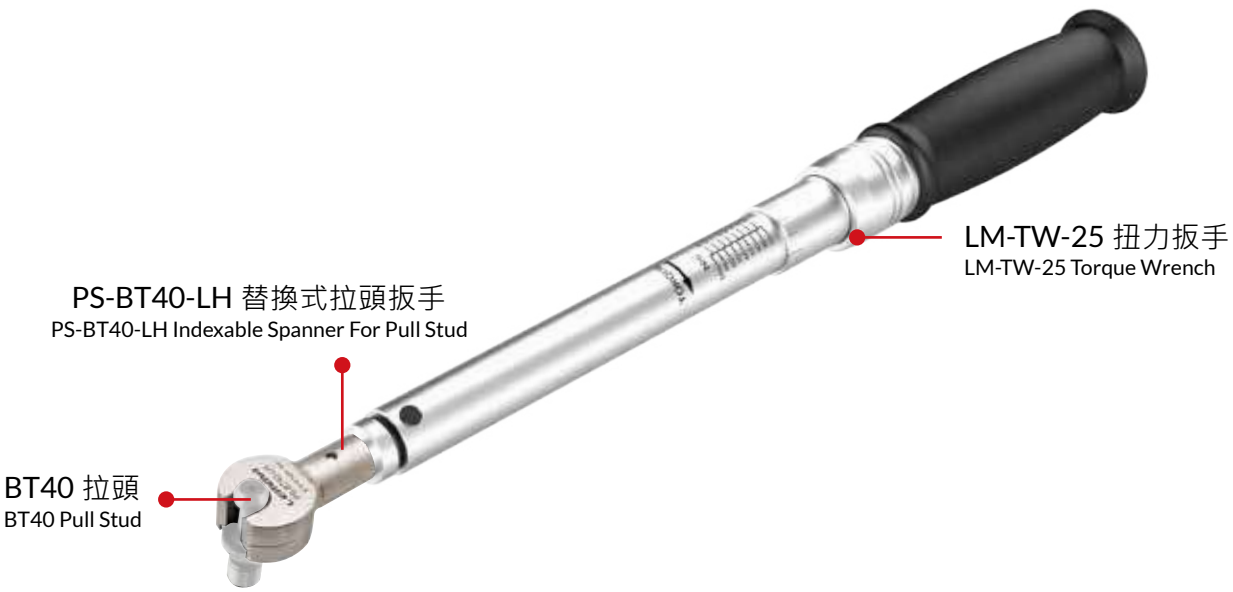
特點 Feature

- 可施予正確的力距，鎖固拉頭

-Apply appropriate torque to lock the pull stud.

規格 Spec.	L	d	???? Pull Studs	重量 (KGS) Weight
PS-BT30-LH	58	16	BT30 拉頭	0.14
PS-BT40-LH	72	16	BT40 拉頭	0.20
PS-BT50-LH	80	16	BT50 拉頭	-

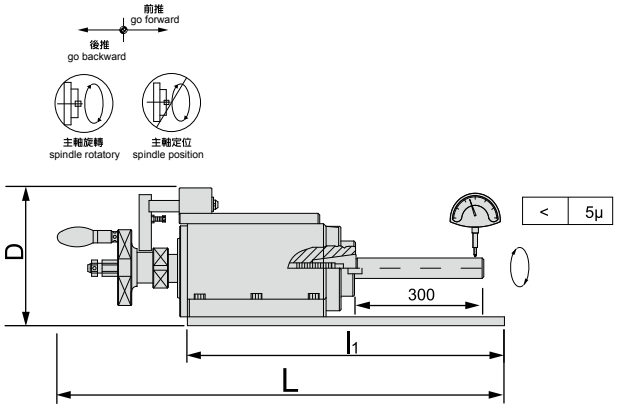
範例 Example



• 長度單位 Unit of Length (mm)

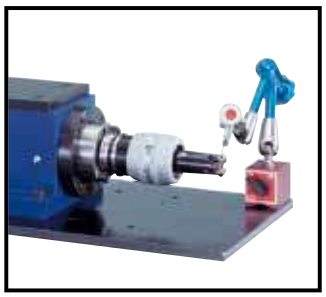
AID

CHW-SK 精度檢測儀
CHW-SK SPINDLE MASTER

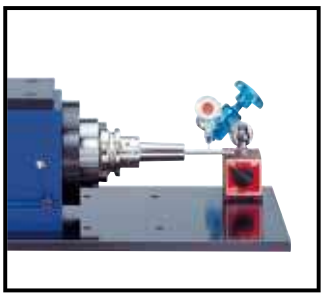


範例 Example

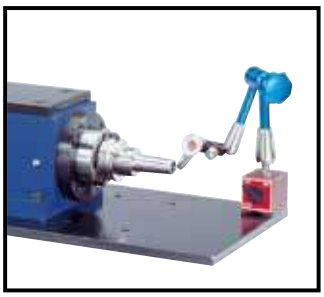
校正刀片公差
Correction insert tolerances



校正刀片公差
Correction insert tolerances



校正筒夾公差
Correction collet tolerances



校正刀桿公差
Correction shank tolerances

操作注意事項 Operation Instruction

- 檢查校正桿是否標準，轉動主軸是否清潔
- 主軸上固定鍵，定位並向右固定轉軸
- 螺桿上鎖校正，(約 15m/m 牙深) 上緊固定螺帽密合
- 主軸上固定鍵向左撥開，即可轉動主軸
- 將量錶置於檢驗位置上，即可檢驗及校正
- 量錶量測時，請確實掌握測試桿最高點為探測接觸點

-Check and ensure the aligner bar is standard. Turn the spindle and see if it is clean.
- Position the fixing key on spindle, turn right and fix the spindle.
- Lock and regulate the screw, (depth about 15m/m) locking nut.
- Turn the fixing key to the left. Turn the spindle.
- Place the scale at the testing position. Test and calibrate.
- When measuring with the scale, be sure to grasp the highest point of the test rod probe contact point.

注意事項 Notice

- 校正座必須置於水平固定架上
- 放置清潔，室溫保持 20° ±10°左右
- 禁止對校正座敲打或碰觸
- 隨時保持清潔及定期檢測、保養
- 將量錶置於檢驗位置上，即可檢驗及校正
- 量錶量測時，請確實掌握測試桿最高點為探測接觸點

- Calibration seat must be placed on a horizontal bracket.
- Place purifying, the temperature is maintained around 20 ° ± 10 °.
- Do not knock or touch the calibration seat.
- Kept clean and regular testing, maintenance.
- The scale is placed on the testing position. Test and calibrate.
- Scale measurements, be sure to grasp the highest point of the test rod probe contact point.

規格 Spec.	斜度 Taper	L	l_1	D	螺桿尺寸 Rod Screw	重量 (KGS) Weight
CHW-SK30	NT30/BT30	650	500	210	M12-1.75P	50.0
CHW-SK40	NT40/BT40	680	500	240	M16-2.0P	70.0
CHW-SK50	NT50/BT50	900	700	260	M24-2.0P	110.0

※ 主軸測試棒另外訂購 Spindle test bar is ordered separately.

• 長度單位 Unit of Length (mm)

AID

LM-OM-PHC3125R 影像測量校正儀
LM-OM-PHC3125R OPTICAL TOOL PRESETTER

NEW

範例 Example

A Z軸升降手輪 Shifting Structure of Z-axis **B X軸位移手輪 Shifting Structure of X-axis**

透過氣壓元件來進行量測支架在 X軸及 Z軸 上的大幅度移動

Use pneumatic components to measure the large movement of the bracket on the X and Z axes.

C 快送機構 Fast Moving Device

透過氣壓元件來進行量測支架在 X軸及 Z軸 上的大幅度移動

Use pneumatic components to measure the large movement of the bracket on the X and Z axes.

D 均採用高精度線軌 、 雙滑塊 結構 All adopt high-precision linear rail and double slider structure

X軸及 Z軸 均採用高精度線軌 、 雙滑塊 結構 ，確保長久量測上的穩定性

Both X-axis and Z-axis adopt high-precision linear rail and double-slider structure to ensure long-term measurement stability.

E 影像量測機構 Projection Measuring Structure

配備載遠新鏡頭及高解析度相機

Equipped with Zaiyuan's new lens and high-resolution camera.

F 螢幕 Screen

影像量測系統可進行刀具重要尺寸之測量，並具備將量測得到之刀長數進行整理輸出 CNC刀長補正程式碼

The image measurement system can measure the important dimensions of the tool, and can sort the measured tool length and output the CNC tool length compensation code.

規格 Spec.	LM-OM-PHC3125R	機台重量 Weight of Machine	110 Kg
量測範圍 Range of Measuring	直徑Diameter(X)：Ø125mm 高度Height(Z)：70~300mm	電源 Power	220V 50-60Hz 15A
機台外型尺寸 Size of Machine	長(L)x 寬(W)x 高(H) 790x450x810mm	工具櫃尺寸 (選配) Size of Tool Cabinet (Optional)	H865xW1060xD515mm
量測精度 Accuracy of Measuring	0.005mm	工具櫃重量 Weight of Tool Cabinet	85 Kg

標配 Standard

圖示 Image	名稱 Description	規格 Spec.
	BT50測試棒 BT50 Testing Bar	BT50-TS170L
	主軸清潔棒 Spindle Cleaner Bar	W50
	六角扳手組 Hex Wrench set	LM-PHC-0012

選配 Optional Accessories

圖示 Image	名稱 Description	規格 Spec.
	工具櫃 Tool Cabinet	LM-PHC-0011
	主軸轉換套 Spindle Adapter	BT50 - BT40 BT50 - BT30

• 長度單位 Unit of Length (mm)

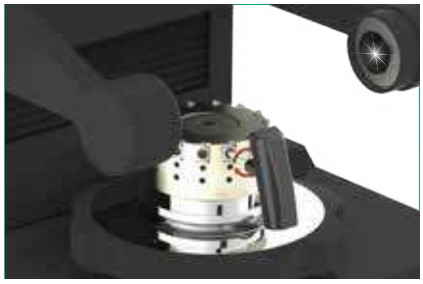
AID

LM-OM-PHC3125R 影像測量校正儀
LM-OM-PHC3125R OPTICAL TOOL PRESETTER

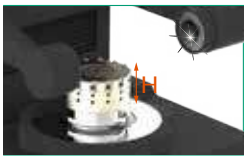
量測方式 Measurement method

NEW

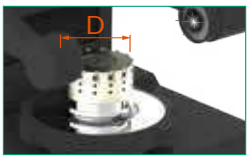
簡化校刀時間、降低生產成本
Simplify the adjusting time of cutting tool, reduce the production cost.



可在機台的外側進行量測，當要調整刀具刃高時，可直接進行調整及刀片鎖固螺絲的鎖固，不會有干涉產生，使調整效率更加快速
There's no interference when you adjust the height of cutter because you can adjust and lock the insert screw directly, measure it from the outside of machine. It is able to raise the efficiency of measurement.



刃高校正
Insert height correction



刀刃外徑校正
Blade outer diameter correction

刀長補正
Tool Length Compensation

角度量測
Angle Measuring

圓角量測
Radius Mearuring

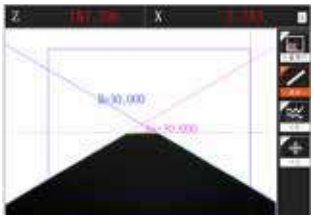
軟體主要功能及特點 Main functions and features of the software

具動態十字線，可精準定位刀尖位置
With dynamic crosshairs, the position of the tool tip can be accurately positioned

可以手動自由選取量測範圍
The measurement range can be freely selected manually

可選多種測量模組
Optional multiple measurement modules

刀長及刀徑之測量
Measurement of cutter length and diameter



刀具角度之測量
Tool angle measurement

刀具圓角之測量
Tool fillet measurement

開啟正光，可檢視刀具刃口表面實際狀態
Turn on the positive light, you can view the actual state of the cutter edge surface

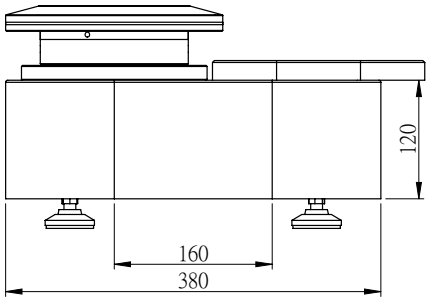
整理測量完畢刀具之刀長並輸出 CNC刀長補正程式碼
Sort out the tool length of the tool after measurement and output the CNC tool length compensate code

• 長度單位 Unit of Length (mm)

AID

LM-CM-PHC3160 輕量型 μ 級校正儀
LM-CM-PHC3160 MICRON GRADE TOOL PRESETTER

NEW



特點 Feature

- 安裝千分錶可針對刀具做偏擺的檢測
- 配合高度規可進行刀具之刀長量測
- 便利針對密齒刀、搪刀等刀具做調整設定
- 氣動結構增加真空吸附功能，改善刀桿定位重複精度

-Install a dial indicator to detect the deflection of the cutting tool.
-With height gauge, the length of cutting tool can be measured.
-Conveniently adjust settings for close-tooth cutters, boring cutters and other tools.
-The pneumatic structure increases the vacuum adsorption function to improve the positioning repeatability of the tool bar.

規格 Spec.	量測範圍 Range of Measuring	機台外型尺寸 Size of Machine	量測精度 Accuracy of Measuring	機台重量 Weight of Machine	氣壓條件 Atmospheric conditions
LM-CM-PHC3160-BT30	直徑Diameter(X)：Ø160mm 高度Height(Z)：300 mm	長(L)x 寬(W)x 高(H) =424.5x 220 x 225.25 mm	0.003mm	37.5 Kg	0.4~0.6 Mpa
LM-CM-PHC3160-BT40					
LM-CM-PHC3160-BT50					

標配 Standard

圖示 Image	名稱 Name	規格 Spec.
	主軸清潔棒 Spindle Cleaner Bar	W30、W40、W50

選配 Option

圖示 Image	名稱 Name	規格 Spec.
	測試棒 Testing Bar	BT30-TS250L BT40-TS300L BT50-TS300L
	千分量錶 Dial Gauge	MITUTOYO-2109S-10
	萬向磁性錶座 Universal Arm Magnetic Base	LM-M120
	高度規 Height Gauge	MITUTOYO-570-312
	高度規比測台立柱 Comparator Stand Column	LM-MP25-350-C

實際應用 Application

• 長度單位 Unit of Length (mm)

AID

LM-DH 刀具設定儀
LM-DH TOOL PRESETTER

LM-DH3300R

LM-DH4400R

LM-DH6600R

操作注意事項 Operation Instruction

- 全系列立柱 (Z 軸) 採用超耐磨鋁合金，經特殊處理不易變形，搭配精密線性滑軌，操作簡便、精度更佳
- 全系列立柱 (Z 軸) 配備快速移動裝置，便捷性更加提升
- 全系列 X 軸、Z 軸皆裝置精密光學尺，螢幕顯示精確、易讀

- Made of super wear resistant aluminum alloy, Z-axis column is specially treated and free of deformation Equupped with high precision linear scale, the column is easy to operate with higher accuracy.
- Z-axis column is equipped with rapid traverse for higher moving efficiency.
- Both X-axis and Z-axis are equipped with high precision D.R.O. Values shown on the monitor are more accurate and easy to read.

規格 Spec.	量測範圍 Measurement range		數顯解析度 Resolution	儀器外型尺寸 Machine size (LxWxH)	工具櫃尺寸 (選配) Cabinet size (Optional)	工具櫃重量 Cabinet weight	電源 Power supply	儀器重量 (KGS) Weight
	直徑 D	高度 L						
LM-DH3300R	Ø300	30~300	0.005	650x320x730	700x570x800	60	AC 110V/220V 50Hz/60Hz	49
LM-DH4400R	Ø400	30~400	0.005	760x360x860	700x570x800	60		75
LM-DH6600R	Ø600	30~600	0.005	860x360x1060	800x570x650	60		85

標配 Standard

圖示 Fig.				
名稱 Name	□□□BT50 (Ø40mm□□200mm)X1□ Test bar BT50 (Ø40mm . length 200mm) *1 pc	□□□X2□ Dial indicator * 2pcs	□□□□X1□ Hex wrench *1set	□□□(X□□Y□) □□□ linear scale (X axis & Y axis 1 set of each)

選配 Option

圖示 Fig.		
名稱 Name	□□□ Selective accessories Tool cabinet	#50~#30 □□□□ #50~#30 convert sleeve

LM-DH 刀具設定儀工具櫃
LM-DH TOOL PRESETTER CABINET

LM-DH4400-C

LM-DH6600-C

規格 Spec.	工具櫃適用機型 Cabinet For Type	尺寸 (長 × 寬 × 高) Size(LxWxH)	重量 (KGS) Weight
LM-DH4400-C	LM-DH3300□LM-DH4400	700x570x800	60.0
LM-DH6600-C	LM-DH6600	800x570x650	60.0

• 長度單位 Unit of Length (mm)

AID

萬向磁性表座
UNIVERSAL ARM MAGNETIC BASE

NEW
LM-M020(機械式)
Mechanical Arm

LM-B080(標準式)
Magnetic Base

LM-M080(機械式)
Mechanical Arm

LM-M120(機械式)
Mechanical Arm

NEW
LM-020-A
Standard

LM-080-A
Standard

LM-100-A
Standard

LM-120-A
Standard

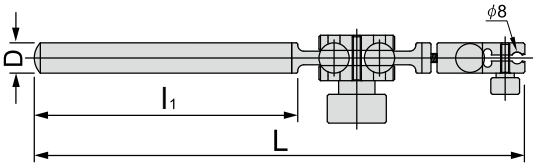
特點 Feature

- 萬向曲臂設計、方向可任意調整
- 槓桿旋臂上附有微調裝置 :Ø8mm 鳩尾槽座
- 適合各式樣之分釐錶、槓桿錶之夾持

-Indicators can be set at any point on 360°, very quick and convenient in operation.
-On the release lever arm attaches the vemier instrument: Ø8mm dove tail trough seat.
-Suitable for clamping various kinds of dial indicator and lever indicator.

規格 Spec.	磁力 Holding Power	方式 Manner	臂長 Arm Length	磁座尺寸 Base Dimension (mm)			孔徑 Tapped Hold	重量 (KGS) Weight
				長 L	寬 W	高 H		
LM-020-A	20kg	-	-	35	30	35	M8-1.25P	0.2
LM-080-A	80kg	-	-	60	50	55	M8-1.25P	1.05
LM-100-A	100kg	-	-	75	50	55	M8-1.25P	1.15
LM-120-A	120kg	-	-	85	50	55	M8-1.25P	1.32
LM-B080	80kg	-	-	60	50	55	-	1.60
LM-M020	20kg	□□□Mechanical	180	35	30	35	M8-1.25P	0.24
LM-M080	80kg	□□□Mechanical	320	60	50	55	-	1.50
LM-M120	120kg	□□□Mechanical	380	85	50	55	-	2.20

萬向中心錶架
ACCU STAND



範例 Example

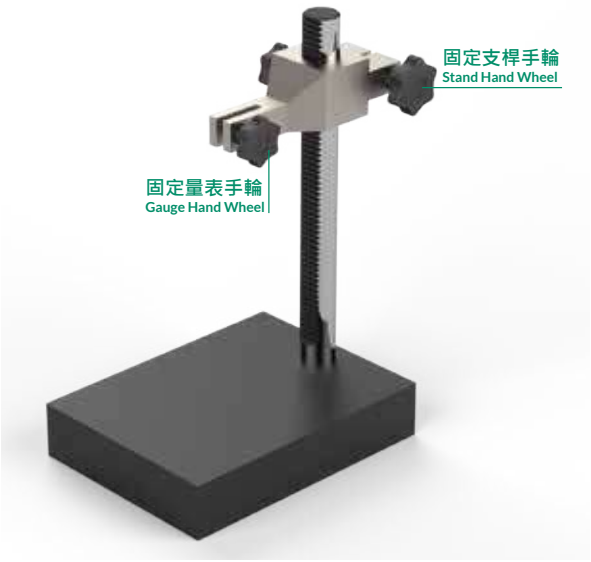
規格 Spec.	L	l_1	D	重量 (KGS) Weight
LM-AS-1060	180	90	10	0.20

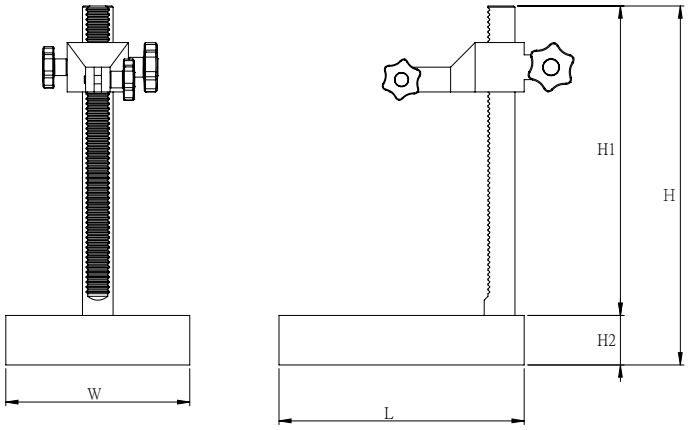
• 長度單位 Unit of Length (mm)

AID

LM-MP25-250 高度規比測台
LM-MP25-250 HIGHT GAUGE COMPARATOR

NEW





特點 Feature

- 精度穩定，不會受潮生鏽，使用維護都方便
- 耐酸鹼，耐腐蝕，抗磁，線脹系數小，受溫度影響小
- 工作面受碰撞或滑傷後只會產生凹坑，不會產生凸紋，毛刺對測量精度無影響
- 立柱採用不鏽鋼材料，防鏽抗腐蝕
- 立柱排齒結構設計，使量表不會快速降落造成損壞

- It's easy to use and maintain that it wouldn't be rusty. The accuracy is stable.
- Acid-resistant, corrosion-resistant, anti-magnetic, small coefficient of thermal expansion, small temperature coefficient.
- Only pits will be created after a collision or slip on the work surface. There wouldn't be deformation and burrs to affect the measuring accuracy.
- The column is made by stainless steel to avoid corrosion and rust.
- The rack design of column can avoid the damage from gauge caused by rapid fall.

● 附 M12-45L 六角螺絲

規格 Spec.	平台尺寸 mm L*W*H2	桿高 mm	臂長 mm	選配		重量 (KGS) Weight
LM-MP25-250	150*200*40	250	90	千分錶	百分錶	6.2
LM-MP25-250M	200*300*40	250	90			-
LM-MP25-350M	200*300*40	350	90			-

• 長度單位 Unit of Length (mm)

AID

工件定位器
WORK STOP TOOL

範例 Example

規格 Spec.	重量 (KGS) Weight
MAS-160B	0.85

※ 萬向 360°大範圍使用 Universal 360° wide range of use

噴霧式切削冷卻器
MIST COOLANT

範例 Example

規格 Spec.	長度 Length	重量 (KGS) Weight
MCS-B	500m/m	0.72

• 長度單位 Unit of Length (mm)

AID

銑刀刀柄座
TOOLING SHEATH

範例 Example

規格 Spec.	重量 (KGS) Weight
TC-30S	0.07
TC-40S	0.07
TC-50S	0.10
TC-HSK63S	0.04

刀具管理車
TOOL CARRIAGE

規格 Spec.	刀柄座數量 Qty	重量 (KGS) Weight
TC-30	32	40
TC-40	28	40
TC-50	20	40
TC-HSK63	24	40
TC-HSK100	19	

※ 不含展示刀具 Does not include display tools

※ 產品本身無組裝，如需組裝，組裝費外加 .
The tool carriage is without assembly. If you need us to assembly, it costs additional fee.

• 長度單位 Unit of Length (mm)

AID

GP 虎鉗平行板
GP VISE PARALLEL SET

範例 Example

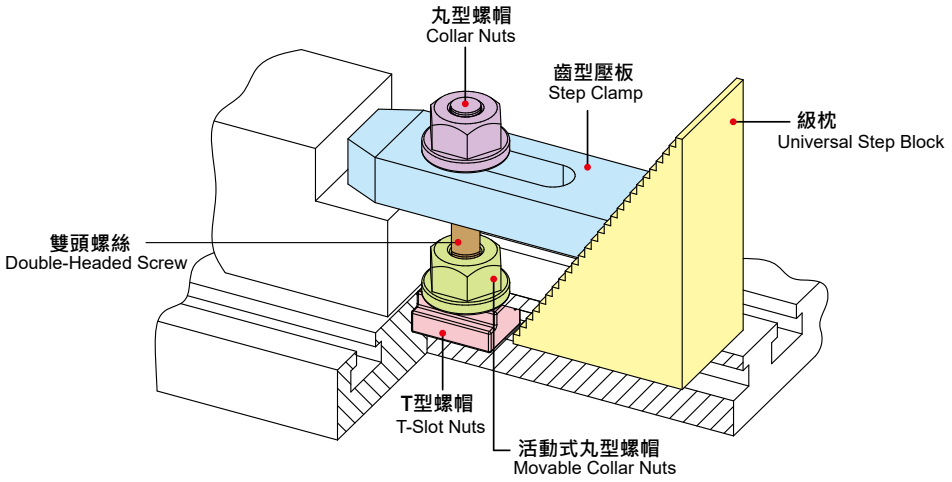
虎鉗平行版
VISE PARALLEL

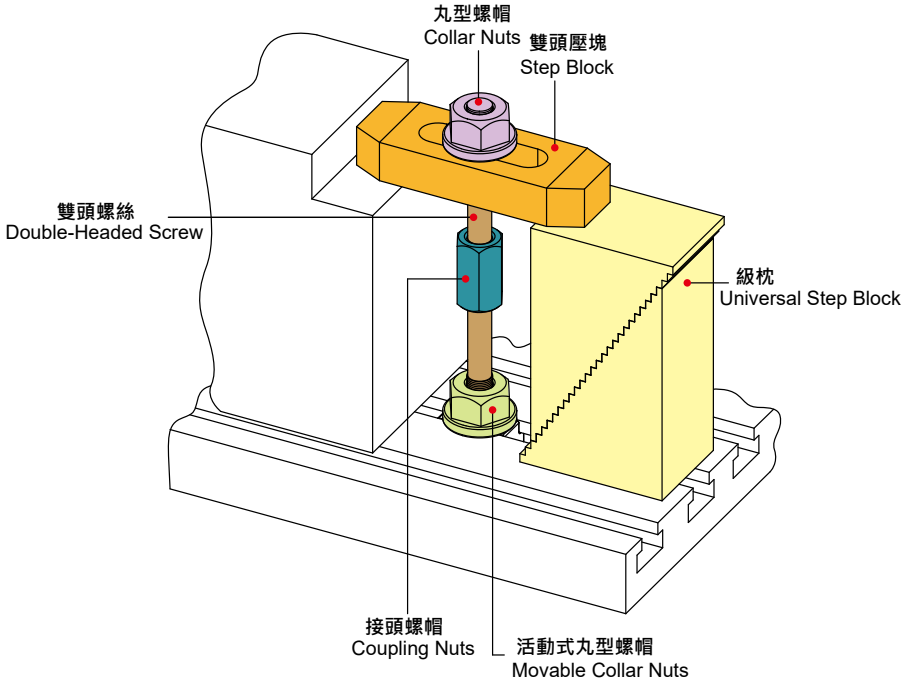
規格 **Spec.**	厚 x 寬 x 長 x 數量	重量 (KGS) Weight	規格 **Spec.**	厚 x 寬 x 長 x 數量	重量 (KGS) Weight
GP-18	5 x 16 x 100 x 2	10.0	GP-150	8.5 x 14 x 150 x 2	-
	6 x 18 x 100 x 2			8.5x 16 x 150 x 2	
	8 x 24 x 100 x 2			8.5 x 20 x 150 x 2	
	10 x 30 x 100 x 2			8.5 x 24 x 150 x 2	
	12 x 36 x 150 x 2			8.5 x 30 x 150 x 2	
	14 x 48 x 150 x 2			8.5 x 32 x 150 x 2	
	18 x 60 x 150 x 2			8.5 x 36 x 150 x 2	
	22 x 62 x 150 x 2			8.5 x 40 x 150 x 2	
	15 x 31 x 200 x 2			8.5 x 44 x 150 x 2	

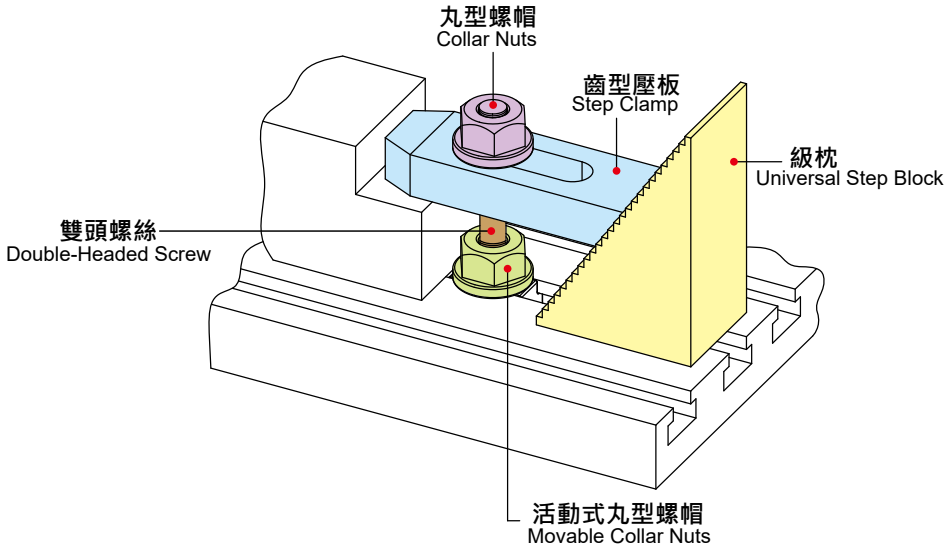
• 長度單位 Unit of Length (mm)

AID

萬能夾具組合圖
CLAMPING KIT



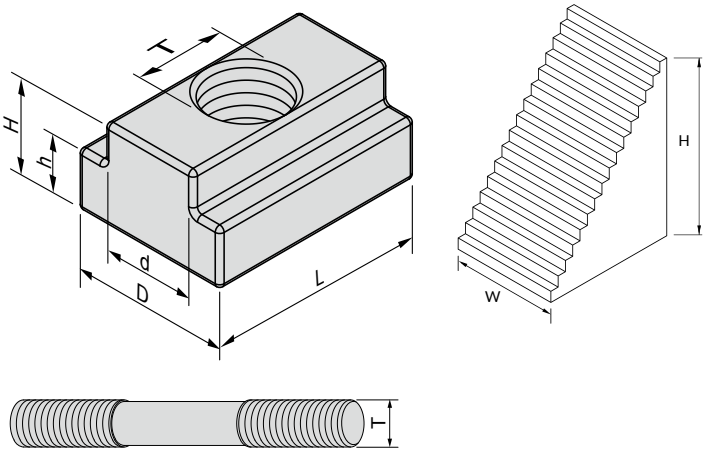




• 長度單位 Unit of Length (mm)

AID

萬能夾具組
CLAMPING KIT



內容物：

-24 個雙頭螺絲：

英制螺絲桿規格長度有：3"、4"、5"、6"、7"、8" 各 4 支
公制螺絲桿規格長度有：75、100、125、150、175、200mm 各 4 支
-6 個 T 型螺帽
-6 個丸型螺帽
-4 個接頭螺帽
-12 個級枕
-6 個齒型壓板

Contents:
-24 double-headed screws:
spec. in inch: 3", 4", 5", 6", 7", 8" 4pcs of each.
spec. in metric: 75, 100, 125, 150, 175, 200mm 4pcs of each.
-6 T-shot nuts
-6 Collar nuts
-4 Coupling nuts
-12 universal step block
-6 step clamps

英制 (inch)

規格 Spec.	T	d	H	h	D	L	W	重量 (KGS) Weight
PK-103A	3/8"-16UNC	7/16"	1/2"	7/32"	11/16"	7/8"	1"	10.2
PK-103B	3/8"-16UNC	1/2"	1/2"	9/32"	7/8"	7/8"	1"	10.2
PK-104A	1/2"-12UNC	9/16"	5/8"	11/32"	7/8"	1"-1/8"	1"	12.36
PK-104B	1/2"-12UNC	5/8"	5/8"	11/32"	1"	1"-1/8"	1"	12.36
PK-105A	5/8"-11UNC	11/16"	3/4"	7/16"	1"-1/8"	1"-7/32"	1"-1/4"	12.46
PK-105B	5/8"-11UNC	3/4"	3/4"	15/32"	1"-1/4"	1"-7/32"	1"-1/4"	12.46
PK-206A	3/4"-10UNC	13/16"	1"	9/16"	1"-9/32"	1"-1/2"	1"-1/2"	18.20
PK-206B	3/4"-10UNC	7/8"	1"-1/8"	9/16"	1"-3/8"	1"-1/2"	1"-1/2"	18.20

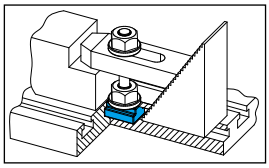
公制 (mm)

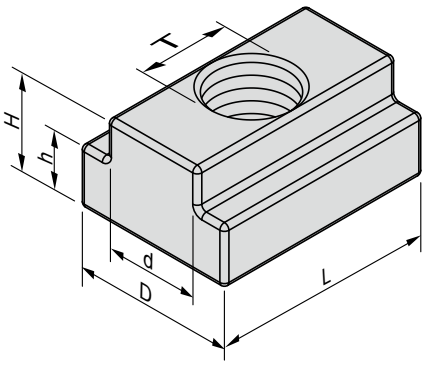
規格 Spec.	T	d	H	h	D	L	W	重量 (KGS) Weight
CK-10	M10-1.5P	11.5	12	6.8	17.5	22	25	10.2
CK-12A	M12-1.75P	13.8	16	8	22	28	25	10.5
CK-12B	M12-1.75P	13.8	16	8	22	28	32	11.4
CK-16A	M16-2.0P	17.5	19	11	28	31	25	13.4
CK-16B	M16-2.0P	17.5	19	11	28	31	32	14.3
CK-20	M20-2.5P	21.7	28	14	35	38	38	29.0
CK-24	M24-3.0P	27.5	36	18	44	49	50	63.0

• 長度單位 Unit of Length (mm)

AID

T 型螺帽
T-SLOT NUT





特點 Feature

- 可配合公、英制 T 型槽使用

-With the mm inch T-slots to use.

英制 (inch)

規格 Spec.	d	H	h	D	L	T	重量 (KGS) Weight
3/8T-S	7/16"	1/2"	7/32"	11/16"	7/8"	3/8"-16	0.02
3/8T-M	1/2"	1/2"	9/32"	7/8"	7/8"	3/8"-16	0.03
3/8T-L	9/16"	5/8"	5/16"	7/8"	1"-1/8"	3/8"-16	0.05
1/2T-S	9/16"	5/8"	5/16"	7/8"	1"-1/8"	1/2"-12	0.05
1/2T-M	5/8"	5/8"	5/16"	1"	1"-1/8"	1/2"-12	0.06
1/2T-L	11/16"	3/4"	7/16"	1"-1/8"	1"-1/4"	1/2"-12	0.09
5/8T-S	11/16"	3/4"	7/16"	1"-1/8"	1"-1/4"	5/8"-11	0.08
5/8T-M	3/4"	3/4"	15/32"	1"-1/4"	1"-1/4"	5/8"-11	0.10
5/8T-L	13/16"	1"	9/16"	1"-1/4"	1"-1/2"	5/8"-11	0.16
3/4T-S	13/16"	1"	9/16"	1"-1/4"	1"-1/2"	3/4"-10	0.15
3/4T-M	7/8"	1"-1/8"	9/16"	1"-3/8"	1"-3/4"	3/4"-10	0.18
3/4T-L	1"	1"	5/8"	1"-9/16"	1"-3/4"	3/4"-10	0.26

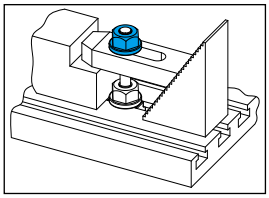
公制 (mm)

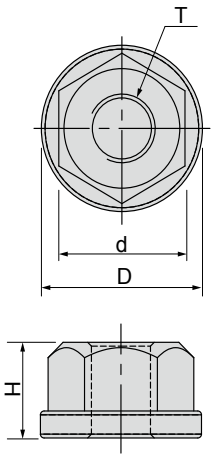
規格 Spec.	d	H	h	D	L	T	重量 (KGS) Weight
M8T	9.7	12	6	16	22	M8-1.25P	0.02
M10T	11.5	12	6.8	17.5	22	M10-1.5P	0.02
M12T-S	13.8	16	8	22	28	M12-1.75P	0.05
M12T-M	15.5	16	8	25	28	M12-1.75P	0.06
M16T	17.5	19	11	28	31	M16-2.0P	0.08
M20T	21.7	28	14	35	38	M20-2.5P	0.17
M24T	27.5	36	18	44	49	M24-3.0P	0.38

AID

• 長度單位 Unit of Length (mm)

丸型螺帽
COLLAR NUT





特點 Feature

- 可配合雙頭螺絲、壓板使用

-With the double-headed screw to use.

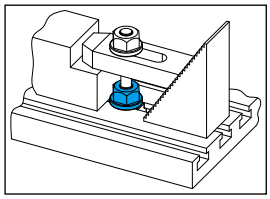
英制 (inch)

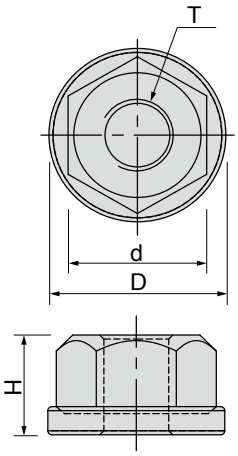
規格 Spec.	d	D	H	T	重量 (KGS) Weight
3/8-F	11/16"	7/8"	17/32"	3/8"-16	0.02
1/2-F	13/16"	1"-3/16"	11/16"	1/2"-12	0.04
5/8-F	1"-1/32"	1"-3/8"	13/16"	5/8"-11	0.08
3/4-F	1"-1/4"	1"-5/8"	1"	3/4"-10	0.16

公制 (mm)

規格 Spec.	d	D	H	T	重量 (KGS) Weight
M8-F	13	18	8	M8-1.25P	0.01
M10-F	17	22	13	M10-1.5P	0.02
M12-F	21	30	17	M12-1.75P	0.04
M16-F	26	35	22	M16-2.0P	0.07
M20-F	32	42	27	M20-2.5P	0.15
M24-F	41	50	32	M24-3.0P	0.29

活動式丸型螺帽
MOVABLE COLLAR NUT





特點 Feature

- 鎖上工物時底不卡死，不致工件物損壞

-When tighten the screw with workpiece, it won't cause jammed shut on the bottom to prevent the damage.

英制 (inch)

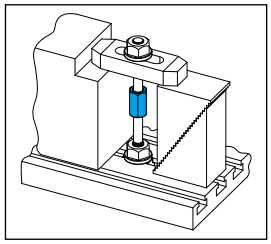
規格 Spec.	d	D	H	T	重量 (KGS) Weight
1/2-R	13/16"	1"-1/8"	5/8"	1/2"-12	0.05
5/8-R	1"-1/32"	1"-3/8"	11/16"	5/8"-11	0.10
3/4-R	1"-1/4"	1"-5/8"	1"	3/4"-10	0.17

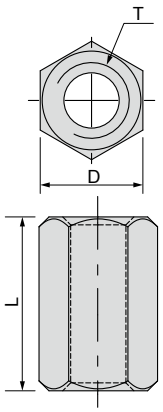
公制 (mm)

規格 Spec.	d	D	H	T	重量 (KGS) Weight
M16-R	26	35	23	M16-2.0P	0.08

• 長度單位 Unit of Length (mm)

接頭螺帽
COUPING NUT





特點 Feature

- 可配合雙頭螺絲，延長或固定使用

-With the double-headed screw, extended or fixed to use.

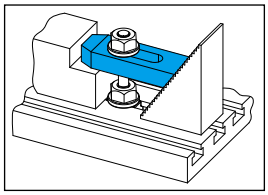
英制 (inch)

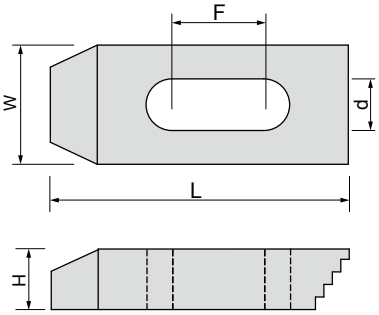
規格 Spec.	D	L	T	重量 (KGS) Weight
3/8-C	11/16"	1"	3/8"-16	0.04
1/2-C	13/16"	1"-1/4"	1/2"-12	0.07
5/8-C	1"-1/32"	1"-5/8"	5/8"-11	0.13
3/4-C	1"-1/4"	1"-7/8"	3/4"-10	0.23

公制 (mm)

規格 Spec.	D	L	T	重量 (KGS) Weight
M8-C	13	22	M8-1.25P	0.02
M10-C	17	25	M10-1.5P	0.03
M12-C	21	32	M12-1.75P	0.07
M16-C	26	40	M16-2.0P	0.12
M20-C	32	48	M20-2.5P	0.23
M24-C	41	63	M24-3.0P	0.50

齒型壓板
PLANE CLAMP





特點 Feature

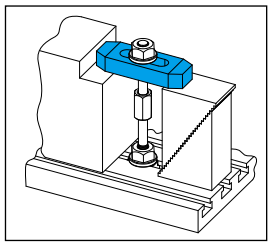
- 可配合級枕使用，方便調整高低

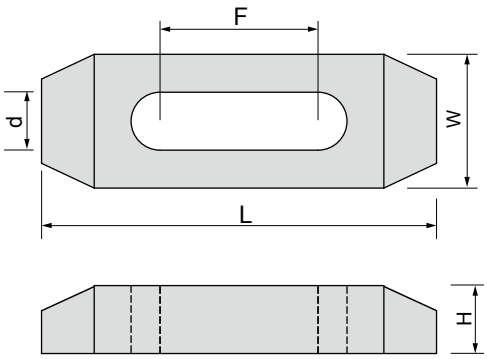
-With the step blocks use, easy to adjust the height.

規格 Spec.	d	L	W	H	F	適用範圍 Range		重量 (KGS) Weight
						英制 (inch)	公制 (mm)	
SC-3/8-2-1/2	3/8"	2"-1/2"	1"	1/2"	3/4"	3/8"	M10	0.12
SC-3/8-4	3/8"	4"	1"	5/8"	1"-3/16"	3/8"	M10	0.23
SC-3/8-6	3/8"	6"	1"-1/8"	3/4"	2"-1/8"	3/8"	M10	0.50
SC-1/2-2-1/2	1/2"	2"-1/2"	1"-1/8"	1/2"	11/16"	1/2"	M12-M14	0.13
SC-1/2-4	1/2"	4"	1"-1/4"	3/4"	1"-7/32"	1/2"	M12-M14	0.32
SC-1/2-6	1/2"	6"	1"-1/4"	7/8"	2"-11/64"	1/2"	M12-M14	0.64
SC-5/8-2-1/2	5/8"	2"-1/2"	1"-1/4"	5/8"	9/16"	5/8"	M16	0.17
SC-5/8-4	5/8"	4"	1"-1/2"	3/4"	1"-3/16"	5/8"	M16	0.37
SC-5/8-6	5/8"	6"	1"-1/2"	7/8"	2"-1/4"	5/8"	M16	0.68
SC-3/4-4	3/4"	4"	1"-1/2"	3/4"	1"-3/16"	3/4"	M18-M20	0.35
SC-3/4-6	3/4"	6"	1"-1/2"	1"	1"-31/32"	3/4"	M18-M20	0.74
SC-3/4-8	3/4"	8"	1"-3/4"	1"-1/8"	2"-3/4"	3/4"	M18-M20	1.44

• 長度單位 Unit of Length (mm)

雙頭壓塊
COLLAR NUT





特點 Feature

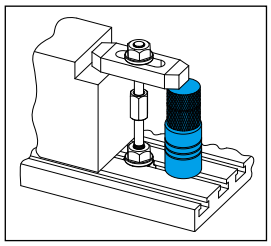
- 可配合千斤頂使用，方便調整高低

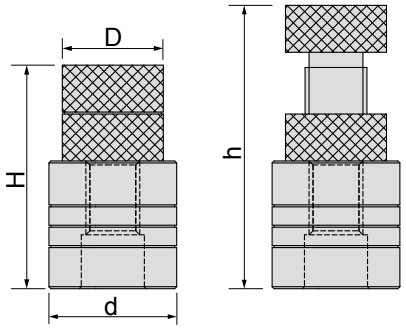
-With the screw jack use, easy to adjust the height.

英制 (inch)

規格 Spec.	d	L	W	H	F	重量 (KGS) Weight
PC-15-2-1/2	15	2"-1/2"	30	13	16	0.25
PC-15-4	15	4"	32	19	31	0.67
PC-15-6	15	6"	32	22	55	1.2
PC-18-2-1/2	18	2"-1/2"	32	16	14	0.31
PC-18-4	18	4"	38	19	30	0.85
PC-18-6	18	6"	38	22	57	1.47
PC-21-4	21	4"	38	19	30	0.75
PC-21-6	21	6"	38	25	50	1.43
PC-21-8	21	8"	44.5	28.5	70	2.82
PC-26-6	26	6"	50	32	39	1.9
PC-26-8	26	8"	50	38	69	2.75
PC-26-10	26	10"	50	38	74	3.8

千斤頂
SCREW JACK





特點 Feature

- 可自由調整高低，承受重量

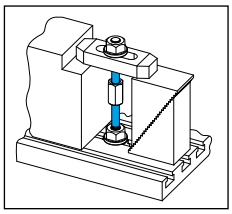
-Freely adjusting the level to withstand the weight.

規格 Spec.	H	D	d	使用範圍 Range (H~h)	重量 (KGS) Weight
S-70	56	25	32	56~75	0.30
S-150	102	40	50	102~160	1.40
S-250	142	45	55	142~235	3.60

• 長度單位 Unit of Length (mm)

AID

雙頭螺絲
DOUBLE-HEADED SCREW



英制 (inch)

規格 Spec.	L	T	重量 (KGS) Weight
O-3/8-3	3"	3/8"-16	0.03
O-3/8-4	4"	3/8"-16	0.04
O-3/8-5	5"	3/8"-16	0.05
O-3/8-6	6"	3/8"-16	0.06
O-3/8-7	7"	3/8"-16	0.07
O-3/8-8	8"	3/8"-16	-
O-1/2-3	3"	1/2"-12	0.06
O-1/2-4	4"	1/2"-12	0.08
O-1/2-5	5"	1/2"-12	0.10
O-1/2-6	6"	1/2"-12	0.12
O-1/2-7	7"	1/2"-12	0.14
O-1/2-8	8"	1/2"-12	0.15
O-5/8-3	3"	5/8"-11	0.09
O-5/8-4	4"	5/8"-11	0.12
O-5/8-5	5"	5/8"-11	0.16
O-5/8-6	6"	5/8"-11	0.19
O-5/8-7	7"	5/8"-11	0.22
O-5/8-8	8"	5/8"-11	0.25
O-5/8-9	9"	5/8"-11	0.28
O-5/8-10	10"	5/8"-11	0.32
O-5/8-12	12"	5/8"-11	0.38
O-5/8-14	14"	5/8"-11	0.52
O-5/8-16	16"	5/8"-11	0.56
O-5/8-18	18"	5/8"-11	0.60
O-5/8-20	20"	5/8"-11	0.64
O-3/4-3	3"	3/4"-10	0.14
O-3/4-4	4"	3/4"-10	0.18
O-3/4-5	5"	3/4"-10	0.23
O-3/4-6	6"	3/4"-10	0.27
O-3/4-7	7"	3/4"-10	0.31
O-3/4-8	8"	3/4"-10	0.36
O-3/4-9	9"	3/4"-10	0.42
O-3/4-10	10"	3/4"-10	0.46
O-3/4-12	12"	3/4"-10	0.54
O-3/4-14	14"	3/4"-10	0.52
O-3/4-16	16"	3/4"-10	0.56
O-3/4-18	18"	3/4"-10	0.60
O-3/4-20	20"	3/4"-10	0.64

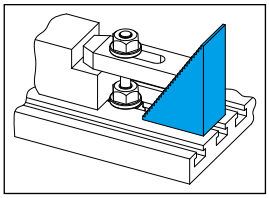
公制 (mm)

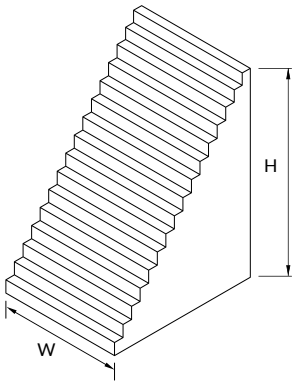
規格 Spec.	L	T	重量 (KGS) Weight
O-M8-3	75	M8-1.25P	0.02
O-M8-4	100	M8-1.25P	0.03
O-M8-5	125	M8-1.25P	0.04
O-M8-6	150	M8-1.25P	0.05
O-M8-7	175	M8-1.25P	0.05
O-M8-8	200	M8-1.25P	0.06
O-M10-3	75	M10-1.5P	0.04
O-M10-4	100	M10-1.5P	0.05
O-M10-5	125	M10-1.5P	0.06
O-M10-6	150	M10-1.5P	0.07
O-M10-7	175	M10-1.5P	0.08
O-M10-8	200	M10-1.5P	0.09
O-M12-3	75	M12-1.75P	0.05
O-M12-4	100	M12-1.75P	0.07
O-M12-5	125	M12-1.75P	0.09
O-M12-6	150	M12-1.75P	0.11
O-M12-7	175	M12-1.75P	0.13
O-M12-8	200	M12-1.75P	0.14
O-M16-3	75	M16-2.0P	0.10
O-M16-4	100	M16-2.0P	0.13
O-M16-5	125	M16-2.0P	0.16
O-M16-6	150	M16-2.0P	0.19
O-M16-7	175	M16-2.0P	0.22
O-M16-8	200	M16-2.0P	0.26
O-M16-9	225	M16-2.0P	0.3
O-M16-10	250	M16-2.0P	0.32
O-M16-12	300	M16-2.0P	0.38
O-M16-14	350	M16-2.0P	0.38
O-M16-16	400	M16-2.0P	0.41
O-M16-18	450	M16-2.0P	0.44
O-M16-20	500	M16-2.0P	0.47
O-M20-3	75	M20-2.5P	0.16
O-M20-4	100	M20-2.5P	0.20
O-M20-5	125	M20-2.5P	0.25
O-M20-6	150	M20-2.5P	0.30
O-M20-7	175	M20-2.5P	0.36
O-M20-8	200	M20-2.5P	0.41
O-M24-3	75	M24-3.0P	0.20
O-M24-4	100	M24-3.0P	0.3
O-M24-5	125	M24-3.0P	0.80
O-M24-6	150	M24-3.0P	1.40
O-M24-7	175	M24-3.0P	2.00
O-M24-8	200	M24-3.0P	2.60

• 長度單位 Unit of Length (mm)

AID

級枕
UNIVERSAL STEP BLOCK





特點 Feature

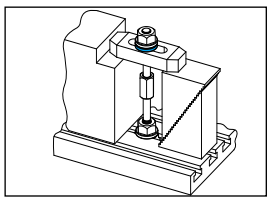
- 可配合壓板使用，方便調整高低

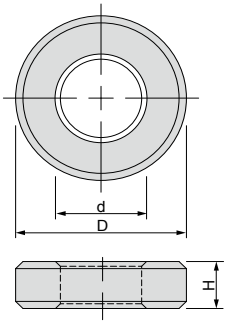
- With the step clamp use, easy to adjust the height.

英制 (inch)

規格 Spec.	適用夾具 Suitable fixture	H	w	重量 (KGS) Weight
1-1¼	3/8"	1"-1/4"	1"	0.06
1-1¾	3/8"	1"-3/4"	1"	0.14
1-3⅞	3/8"	3"-7/8"	1"	0.58
1¼-1¼	1/2" · 5/8"	1"-1/4"	1"-1/4"	0.08
1¼-1¾	1/2" · 5/8"	1"-3/4"	1"-1/4"	0.16
1¼-3⅞	1/2" · 5/8"	3"-7/8"	1"-1/4"	0.75
1½-2½	3/4"	2"-1/2"	1"-1/2"	0.38
1½-3⅞	3/4"	3"-7/8"	1"-1/2"	0.39
1½-5½	3/4"	5"-1/2"	1"-1/2"	1.24

墊圈
WASHER





特點 Feature

- 可配合螺帽使用，方便做高低或延長的調整

-With the nut use, easy to adjust the height or extension.

規格 Spec.	型 式 Type		d	D	H	重量 (KGS) Weight
	英制 (inch)	公制 (mm)				
W-3	3/8"	M10	10.3	22	4	0.01
W-4	1/2"	M12	13	30	6	0.03
W-5	5/8"	M16	16.5	35	10	0.06
W-6	3/4"	M20	20.5	38	10	0.06

• 長度單位 Unit of Length (mm)

AID

LM-SG 快速鑽頭研磨機
LM-SG PORTABLE DRILL BIT RESHARPENING MACHINE

LM-SG-213

標準附件 Standard mating parts

- ER 筒夾 2.5、3、4、5、6、7、8、9、10、11、12、13mm 共 12pcs
- CBN 鑽石砂輪 #200x1pcs(HSS 鑽頭專用)
  砂輪規格 :LM-GW-B200(B)
- 六角扳手 4mmx5mm 各 1pcs
- ER collets 2.5 , 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13mm, 12pcs in total.
-CBN Diamond Wheel #200*1pc (For HSS drill use).
  Wheel spec: LM-GW-B200(B)
-Hex wrench 4mm*5mm 1pc of each

特殊附件 Special purpose mating parts

-SDC 鑽石砂輪 #400(鎢鋼鑽頭專用)
 砂輪規格 :LM-GW-S400(C)
-CBN 鑽石砂輪 #400(4mm 以下 HSS 鑽頭專用)
 砂輪規格 :LM-GW-B400(A)
-ER 筒夾 2.5，3.5mm~12.5mm 11pcs
-SDC diamond wheel#400 (for tungsten steel drill use)
 Wheel spec.: LM-GW-S400(C)
-CBN diamond wheel#400 (for use on below 4mm HSS drill use)
 Wheel spec.: LM-GW-B400(A)
-ER Collet 2.5, 3.5~12.5mm, 11pcs in total

標準附件 Standard mating parts

- ER 筒夾 12、13、14、15、16、17、18、19、20、21、22、23、 24、25、26mm 共 15pcs
- CBN 鑽石砂輪 #200x1pcs(HSS 鑽頭專用)
  砂輪規格 :LM-GW-B150(J)
- 六角扳手 4mmx5mm 各 1pcs
- ER collets 12 , 13 , 14 , 15 , 16 , 17 , 18 , 19 , 20 , 21 , 22 , 23mm, 24mm , 25mm , 26mm, 15pcs in total.
-CBN Diamond Wheel #200*1pc (For HSS drill use).
  Wheel spec: LM-GW-B150(J)
-Hex wrench 4mm*5mm 1pc of each

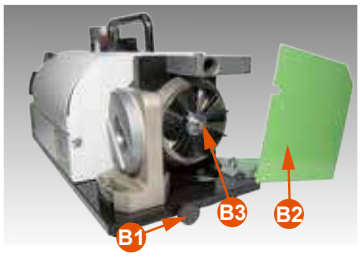
特殊附件 Special purpose mating parts

-SDC 鑽石砂輪 #200(鎢鋼鑽頭專用)
 砂輪規格 :LM-GW-S200(K)
-ER 筒夾 8~12mm，26~30mm
-SDC diamond wheel #200 (for tungsten steel drill use)
 Wheel spec.: LM-GW-S200(K)
-ER Collet 8~12mm, 26~30mm

更換鑽石砂輪步驟

1. 將本機右側旋扭 B1 鬆開，並將側蓋 B2 掀開
2. 用4mm六角扳手逆時鐘方向將螺絲 B3 掀開
3. 更換新鑽石砂輪，再將螺絲鎖上即可
4. 將側蓋 B2 蓋好，並將旋扭 B1 鎖緊

注意! 鑽石砂輪螺絲 B3 未鎖緊，側蓋 B2 未蓋好旋扭 B1 未鎖緊前，不可將電源打開，以免發生危險



Procedures for changing the grinding wheel

1. Loosen the side knob B1 and open the side cover B2.
2.Use a 4mm hexagon wrench to loosen the screw B3,unscrew it counter-clockwise.
3.Replace a new diamond grinding wheel and tighten the screw after the wheel is installed.
4.Be sure to close the side cover B2 and fasten the side knob B1 properly.

Attention!

1.Please make sure that the diamond wheel screw B3 is tightened, the side cover B2 is properly closed, and the side knob is fastened before turning ON the machine, in order to prevent any hazard from occurring.
2.The machine has an automatic 'power-off' device that will automatically turn the machine off when the cover is opened.

規格 Spec.	研磨範圍 Drill Diameter	先端角 Point Angle	電源 Power	馬達 Motor	轉速 rpm	重量 (KGS) Weight
LM-SG-213	Ø2~Ø13	85°~140°	AC110AC220V(⍰⍰)	200W	6000	9.00
LM-SG-830	Ø8~Ø30	85°~140°	AC110AC220V(⍰⍰)	450W	4000	27.0

• 長度單位 Unit of Length (mm)

AID

LM-SG 快速端銑刀研磨機
LM-SG PORTABLE END MILL RESHARPENING MACHINE

LM-SG-413

LM-SG-1225

標準附件 Standard mating parts

- 一組電源線
- 二支保險絲
- ER 筒夾 4、5、6、7、8、9、10、11、12、13mm 共 10pcs
- 2、3、4 刃夾頭各一組
- SDC 鑽石砂輪 #270(Ø4~5mm 專用)　砂輪規格 :LM-GW-S300(E)
- SDC 鑽石砂輪 #270(Ø6~13mm 專用) 砂輪規格 :LM-GW-S300(G)
- 一隻六角扳手 4mm
- A set of power line
- Two fuses
- ER collets 4, 5, 6, 7, 8, 9, 10, 11, 12, 13mm, 10pcs in total
- 2, 3, 4 chuck for flutes, a set of each
- SDC diamond wheel#270 (for use on dia.4~5mm)
  Wheel spec.: LM-GW-S300(E)
- SDC diamond wheel#270 (for use on dia.6~13mm)
  Wheel spec.: LM-GW-S300(G)
- An allen wrench of 4mm

特殊附件 Special purpose mating parts

- CBN 鑽石砂輪 #270(Ø4~6mm 專用)　砂輪規格 :LM-GW-B300(D)
- CBN 鑽石砂輪 #270(Ø6~13mm 專用) 砂輪規格 :LM-GW-B300(F)
- CBN diamond wheel#270 (for use on dia.4~6mm)
  Wheel spec.: LM-GW-B300(D)
- CBN diamond wheel#270 (for use on dia.6~13mm)
  Wheel spec.: LM-GW-B300(F)

標準附件 Standard mating parts

- 一組電源線
- 一支保險絲
- ER 筒夾 12、16、18、20、22、25mm 共 6pcs
- 2、3、4 刃夾頭各一組
- CBN 鑽石砂輪 #150(Ø12~25mm HSS 鑽頭專用) 砂輪規格 :LM-GW-B150(R)
- SDC 鑽石砂輪 #150(Ø12~25mm 鎢鋼鑽頭專用) 砂輪規格 :LM-GW-S150(S)
- 一隻六角扳手 4mm
- A set of power line
- One fuse
- ER collets 12, 16, 18, 20, 22, 25mm, 6pcs in total
- 2, 3, 4 chuck for flutes, a set of each
- CBN diamond wheel#150 (use on dia.12~25mm HSS Drill)
  Wheel spec.: LM-GW-B150(R)
- SDC diamond wheel#150(use on dia.12~25mm Tungsten steel Drill)
  Wheel spec.: LM-GW-S150(S)
- An allen wrench of 4mm

特殊附件 Special purpose mating parts

- CBN 鑽石砂輪 #150(2 刃專用)　砂輪規格 :LM-GW-B150(R)-2T
- SDC 鑽石砂輪 #150(2 刃專用) 砂輪規格 :LM-GW-S150(S)-2T
- ER40-32mm 筒夾 /C32-16、20、25mm 筒夾
- CBN diamond wheel#150 (use on 2T)
  Wheel spec.: LM-GW-B150(R)-2T
- SDC diamond wheel#150 (use on 2T)
  Wheel spec.: LM-GW-S150(S)-2T
- ER40-32mm collet / C32-16, 20, 25mm collet

規格 Spec.	研磨範圍 Drill Diameter	先端角 Point Angle	電源 Power	馬達 Motor	轉速 rpm	重量 (KGS) Weight
LM-SG-413	Ø4~Ø13	???6° ???20° ???30°	AC110 AC220V 50/60Hz	3/4HP 450W	6000	17.0
LM-SG-1225	Ø12~Ø25			1000W	4300	31.0

• 長度單位 Unit of Length (mm)

AID

LM-SG-SD 快速鑽頭研磨機
LM-SG-SD PORTABLE DRILL BIT RESHARPENING MACHINE

SG7572P 短刃鑽頭專用研磨機
SG7572P Duanren special drill grinding machine
SG-ESS Drills ドリル

標準附件 Standard mating parts

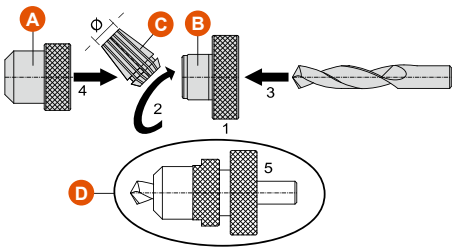
- 一組電源線
- 一組保險絲
- PER20 筒夾 3、4、5、6、7、8、9、10、11、12 共 10pcs(後夾型)
  ER20 筒夾 13 共 1pcs(標準型)
- ER20 夾頭一組
- CBN 鑽石砂輪 #250　砂輪規格 :LM-GW-B250(T)
- CBN 鑽石砂輪 #400　砂輪規格 :LM-GW-B400(M)
- 六角扳手 4mm、5mm 各一支

-A set of power line
-One fuse
-PER20 collets 3, 4, 5, 6, 7, 8, 9, 10, 11, 12mm, 10pcs in total (rear clamping)ER20 collet 13, 1pc (standard)
-ER20 chuck a set
-CBN diamond wheel#250 Wheel spec.: LM-GW-B250(T)
-CBN diamond wheel#400 Wheel spec.: LM-GW-B400(M)
-An allen wrench of 4mm, & 5mm. 1pc of each

特殊附件 Special purpose mating parts

-ER20 筒夾 3.5、4.5、5.5、6.5、7.5、8.5、9.5、10.5、11.5、12.5 共 10pcs
-SDC 鑽石砂輪 #300
砂輪規格 :LM-GW-S300(N)
-ER20 collet 3.5, 4.5, 5.5, 6.5, 7.5, 8.5, 9.5, 10.5, 11.5, 12.5, 10pcs in total.
-SDC diamond wheel#300
Wheel spec.: LM-GW-S300(N)

如何完成鑽頭研磨前準備
How to prepare for drill grinding



一. 鑽頭研磨前準備步驟 Procedures for changing the grinding wheel:

1. 首先確認鑽頭直徑，再選擇筒夾 C 直徑
2. 將選擇的筒夾以適當角度崁入筒夾迫緊帽內 B
3. 鑽頭插入筒夾內，並伸出約35mm左右，但不可鎖緊
4. 筒夾環 A 套入筒夾 C 並鎖入筒夾迫緊帽 B 然後輕輕鎖入並保持鑽頭可用手旋轉
5. 以上步驟即完成鑽頭研磨前準備 D

1.Choose a collet accordingly to C the diameter of the drill.
2.Insert the chosen collet into the collet holder B at an appropriate angle.
3.Insert the drill through the holder with the tip protruding by 35mm, but do not tighten.
4.Connect the collet nut A to the collet C which is locked into the collet holder B ,then slowly tighten it making sure that you can still turn the drill with your hands.
5.Complete the steps 1 to 4 accordingly for grinding.

二. 更換鑽石砂輪步驟 Procedures for changing the grinding wheel:

1. 將本機 B1 螺絲全鬆開取下，並將砂輪蓋 B2 掀開
2. 用4mm六角扳手逆時鐘方向將螺絲 B3 鬆開
3. 更換新鑽石砂輪，再將螺絲鎖上即可
4. 將砂輪蓋 B2 蓋上，並將螺絲 B1 鎖緊

注意! 鑽石砂輪螺絲 B3 未鎖緊，砂輪蓋 B2 未蓋好，螺絲 B1 未鎖緊前，不可將電源打開，以免發生危險

1. Loosen the side knob B1 and open the side cover B2.
2.Use a 4mm hexagon wrench to loosen the screw B3,unscrew it counter-clockwise.
3.Replace a new diamond grinding wheel and tighten the screw after the wheel is installed.
4.Be sure to close the side cover B2 and fasten the side knob B1 properly.

Attention!
1.Please make sure that the diamond wheel screw B3 is tightened, the side cover B2 is properly closed, and the side knob is fastened before turning ON the machine, in order to prevent any hazard from occurring.
2.The machine has an automatic 'power-off' device that will automatically turn the machine off when the cover is opened.

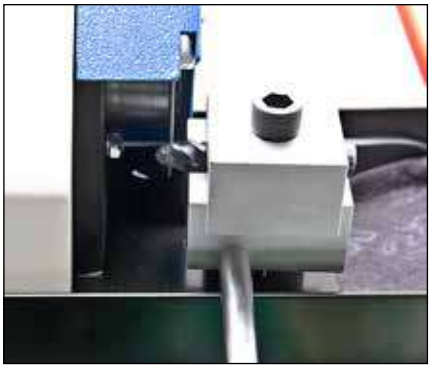
規格 Spec.	研磨範圍 Drill Diameter	先端角 Point Angle	電源 Power	馬達 Motor	轉速 rpm	重量 (KGS) Weight
LM-SG-313-SD	Ø3~Ø13	135°	AC110 AC220V 50/60Hz	200W	4500	12.85

• 長度單位 Unit of Length (mm)

AID

LM-SG 圓棒切斷研磨機
LM-SG PORTABLE ROUND BAR RESHARPENING MACHINE

範例 Example



標準附件 Standard mating parts

- 一組電源線
- 兩組保險絲
-SDC 鑽石砂輪 #100
  砂輪規格 :LM-GW-S100 (X)(鎢鋼專用)
- 六角扳手 4mm、5mm、10mm 各一支
- 一組握把
-A set of power line
-Two fuses
-SDC diamond wheel#100
  Wheel spec.: LM-GW-S100(X)(For tungsten use)
-An allen wrench of 4mm, 5mm,10mm. 1pc of each
-A set of handle

特殊附件 Special purpose mating parts

-CBN 鑽石砂輪 #100
  砂輪規格 :LM-GW-B100(Y) HSS 專用

-CBN diamond wheel#100
  Wheel spec.: LM-GW-B100(Y) (For HSS use).

選配表 Option

- 水箱 : LM-SG-316-WB
-Water box: LM-SG-316-WB

範例 Example

規格 Spec.	切斷範圍 Cut Range	電源 Power	馬達 Motor	轉速 rpm	重量 (KGS) Weight
LM-SG-316	3mm~16mm	AC110 AC220V 50/60Hz	600w	6000	13.5

• 長度單位 Unit of Length (mm)

AID

全球共28

台灣 Taiwan

台灣總公司 Head Office | 台中市清水區五權路232號
E-mail: info@chainheadway.com
No. 232, Wuquan Rd., Qingshui Dist., Taichung City 436, Taiwan
電話Tel：+886-4-26265252　傳真Fax：+886-4-26267941

台北分公司 Taipei Branch
電話Tel：+886-2-29788234　傳真Fax：+886-2-29788250

台中分公司 Taichung Branch
電話Tel：+886-4-22809292　傳真Fax：+886-4-22801909

豐原營業所 Feng Yuan Branch
電話Tel：+886-4-25237272　傳真Fax：+886-4-25233232

竹苗營業所 Miao Li Branch
電話Tel：+886-3-7462992　傳真Fax：+886-3-7462248

台南分公司 Tainan Branch
電話Tel：+886-6-2706525　傳真Fax：+886-6-2706527

彰化分公司 Changhua Branch
電話Tel：0937 232987

菲律賓Philippines

菲律賓分公司 Philippines Branch Office
2F RM# 7 BLK 1 LOT 50 SUGAR RD., CITYLAND SUBDIVISION
BRGY. MABUHAY, CARMONA, CAVITE, PHILIPPINES, 4116
電話Tel：(0917) 583 2702
信箱Mail：sales.ph@chainheadway.com

印度India

印度清奈分公司 Chennai Branch Office
52, 49a, Dhanakotti Raja St, Ekkatuthangal, Chennai, Tamil Nadu
600032, India
電話Tel：+91-9884761375/ +91-8012233925
信箱Mail：sales.in@chainheadway.com

印尼Indonesia

印尼分公司 PT. Jaya Chain Headway
Jl.Cisokan 5 Plot 5B-1A , EJIP Cikarang Selatan – Bekasi 17530
電話Tel：+62 21 8970433/ +62 21 8970434
信箱Mail：arief@jaya-chain.com

球服務據點

正河源總公司

大陸China

中國大陸營運本部 China Head Office
中國江蘇省昆山市陸豐東路模具城J區12號樓
電話Tel：0512-57874601　傳真Fax：0512-57874602

南京 Nanjing
電話Tel：025-85345030　傳真Fax：025-85345031

淮安 Huai'an
電話Tel：0517-86217575　傳真Fax：0517-86217272

東莞 Dongguan
電話Tel：0769- 85309396　傳真Fax：0769-85316029

重慶 Chongqing
電話Tel：023-68850991

北京 Beijing
電話Tel：010-84725668

崑山銷售中心 Sales Service Support Center
電話Tel：0512-57874530　傳真Fax：0512-57079669

廈門 Xiamen
電話Tel：0592-5653670　傳真Fax：0592-5653663

佛山 Foshan
電話Tel：18002723856

天津 Tianjin
電話Tel：022-84810220　傳真Fax：022-84810219

武漢 Wuhan
電話Tel：027-87395596

鄭州 Zhengzhou
電話Tel：0371-55932775

大連 Dalian
電話Tel：0411-84357476　傳真Fax：0411-84357478

瀋陽 Shengyang
電話Tel：024-23196266　傳真Fax：024-23196266

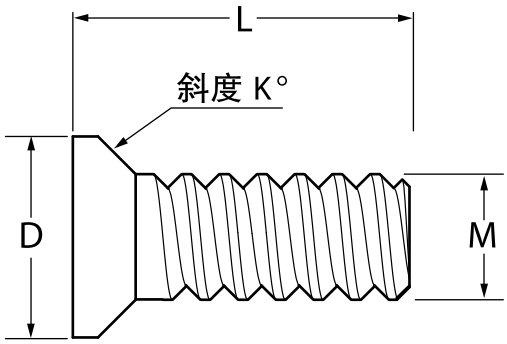
青島 Qingdao
電話Tel：0532-83027701　傳真Fax：0532-83027701

煙台 Yantai
電話Tel：0535-4911722　傳真Fax：0535-4911722

濟南 Jinan
電話Tel：0531-61364589　傳真Fax：0531-61364589

成都 Chengdu
電話Tel：18960611190　傳真Fax：028-61668132

螺絲規格示意圖
SCREW TYPE SCHEMATIC DRAWING

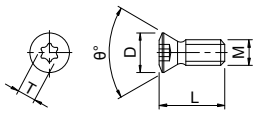


刀具代號	M	L	D
	-M1.8	-	
	-M2.0	-	
	-M2.5	-	
	-M3	-	
	-M3.5	-	
	-M4	-	
	-M4.5	-	
	-M5	-	
	-M6	-	

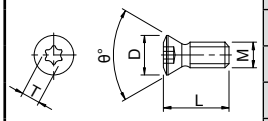
本公司螺絲採用特殊鋼製造強化螺絲鋼性，螺絲斜度 W 採用車加工，穩定刀片及刀具鎖緊。

PS. 採用本公司專用螺絲，刀片壽命增加。

刀具零件尺寸表
CUTTING TOOL SPARE PARTS

圖型 Drawing	規格 Spec.	尺寸 (mm)				
		M	L	D	θ	T
	M1.8-3.8-2.4-60	M1.8	3.8	2.4	60	T6
	M1.8-4.0-2.5-54	M1.8	4.0	2.5	54	T6
	M1.8-3.9-2.45-60-TP6-EU	M1.8	3.9	2.45	60	TP6-EU
	M2-3.8-2.68-43	M2	3.8	2.68	43	T6
	M2-4.3-2.7-60-T6-TIN	M2	4.3	2.7	60	T6
	M2-5.0-2.6-60	M2	5.0	2.6	60	T6
	M2-5.0-2.7-60	M2	5.0	2.7	60	T6
	M2.2-4.7-3.1-60	M2.2	4.7	3.1	60	T7
	M2.2-5.2-3.1-60-T7-TIN	M2.2	5.2	3.1	60	T7
	M2.2-5.5-3.4-60	M2.2	5.5	3.4	60	T7
	M2.2-4.7-3.1-60	M2.2	4.7	3.1	60	T7
	M2.5-5.0-3.7-43	M2.5	5.0	3.7	43	T8
	M2.5-5.5-3.35-60	M2.5	5.5	3.35	60	T8
	M2.5-6.0-3.5-60	M2.5	6.0	3.5	60	T8
	M2.5-6.3-3.7-43-T8-TIN	M2.5	6.3	3.7	43	T8
	M2.5-6.33-3.5-48-T8-TIN	M2.5	6.33	3.5	48	T8
	M2.5-6.0-3.5-60	M2.5	6.0	3.6	60	T8
	M2.5-6.45-3.7-43	M2.5	6.45	3.7	43	T8
	M2.5-8.0-3.5-60-T8	M2.5	8.0	3.5	60	T8
	M3-3.5-5.0-90	M3	3.5	5.0	90	T7
	M3-4.3-5.0-90	M3	4.3	5.0	90	T7
	M3-6.0-3.7-43	M3	6.0	3.7	43	T10
	M3-8.0-4.0-43	M3	8.0	4.0	43	T9
	M3-7.5-4.2-53	M3	7.5	4.2	53	T9
	M3-8.0-4.4-60	M3	8.0	4.4	60	T9
	M3.5-6.0-5.0-60	M3.5	6.0	5.0	60	T15
	M3.5-6.2-5.0-60	M3.5	6.2	5.0	60	T15
	M3.5-7.5-5.1-60	M3.5	7.5	5.1	60	T15
	M3.5-7.6-5.1-60	M3.5	7.6	5.1	60	T15
	M3.5-8.0-5.0-60	M3.5	8.0	5.0	60	T15
	M3.5-8.0-5.5-60	M3.5	8.0	5.5	60	T15
	M3.5-8.4-5.0-60-T10-TIN	M3.5	8.4	5.0	60	T10
	M3.5-9.0-5.3-60	M3.5	9.0	5.3	60	T15
	M3.5-10-5.2-43-T15-TIN	M3.5	10	5.2	43	T15
	M3.5-11.7-5.3-60	M3.5	11.7	5.3	60	T15
	M3.5-12.0-5.4-67	M3.5	12.0	5.4	67	T15
	M4-5.0-6.2-90	M4	5.0	6.2	90	T15
	M4-7.8-5.6-60	M4	7.8	5.6	60	T15
	M4-7.1-13.6-60	M4	7.1	13.6	60	T15
	M4-8.0-5.0-43	M4	8.0	5.0	43	T15
	M4-8.0-5.7-60	M4	8.0	5.7	60	T15

刀具零件尺寸表
CUTTING TOOL SPARE PARTS

圖型 Drawing	規格 Spec.	尺寸 (mm)				
		M	L	D	θ	T
	M4-8.0-5.7-60	M4	8.0	5.7	60	T15
	M4-8.2-6.2-90	M4	8.2	6.2	90	T15
	M4-8.75-5.6-60	M4	8.8	5.4		T15
	M4-8.75-5.6-60	M4	8.75	5.6	60	T15
	M4-9.35-5.65-60-T15-TIN	M4	9.35	5.65	60	T15
	M4-9.5-5.5-55	M4	9.5	5.5	55	T15
	M4-10-5.0-43	M4	10	5.0	43	T15
	M4-10-5.7-60	M4	10	5.7	60	T15
	M4-11-6.2-90-T15-TIN	M4	11	6.2	90	T15
	M4-13-5.2-43-T15-TIN	M4	13	5.2	43	T15
	M5-10-6.3-43	M5	10	6.3	43	T20
	M5-11-6.4-43	M5	11	6.4	43	T20
	M5-11-7.0-55	M5	11	7.0	55	T20
	M5-11-7.5-60	M5	11	7.5	60	T20
	M5-12.8-7.0-60-T20-TIN	M5	12.8	7.0	60	T20
	M5-14-7.0-43	M5	14	7.0	43	T20
	M6-12-8.4-60	M6	12	8.4	60	T25

刀具零件尺寸表
CUTTING TOOL SPARE PARTS

圖型 Drawing	規格 Spec.	尺寸 (mm)				
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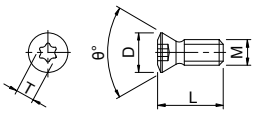
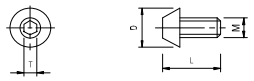
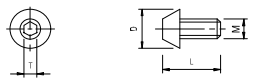
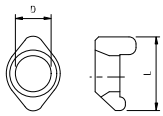
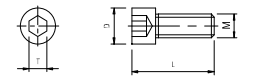
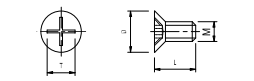
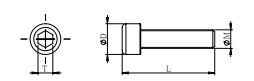
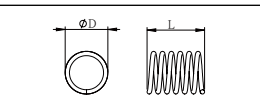
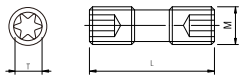
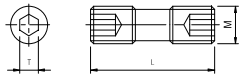
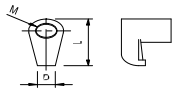
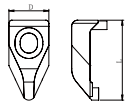
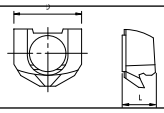
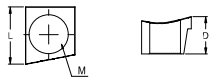
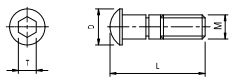
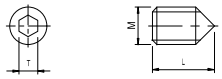
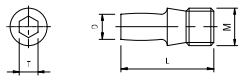
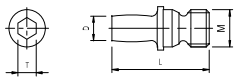
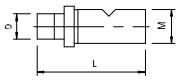
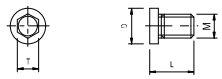
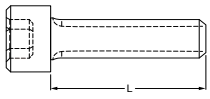
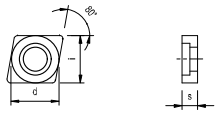
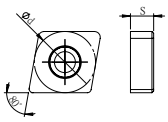
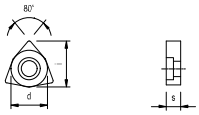
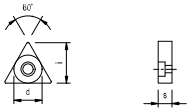
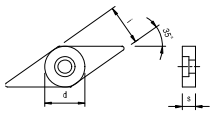
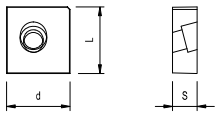
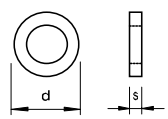
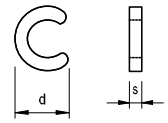
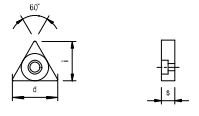
	M3-7.0-4.0(BR4)	M3	7	4	-	T8
	M4-8.5-6.0(BR5)	M4	8.5	6	-	T15
	M5-9.0-6.7(BR6)	M5	9	6.7	-	T20
	M5-12.5-7.5(BR8)	M5	12.5	7.5	-	T20
	M5-15.4-8(BR10)	M5	15.4	8	-	T20
	M6-20-9.5(BR12.5)	M6	20	9.5	-	T30
	M8-24.5-12(BR16)	M8	24.5	12	-	T30
	M2-6.5-3.1(RG-M8)	M2	4.5	3.1	-	T6
	M2.5-7.3-4.0(RG-M10)	M2.5	7.3	4	-	T7
	M3.5-9.0-5.3(RG-M12)	M3.5	9	5.3	-	T10
	M4-12-6.5(RG-M16)	M4	12	6.5	-	T15
	M5-15-7.5(RG-M20)	M5	15	7.5	-	T20
	M5-19.9-7.5(RG-M25)	M5	19.9	7.5	-	T20
	M5-0.8P	M5	13	9.5	-	T15
	M5-0.8P-16L	M5	16	9.3	-	PL3.5
	M6-0.75P	M6	17.2	13	-	P4
	M6-U1/4-28P	M6	17.3	13	-	P4
	M8-1.0P	M8	21.2	17	-	P5
	M8-U5/16-24P	M8	21.2	17	-	P5
	BH-M8-20	M8	20	13.7	-	P5
	BH-M8-22	M8	22	13.7	-	P5
	GR-4R.5R(HR-5R)	-	10.2	3.8	-	-
	GR-6R.8R(HR-6R)	-	13	5.3	-	-
	HTM309	M3	8.9	5.4	-	P2.5
	SH-M5-21	M5	21	8.5	-	P4
	SH-M6-20	M6	20	10	-	P5
	SH-M6-25	M6	25	10	-	P5
	ASP2	M4	10	5	-	P2.5
	TAP2	M4	8	7	-	#1
	M5-0.8P-25L	M5	25	8.3	-	P4
	DCS-2	-	10	8	-	-

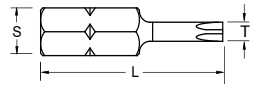
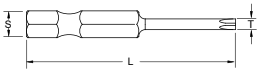
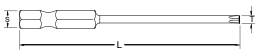
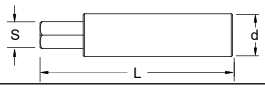
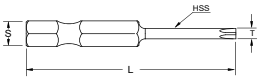
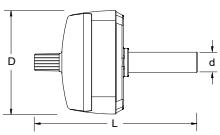
刀具零件尺寸表
CUTTING TOOL SPARE PARTS

圖型 Drawing	規格 Spec.	尺寸 (mm)				
		M	L	D	θ	T
	MS520	M5	20	-	-	T10
	MS620	M6	20	-	-	P3
	MS625	M6	25	-	-	P3
	MS630	M6	30	-	-	P3
	ASP1	M5/16-24	16.3	-	-	P4
	MC515	M5	14.7	4	-	-
	MC620	M6	18.6	4	-	-
	MC622	M6	21.5	4.8	-	-
	DCP-1	-	26	13	-	-
	DCP-2	-	26	13	-	-
	MCW3	-	10	13.7	-	-
	ASP3	M5/16-24	15	9.7	-	-
	MCS3	M5	24.5	10	-	P4
	MCS3S-09	M6	9	-	-	P3
	MCS3S-11	M6	11	-	-	P3
	MLP33L	M5	10.4	-	-	P2
	MLP34L	M5	13.1	-	-	P2
	MLP44	M6.3	13.2	-	-	P2.5
	MLP46	M6.3	17.2	-	-	P2.5
	MCP3	5	15	3.7	-	-
	MDS053512	M5	8.65	6.3	-	P3.5
	MDS05035	M5xP0.5	7.0	6.3	-	P3.5
	FMA-1231-CB	-	31.75	-	-	FMA25.4、FMA31.75
	FMA-5838-CB	-	38.1	-	-	FMA38.1
	FMB-1035-CB	-	35	-	-	FMB22
	FMB-1230-CB	-	30	-	-	FMB27
	FMB-1240-CB	-	40	-	-	FMB32
	FMB-1645-CB	-	45	-	-	FMB40

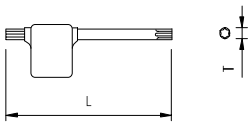
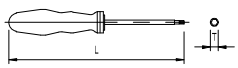
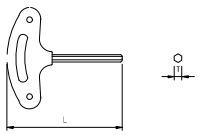
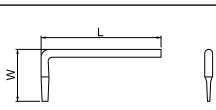
刀具零件尺寸表
CUTTING TOOL SPARE PARTS

圖型 Drawing	規格 Spec.	尺寸 (mm)			
		d	i	s	r
	CMS432	12.5	12.5	4.8	-
	CNS1204	12.57	-	4.76	-
	WMS432	12.2	15	4.8	-
	TMS322	9.1	12.9	3.2	-
	TWS322	8.9	12.4	3.2	-
	VSS322	8.4	8.4	3.2	-
	VMS322	9.2	9.2	3.2	-
	GXE16	9.5	13.1	3.2	-
	GXN16	9.5	13.1	3.2	-
	ASP4	14.6	15.2	5.8	-
	E5	11	-	0.5	-
	E4	7.4	-	0.5	-
	TAP3	17.55	-	3.13	-

刀具零件尺寸表
CUTTING TOOL SPARE PARTS

圖型 Drawing	規格 Spec.	尺寸 (mm)				
		L	D	d	S	T
	BIT-T5-25L	25	-	-	1/4"	T5
	BIT-T6-25L		-	-		T6
	BIT-T7-25L		-	-		T7
	BIT-T8-25L		-	-		T8
	BIT-T9-25L		-	-		T9
	BIT-T10-25L		-	-		T10
	BIT-T15-25L		-	-		T15
	BIT-T20-25L		-	-		T20
	BIT-T5-50L	50	-	-	1/4"	T5
	BIT-T6-50L		-	-		T6
	BIT-T7-50L		-	-		T7
	BIT-T8-50L		-	-		T8
	BIT-T9-50L		-	-		T9
	BIT-T10-50L		-	-		T10
	BIT-T15-50L		-	-		T15
	BIT-T20-50L		-	-		T20
	BIT-T25-50L					T25
	BIT-T10-100L	100	-	-	1/4"	T10
	BIT-T15-100L		-	-		T15
	BIT-T20-100L		-	-		T20
	BIT-P4-100L		-	-		P4
	BIT-P5-100L		-	-		P5
	BIT-P6-100L		-	-		P6
	BIT-P8-100L		-	-		P8
	BIT-P10-100L		-	-		P10
	BIT-1/4"-50L	45	-	10	1/4"	-
	BIT-T5-55L-HSS	55	-	-	1/4"	T5
	BIT-T6-55L-HSS		-	-		T6
	BIT-T7-55L-HSS		-	-		T7
	BIT-T8-55L-HSS		-	-		T8
	BIT-T9-55L-HSS		-	-		T9
	BIT-T10-56L-HSS	56	-	-		T10
	BIT-T15-56L-HSS		-	-		T15
	BIT-T20-56L-HSS		-	-		T20
	TW-05	76.25	52	10	-	T5
	TW-06					T6
	TW-09					T7
	TW-12					T8
	TW-14					T9
	TW-20					T10
	TW-30					T15
	TW-50					T20
	TW-60-SB	64.5	80.5	12	-	P5
	TW-80-SB					T25/P6
	TW-120-SB					P8

刀具零件尺寸表
CUTTING TOOL SPARE PARTS

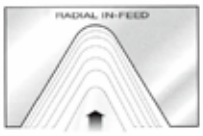
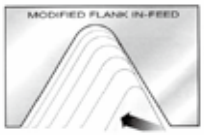
圖型 Drawing	規格 Spec.	尺寸 (mm)				
		L	D	d	W	T
	T6	83	-	-	-	T6
	T7		-	-	-	T7
	T8		-	-	-	T8
	T9		-	-	-	T9
	T10		-	-	-	T10
	T15	86.5	-	-	-	T15
	T20		-	-	-	T20
	T5K	120	-	-	-	T5
	T6K	130	-	-	-	T6
	T7K	140	-	-	-	T7
	T8K	150	-	-	-	T8
	T9K	165	-	-	-	T9
	T10K		-	-	-	T10
	T15K	190	-	-	-	T15
	T20K	195	-	-	-	T20
	PL1.5	46	-	-	-	P1.5
	PL2	50	-	-	-	P2
	PL2.5	56	-	-	-	P2.5
	PL3	63	-	-	-	P3
	PL3.5	70	-	-	-	P3.5
	PL4		-	-	-	P4
	PL5	80	-	-	-	P5
	PL6	90	-	-	-	P6
	PL8		-	-	-	P8
	PT2	99	-	-	-	P2
	PT2.5		-	-	-	P2.5
	PT3		-	-	-	P3
	PT4		-	-	-	P4
	PT5		-	-	-	P5
	PT6		-	-	-	P6
	PT8	107	-	-	-	P8
	DW-70	80	-	-	27	-

螺絲車削分刀對照建議表

	Threads Per Inch 每英制牙數 (T.P.I) Pitch 節距 (mm)		24 1	20 1.25	16 1.5	14 1.75	12 2	10 2.5	8 3
ISO 分類	Material 加工材質	Material Strengh 工件抗拉強度	分刀量						
P	Unalloyed Steels 非合金鋼類	<600N/mm2 <950N/mm2	4-5	5-6	6-7	7-8	7-8	8-9	10-11
			4-6	5-7	7-8	7-9	7-9	9-10	11-12
	Alloyed Steels 合金鋼類	700~950N/mm2 950~1200N/mm2 1200~1400N/mm2	4-6	5-7	7-8	7-9	7-9	9-10	11-12
			5-6	6-9	7-10	8-10	8-10	10-12	12-14
			5-6	6-9	7-10	8-12	8-12	12-14	13-16
M	Stainless Steels 不鏽鋼類	沃斯系 + 肥粒系	4-6	5-7	7-8	8-9	8-9	10-13	12-15
		麻田散系	5-6	6-9	7-10	8-10	8-10	9-11	9-12
		析出強化系	5-8	6-10	7-12	8-11	8-11	9-12	10-14
K	Cast Iron 鑄鐵類	灰鑄鐵 延性鑄鐵 展性鑄鐵	4-6	5-7	7-8	8-11	8-11	10-14	12-16
			4-8	5-9	7-10	8-11	8-11	8-14	10-16
N	Aluminum & Al 鋁及鋁合金	<16% 含矽量 >16% 含矽量	4-6	5-7	7-10	8-11	8-11	8-14	10-16
S	Superalloy 高溫合金	鐵基合金 鈷基合金	4-6	5-7	7-8	8-10	8-10	9-11	9-12
		鎳基合金 鈦基合金	5-6	6-9	7-10	8-11	8-11	9-12	10-14
H	Hard Material 高硬度材	HRC 48~52 HRC 52~56	6-8	6-10	7-12	9-12	9-12	12-14	14-16
			6-8	6-10	7-12	9-12	9-12	12-14	14-16

Recommend Number of Passes		
Threading Pitch(mm)	Threading T.P.I	Recommend NO:of Passes
0,5	48	4-6
1,0	24	4-8
1,25	20	5-10
1,5	16	6-12
2	12	7-12
3	8	9-16
4	6	11-18
5	5	12-20
6	4	12-22
8	3	15-24

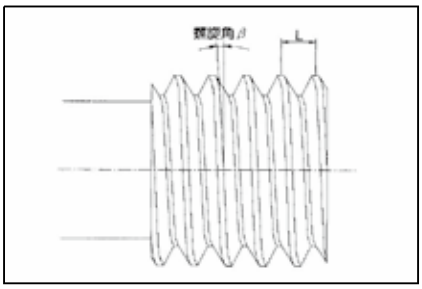
螺紋的切削方式

徑向進刀法	Radial In-Feed	A	適合螺距 1.5mm 或是 16T.P.I 以內使用
		B	因切入方向問題會有切屑排除不易的情形
		C	刀片的前緣與後沿的磨耗較一致性
		D	適用於加工硬度高或短屑片的材質
		E	加工面後沿可以得到較好的表面光滑
斜向進刀法	Modified Flank In-feed	A	適合大螺距 4mm 使用以上，並可降低切削阻力
		B	切削第 2 刀開始只有單邊切削
		C	刀片磨耗集中在有切削的一端
		D	屑片會從切邊遠離
		E	此法可降低切削噪音
雙向進刀法	Alternating Flank In-feed	A	適合大螺距，專用於 ACME 螺紋或其他梯型螺紋
		B	用於易生加工硬化的材質
		C	工作屑片長或不易斷屑的情形使用
		D	切削所生阻力較小
		E	磨耗會集中於刀片前緣

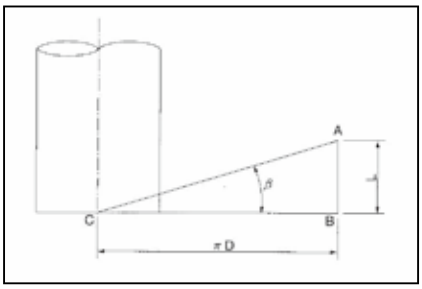
螺紋的螺旋角：螺紋的螺旋角 β 是由被加工件的節徑、導程來決定

$$\tan\beta = \frac{L}{\pi D} = \frac{nP}{\pi D}$$

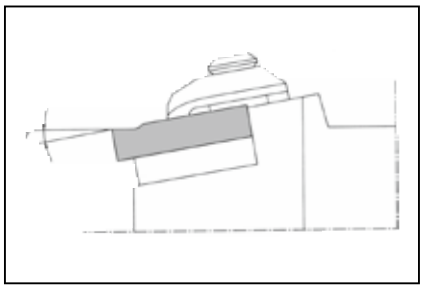
β: 螺旋角　D:節徑　n:牙數　P:節距
L:導程(1牙螺紋等於節距、n牙螺紋等於n x p)



(圖1)

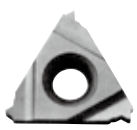
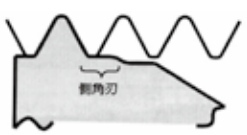
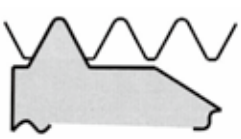


(圖2)



(圖3)

牙刀片的區分

泛稱	備註	刀片實體	加工狀態圖	特點	
專用牙	附倒角刃			1 2 3 4	加工件表面較光滑 需考慮倒角刃的預留量 牙頂有倒角精修 牙的節距決定刀片規格
通用牙	無倒角刃			1 2 3 4	加工件表面易生毛邊 公稱直徑需修到一定值 牙頂無法倒角精修 刀片可加工範圍較廣

攻牙下孔徑加工尺寸表
DRILL HOLE SIZE OF CUTTING TAPS DIMENSION

公制標準螺紋

螺紋尺寸	標準徑	2 級螺紋內徑	
		D_1 上限	D_1 下限
M1 -0.25	0.75	0.729	—
M1.1-0.25	0.85	0.829	—
M1.2-0.25	0.95	0.929	—
M1.4-0.3	1.10	1.075	—
M1.6-0.35	1.25	1.221	1.321
M1.8-0.35	1.45	1.421	1.521
M2 -0.4	1.60	1.567	1.679
M2.2-0.45	1.75	1.713	1.838
M2.5-0.45	2.05	2.013	2.138
M3 -0.5	2.50	2.459	2.599
M3.5-0.6	2.90	2.850	3.010
M4 -0.7	3.30	3.242	3.422
M4.5-0.75	3.70	3.688	3.878
M5 -0.8	4.20	4.134	4.334
M6 -1	5.00	4.917	5.153
M7 -1	6.00	5.917	6.153
M8 -1.25	6.80	6.647	6.912
M9 -1.25	7.80	7.647	7.912
M10 -1.5	8.50	8.376	8.676
M11 -1.5	9.50	9.376	9.676
M12 -1.75	10.20	10.106	10.441
M14 -2	12.00	11.835	12.210
M16 -2	14.00	13.835	14.210
M18 -2.5	15.50	15.294	15.744
M20 -2.5	17.50	17.294	17.744
M22 -2.5	19.50	19.294	19.744
M24 -3	21.00	20.752	21.252
M27 -3	24.00	23.752	24.252
M30 -3.5	26.50	26.211	26.711
M33 -3.5	29.50	29.211	29.711
M36 -4	32.00	31.670	32.270
M39 -4	35.00	34.670	35.270
M42 -4.5	37.50	37.129	37.799
M45 -4.5	40.50	40.129	40.799
M48 -5	43.00	42.587	43.297
M52 -5	47.00	46.587	47.287
M56 -5.5	50.50	50.046	50.796

公制細螺紋

螺紋尺寸	標準徑	2 級螺紋內徑	
		D_1 上限	D_1 下限
M2.5-0.35	2.15	2.121	2.221
M3 -0.35	2.65	2.621	2.271
M3 -0.35	3.15	3.121	3.221
M4 -0.5	3.50	3.459	3.599
M4.5-0.5	4.00	3.959	4.099
M5 -0.5	4.50	4.459	4.599
M5.5-0.5	5.00	4.959	5.099
M6 -0.75	5.20	5.188	5.378
M7 -0.75	6.20	6.188	6.378
M8 -0.75	7.20	7.188	7.378
M8 -1	7.00	6.917	7.153
M9 -0.75	8.20	8.188	8.378
M9 -1	8.00	7.917	8.153
M10 -0.75	9.20	9.188	9.378
M10 -1	9.00	8.917	9.153
M10 -1.25	8.80	8.647	8.912
M11-0.75	10.20	10.188	10.378
M11-1	10.00	9.917	10.153
M12-1	11.00	10.917	11.153
M12-1.25	10.80	10.647	10.192
M12-1.5	10.50	10.376	10.676
M14-1	13.00	12.917	13.153
M14-1.25	12.80	12.647	12.912
M14-1.5	12.50	12.376	12.676
M15-1	14.00	13.917	14.153
M15-1.5	13.50	13.376	13.676
M16-1	15.00	14.197	15.153
M16-1.5	14.50	14.376	14.676
M17-1	16.00	15.917	16.153
M17-1.5	15.50	15.376	15.676
M18-1	17.00	15.917	17.153
M18-1.5	16.50	16.376	16.676
M18-2	16.00	15.835	16.210
M20-1	19.00	18.917	19.153
M20-1.5	18.50	18.376	18.678
M20-2	18.00	17.835	18.210
M22-1	21.00	20.917	21.153
M22-1.5	20.50	20.376	20.676
M22-2	20.00	19.835	20.210
M24-1	23.00	22.917	23.153

英制粗螺紋

螺紋尺寸	標準徑	2 級螺紋內徑	
		D_1 上限	D_1 下限
No.1 -64	1.50	1.435	1.582
No.2 -64	1.85	1.694	1.872
No.3 -64	2.10	1.941	2.146
No.4 -64	2.35	2.385	2.156
No.5 -64	2.65	2.697	2.487
No.6 -64	2.85	2.642	2.896
No.8 -64	3.50	3.302	3.531
No.10 -64	3.90	3.683	3.962
No.12 -64	4.50	4.343	4.597
1/4 -64	5.10	4.976	5.268
5/16 -64	6.60	6.411	6.734
3/8 -64	8.00	7.805	8.164
7/16 -64	9.40	9.149	8.550
1/2 -64	10.80	10.584	11.013
9/16 -64	12.20	11.996	12.456
5/8 -64	13.50	13.376	13.868
3/4 -64	16.50	16.299	16.833
7/8 -64	19.50	19.169	19.748
1 -64	22.25	21.963	22.598
1 1/8 -64	25.00	24.648	25.349
1 1/4 -64	28.00	27.823	28.514
1 3/8 -64	30.75	30.343	21.120
1 1/2 -64	34.00	33.518	34.295
1 3/4 -64	39.50	38.951	39.814
2 -4.5	45.00	44.689	45.598

公制粗螺紋

螺紋尺寸	標準徑
M1 ×0.25	0.88
M1.1 ×0.25	0.98
M1.2 ×0.25	1.08
M1.4 ×0.3	1.25
M1.6 ×0.35	1.45
M1.7 ×0.35	1.55
M1.8 ×0.35	1.65
M2 ×0.4	1.80
M2.2 ×0.45	2.00
M2.3 ×0.4	2.10
M2.5 ×0.45	2.30
M2.6 ×0.45	2.40
M3 ×0.5	2.80
M3.5 ×0.6	3.25
M4 ×0.4	3.70

螺紋尺寸	標準徑
M4.5 ×0.75	4.15
M5 ×0.8	4.65
M6 ×1	5.55
M7 ×1	6.55
M8 ×1.25	7.40
M9 ×1.25	8.40
M10 ×1.5	9.25
M11 ×1.5	10.25
M12 ×1.75	11.20
M14 ×2	13.10
M16 ×2	15.10
M18 ×2.5	16.90
M20 ×2.5	18.90

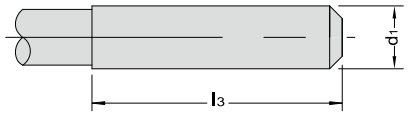
公制粗螺紋

螺紋尺寸	標準徑
M5 ×0.5	4.75
M5.5 ×0.5	5.25
M6 ×0.75	5.65
M7 ×0.75	6.65
M8 ×0.75	7.65
M8 ×0.1	7.55
M9 ×0.75	8.65
M9 ×0.1	8.55
M10 ×0.75	9.65
M10 ×0.1	9.55
M10 ×0.25	9.40
M10 ×0.75	10.65
M11 ×1	10.55
M12 ×1	11.55
M12 ×1.25	11.40

螺紋尺寸	標準徑
M12 ×1.5	11.30
M14 ×1	13.55
M14 ×1.25	13.40
M14 ×1.5	13.30
M15 ×1	13.55
M15 ×1.5	14.30
M16 ×1	15.55
M16 ×1.5	15.30
M17 ×1	16.55
M17 ×1.5	16.30
M18 ×1	17.55
M18 ×1.5	17.30
M18 ×2	17.10
M20 ×1	19.55

直柄削平相關資料
FLATTED STRAIGHT SHANK DIMENSIONS

Form HA

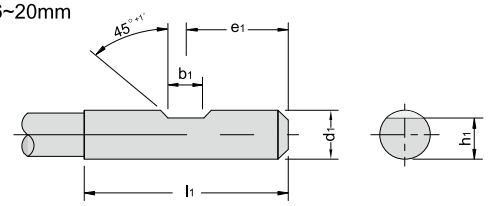


(單位 :mm)

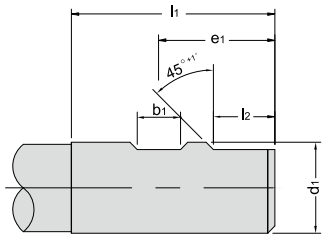
d_1 h6	l_3 +2 0
2	28
3	
4	
5	
6	36
8	
10	40
12	45
14	
16	48
18	
20	50
25	56
32	60

Form HB

d1=6~20mm



d1=25&32mm

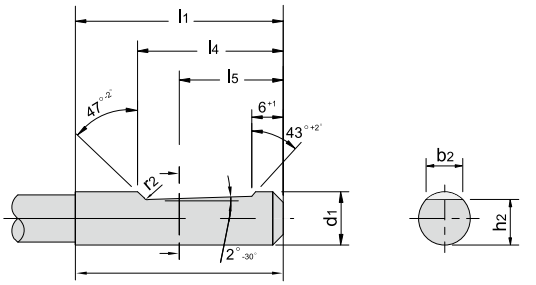


(單位 :mm)

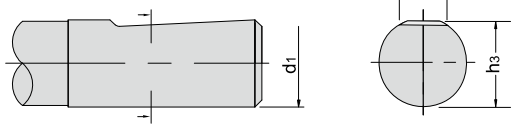
d_1 h6	b_1 +0.05 0	e_1 0 -1	h_1 h11	l_1 +2 0	l_2 +1 0
6	4.2	18	5.1	36	-
8	5.5		6.9		
10	7	20	8.5	40	
12	8	22.5	10.4	45	
14			12.7		
16	10	24	14.2	48	
18			16.2		
20	11	25	18.2	50	
25	12	32	23	56	17
32	14	36	30	60	19

Form HE

d1=6~20mm

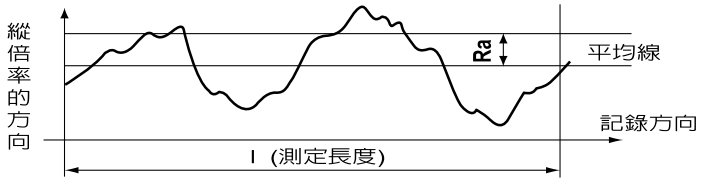
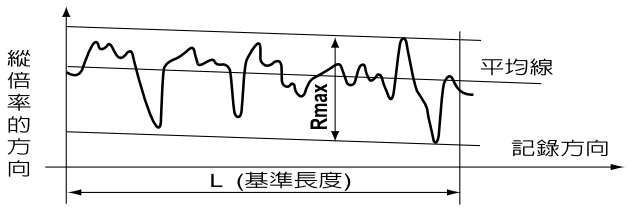
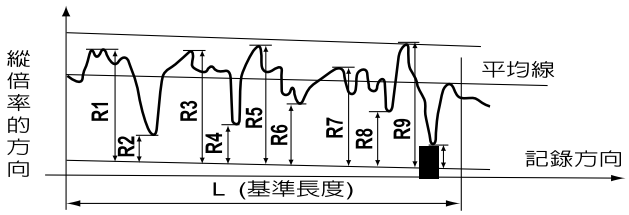


d1=25&32mm



d_1 h6	(b_2) =	(b_3)	h_2 h11	(h_3)	l_1 +2 0	l_4 0 -1	l_5	r_2 min.
6	4.3	-	5.1	-	36	25	18	1.2
8	5.5		6.9					
10	7.1		8.5		40	28	20	
12	8.2		10.4		45	33	22.5	
14	8.1		12.7					
16	10.1		14.2		48	36	24	1.6
18	10.8		16.2					
20	11.4		18.2		50	38	25	
25	13.6	9.3	23.0	24.1	56	44	32	
32	15.5	9.9	30.0	31.2	60	48	35	

表面粗糙度 SURFACE ROUGHNESS

種類	代號	計算方法	計算方法 例 (圖)
中心線平均粗度	Ra	從粗度曲線往中心線方向抽取測定長度 L 的部分，此抽取部分的中心線為 X 軸，以 Y=f(x) 表示時依下式計算之，所得值以微米 (μm) 表示之。 Ra=1/1|f(x)|dx	
最大高度	Rmax	從斷面曲線抽取基準長度部分的平均線以平行 2 直線包含上抽取部分時，以 2 線的間接為曲線縱倍率，方向測定此值即為最大高度，以微米 (μm) 表示之。 Rmax: 應對基準長度 L 的抽取部分最大高度。	
十點平均粗度	Rz	在斷面曲線只抽取基準長對平均線平行且不橫越斷面曲線的直線往縱倍率方向測定最高至第 5 螺紋頂標高的平均值與最深至第 5 齒根標高的平均值的差值，，以微米 (μm) 表示之。 Rz=(R1+R3+R5+R7+R9) (R2+R4+R6+R8+R10) / 5	 R1+R3+R5+R7+R9 ：應對基準長度抽取部分的最高至第 5 螺紋頂的標高 R2+R4+R6+R8+R10 ：應對基準長度抽取部分的最高至第 5 螺紋頂的標高

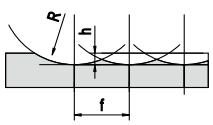
中心線平均粗度 Ra	最大高度 Rmax	十點平均粗度 Rz	粗糙度 N	三角記號
0.0013a	0.05S	0.05Z	—	
0.025a	0.1S	0.1Z	N1	
0.05a	0.2S	0.2Z	N2	∇∇∇∇
0.10a	0.4S	0.4Z	N3	
0.20a	0.8S	0.8Z	N4	
0.40a	1.6S	1.6Z	N5	
0.80a	3.2S	3.2Z	N6	∇∇∇
1.6a	6.3S	6.3Z	N7	
3.2a	12.5S	12.5Z	N8	∇∇
6.3a	25S	25Z	N9	
12.5a	50S	50Z	N10	∇
25a	100S	100Z	N11	
50a	200S	200Z	N12	
100a	400S	400Z	—	

表示方法
例：
1.Ra 為 1.6μm 時→ 1.6μmRa
2.Ry 為 6.3μm 時→ 6.3μmRa
3.Rz 為 6.3μm 時→ 6.3μmRa

銑削表面粗糙度 (理論值)

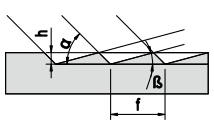
● 有刀尖R角時

$$h=\frac{f^2}{8R}X1000\ (\mu m)$$



● 無刀尖R角時

$$h=f\left(\frac{\tan\alpha\cdot\tan\beta}{\tan\alpha+\tan\beta}\right)X1000\ (\mu m)$$



h：理論粗糙度 (μm)
f：每刃進給 (mm/rev)
R：刀尖圓弧半徑 (mm)
α：餘偏角
ß：副偏角

例：
f=0.2mm/rev· R=0.4 代入公式

$$h=\frac{0.2^2}{8x0.4}X1000=12.5\ \mu m$$

理論加工面粗度為約12μ

例：
f=0.25mm/rev · tanα=45˚· tanß=45˚ 代入公式

$$h=f\cdot\left(\frac{\tan45^\circ\cdot\tan45^\circ}{\tan45^\circ+\tan45^\circ}\right)X1000=125\ \mu m$$

理論加工面粗度為約125μ

幾何公差符號

公差種類	公差性質	符號
形狀公差	真直度	—
	真平度	▱
	真圓度	○
	圓柱度	⌭
	曲線輪廓度	⌒
	曲面輪廓度	⌓
方向公差	平行度	//
	垂直度	⊥
	傾斜度	∠
定位公差	位置度	⌖
	同心度 / 同軸度	◎
	對稱度	⌯
偏移度公差	圓偏轉度	↗
	總偏轉度	↗↗

(1) 切削速度

車削加工及銑削加工之切削速度，可由下式計算：

$$V=\frac{\pi\times D\times S}{1000}(m/min)$$

$$S=\frac{1000\times V}{\pi\times D}(rpm)$$

V : 切削速度 (m/min)
π: 圓周率
D : 被削材的直徑 (mm) 亦即銑刀盤直徑 (mm)
N : 被削材的回轉數 (rpm) 亦即主軸的回轉數

(2) 銑床抬 (TABLE) 進給及每刃進給

$$F=f\times z\times s(mm/min)$$

f : 每刃之進給率 (mm/ 刃)
F : 床檯進給率 (m/min)
Z : 銑刀盤上之刀刃數
N : 主軸回轉數

(3) 加工時間的求法

(A) 一般外徑加工之場合徑 $T=\frac{60\ell}{f\times N}$

(B) 端面加工及切斷加工之場合 $T=\frac{60\ell}{f\times Z\times N}$

(C) 銑削加工之場合 $T=\frac{30D}{f\times N}$

T : 切削之時間
I : 加工長度
D : 加工物的直徑
f : 每一回之進給量或每一分之進給量
N : 主軸回轉數
Z : 銑刀盤上之刀刃數

(4) 消耗動力

(a) 車削加工

$$P_{KW}=\frac{ks\times Ae\times Ap\times F}{6120\times\eta}(KW)$$

$$P_{HP}=\frac{ks\times Ae\times Ap}{F\times 4500\times\eta}(HP)$$

(b) 銑削加工

$$P_{KW}=\frac{ks\times Ae\times Ap\times F}{6120000\times\eta}(KW)$$

V : 切削速度 (mm/min)
d : 切深 (mm)
f : 進給率 (mm/rev)
η : 機械效率 (0.7-0.8)
ks : 切削抵抗值 (Kg/mm²)

Ae : 切削寬 (mm)
Ap : 切深 (mm)
F : 床檯 (TABLE) 進給 (mm/min)
η : 機械效率 (0.7-0.8)
ks : 切削抵抗值 (Kg/mm²)

Ks 概略值	
軟鋼	190
中炭素鋼	210
高炭素鋼	240
低合金鋼	190
高合金鋼	245
鑄鐵	93
可鍛鑄鐵	120
青銅、黃銅	70

車削測試報告表
TEST REPORT FOR TURNING

客戶名稱 Company name :

填表日期 Date: 年 Year/ 月 Month/ 日 Day
填 表 人 Name:

公司名稱 CUSTOMER			電話 TEL		備註 REMARK	
機械型式 MACHINE TYPE			馬力 HP			
加工材質 WORKPIECE MATERIAL						
刀柄規格 TOOL HOLDER						
刀片規格 INSERT						
原使用刀片廠牌規格 ORIGINAL USE INSERT						
刀片材質 INSERT GARDE					使 用 效 果 EFFECT	
工件直徑 DIA					崩 裂 CRACKING	
工件長度 LENGTH					熱熔著 MELTING	
轉速．轉 / 分 RPM					刃口積屑 BUILD-UP EDGE	
線速．米 / 分 CUTTING SPEED MM					耐磨耗 ABRASION RESISTANCE	
切深．MM D.O.C．MM					熱 裂 HEAT TEARING	
進給．MM/ 轉 FEED．MM/REV					刃邊磨耗 EDGE WEAR	
床檯進給．MM/ 分 TABLE FEED						
刀具壽命 TOOL LIFE						
圖形 WORKPIECE DWG						

銑削測試報告表
TEST REPORT FOR MILLING

客戶名稱 Company name :

填表日期 Date: 年 Year/ 月 Month/ 日 Day
填 表 人 Name:

1. 機械型號 (廠牌) Machine Model		主軸錐度 Spindle Tapper	
2. 刀具型號 Cutter Model		3. 刀具直徑 Cutter Diameter	
4. 刀具刃數 Cutter Flutes		5. 刀具材質 Cutter Material	
6. 加工材質 Cutting Material		工件硬度 Workpiece Hardness	
7. 加工型態 Cutting Process Type	□凹槽加工 Grooving □精銑 Finishing □鑽銑 Drilling □精銑 Finishing □肩銑 Shoulder Milling □面銑 Face Milling	備 註 (加工圖面) Remark (Drawing)	
8. 主軸轉速 RPM		9. 線速度 (米速) Linear Speed	
10. 機械工作台進給 Table Feed		11. 進給 (mm/ 齒) Feed	
12. 切深速度 cutting depth speed		13. 切幅寬 width of cutting	
14. 加工壽命 Tool Life	工作數量 / 角 Working Piece _____	工作長 / 角 Length _____	加工時間 / 角 Time _____
15. 使用效果 Effect	□非常良好 Superior □普通 Normal	□良好 Good □非常不良 Bad	
16. 目前使用之刀片 Current Use Insert	品 牌 Brand _____ 材 質 Material _____	規 格 Spec. _____ 斷屑槽 Chipbreaker _____	
17. 刀片損壞原因 Reason of breaking insert			屑片 Chip
18. 是否有冷卻液 Coolant Usage	□是 Yes	□否 No	□氣冷 Air Cooling
19. 加工狀況 Cutting Condition	□斷續切削 Interrupted	□連續切削 Continuous	
20. 採取對策 Action plan			

搪孔切削測試報告表
TEST REPORT FOR BORING

客戶名稱 Company name :

填表日期 Date: 年 Year/ 月 Month/ 日 Day
填 表 人 Name: 主管 Director:

機械條件 Machining condition	廠牌型號 Machine Model		主軸內孔錐度 Spindle Tapper of inside hole 主軸驅動方式 Spindle driver	
	控制器 Controller		床檯驅動方式 Table driver	
刀具條件 Cutter feature				
搪孔刀具規格 Boring cutter spec.	搪孔刀柄 Boring holder		搪孔頭 Boring head	小搪孔桿 Small boring bar
搪孔刀片規格 Boring insert spec.			待加工圖面 rough drawing	
搪孔刀具刃數 Number of Flutes for boring cutter				
切削條件 Cutting process				
搪孔型式 Boring process	□粗搪 rough boring	□中搪 medium boring	□精搪 fine boring	
線速度 Linear Speed			m/min	
主軸轉速 RPM			rpm	
床檯進給 Table speed			mm/min	
每刃進給 feed per tooth			mm/t	
搪孔切屑量 Chip amount of boring			mm/min	
搪孔直徑 Diameter of boring			mm/min	
搪孔深度 Depth of boring			mm/min	
搪孔狀況 Boring process	□連續切削 continuous		□斷續切削 interrupted	鐵屑現況 Iron chip status
相關配套 Relevant Supporting data				
加工材質 Cutting material				
工件硬度 Workpiece hardness		HRC	HB	
加工時間 Cutting time		sec/min		
使用切削液 Coolant usage	□有 Yes	□沒有 No	□氣冷 Air Cooling	
出水方式 coolant way	□中心出水 Through Coolant		□端面出水 Coolant from face-end	□側邊出水 Coolant from side-end
夾持工件方式 Method of clamping workpiece	□治具鎖定 (螺絲) Fixture screwed in (screw)		□治具固定 (空、油壓方式) Fixture fixed (by air / hydraulic)	□虎鉗夾持 Vise clamping
排屑情況 Chip status	□長屑 Long chip		□短屑 Short chip	□卷屑 Coil chip
採取對策方式 Action plan				

正河源股份有限公司
CHAIN HEADWAY CO.,LTD.

TEL : +886-4-26265252

FAX : +886-4-26267941

地址 : 台灣台中市清水區五權路232號
No. 232, Wuquan Rd., Qingshui Dist., Taichung City 436, Taiwan

網址 : www.chain-headway.com

Website(中文) Website(EN) LINE Wechat Facebook YouTube

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