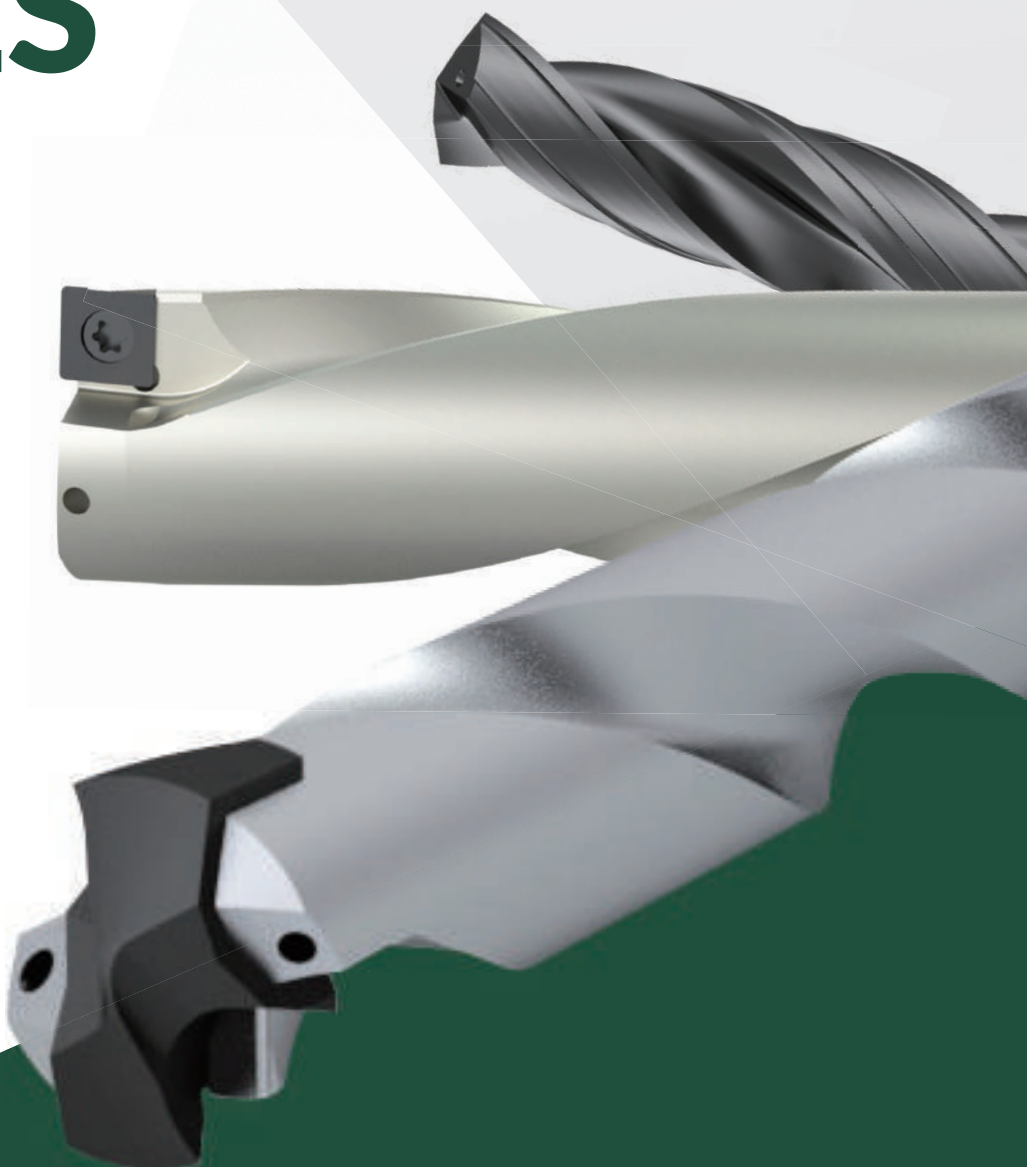




DRILL SERIES

鑽孔系列

No. 251022-1



孔鑽系列 產品發展歷史

Drill Development History



年 度
Year

2005-2010

2010-2015

SD 捨棄式快速鑽頭

- Ø16~Ø60mm
- DX2、DX3、DX4

SD INDEXABLE HIGH SPEED DRILL

- Ø16~Ø60mm
- DX2, DX3, DX4

CSD 大孔徑快速鑽頭

- Ø61~Ø80mm
- DX3

CSD LARGE DIAMETER HIGH SPEED DRILL

- Ø61~Ø80mm
- DX3

TSD 四角刀片快速鑽頭

- Ø13~Ø50mm
- DX2、DX3、DX4、DX5

- Ø12mm

- DX2、DX3

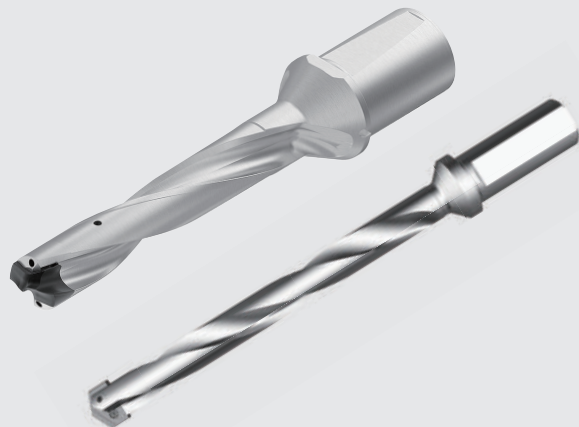
TSD SQUARE HIGH SPEED DRILL

- Ø13~Ø50mm

- DX2, DX3, DX4, DX5

- Ø12mm

- DX2, DX3



2015-2020

- DR 碳化鎢鋼出水鑽頭
- Ø3~Ø15.5mm
- DX5、DX8、DX12、DX15

DR TUNGSTEN CARBIDE DRILL WITH
INTERNAL COOLANT

- Ø3~Ø15.5mm
- DX5, DX8, DX12, DX15

2020-2024

- ZSD 側固式鏟型鑽頭
- Ø13~ Ø34mm
- DX7

ZSD SIDE FIXED SPIRAL FLUTE
SPADE DRILL

- Ø13~ Ø34mm
- DX7

- DR 超微粒鎢鋼定點鑽
- Ø3~ Ø12mm
- 60 度、90 度、120 度

DR ULTRA-MICRON SOLID
CARBIDE SPOT DRILL

- Ø3~ Ø12mm
- 60°, 90°, 120°

DR 碳化鎢鋼出水鑽頭

DR TUNGSTEN CARBIDE DRILL

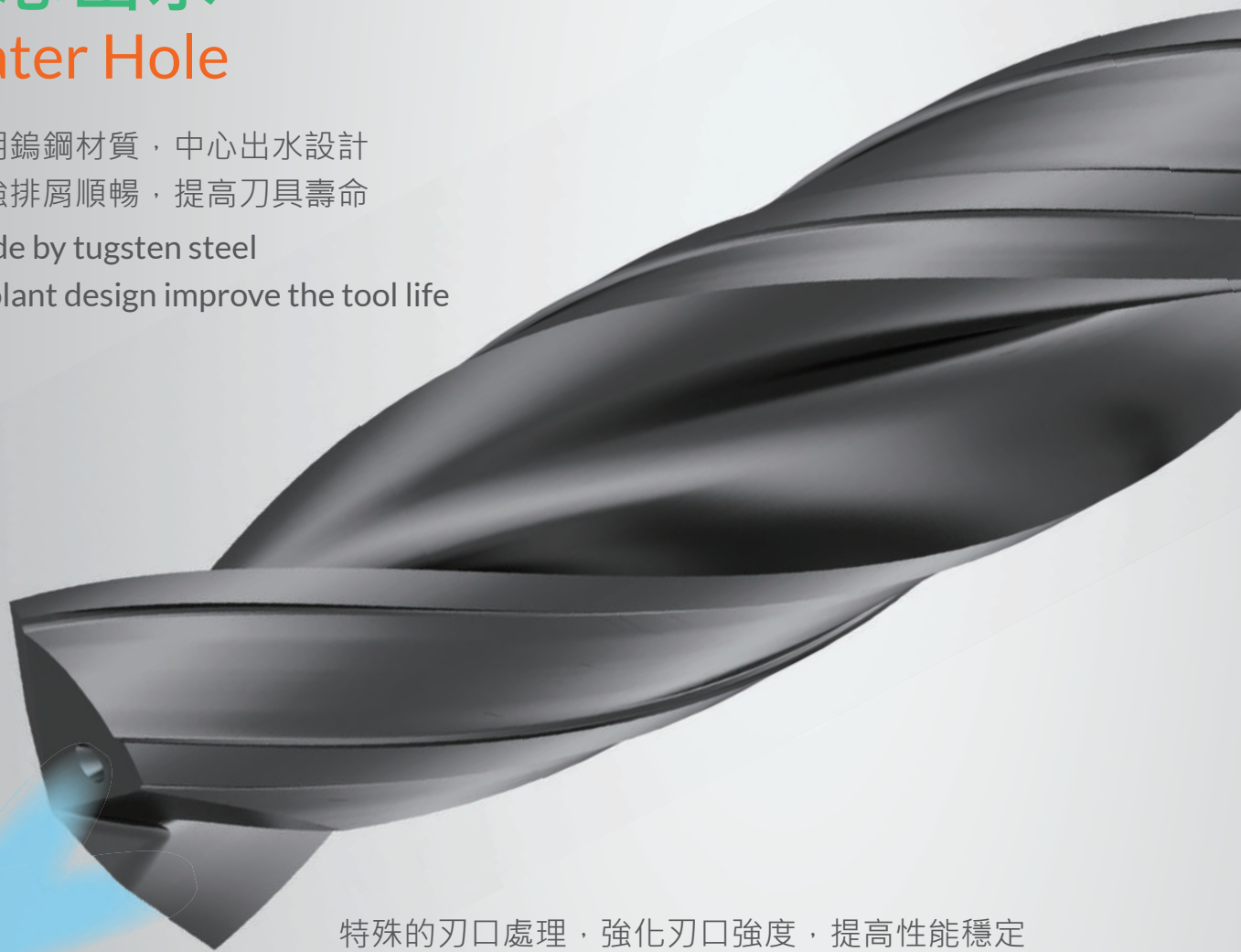
Feature

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 tungsten 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

DR 碳化鎢鋼出水鑽頭系列

DR Tungster Carbide Drill With Internal Coolant Series

碳化鎢鋼出水鑽頭編碼規範

DR Solid Carbide Drill With Internal Coolant Coding Key

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

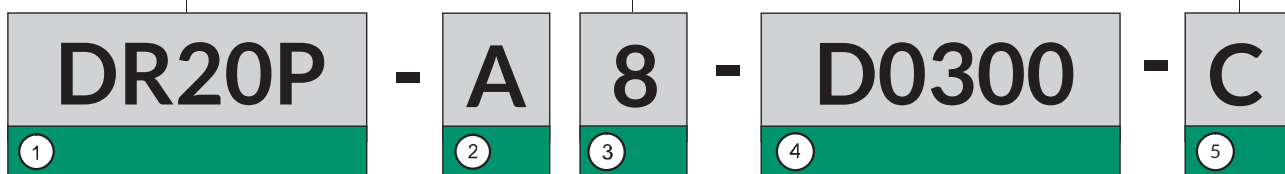
① 類別
Category

記號 Symbol	深度 Depth
3	$\leq 3xD$
5	$\leq 5xD$
8	$\leq 8xD$
12	$\leq 12xD$
15	$\leq 15xD$

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



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	

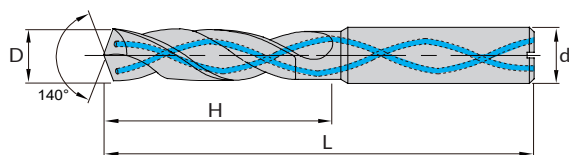
DR 碳化鎢鋼出水鑽頭系列

DR TUNGSTEN CARBIDE DRILL WITH INTERNAL COOLANT SERIES



DR20P-A5-C 碳化鎢鋼出水鑽頭 (DX5)

DR Solid Carbide Drill With Internal Coolant



先端角
140°

Spiral Pointed Angle

加工類型



Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR20P-A5-D0170-C	55	1.7	4	12	2	-
DR20P-A5-D0180-C	55	1.8	4	12	2	-
DR20P-A5-D0200-C	62	2	4	18	2	-
DR20P-A5-D0210-C	62	2.1	4	18	2	-
DR20P-A5-D0220-C	62	2.2	4	18	2	-
DR20P-A5-D0230-C	62	2.3	4	18	2	-
DR20P-A5-D0240-C	62	2.4	4	22	2	-
DR20P-A5-D0250-C	62	2.5	4	22	2	-
DR20P-A5-D0260-C	62	2.6	4	22	2	-
DR20P-A5-D0270-C	62	2.7	4	22	2	-
DR20P-A5-D0280-C	62	2.8	4	22	2	-
DR20P-A5-D0290-C	62	2.9	4	22	2	-
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

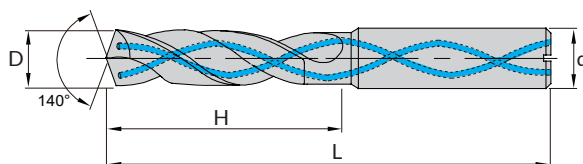
DR 碳化鎢鋼出水鑽頭系列

DR TUNGSTEN CARBIDE DRILL WITH INTERNAL COOLANT SERIES



DR20P-A5-C 碳化鎢鋼出水鑽頭 (DX5)

DR Solid Carbide Drill With Internal Coolant



先端角
140°

Spiral Pointed Angle

加工類型



Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
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
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

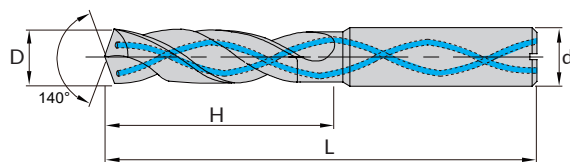
DR 碳化鎢鋼出水鑽頭系列

DR TUNGSTEN CARBIDE DRILL WITH INTERNAL COOLANT SERIES



DR20P-A5-C 碳化鎢鋼出水鑽頭 (DX5)

DR Solid Carbide Drill With Internal Coolant



先端角
140°

Spiral Pointed Angle

加工類型



Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
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
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

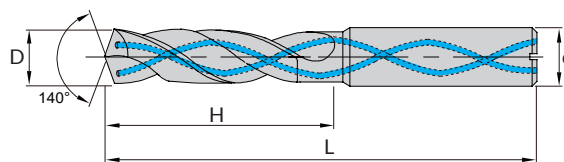
DR 碳化鎢鋼出水鑽頭系列

DR TUNGSTEN CARBIDE DRILL WITH INTERNAL COOLANT SERIES



DR20P-A5-C 碳化鎢鋼出水鑽頭 (DX5)

DR Solid Carbide Drill With Internal Coolant



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-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	-

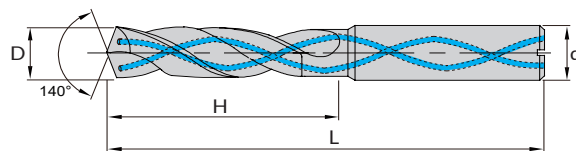
DR 碳化鎢鋼出水鑽頭系列

DR TUNGSTEN CARBIDE DRILL WITH INTERNAL COOLANT SERIES



DR20P-A8-C 碳化鎢鋼出水鑽頭 (DX8)

DR Solid Carbide Drill With Internal Coolant



先端角
140°

Spiral Pointed Angle

加工類型



Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR20P-A8-D0205-C	66	2.05	4	26	2	-
DR20P-A8-D0215-C	66	2.15	4	26	2	-
DR20P-A8-D0250-C	66	2.5	4	31	2	-
DR20P-A8-D0280-C	66	2.8	4	31	2	-
DR20P-A8-D0290-C	66	2.9	4	31	2	-
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	-

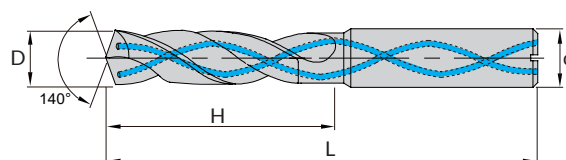
DR 碳化鎢鋼出水鑽頭系列

DR TUNGSTEN CARBIDE DRILL WITH INTERNAL COOLANT SERIES



DR20P-A8-C 碳化鎢鋼出水鑽頭 (DX8)

DR Solid Carbide Drill With Internal Coolant



先端角
140°

Spiral Pointed Angle

加工類型



Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR20P-A8-D0620-C	114	6.2	8	76	2	-
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	-
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	-

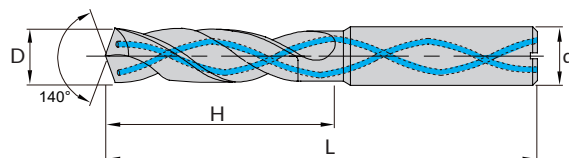
DR 碳化鎢鋼出水鑽頭系列

DR TUNGSTEN CARBIDE DRILL WITH INTERNAL COOLANT SERIES



DR20P-A8-C 碳化鎢鋼出水鑽頭 (DX8)

DR Solid Carbide Drill With Internal Coolant



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-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	-

DR 碳化鎢鋼出水鑽頭系列

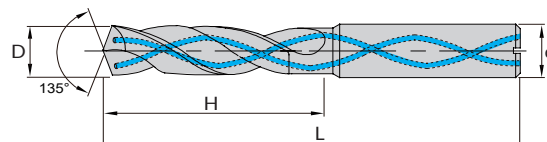
DR TUNGSTEN CARBIDE DRILL WITH INTERNAL COOLANT SERIES



DR20P-A12-C 碳化鎢鋼出水鑽頭 (DX12)

DR Solid Carbide Drill With Internal Coolant

- 深孔鑽需採用 A5 相同尺寸規格鑽頭作為引導鑽
For deep hole drilling, use a pilot drill with the same size specification as the A5 drill.



先端角
135°

Spiral Pointed Angle

加工類型



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	-

DR 碳化鎢鋼出水鑽頭系列

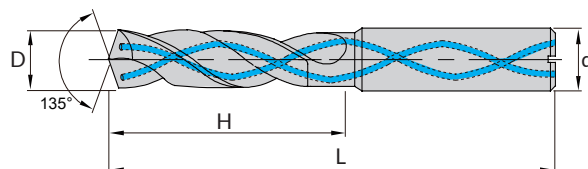
DR TUNGSTEN CARBIDE DRILL WITH INTERNAL COOLANT SERIES



DR20P-A15-C 碳化鎢鋼出水鑽頭 (DX15)

DR Solid Carbide Drill With Internal Coolant

- 深孔鑽需採用 A5 相同尺寸規格鑽頭作為引導鑽
For deep hole drilling, use a pilot drill with the same size specification as the A5 drill.



先端角
135°

Spiral Pointed Angle

加工類型



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	-

DR 碳化鎢鋼出水鑽頭系列

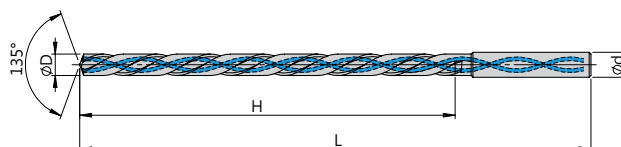
DR TUNGSTEN CARBIDE DRILL WITH INTERNAL COOLANT SERIES



DR20P-A20-C 碳化鎢鋼出水鑽頭 (DX20)

DR Solid Carbide Drill With Internal Coolant

- 深孔鑽需採用 A5 相同尺寸規格鑽頭作為引導鑽
For deep hole drilling, use a pilot drill with the same size specification as the A5 drill.



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-A20-D0300-C	110	3	6	70	2	-
DR20P-A20-D0350-C	136	3.5	6	96	2	-
DR20P-A20-D0400-C	136	4	6	96	2	-
DR20P-A20-D0450-C	158	4.5	6	118	2	-
DR20P-A20-D0500-C	158	5.5	6	118	2	-
DR20P-A20-D0550-C	180	5.5	6	140	2	-
DR20P-A20-D0600-C	180	6	6	140	2	-
DR20P-A20-D0650-C	202	6.5	8	162	2	-
DR20P-A20-D0700-C	202	7	8	162	2	-
DR20P-A20-D0750-C	223	7.5	8	183	2	-
DR20P-A20-D0800-C	223	8	8	183	2	-
DR20P-A20-D0850-C	249	8.5	8	202	2	-
DR20P-A20-D0900-C	249	9	10	205	2	-
DR20P-A20-D0950-C	271	9.5	10	227	2	-
DR20P-A20-D1000-C	271	10	10	227	2	-
DR20P-A20-D1100-C	302	11	12	253	2	-
DR20P-A20-D1200-C	323	12	12	274	2	-

DR 碳化鎢鋼出水鑽頭系列

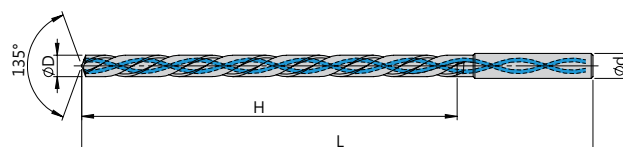
DR TUNGSTEN CARBIDE DRILL WITH INTERNAL COOLANT SERIES



DR20P-A25-C 碳化鎢鋼出水鑽頭 (DX25)

DR Solid Carbide Drill With Internal Coolant

- 深孔鑽需採用 A5 相同尺寸規格鑽頭作為引導鑽
For deep hole drilling, use a pilot drill with the same size specification as the A5 drill.



先端角
135°

Spiral Pointed Angle

加工類型



Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR20P-A25-D0300-C	125	3	6	85	2	-
DR20P-A25-D0350-C	156	3.5	6	116	2	-
DR20P-A25-D0400-C	156	4	6	116	2	-
DR20P-A25-D0450-C	183	4.5	6	143	2	-
DR20P-A25-D0500-C	183	5.5	6	143	2	-
DR20P-A25-D0550-C	210	5.5	6	170	2	-
DR20P-A25-D0600-C	210	6	6	170	2	-
DR20P-A25-D0650-C	237	6.5	8	197	2	-
DR20P-A25-D0700-C	237	7	8	197	2	-
DR20P-A25-D0750-C	263	7.5	8	223	2	-
DR20P-A25-D0800-C	263	8	8	223	2	-
DR20P-A25-D0850-C	294	8.5	8	250	2	-
DR20P-A25-D0900-C	294	9	10	250	2	-
DR20P-A25-D0950-C	321	9.5	10	277	2	-
DR20P-A25-D1000-C	321	10	10	277	2	-
DR20P-A25-D1100-C	359	11	12	310	2	-
DR20P-A25-D1200-C	386	12	12	337	2	-

DR 碳化鎢鋼出水鑽頭系列

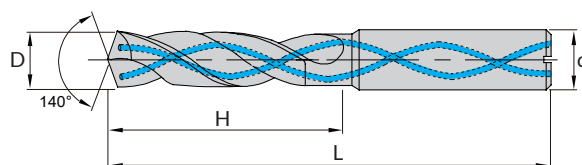
DR TUNGSTEN CARBIDE DRILL WITH INTERNAL COOLANT SERIES



DR30M-A5-C 碳化鎢鋼出水鑽頭 (DX5)

DR Solid Carbide Drill With Internal Coolant

• 不鏽鋼專用 For Stainless Steel



先端角

140°

Spiral Pointed Angle

加工類型

M K

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	-

DR 碳化鎢鋼出水鑽頭系列

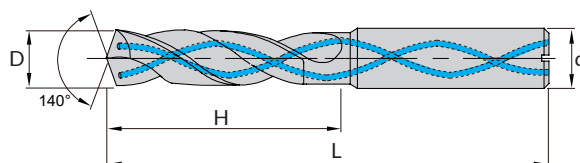
DR TUNGSTEN CARBIDE DRILL WITH INTERNAL COOLANT SERIES



DR30M-A5-C 碳化鎢鋼出水鑽頭 (DX5)

DR Solid Carbide Drill With Internal Coolant

• 不鏽鋼專用 For Stainless Steel



先端角

140°

Spiral Pointed Angle

加工類型

M K

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	-

DR 碳化鎢鋼出水鑽頭系列

DR TUNGSTEN CARBIDE DRILL WITH INTERNAL COOLANT SERIES



碳化鎢鋼出水鑽頭切削數據

DR Solid Carbide Drill With Internal Coolant Cutting Parameters

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/A20C/A25C

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 (40~120)	0.13 (0.05-0.18)	0.17 (0.05-0.18)	0.20 (0.07-0.25)	0.20 (0.09-0.30)	0.20 (0.10-0.32)	0.23 (0.12-0.38)	0.25 (0.14-0.42)
M 不鏽鋼 Stainless Steels	50 (40~60)	0.06 (0.05-0.08)	0.06 (0.05-0.08)	0.08 (0.05-0.10)	0.08 (0.05-0.10)	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 (0.12-0.18)	0.17 (0.12-0.20)	0.20 (0.12-0.26)	0.25 (0.12-0.30)	0.28 (0.16-0.36)	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)

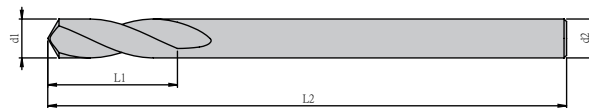
DR 碳化鎢鋼出水鑽頭系列

DR TUNGSTEN CARBIDE DRILL WITH INTERNAL COOLANT SERIES



DR10U 超微粒鎢鋼定點鑽

DR10U -Ultra-Micron Solid Carbide Spot Drill



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

TSD多孔類型加工

TSD VARIETY OF HOLE TYPES MACHINING



斜面孔
Oblique Face



擴孔
Enlarge Hole



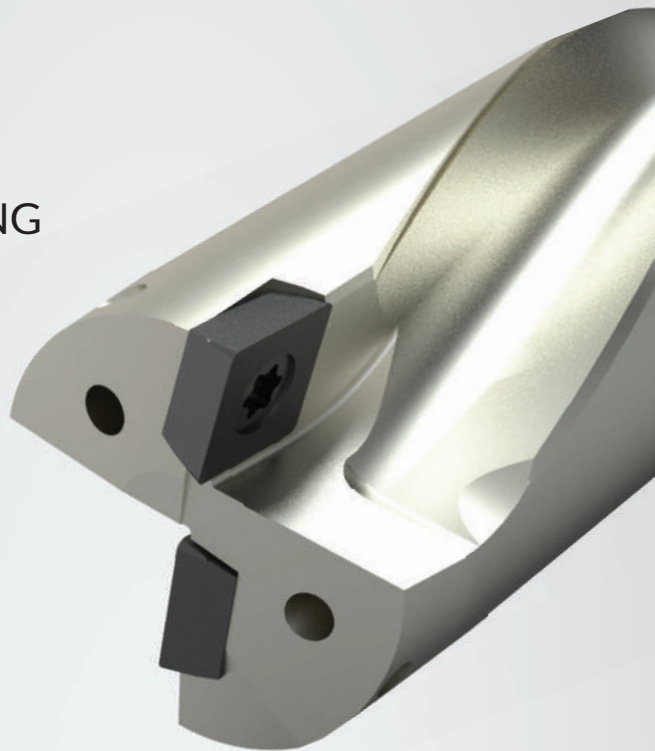
交叉孔
Cross Hole



半邊孔
Half Hole



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5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.

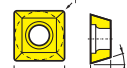


Feature

TSD 四角刀片快速鑽頭

TSD SQUARE HIGH SPEED DRILL



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	不銹鋼 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				
			RM4025	RM3130	RM4030	OM4025		RM5005	RM5060					d	i	s	
	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		

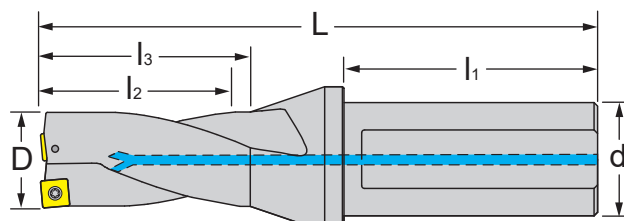
SP_05.06.07.09.11.14/SO_04 切削條件數據表 Cutting Parameter

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	不銹鋼 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



TSD 四角刀片快速鑽頭 (2 倍長) TSD Square Insert High Speed Drill

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.

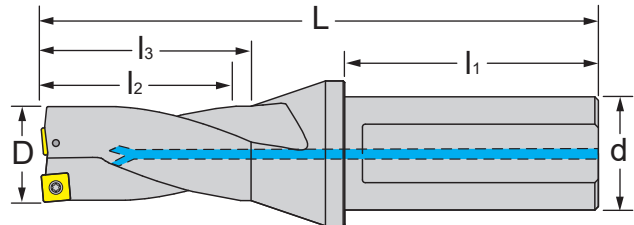
規格 Spec.	L	l ₁	l ₂	l ₃	D	d	刀片 Insert	重量 (KGS) Weight
NEW C20-TSD12-24L	96	50	24	29	12	20	SO..0402	0.18
C25-TSD13-26L	106	56	26	31	13	25	SP.0502	0.32
C25-TSD14-28L	108	56	28	33	14	25	SP.0502	0.33
C25-TSD15-30L	110	56	30	35	15	25	SP.0502	0.33
C25-TSD16-32L	114	56	32	37	16	25	SP.0602	0.34
C25-TSD17-34L	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

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



TSD 四角刀片快速鑽頭 (2 倍點數) TSD Square Insert High Speed Drill

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

- 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
NEW C20-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

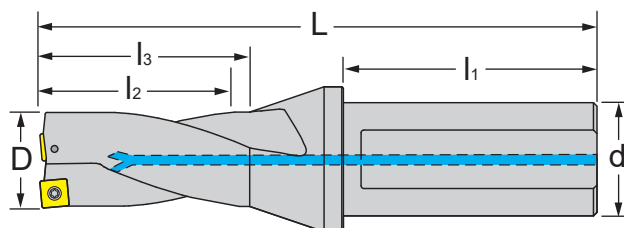
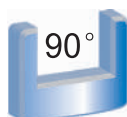
配件表 Accessories

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



TSD 四角刀片快速鑽頭 (3 倍長) TSD Square Insert High Speed Drill

Dx3



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
NEW C20-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

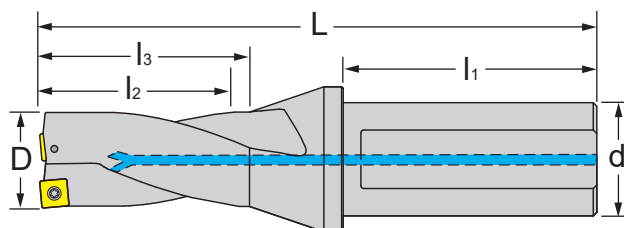
配件表 Accessories

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



TSD 四角刀片快速鑽頭 (3 倍長) TSD Square Insert High Speed Drill

Dx3



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
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

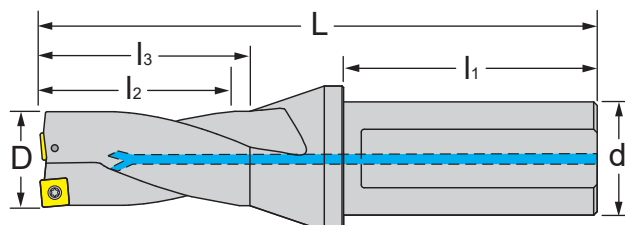
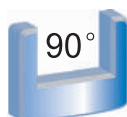
配件表 Accessories

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



TSD 四角刀片快速鑽頭 (3 倍長) TSD Square Insert High Speed Drill

Dx3



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
NEW C20-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

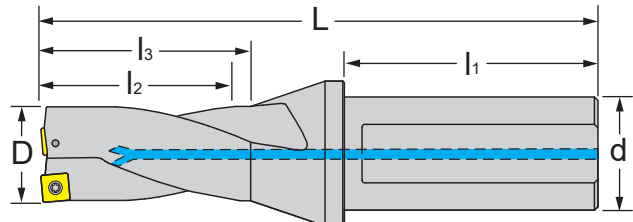
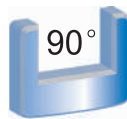
配件表 Accessories

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



TSD 四角刀片快速鑽頭 (3 倍長) TSD Square Insert High Speed Drill

Dx3



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
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

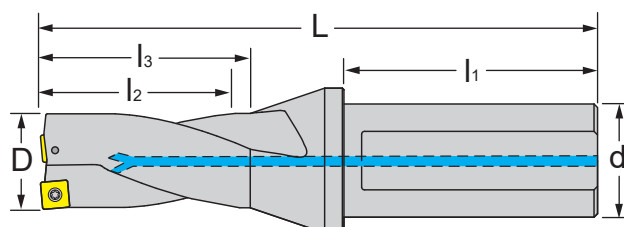
配件表 Accessories

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



TSD 四角刀片快速鑽頭 (3 倍長) TSD Square Insert High Speed Drill

Dx3



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
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NEW C20-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

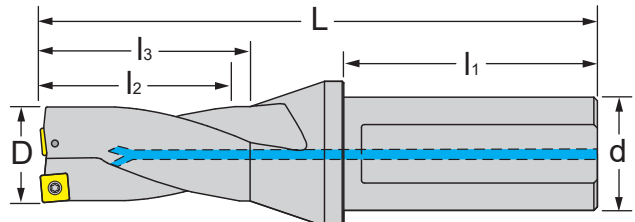
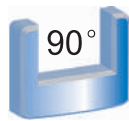
配件表 Accessories

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



TSD 四角刀片快速鑽頭 (3 倍長) TSD Square Insert High Speed Drill

Dx3



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.
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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

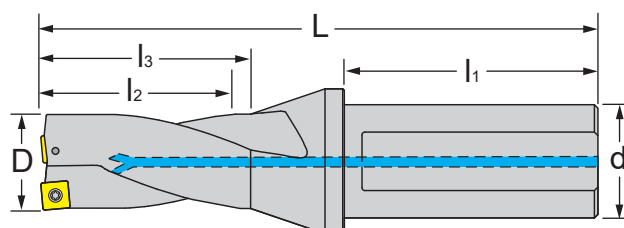
配件表 Accessories

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



TSD 四角刀片快速鑽頭 (4 倍長) TSD Square Insert High Speed Drill

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

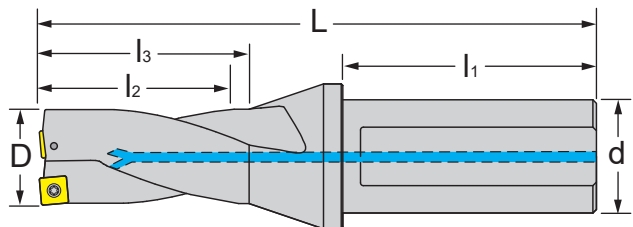
配件表 Accessories

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



TSD 四角刀片快速鑽頭 (5 倍長) TSD Square Insert High Speed Drill

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.

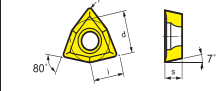
規格 Spec.	L	l ₁	l ₂	l ₃	D	d	刀片 Insert	重量 (KGS) Weight
C25-TSD16-80L	162	56	80	85	16	25	SP.0602	0.38
C25-TSD17-85L	167	56	85	90	17	25	SP.0602	0.40
C25-TSD18-90L	172	56	90	95	18	25	SP.0602	0.42
C25-TSD19-95L	177	56	95	100	19	25	SP.0602	0.44
C25-TSD20-100L	182	56	100	105	20	25	SP.0602	0.46
C25-TSD21-105L	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

SD 捨棄式快速鑽頭

SD INDEXABLE HIGH SPEED DRILL

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.	超微粒硬質合金 Micro grain cemented carbide						尺寸 (mm)				圖形 Drawing
		HF						Size				
		GH05	PTE30	OM4025					d	i	s	
	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

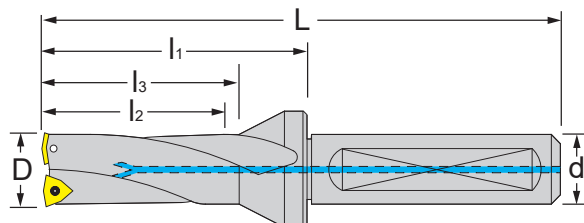
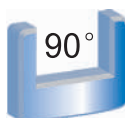
被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	進給率 (mm/rev)			
				ø20 以下	ø20~ø25 以下	ø25~ø45 以下	ø45 以下
P	低合金鋼 Low-Alloy Steels	PET30	100~200	0.05~0.12	0.06~0.15	0.08~0.17	0.10~0.20
		OM4025					
	合金鋼 Alloyed Steels	PET30	80-160	0.05~0.12	0.06~0.15	0.08~0.17	0.10~0.20
		OM4025					
M	不鏽鋼 Stainless 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



SD 捨棄式快速鑽頭 (2 倍長) SD Indexable High Speed Drill



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.

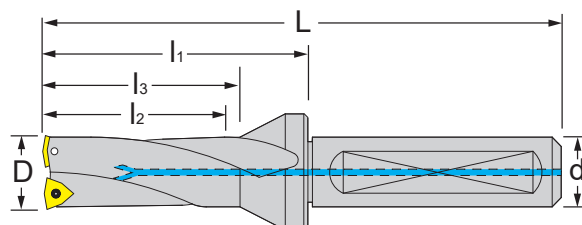
規格 Spec.	L	l ₁	l ₂	l ₃	D	d	刀 片 Insert	重量 (KGS) Weight
C25-SD16-32L	119	63	32	35	16	25	WC..0302	0.38
C25-SD17-34L	120	64	34	37	17	25	WC..0302	0.38
C25-SD18-36L	122	66	36	39	18	25	WC..0302	0.39
C25-SD19-38L	124	68	38	41	19	25	WC..0302	0.40
C25-SD20-40L	126	70	40	43	20	25	WC..0302	0.41
C25-SD21-42L	128	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



SD 捨棄式快速鑽頭 (3 倍長)

SD Indexable High Speed Drill

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

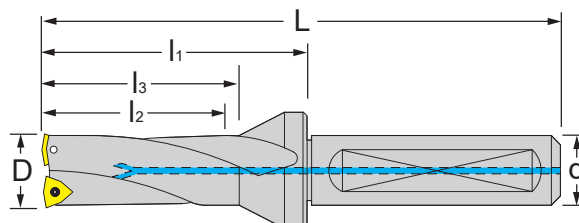
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
WC..06T3	M3.5-8.0-5.0-60	T15	3.0
WC..0804	M4-10-5.7-60	T15	3.0

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



SD 捨棄式快速鑽頭 (4 倍長) SD Indexable High Speed Drill

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	l ₁	l ₂	l ₃	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

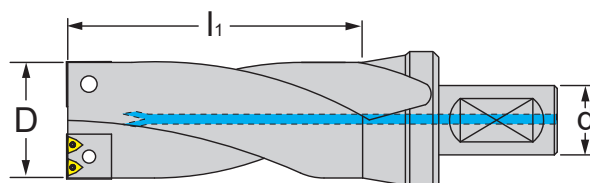
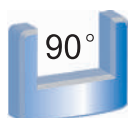
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
WC..0302	M2.5-5.5-3.35-60	T8	1.2
WC..0402	M2.5-6.0-3.5-60	T8	1.2
WC..0503	M3-8.0-4.4-60	T9	1.4
WC..06T3	M3.5-8.0-5.0-60	T15	3.0
WC..0804	M4-10-5.7-60	T15	3.0

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



CSD 大孔徑快速鑽頭 CSD Large Diameter High Speed Drill

加工直徑 Cutting Dia.: Ø61~Ø80



CSD 大孔徑內刃刀片座
CSD Large Diameter
Inside Edge Insert seat



CSD 大孔徑外刃刀片座
CSD Large Diameter
Outside Edge Insert seat

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.

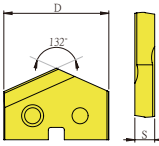
規格 Spec.	l ₁	D	d	內刃 Inner Edge	外刃 Outer Edge	鑽孔範圍 Range	鎖固螺絲 Lock Screw	刀片 Insert	重量 (KGS) Weight
C40-CSD6161-195L	195	61	40	ICSD6165	OCSD61	Ø 61 ~ Ø 65mm	BH-M8-20	WC..06T3	6.05
C40-CSD6162-195L	195	62	40	ICSD6165	OCSD62	Ø 61 ~ Ø 65mm	BH-M8-20	WC..06T3	6.09
C40-CSD6163-195L	195	63	40	ICSD6165	OCSD63	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

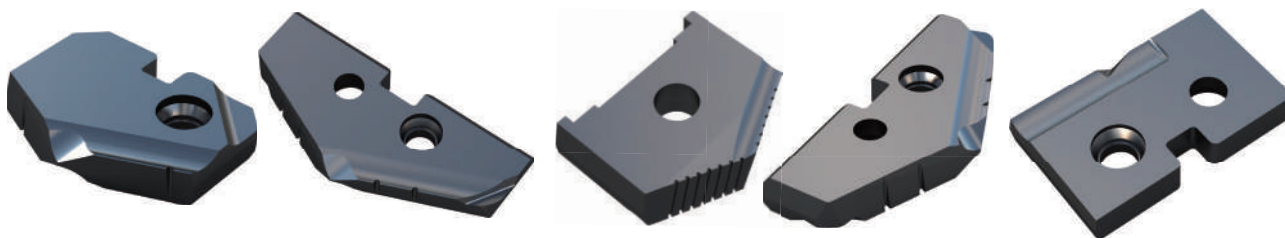
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	扳手 Wrench
WC..06T3	M3.5-8.0-5.0-60	T15K	3.0	PT5

ZSD 側固式鏟形鑽頭

ZSD SIDE FIXED SPIRAL FLUTE SPADE DRILL

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				高速鋼 HSS-Co		尺寸 (mm)				圖形 Drawing		
		CHF						Size						
		OM4025	RM3125	OM5035	OM5005	RM4025HS	RM4025HP	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	-		

●可接受非標客製 Custom non-standard designs available.



ZSD 側固式鏟形鑽頭 ZSD SIDE FIXED SPIRAL FLUTE SPADE DRILL

SDZ13~34 鎢鋼刀片切削條件數據表 Cutting Parameter

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)		
				Ø13.0-Ø17.5	Ø18.0-Ø24.0	Ø25.0-Ø35.0
P	高碳鋼及中碳鋼 (<25HRC) High Carbon Steel & Medium Carbon Steel	OM4025	60-80-100	0.12-0.18	0.16-0.24	0.22-0.30
		RM3125				
	合金鋼、工具鋼 (<35HRC) Alloyed Steels	OM4025	60-80-100	0.12-0.16	0.16-0.22	0.22-0.28
		RM3125				
M	不鏽鋼 (<25HRC) Stainless Steels	OM5035	20-40-50	0.08-0.14	0.12-0.20	0.14-0.22
		RM3125				
K	鑄鐵 (<28HRC) Cast Iron	OM4025	80-100-120	0.15-0.20	0.18-0.26	0.22-0.32
		RM3125				
N	鋁合金 Aluminum&Al	OM5005				

SDZ13~34 高速鋼刀片切削條件數據表 Cutting Parameter

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)		
				Ø13.0-Ø17.5	Ø18.0-Ø24.0	Ø25.0-Ø35.0
P	高碳鋼及中碳鋼 (<25HRC) High Carbon Steel & Medium Carbon Steel	RM4025HS	30-50-55	0.12-0.18	0.16-0.24	0.22-0.30
		RM4025HP				
	合金鋼、工具鋼 (<35HRC) Alloyed Steels	RM4025HP	16-20-25	0.12-0.16	0.16-0.22	0.22-0.28
M	不鏽鋼 (<25HRC) Stainless Steels	RM4025HP	18-20-22	0.08-0.14	0.12-0.20	0.14-0.22
K	鑄鐵 (<28HRC) Cast Iron	RM4025HP	25-35-50	0.15-0.20	0.18-0.26	0.22-0.32

鏟鑽刀片材質應用 Material Applications of Spade Drill Inserts

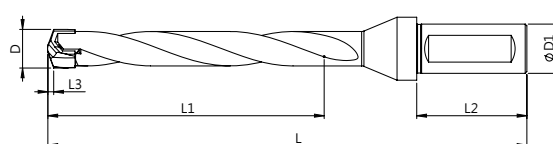
材質 Materials	底材 Substrate	顏色 Color	塗層 Coating	加工材質 Workpiece Material	應用 Application
OM4025/RM3125	鎢鋼 Carbide	鐵灰 Dark Gray	鋁鈦 AlTiN	合金鋼、不銹鋼、鑄鐵的通用加工 Alloy steel, stainless steel, cast iron (general purpose)	切削速度 Vc=50~120 或更高效 率、精度、表粗等品質要求 Cutting speed Vc = 50~120 or higher. Suitable for applications requiring efficiency, precision, and surface finish quality.
OM5035	鎢鋼 Carbide	淡金色 Light Gold	鋁鉻鈦 AlCrTiN	不銹鋼 Stainless steel	
OM5005/RM5005	鎢鋼 Carbide	無 None	無 None	非鐵合金 Non-ferrous alloys	
RM4025HS	高速鋼含鈷 High-speed steel with cobalt	鐵灰 Dark Gray	鋁鈦 AlTiN	合金鋼 Alloy steel,	切削速度 Vc=30 以下 夾持不穩、機台剛性弱等不穩定 工況小批量生產 Cutting speed Vc ≤ 30. Suitable for unstable conditions such as poor clamping or low machine rigidity. Also recommended for small-batch production.
RM4025HP	粉末高速鋼含鈷 Powder high- speed steel with cobalt	鐵灰 Dark Gray	鋁鈦 AlTiN	合金鋼、不銹鋼 鑄鐵的通用加工 Alloy steel, stainless steel, cast iron (general purpose)	

ZSD 側固式鏟形鑽頭 ZSD SIDE FIXED SPIRAL FLUTE SPADE DRILL



ZSD 側固式鏟形鑽頭 (5 倍長) ZSD Side Fixed Spiral Flute Spade Drill

Dx5

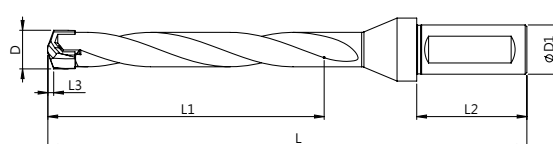


規格 Spec.	D	d	d1	L	L1	L2	重量 (KGS) Weight
C20-ZSD1315-175L	13-15	20	12.4	192	50	114	
C20-ZSD1517-175L	15-17	20	14.7	192	50	114	
C25-ZSD1821-215L	18-21	25	17	210	56	118	
C25-ZSD2224-270L	22-24	25	21.3	210	56	118	
C32-ZSD2529-290L	25-29	32	24	290	60	187	
C32-ZSD3034-400L	30-34	32	29.3	290	60	187	



ZSD 側固式鏟形鑽頭 (7 倍長) ZSD Side Fixed Spiral Flute Spade Drill

Dx7



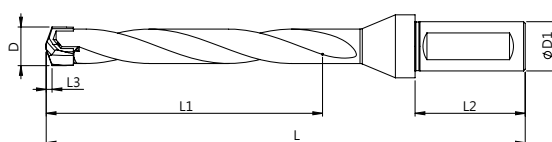
規格 Spec.	D	d	L	L1	L2	重量 (KGS) Weight
C20-ZSD1315-105L	13-15	20	190	50	105	0.30
C20-ZSD1517-120L	15-17	20	205	50	120	0.45
C25-ZSD1821-150L	18-21	25	244	55	150	0.55
C25-ZSD2224-170L	22-24	25	265	55	170	0.70
C32-ZSD2529-205L	25-29	32	305	60	205	1.10
C32-ZSD3034-240L	30-34	32	340	60	240	1.35

ZSD 側固式鏟形鑽頭 ZSD SIDE FIXED SPIRAL FLUTE SPADE DRILL



ZSD 側固式鏟形鑽頭 (10 倍長) ZSD Side Fixed Spiral Flute Spade Drill

Dx10



規格 Spec.	D	d	d1	L	L1	L2	重量 (KGS) Weight
C20-ZSD1315-175L	13-15	20	12.4	256	50	175	
C20-ZSD1517-175L	15-17	20	14.7	256	50	175	
C25-ZSD1821-215L	18-21	25	17	311	56	215	
C25-ZSD2224-270L	22-24	25	21.3	363	56	270	
C32-ZSD2529-290L	25-29	32	24	392	60	290	
C32-ZSD3034-400L	30-34	32	29.3	502	60	400	

※ 錐度柄或其他尺寸，可來電洽詢

※ Taper shank or other sizes available upon request.

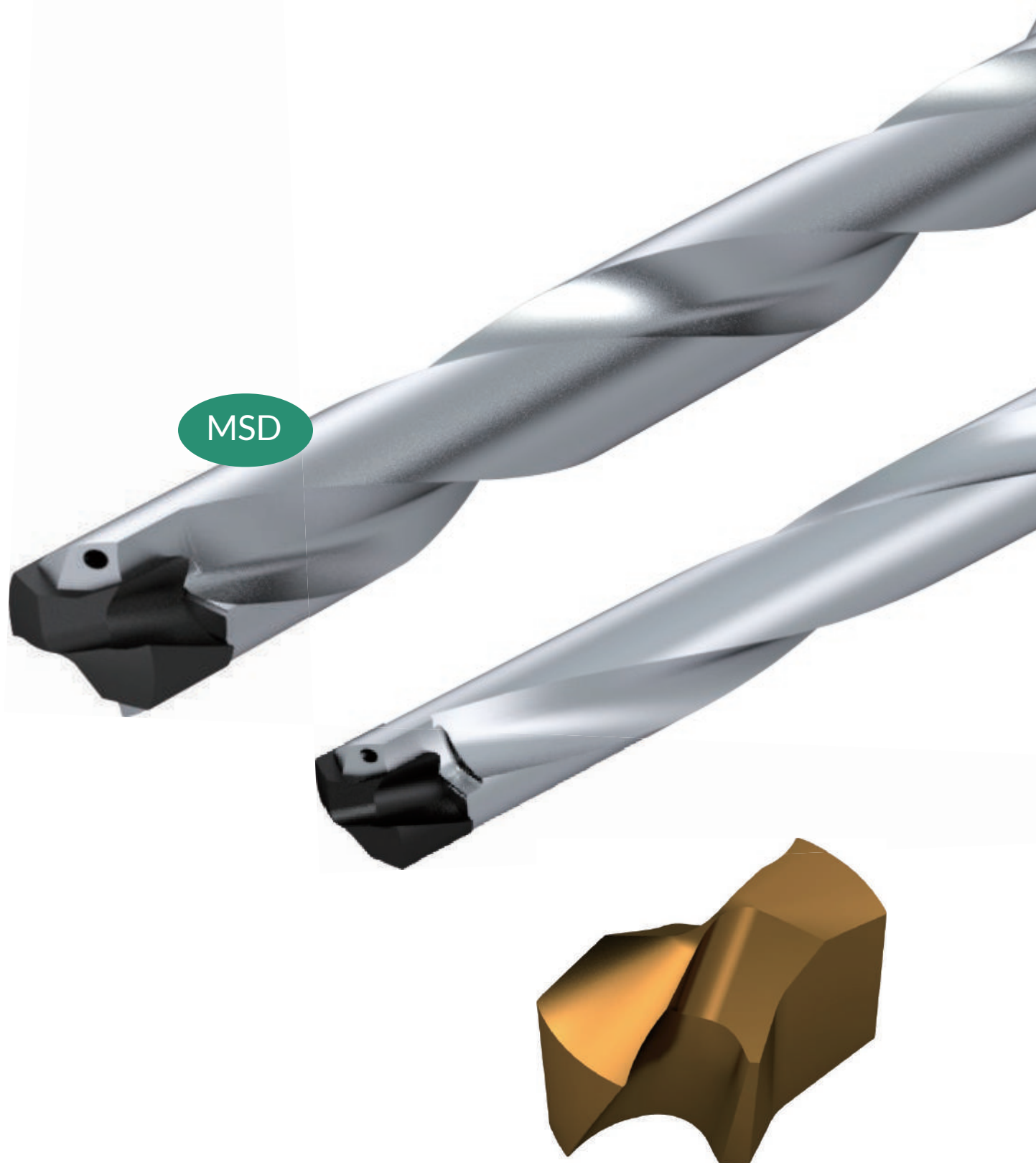
配件表 Accessories

刀 片 Insert	螺 絲 Screw	扳 手 Wrench	扭力值 (N.m) Torque
SDZ13~SDZ15	M2.5-5.5-3.3-60-T8-TIN	T8	1.2
SDZ15~SDZ17	M2.5-5.5-3.3-60-T8-TIN	T8	1.2
SDZ18~SDZ21	M3-8.0-4.4-60/M3-7.5-4.2-53	T9	1.4
SDZ22~SDZ24	M3-8.0-4.4-60/M3-7.5-4.2-53	T9	1.4
SDZ25~SDZ29	M4-8.75-5.6-60/M4-9.0-5.4-60	T15	3.0
SDZ30~SDZ34	M4-8.75-5.6-60/M4-9.0-5.4-60	T15	3.0



高性能模組化皇冠鑽頭

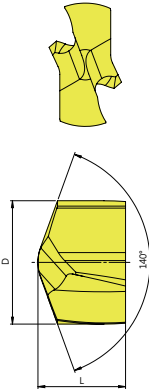
HIGH PERFORMANCE MODULAR DRILLS





高性能模組化皇冠鑽

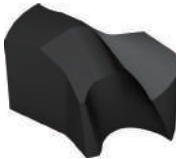
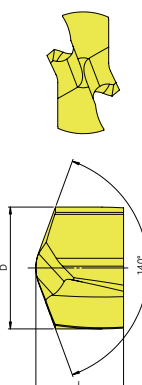
MSD Carbide Inserts

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				尺寸 (mm)				圖形 Drawing	
		OM4025	OM5005			Size					
						d	i	L	螺牙		
	MSD12.5-PM	●				12.5	-	9.6	M2.5		
	MSD13.0-PM	●				13.0	-	9.6	M2.5		
	MSD13.5-PM	●				13.5	-	9.6	M2.5		
	MSD14.0-PM	●				14.0	-	10.1	M2.5		
	MSD14.5-PM	●				14.5	-	10.1	M2.5		
	MSD15.0-PM	●				15.0	-	10.6	M2.5		
	MSD15.5-PM	●				15.5	-	10.6	M2.5		
	MSD16.0-PM	●				16.0	-	11.6	M3		
	MSD16.5-PM	●				16.5	-	11.6	M3		
	MSD17.0-PM	●				17.0	-	11.6	M3		
	MSD17.5-PM	●				17.5	-	11.6	M3		
	MSD18.0-PM	●				18.0	-	11.6	M3		
	MSD18.5-PM	●				18.5	-	12.6	M3		
	MSD19.0-PM	●				19.0	-	12.6	M3		
	MSD19.5-PM	●				19.5	-	12.6	M3		
	MSD20.0-PM	●				20.0	-	13.6	M3		
	MSD20.5-PM	●				20.5	-	13.6	M3		
	MSD21.0-PM	●				21.0	-	13.6	M3		
	MSD21.5-PM	●				21.5	-	13.6	M3		
	MSD22.0-PM	●				22.0	-	13.6	M3		
	MSD22.5-PM	●				22.5	-	14.6	M3		
	MSD23.0-PM	●				23.0	-	14.6	M3		
	MSD23.5-PM	●				23.5		14.6	M3		
	MSD24.0-PM	●				24.0		14.6	M3		
	MSD24.5-PM	●				24.5		15.6	M4		
	MSD25.0-PM	●				25.0		15.6	M4		
	MSD25.5-PM	●				25.5		15.6	M4		
	MSD26.0-PM	●				26.0		15.6	M4		
	MSD26.5-PM	●				26.5		16.6	M4		
	MSD27.0-PM	●				27.0		16.6	M4		
	MSD27.5-PM	●				27.5		16.6	M4		
	MSD28.0-PM	●				28.0		16.6	M4		
	MSD28.5-PM	●				28.5		17.6	M5		



高性能模組化皇冠鑽

MSD Carbide Inserts

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				尺寸 (mm) Size				圖形 Drawing	
		OM4025	OM5005			d	i	L	螺牙 Thread		
	MSD29.0-PM	●				29.0	-	17.6	M5		
	MSD29.5-PM	●				29.5	-	17.6	M5		
	MSD30.0-PM	●				30.0	-	17.6	M5		
	MSD30.5-PM	●				30.5	-	18.6	M5		
	MSD31.0-PM	●				31.0	-	18.6	M5		
	MSD31.5-PM	●				31.5	-	18.6	M5		
	MSD32.0-PM	●				32.0	-	18.6	M5		
	MSD32.5-PM	●				32.5	-	20.6	M6		
	MSD33.0-PM	●				33.0	-	20.6	M6		
	MSD33.5-PM	●				33.5	-	20.6	M6		
	MSD34.0-PM	●				34.0	-	20.6	M6		
	MSD34.5-PM	●				34.5	-	20.6	M6		
	MSD35.0-PM	●				35.0	-	20.6	M6		
	MSD35.5-PM	●				35.5	-	20.6	M6		
	MSD36.0-PM	●				36.0	-	20.6	M6		
	MSD36.5-PM	●				36.5	-	22.6	M6		
	MSD37.0-PM	●				37.0	-	22.6	M6		
	MSD37.5-PM	●				37.5	-	22.6	M6		
	MSD38.0-PM	●				38.0	-	22.6	M6		
	MSD38.5-PM	●				38.5	-	22.6	M6		
	MSD39.0-PM	●				39.0	-	22.6	M6		
	MSD39.5-PM	●				39.5	-	22.6	M6		
	MSD40.0-PM	●				40.0	-	22.6	M6		

※OM5005 鋁合金材質採接單生產

※OM5005 aluminum alloy is produced upon order.



MSD 切削條件數據表

MSD Dutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	進給率 fz(mm/rev)				
				Ø12.5-Ø15	Ø16-Ø19	Ø20-Ø24	Ø25-Ø31	Ø32-Ø33
P	低合金鋼 Low-Alloy Steels	RM4025	90~120	0.15~0.34	0.17~0.40	0.19~0.45	0.25~0.58	0.29~0.66
		RM4125	90~120	0.15~0.34	0.17~0.40	0.19~0.45	0.25~0.58	0.29~0.66
	合金鋼 Alloyed Steels	RM4025	50~95	0.15~0.28	0.17~0.34	0.19~0.40	0.25~0.51	0.23~0.58
		RM4125	50~95	0.15~0.28	0.17~0.34	0.19~0.40	0.25~0.51	0.23~0.58
M	不鏽鋼 Stainless Steels	RM4025	50~80	0.12~0.17	0.14~0.20	0.16~0.23	0.20~0.28	0.23~0.32
		RM4125	50~80	0.12~0.17	0.14~0.20	0.16~0.23	0.20~0.28	0.23~0.32
K	鑄鐵 Cast Iron	RM4025	90~125	0.18~0.33	0.21~0.41	0.25~0.44	0.31~0.48	0.37~0.53
		RM4125	90~125	0.18~0.33	0.21~0.41	0.25~0.44	0.31~0.48	0.37~0.53

■ 安裝

Installation Instruction

1

將中心螺絲調整到正確位置

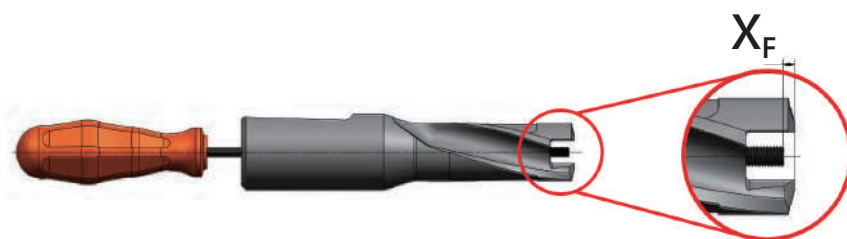
12.5-32.0時, $X_F=0$

32.1-40.0時, $X_F=2$

Adjust the center screw to the correct position:

When 12.5-32.0, $X_F=0$

When 32.1-40.0, $X_F=2$ "



2

順時針旋轉扳手，將刀片拉入刀片槽，
注意鬆緊度，太鬆和太緊都是不正常的。

Rotate the wrench clockwise, Pull the insert into the chip breaker,

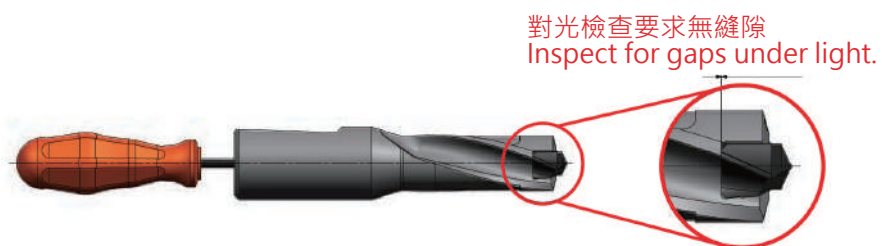
Pay attention to the tightness, both too loose or too tight are incorrect tightness.



3

對光檢查無縫隙。

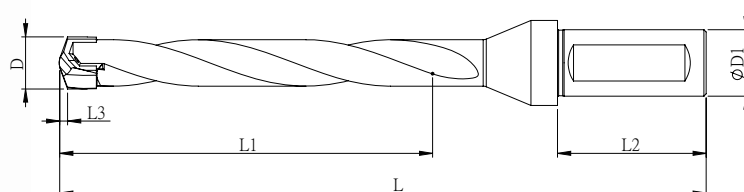
Inspect for gaps under light.





MSD 3xD 高性能模組化鑽頭

MSD 3xD High Performance Internal Cooling Modular Drills

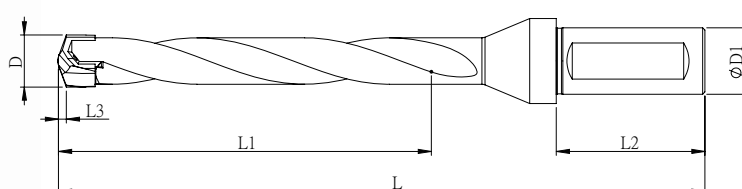


規格 Spec.	鑽頭直徑 D	最大鑽深 L1	鑽尖長 L3	柄長 L2	柄徑 d
C20-MSD12.5-38L	12.5-13.0	38	2.0	48	20
C20-MSD13.0-39L	13.0-13.5	39	2.1	48	20
C20-MSD13.6-42L	13.51-14.0	42	2.2	48	20
C20-MSD14.0-42L	14.0-14.5	42	2.2	48	20
C20-MSD14.6-45L	14.51-15.0	45	2.3	50	20
C20-MSD15.0-45L	15.0-15.5	45	2.4	50	20
C20-MSD15.5-47L	15.5-15.88	47	2.5	50	20
C20-MSD15.6-48L	15.89-16.5	48	2.5	50	20
C20-MSD16.5-50L	16.5-17.0	50	2.6	50	20
C20-MSD17.0-51L	17.0-17.5	51	2.7	50	20
C20-MSD17.5-53L	17.5-18.0	53	2.8	50	20
C25-MSD18.1-56L	18.01-18.5	56	2.9	56	25
C25-MSD18.5-56L	18.5-19.0	56	2.9	56	25
C25-MSD19.0-57L	19.0-19.5	57	3.0	56	25
C25-MSD19.5-59L	19.5-19.99	59	3.1	56	25
C25-MSD20.0-60L	20.0-20.5	60	3.2	56	25
C25-MSD20.5-62L	20.5-21.0	62	3.3	56	25
C25-MSD21.0-63L	21.0-21.5	63	3.3	56	25
C25-MSD21.5-65L	21.5-22.0	65	3.4	56	25
C25-MSD22.1-68L	22.01-22.5	68	3.5	56	25
C25-MSD22.5-68L	22.5-23.0	68	3.6	56	25
C25-MSD23.0-69L	23.0-23.5	69	3.7	56	25
C25-MSD23.5-71L	23.5-24.0	71	3.7	56	25
C32-MSD24.1-74L	24.01-24.5	74	3.8	60	32
C32-MSD24.5-74L	24.5-25.0	74	3.9	60	32
C32-MSD25.0-75L	25.0-25.5	75	3.8	60	32
C32-MSD25.5-77L	25.5-26.0	77	3.9	60	32



MSD 3xD 高性能模組化鑽頭

MSD 3xD High Performance Internal Cooling Modular Drills

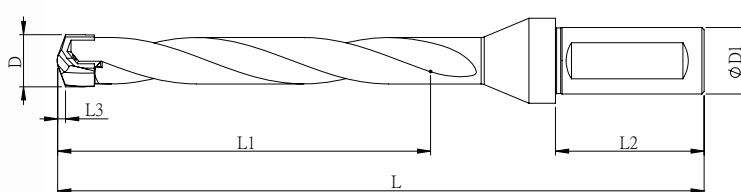


規格 Spec.	鑽頭直徑 D	最大鑽深 L1	鑽尖長 L3	柄長 L2	柄徑 d
C32-MSD26.1-80L	26.01-26.5	80	4.0	60	32
C32-MSD26.5-80L	26.5-27.0	80	4.1	60	32
C32-MSD27.0-81L	27.0-27.5	81	4.2	60	32
C32-MSD27.5-83L	27.5-28.0	83	4.2	60	32
C32-MSD28.1-86L	28.01-28.5	86	4.3	60	32
C32-MSD28.5-86L	28.5-29.0	86	4.4	60	32
C32-MSD29.0-87L	29.0-29.5	87	4.5	60	32
C32-MSD29.5-89L	29.5-30.0	89	4.5	60	32
C32-MSD30.1-91L	30.01-30.5	91	4.6	60	32
C32-MSD30.5-91L	30.5-31.0	91	4.7	60	32
C32-MSD31.0-93L	31.0-31.5	93	4.8	60	32
C32-MSD31.5-95L	31.5-32.0	95	4.8	60	32
C40-MSD32.1-99L	32.01-33.0	99	4.9	70	40
C40-MSD33.0-99L	33.0-34.0	99	5.1	70	40
C40-MSD34.0-102L	34.0-35.0	102	5.2	70	40
C40-MSD35.0-105L	35.0-36.0	105	5.4	70	40
C40-MSD36.1-111L	36.01-37.0	111	5.5	70	40
C40-MSD37.0-111L	37.0-38.0	111	5.7	70	40
C40-MSD38.0-114L	38.0-39.0	114	5.8	70	40
C40-MSD39.0-117L	39.0-40.0	117	6.0	70	40
C40-MSD40.0-120L	40.0	120	6.2	70	40



MSD 5xD 高性能模組化鑽頭

MSD 5xD High Performance Internal Cooling Modular Drills

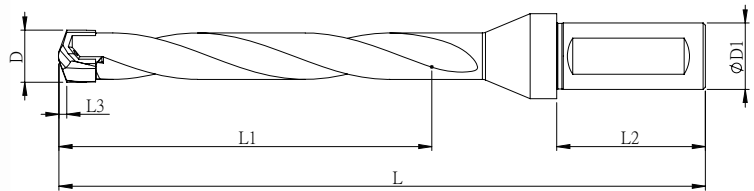


規格 Spec.	鑽頭直徑 D	最大鑽深 L1	鑽尖長 L3	柄長 L2	柄徑 d
C20-MSD12.5-63L	12.5-13.0	63	2.0	48	20
C20-MSD13.0-65L	13.0-13.5	65	2.1	48	20
C20-MSD13.6-69L	13.51-14.0	69	2.2	48	20
C20-MSD14.0-70L	14.0-14.5	70	2.2	48	20
C20-MSD14.6-74L	14.51-15.0	74	2.3	50	20
C20-MSD15.0-75L	15.0-15.5	75	2.4	50	20
C20-MSD15.5-78L	15.5-15.88	78	2.5	50	20
C20-MSD15.9-80L	15.89-16.5	80	2.5	50	20
C20-MSD16.5-83L	16.5-17.0	83	2.6	50	20
C20-MSD17.0-85L	17.0-17.5	85	2.7	50	20
C20-MSD17.5-88L	17.5-18.0	88	2.8	50	20
C25-MSD18.1-92L	18.01-18.5	92	2.9	56	25
C25-MSD18.5-93L	18.5-19.0	93	2.9	56	25
C25-MSD19.0-95L	19.0-19.5	95	3.0	56	25
C25-MSD19.5-98L	19.5-19.99	98	3.1	56	25
C25-MSD20.0-100L	20.0-20.5	100	3.2	56	25
C25-MSD20.5-103L	20.5-21.0	103	3.3	56	25
C25-MSD21.0-105L	21.0-21.5	105	3.3	56	25
C25-MSD21.5-108L	21.5-22.0	108	3.4	56	25
C25-MSD22.1-112L	22.01-22.5	112	3.5	56	25
C25-MSD22.5-113L	22.5-23.0	113	3.6	56	25
C25-MSD23.0-115L	23.0-23.5	115	3.7	56	25
C25-MSD23.5-118L	23.5-24.0	118	3.7	56	25
C32-MSD24.1-122L	24.01-24.5	122	3.8	60	32
C32-MSD24.5-123L	24.5-25.0	123	3.9	60	32
C32-MSD25.0-125L	25.0-25.5	125	3.8	60	32
C32-MSD25.5-128L	25.5-26.0	128	3.9	60	32



MSD 5xD 高性能模組化鑽頭

MSD 5xD High Performance Internal Cooling Modular Drills

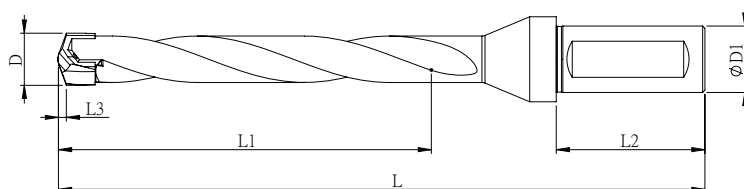


規格 Spec.	鑽頭直徑 D	最大鑽深 L1	鑽尖長 L3	柄長 L2	柄徑 d
C32-MSD26.1-132L	26.01-26.5	132	4.0	60	32
C32-MSD26.5-133L	26.5-27.0	133	4.1	60	32
C32-MSD27.0-135L	27.0-27.5	135	4.2	60	32
C32-MSD27.5-138L	27.5-28.0	138	4.2	60	32
C32-MSD28.1-142L	28.01-28.5	142	4.3	60	32
C32-MSD28.5-143L	28.5-29.0	143	4.4	60	32
C32-MSD29.0-145L	29.0-29.5	145	4.5	60	32
C32-MSD29.5-143L	29.5-30.0	143	4.5	60	32
C32-MSD30.1-151L	30.01-30.5	151	4.6	60	32
C32-MSD30.5-152L	30.5-31.0	152	4.7	60	32
C32-MSD31.0-155L	31.0-31.5	155	4.8	60	32
C32-MSD31.5-158L	31.5-32.0	158	4.8	60	32
C40-MSD32.1-163L	32.01-33.0	163	4.9	70	40
C40-MSD33.0-165L	33.0-34.0	165	5.1	70	40
C40-MSD34.0-170L	34.0-35.0	170	5.2	70	40
C40-MSD35.0-175L	35.0-36.0	175	5.4	70	40
C40-MSD36.1-183L	36.01-37.0	183	5.5	70	40
C40-MSD37.0-185L	37.0-38.0	185	5.7	70	40
C40-MSD38.0-190L	38.0-39.0	190	5.8	70	40
C40-MSD39.0-195L	39.0-40.0	195	6.0	70	40
C40-MSD40.0-200L	40.0	200	6.2	70	40



MSD 7xD 高性能模組化鑽頭

MSD 7xD High Performance Internal Cooling Modular Drills

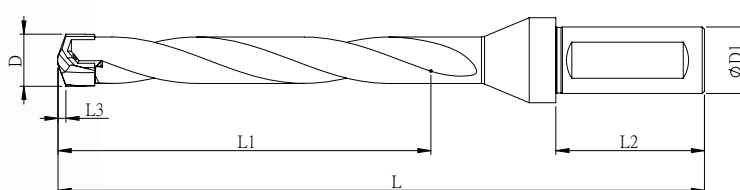


規格 Spec.	鑽頭直徑 D	最大鑽深 L1	鑽尖長 L3	柄長 L2	柄徑 d
C20-MSD12.5-88L	12.5-13.0	88	2.0	48	20
C20-MSD13.0-91L	13.0-13.5	91	2.1	48	20
C20-MSD13.6-96L	13.51-14.0	96	2.2	48	20
C20-MSD14.0-98L	14.0-14.5	98	2.2	48	20
C20-MSD14.6-103L	14.51-15.0	103	2.3	50	20
C20-MSD15.0-105L	15.0-15.5	105	2.4	50	20
C20-MSD15.5-109L	15.5-15.88	109	2.5	50	20
C20-MSD15.9-112L	15.89-16.5	112	2.5	50	20
C20-MSD16.5-116L	16.5-17.0	116	2.6	50	20
C20-MSD17.0-119L	17.0-17.5	119	2.7	50	20
C20-MSD17.5-123L	17.5-18.0	123	2.8	50	20
C25-MSD18.1-128L	18.01-18.5	128	2.9	56	25
C25-MSD18.5-130L	18.5-19.0	130	2.9	56	25
C25-MSD19.0-133L	19.0-19.5	133	3.0	56	25
C25-MSD19.5-137L	19.5-19.99	137	3.1	56	25
C25-MSD20.0-140L	20.0-20.5	140	3.2	56	25
C25-MSD20.5-144L	20.5-21.0	144	3.3	56	25
C25-MSD21.0-147L	21.0-21.5	147	3.3	56	25
C25-MSD21.5-151L	21.5-22.0	151	3.4	56	25
C25-MSD22.1-156L	22.01-22.5	156	3.5	56	25
C25-MSD22.5-158L	22.5-23.0	158	3.6	56	25
C25-MSD23.0-161L	23.0-23.5	161	3.7	56	25
C25-MSD23.5-165L	23.5-24.0	165	3.7	56	25
C32-MSD24.1-170L	24.01-24.5	170	3.8	60	32
C32-MSD24.5-172L	24.5-25.0	172	3.9	60	32
C32-MSD25.0-175L	25.0-25.5	175	3.8	60	32
C32-MSD25.6-179L	25.51-26.0	179	3.9	60	32



MSD 7xD 高性能模組化鑽頭

MSD 7xD High Performance Internal Cooling Modular Drills

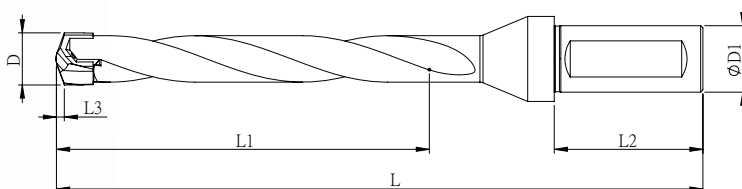


規格 Spec.	鑽頭直徑 D	最大鑽深 L1	鑽尖長 L3	柄長 L2	柄徑 d
C32-MSD26.1-184L	26.01-26.5	184	4.0	60	32
C32-MSD26.5-186L	26.5-27.0	186	4.1	60	32
C32-MSD27.0-189L	27.0-27.5	189	4.2	60	32
C32-MSD27.5-193L	27.5-28.0	193	4.2	60	32
C32-MSD28.1-198L	28.01-28.5	198	4.3	60	32
C32-MSD28.5-200L	28.5-29.0	200	4.4	60	32
C32-MSD29.0-203L	29.0-29.5	203	4.5	60	32
C32-MSD29.5-207L	29.5-30.0	207	4.5	60	32
C32-MSD30.1-211L	30.01-30.5	211	4.6	60	32
C32-MSD30.5-213L	30.5-31.0	213	4.7	60	32
C32-MSD31.0-217L	31.0-31.5	217	4.8	60	32
C32-MSD31.5-221L	31.5-32.0	221	4.8	60	32
C40-MSD32.1-227L	32.01-33.0	227	4.9	70	40
C40-MSD33.0-231L	33.0-34.0	231	5.1	70	40
C40-MSD34.0-238L	34.0-35.0	238	5.2	70	40
C40-MSD35.0-245L	35.0-36.0	245	5.4	70	40
C40-MSD36.1-255L	36.01-37.0	255	5.5	70	40
C40-MSD37.0-259L	37.0-38.0	259	5.7	70	40
C40-MSD38.0-266L	38.0-39.0	266	5.8	70	40
C40-MSD39.0-273L	39.0-40.0	273	6.0	70	40
C40-MSD40.0-280L	40.0	280	6.2	70	40



MSD 10xD 高性能模組化鑽頭

MSD 10xD High Performance Internal Cooling Modular Drills

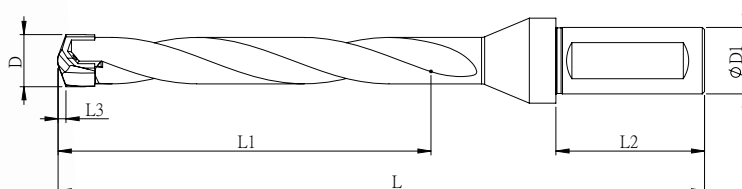


規格 Spec.	鑽頭直徑 D	最大鑽深 L1	鑽尖長 L3	柄長 L2	柄徑 d
C20-MSD12.5-125L	12.5-13.0	125	2.0	48	20
C20-MSD13.0-130L	13.0-13.5	130	2.1	48	20
C20-MSD13.6-136L	13.51-14.0	136	2.2	48	20
C20-MSD14.0-140L	14.0-14.5	140	2.2	48	20
C20-MSD14.6-146L	14.51-15.0	146	2.3	50	20
C20-MSD15.0-150L	15.0-15.5	150	2.4	50	20
C20-MSD15.5-155L	15.5-15.88	155	2.5	50	20
C20-MSD15.9-160L	15.89-16.5	160	2.5	50	20
C20-MSD16.5-165L	16.5-17.0	165	2.6	50	20
C20-MSD17.0-170L	17.0-17.5	170	2.7	50	20
C20-MSD17.5-175L	17.5-18.0	175	2.8	50	20
C25-MSD18.1-182L	18.01-18.5	182	2.9	56	25
C25-MSD18.5-185L	18.5-19.0	185	2.9	56	25
C25-MSD19.0-190L	19.0-19.5	190	3.0	56	25
C25-MSD19.5-195L	19.5-19.99	195	3.1	56	25
C25-MSD20.0-200L	20.0-20.5	200	3.2	56	25
C25-MSD20.5-205L	20.5-21.0	205	3.3	56	25
C25-MSD21.0-210L	21.0-21.5	210	3.3	56	25
C25-MSD21.5-215L	21.5-22.0	215	3.4	56	25
C25-MSD22.1-222L	22.01-22.5	222	3.5	56	25
C25-MSD22.5-225L	22.5-23.0	225	3.6	56	25
C25-MSD23.0-230L	23.0-23.5	230	3.7	56	25
C25-MSD23.5-235L	23.5-24.0	235	3.7	56	25
C32-MSD24.1-242L	24.01-24.5	242	3.8	60	32
C32-MSD24.5-245L	24.5-25.0	245	3.9	60	32
C32-MSD25.0-250L	25.0-25.5	250	3.8	60	32
C32-MSD25.5-255L	25.5-26.0	255	3.9	60	32



MSD 10xD 高性能模組化鑽頭

MSD 10xD High Performance Internal Cooling Modular Drills



規格 Spec.	鑽頭直徑 D	最大鑽深 L1	鑽尖長 L3	柄長 L2	柄徑 d
C32-MSD26.1-262L	26.01-26.5	262	4.0	60	32
C32-MSD26.5-265L	26.5-27.0	265	4.1	60	32
C32-MSD27.0-270L	27.0-27.5	270	4.2	60	32
C32-MSD27.5-275L	27.5-28.0	275	4.2	60	32
C32-MSD28.1-282L	28.01-28.5	282	4.3	60	32
C32-MSD28.5-285L	28.5-29.0	285	4.4	60	32
C32-MSD29.0-290L	29.0-29.5	290	4.5	60	32
C32-MSD29.5-295L	29.5-30.0	295	4.5	60	32
C32-MSD30.1-302L	30.01-30.5	302	4.6	60	32
C32-MSD30.5-305L	30.5-31.0	305	4.7	60	32
C32-MSD31.0-310L	31.0-31.5	310	4.8	60	32
C32-MSD31.5-315L	31.5-32.0	315	4.8	60	32
C40-MSD32.1-323L	32.01-33.0	323	4.9	70	40
C40-MSD33.0-330L	33.0-34.0	330	5.1	70	40
C40-MSD34.0-340L	34.0-35.0	340	5.2	70	40
C40-MSD35.0-350L	35.0-36.0	350	5.4	70	40
C40-MSD36.1-363L	36.01-37.0	363	5.5	70	40
C40-MSD37.0-370L	37.0-38.0	370	5.7	70	40
C40-MSD38.0-380L	38.0-39.0	380	5.8	70	40
C40-MSD39.0-390L	39.0-40.0	390	6.0	70	40
C40-MSD40.0-400L	40.0	400	6.2	70	40

刀具再研磨服務

Re-sharpening Service

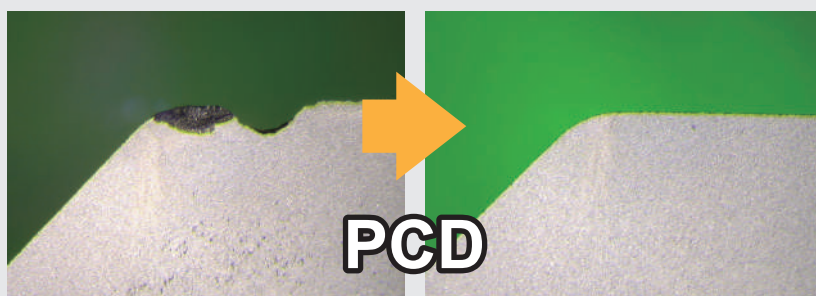
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- ② 刀具壽命延長，**降低成本**
- ③ 可重新研磨至所需尺寸
- ④ 節省至少**75%**的費用
- ⑤ 重新研磨後，刀片仍可達到傑出的加工效能
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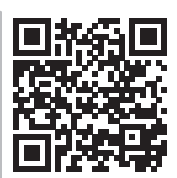
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