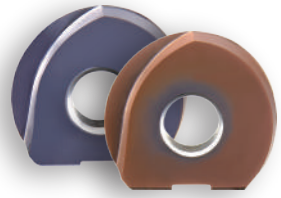
DHF



DESIGN · HONESTY · FUTURE

日月潭 Sun Moon Lake

圖示說明
Guide Lines to Icons

鎢鋼種類 Carbide

MG — 超微粒。 Micro grain.

Perfect MG — 超微粒。 Micro grain.

Super MG — 極超微粒。 Super micro grain.

顆粒大小 Grain Size

0.2 μm — 粉末顆粒是0.2μm Grain size is 0.2 μm.

0.4 μm — 粉末顆粒是0.4μm Grain size is 0.4 μm.

0.6 μm — 粉末顆粒是0.6μm Grain size is 0.6 μm.

齒形 Roughing

Roughing — 大粗齒 Big Roughing.

Roughing — 中粗齒 Middle Roughing.

Roughing — 細粗齒 Small Roughing.

螺旋角 Helix Angle

0° 5° 15° 25° 30° 0° 20° 25°

27° 30° 35° 37° 40° 45° 50° 55°

螺旋角度0°、5°、15°、20°、25°、27°、30°、35°、37°、40°、45°、50°、55°。
Helix Angle is 0°, 5°, 15°, 20°, 25°, 27°, 30°,35°,37°,40°,45°,50°,55°.

鑽孔深度 Drilling Depth Of Diameter.

3D — 可加工3倍鑽頭直徑的鑽孔深度。 3 times of drilling depth of diameter.

5D — 可加工5倍鑽頭直徑的鑽孔深度。 5 times of drilling depth of diameter.

8D — 可加工8倍鑽頭直徑的鑽孔深度。 8 times of drilling depth of diameter.

刀柄 Shank

FIT — 適用於熱縮刀柄系統。 Suitable for the shrink fit holder System.

縮頸 Shrink Neck

適用於深溝加工。
Best for long neck machine.

圓隅角 Corner R

R — 圓隅角。 Corner Radius.

刃數 Flute

2 Flutes, 2 Flutes, 3 Flutes, 4 Flutes, 4 Flutes, 4 Flutes, 5 Flutes, 6 Flutes, 6 Flutes

被切削材硬度 Work Material Hardness

HRc ▸45, HRc ▸50, HRc ▸52, HRc ▸55, HRc ▸60, HRc ▸62, HRc ▸65

被切削工件硬度可達HRc45、50、52、55、60、62、65。
Work material hardness is up to HRc45、50、52、55、60、62、65.

鍍層 Coating

G7 — 含碳量高之材料及一般鋼材 (濕式、油霧切削) High carbon material and general steel. (Wet, MQL cutting)

G12 — 適用於高速、高硬度加工。乾式、油霧、溼式切削 (乾溼兩用) Good at high speed cutting & high hard cutting. For Dry cutting, MQL and Wet cutting

G10 — 難切削材及一般鋼材(濕式、油霧切削) Difficult material and general steel. (Wet, MQL cutting)

G15 — 適用於高速、高硬度切削。乾式、油霧切削。 Good at high speed cutting & high hard cutting. For Dry cutting and MQL.

T1 — 適用於各式切削，使用壽命長。 Genetally used on all kind of machining with benefit of long tool life.

T2 — 適用於高速加工。乾式切削。 Good at high speed cutting. For Dry cutting.

Diamond — 石墨、氧化鋯、碳纖維、陶瓷之切削 (乾式氣冷切削) Graphite, Zirconia, carbon fiber and ceramic cutting. (Air dry cutting)

鑽尖 Drill Point

S type — 適用於3D曲面切削。 It is suitable for three-dimentional curved surface cutting.

XR type — 適用於各式切削，使用壽命長。 It is suitable for all types of cutting. Long tool life.

鈍化處理 Passivation Treatment

P POLISH — 刃口經過鈍化。 passivated edge.

二代變形鎢鋼立銑刀
Exchangeable Head Endmill 2

刀具推薦表詳見 P.54
Selection of Endmill P.54

X-WDEX

FIT SHANK

抗震鎢鋼刀桿（內冷孔）
Solid Carbide Shank (Internal Coolant Hole)

型號 Type No.	D1 柄徑 Shank Dia.	L1 全長 O.A.L.	M 螺牙 Thread Size
X-WDEX-080060	8.0	60	M 5 -3P
X-WDEX-080075	8.0	75	M 5 -3P
X-WDEX-080100	8.0	100	M 5 -3P
X-WDEX-100060	10.0	60	M 7 -3P
X-WDEX-100075	10.0	75	M 7 -3P
X-WDEX-100100	10.0	100	M 7 -3P
X-WDEX-100150	10.0	150	M 7 -3P
X-WDEX-120060	12.0	60	M 8 -3P
X-WDEX-120080	12.0	80	M 8 -3P
X-WDEX-120100	12.0	100	M 8 -3P
X-WDEX-120150	12.0	150	M 8 -3P
X-WDEX-160060	16.0	60	M10 -3P
X-WDEX-160080	16.0	80	M10 -3P
X-WDEX-160100	16.0	100	M10 -3P
X-WDEX-160150	16.0	150	M10 -3P
X-WDEX-160200	16.0	200	M10 -3P
X-WDEX-200060	20.0	60	M12 -3P
X-WDEX-200080	20.0	80	M12 -3P
X-WDEX-200100	20.0	100	M12 -3P
X-WDEX-200150	20.0	150	M12 -3P
X-WDEX-200200	20.0	200	M12 -3P
X-WDEX-200250	20.0	250	M12 -3P
X-WDEX-200300	20.0	300	M12 -3P
X-WDEX-250100	25.0	100	M16 -3P
X-WDEX-250150	25.0	150	M16 -3P
X-WDEX-250200	25.0	200	M16 -3P
X-WDEX-250250	25.0	250	M16 -3P
X-WDEX-250300	25.0	300	M16 -3P
X-WDEX-320100	32.0	100	M20 -3P
X-WDEX-320150	32.0	150	M20 -3P
X-WDEX-320200	32.0	200	M20 -3P
X-WDEX-320250	32.0	250	M20 -3P
X-WDEX-320300	32.0	300	M20 -3P

X-WHEX

FIT SHANK

抗震鎢鋼刀桿（內冷孔）
Solid Carbide Shank (Internal Coolant Hole)

型號 Type No.	D2 頸徑 Neck Dia.	L1 全長 O.A.L.	L2 有效長 Effective Length	D1 柄徑 Shank Dia.	M 螺牙 Thread Size
X-WHEX-080060	7.8	60	15	8.0	M 5 -3P
X-WHEX-080075	7.8	75	20	8.0	M 5 -3P
X-WHEX-080100	7.8	100	20	8.0	M 5 -3P
X-WHEX-100060	9.8	60	15	10.0	M 7 -3P
X-WHEX-100075	9.8	75	20	10.0	M 7 -3P
X-WHEX-100100	9.8	100	20	10.0	M 7 -3P
X-WHEX-100150	9.8	150	40	10.0	M 7 -3P
X-WHEX-120060	11.7	60	15	12.0	M 8 -3P
X-WHEX-120080	11.7	80	20	12.0	M 8 -3P
X-WHEX-120100	11.7	100	60	12.0	M 8 -3P
X-WHEX-120150	11.7	150	90	12.0	M 8 -3P
X-WHEX-160060	15.6	60	15	16.0	M10 -3P
X-WHEX-160080	15.6	80	30	16.0	M10 -3P
X-WHEX-160100	15.6	100	60	16.0	M10 -3P
X-WHEX-160150	15.6	150	90	16.0	M10 -3P
X-WHEX-160200	15.6	200	120	16.0	M10 -3P
X-WHEX-200060	19.5	60	20	20.0	M12 -3P
X-WHEX-200080	19.5	80	40	20.0	M12 -3P
X-WHEX-200100	19.5	100	60	20.0	M12 -3P
X-WHEX-200150	19.5	150	90	20.0	M12 -3P
X-WHEX-200200	19.5	200	120	20.0	M12 -3P
X-WHEX-200250	19.5	250	150	20.0	M12 -3P
X-WHEX-200300	19.5	300	180	20.0	M12 -3P
X-WHEX-250100	24.4	100	50	25.0	M16 -3P
X-WHEX-250150	24.4	150	90	25.0	M16 -3P
X-WHEX-250200	24.4	200	120	25.0	M16 -3P
X-WHEX-250250	24.4	250	150	25.0	M16 -3P
X-WHEX-250300	24.4	300	180	25.0	M16 -3P
X-WHEX-320100	31.2	100	50	32.0	M20 -3P
X-WHEX-320150	31.2	150	90	32.0	M20 -3P
X-WHEX-320200	31.2	200	120	32.0	M20 -3P
X-WHEX-320250	31.2	250	150	32.0	M20 -3P
X-WHEX-320300	31.2	300	180	32.0	M20 -3P

X-WFEX

FIT SHANK

抗震鎢鋼刀桿（內冷孔）
Solid Carbide Shank (Internal Coolant Hole)

型號 Type No.	D2 頸徑 Neck Dia.	L1 全長 O.A.L.	L2 有效長 Effective Length	L3 斜頸長 T.A.L.	D1 柄徑 Shank Dia.	M 螺牙 Thread Size	α 斜角 Taper Angle
X-WFEX-120100	9.8	100	2	44	12.0	M 7 -3P	1.5
X-WFEX-120150	9.8	150	2	65	12.0	M 7 -3P	1.0
X-WFEX-160100	11.7	100	3	50	16.0	M 8 -3P	2.0
X-WFEX-160150	11.7	150	3	85	16.0	M 8 -3P	1.5
X-WFEX-160200	11.7	200	3	126	16.0	M 8 -3P	1.0
X-WFEX-200100	15.6	100	4	50	20.0	M10-3P	2.0
X-WFEX-200150	15.6	150	4	88	20.0	M10-3P	1.5
X-WFEX-200200	15.6	200	4	130	20.0	M10-3P	1.0
X-WFEX-250200	19.5	200	6	111	25.0	M12-3P	1.5
X-WFEX-250300	19.5	300	6	164	25.0	M12-3P	1.0
X-WFEX-320300	24.4	300	8	153	32.0	M16-3P	1.5

X-UOR

Super MG | 0.2 μm | 0° | R | 4 Flutes | HRc ▸65 | G15

直刃圓鼻角立銑刀頭
End Mills

Corner Radius

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	R 圓鼻角 Corner R	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-UOR0810	8.0	3.5	1.0	7.8	10.1	M 5 -3P	K08
X-UOR0820	8.0	3.5	2.0	7.8	10.1	M 5 -3P	K08
X-UOR1010	10.0	4.0	1.0	9.8	11.1	M 7 -3P	K10
X-UOR1020	10.0	4.0	2.0	9.8	11.1	M 7 -3P	K10
X-UOR1110	11.0	4.0	1.0	10.7	11.1	M 7 -3P	K10
X-UOR1120	11.0	4.0	2.0	10.7	11.1	M 7 -3P	K10
X-UOR1220	12.0	5.0	2.0	11.7	13.8	M 8 -3P	K12
X-UOR1230	12.0	5.0	3.0	11.7	13.8	M 8 -3P	K12
X-UOR1320	13.0	5.0	2.0	12.7	13.8	M 8 -3P	K12
X-UOR1330	13.0	5.0	3.0	12.7	13.8	M 8 -3P	K12
X-UOR1620	16.0	6.5	2.0	15.6	14.7	M10-3P	K16
X-UOR1630	16.0	6.5	3.0	15.6	14.7	M10-3P	K16
X-UOR1640	16.0	6.5	4.0	15.6	14.7	M10-3P	K16
X-UOR1720	17.0	6.5	2.0	16.6	14.7	M10-3P	K16
X-UOR1730	17.0	6.5	3.0	16.6	14.7	M10-3P	K16
X-UOR1740	17.0	6.5	4.0	16.6	14.7	M10-3P	K16
X-UOR2030	20.0	8.0	3.0	19.5	18.1	M12-3P	K20
X-UOR2050	20.0	8.0	5.0	19.5	18.1	M12-3P	K20

X-UEYR

Super MG | 0.2 μm | -20° | R | 4 Flutes | HRc ▸65 | G15

直刃圓鼻角立銑刀頭
End Mills

Corner Radius

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	R 圓鼻角 Corner R	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-UEYR0810	8.0	3.5	1.0	7.8	10.1	M 5 -3P	K08
X-UEYR0820	8.0	3.5	2.0	7.8	10.1	M 5 -3P	K08
X-UEYR1010	10.0	4.0	1.0	9.8	11.1	M 7 -3P	K10
X-UEYR1020	10.0	4.0	2.0	9.8	11.1	M 7 -3P	K10
X-UEYR1220	12.0	5.0	2.0	11.7	13.8	M 8 -3P	K12
X-UEYR1230	12.0	5.0	3.0	11.7	13.8	M 8 -3P	K12
X-UEYR1620	16.0	6.5	2.0	15.6	14.7	M10-3P	K16
X-UEYR1630	16.0	6.5	3.0	15.6	14.7	M10-3P	K16
X-UEYR1640	16.0	6.5	4.0	15.6	14.7	M10-3P	K16
X-UEYR2030	20.0	8.0	3.0	19.5	18.1	M12-3P	K20
X-UEYR2050	20.0	8.0	5.0	19.5	18.1	M12-3P	K20

X-UET

Super MG | 0.4 μm | 45° | 4 Flutes | HRc ▸60 | G12

極超微粒立銑刀頭
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-UET0804	8.0	8.0	7.8	12.1	M 5 -3P	K08
X-UET1004	10.0	10.0	9.8	16.1	M 7 -3P	K10
X-UET1204	12.0	12.0	11.7	20.3	M 8 -3P	K12
X-UET1604	16.0	16.0	15.6	25.7	M10-3P	K16
X-UET2004	20.0	20.0	19.5	31.1	M12-3P	K20
X-UET2504	25.0	25.0	24.4	39.3	M16-3P	K25
X-UET3204	32.0	32.0	31.2	48.0	M20-3P	K32

X-UXR

Super MG | 0.4 μm | 35° | R | 4 Flutes | HRc ▸60 | G12

圓鼻角立銑刀頭
End Mills

Corner Radius

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	R 圓鼻角 Corner R	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-UXR0803	8.0	8.0	0.3	7.8	12.1	M 5 -3P	K08
X-UXR0805	8.0	8.0	0.5	7.8	12.1	M 5 -3P	K08
X-UXR0810	8.0	8.0	1.0	7.8	12.1	M 5 -3P	K08
X-UXR1005	10.0	10.0	0.5	9.8	16.1	M 7 -3P	K10
X-UXR1010	10.0	10.0	1.0	9.8	16.1	M 7 -3P	K10
X-UXR1205	12.0	12.0	0.5	11.7	20.3	M 8 -3P	K12
X-UXR1210	12.0	12.0	1.0	11.7	20.3	M 8 -3P	K12
X-UXR1605	16.0	16.0	0.5	15.6	25.7	M10-3P	K16
X-UXR1610	16.0	16.0	1.0	15.6	25.7	M10-3P	K16
X-UXR1620	16.0	16.0	2.0	15.6	25.7	M10-3P	K16
X-UXR2010	20.0	20.0	1.0	19.5	31.1	M12-3P	K20
X-UXR2020	20.0	20.0	2.0	19.5	31.1	M12-3P	K20
X-UXR2030	20.0	20.0	3.0	19.5	31.1	M12-3P	K20
X-UXR2530	25.0	25.0	3.0	24.4	39.3	M16-3P	K25
X-UXR2550	25.0	25.0	5.0	24.4	39.3	M16-3P	K25

X-UEX

Super MG | 0.2 μm | 45° | 4 Flutes | HRc ▸65 | G15

無敵高效能立銑刀頭
End Mills

High Hardened

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-UEX0804	8.0	8.0	7.8	12.1	M 5 -3P	K08
X-UEX1004	10.0	10.0	9.8	16.1	M 7 -3P	K10
X-UEX1204	12.0	12.0	11.7	20.3	M 8 -3P	K12
X-UEX1604	16.0	16.0	15.6	25.7	M10-3P	K16
X-UEX2004	20.0	20.0	19.5	31.1	M12-3P	K20
X-UEX2504	25.0	25.0	24.4	39.3	M16-3P	K25
X-UEX3204	32.0	32.0	31.2	48.0	M20-3P	K32

X-UEXR

Super MG | 0.2 μm | 45° | R | 4 Flutes | HRc ▸65 | G15

無敵高效能立銑刀頭
End Mills

High Hardened

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	R 圓鼻角 Corner R	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-UEXR0803	8.0	8.0	0.3	7.8	12.1	M 5 -3P	K08
X-UEXR0805	8.0	8.0	0.5	7.8	12.1	M 5 -3P	K08
X-UEXR0810	8.0	8.0	1.0	7.8	12.1	M 5 -3P	K08
X-UEXR1005	10.0	10.0	0.5	9.8	16.1	M 7 -3P	K10
X-UEXR1010	10.0	10.0	1.0	9.8	16.1	M 7 -3P	K10
X-UEXR1205	12.0	12.0	0.5	11.7	20.3	M 8 -3P	K12
X-UEXR1210	12.0	12.0	1.0	11.7	20.3	M 8 -3P	K12
X-UEXR1220	12.0	12.0	2.0	11.7	20.3	M 8 -3P	K12
X-UEXR1610	16.0	16.0	1.0	15.6	25.7	M10-3P	K16
X-UEXR1620	16.0	16.0	2.0	15.6	25.7	M10-3P	K16
X-UEXR1630	16.0	16.0	3.0	15.6	25.7	M10-3P	K16
X-UEXR2010	20.0	20.0	1.0	19.5	31.1	M12-3P	K20
X-UEXR2020	20.0	20.0	2.0	19.5	31.1	M12-3P	K20
X-UEXR2030	20.0	20.0	3.0	19.5	31.1	M12-3P	K20
X-UEXR2510	25.0	25.0	1.0	24.4	39.3	M16-3P	K25
X-UEXR2530	25.0	25.0	3.0	24.4	39.3	M16-3P	K25
X-UEXR2550	25.0	25.0	5.0	24.4	39.3	M16-3P	K25
X-UEXR3230	32.0	32.0	3.0	31.2	48.0	M20-3P	K32
X-UEXR3250	32.0	32.0	5.0	31.2	48.0	M20-3P	K32

X-UPS

Super MG | 0.4 μm | 45° | 4 Flutes | HRc ▸60 | G10

無敵高效能立銑刀頭 End Mills

Heavy Duty

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-UPS0804	8.0	8.0	7.8	12.1	M 5 -3P	K08
X-UPS1004	10.0	10.0	9.8	16.1	M 7 -3P	K10
X-UPS1204	12.0	12.0	11.7	20.3	M 8 -3P	K12
X-UPS1604	16.0	16.0	15.6	25.7	M10-3P	K16
X-UPS2004	20.0	20.0	19.5	31.1	M12-3P	K20
X-UPS2504	25.0	25.0	24.4	39.3	M16-3P	K25
X-UPS3204	32.0	32.0	31.2	48.0	M20-3P	K32

X-UPR

Super MG | 0.2 μm | 25° | R | 4 Flutes | HRc ▸65 | G15

高硬度用圓鼻角立銑刀頭 End Mills

Corner Radius

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	R 圓鼻角 Corner R	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-UPR0805	8.0	8.0	0.5	7.8	12.1	M 5 -3P	K08
X-UPR0810	8.0	8.0	1.0	7.8	12.1	M 5 -3P	K08
X-UPR1005	10.0	10.0	0.5	9.8	16.1	M 7 -3P	K10
X-UPR1010	10.0	10.0	1.0	9.8	16.1	M 7 -3P	K10
X-UPR1210	12.0	12.0	1.0	11.7	20.3	M 8 -3P	K12
X-UPR1220	12.0	12.0	2.0	11.7	20.3	M 8 -3P	K12
X-UPR1610	16.0	16.0	1.0	15.6	25.7	M10-3P	K16
X-UPR1620	16.0	16.0	2.0	15.6	25.7	M10-3P	K16
X-UPR1630	16.0	16.0	3.0	15.6	25.7	M10-3P	K16
X-UPR2010	20.0	20.0	1.0	19.5	31.1	M12-3P	K20
X-UPR2020	20.0	20.0	2.0	19.5	31.1	M12-3P	K20
X-UPR2030	20.0	20.0	3.0	19.5	31.1	M12-3P	K20
X-UPR2050	20.0	20.0	5.0	19.5	31.1	M12-3P	K20
X-UPR2510	25.0	25.0	1.0	24.4	39.3	M16-3P	K25
X-UPR2520	25.0	25.0	2.0	24.4	39.3	M16-3P	K25
X-UPR2530	25.0	25.0	3.0	24.4	39.3	M16-3P	K25
X-UPR2550	25.0	25.0	5.0	24.4	39.3	M16-3P	K25
X-UPR3210	32.0	32.0	1.0	31.2	48.0	M20-3P	K32
X-UPR3230	32.0	32.0	3.0	31.2	48.0	M20-3P	K32
X-UPR3250	32.0	32.0	5.0	31.2	48.0	M20-3P	K32

X-UVT

Super MG | 0.2 μm | 45° | 6 Flutes | HRc ▸65 | G15

高硬度用立銑刀頭 End Mills

High Hardened

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-UVT0806	8.0	8.0	7.8	12.1	M 5 -3P	K08
X-UVT1006	10.0	10.0	9.8	16.1	M 7 -3P	K10
X-UVT1206	12.0	12.0	11.7	20.3	M 8 -3P	K12
X-UVT1606	16.0	16.0	15.6	25.7	M10-3P	K16
X-UVT2006	20.0	20.0	19.5	31.1	M12-3P	K20
X-UVT2506	25.0	25.0	24.4	39.3	M16-3P	K25
X-UVT3206	32.0	32.0	31.2	48.0	M20-3P	K32

X-UVTR

Super MG | 0.2 μm | 45° | R | 6 Flutes | HRc ▸65 | G15

高硬度圓鼻立銑刀頭 End Mills

High Hardened

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	R 圓鼻角 Corner R	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-UVTR0805	8.0	8.0	0.5	7.8	12.1	M 5 -3P	K08
X-UVTR0810	8.0	8.0	1.0	7.8	12.1	M 5 -3P	K08
X-UVTR1005	10.0	10.0	0.5	9.8	16.1	M 7 -3P	K10
X-UVTR1010	10.0	10.0	1.0	9.8	16.1	M 7 -3P	K10
X-UVTR1205	12.0	12.0	0.5	11.7	20.3	M 8 -3P	K12
X-UVTR1210	12.0	12.0	1.0	11.7	20.3	M 8 -3P	K12
X-UVTR1605	16.0	16.0	0.5	15.6	25.7	M10-3P	K16
X-UVTR1610	16.0	16.0	1.0	15.6	25.7	M10-3P	K16
X-UVTR1620	16.0	16.0	2.0	15.6	25.7	M10-3P	K16
X-UVTR2010	20.0	20.0	1.0	19.5	31.1	M12-3P	K20
X-UVTR2020	20.0	20.0	2.0	19.5	31.1	M12-3P	K20
X-UVTR2030	20.0	20.0	3.0	19.5	31.1	M12-3P	K20
X-UVTR2530	25.0	25.0	3.0	24.4	39.3	M16-3P	K25
X-UVTR2550	25.0	25.0	5.0	24.4	39.3	M16-3P	K25

X-BTB 2T

MG | 0.6 μm | 30° | 2 Flutes | HRc ▸55 | T2

超微粒圓頭立銑刀頭 Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-BTB0802	R 4.0	8.0	7.8	12.1	M 5 -3P	K08
X-BTB1002	R 5.0	10.0	9.8	16.1	M 7 -3P	K10
X-BTB1202	R 6.0	12.0	11.7	20.3	M 8 -3P	K12
X-BTB1602	R 8.0	16.0	15.6	25.7	M10-3P	K16
X-BTB2002	R10.0	20.0	19.5	31.1	M12-3P	K20
X-BTB2502	R12.5	25.0	24.4	39.3	M16-3P	K25
X-BTB3202	R16.0	32.0	31.2	48.0	M20-3P	K32

X-BTB 3T

MG | 0.6 μm | 30° | 3 Flutes | HRc ▸55 | T2

超微粒圓頭立銑刀頭 Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-BTB0803	R 4.0	8.0	7.8	12.1	M 5 -3P	K08
X-BTB1003	R 5.0	10.0	9.8	16.1	M 7 -3P	K10
X-BTB1203	R 6.0	12.0	11.7	20.3	M 8 -3P	K12
X-BTB1603	R 8.0	16.0	15.6	25.7	M10-3P	K16
X-BTB2003	R10.0	20.0	19.5	31.1	M12-3P	K20
X-BTB2503	R12.5	25.0	24.4	39.3	M16-3P	K25
X-BTB3203	R16.0	32.0	31.2	48.0	M20-3P	K32

X-UB 2T

Super MG | 0.4 μm | 30° | 2 Flutes | HRc ▸62 | G12 | S type

極超微粒圓頭立銑刀頭
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-UB0802	R 4.0	8.0	7.8	12.1	M 5 -3P	K08
X-UB1002	R 5.0	10.0	9.8	16.1	M 7 -3P	K10
X-UB1202	R 6.0	12.0	11.7	20.3	M 8 -3P	K12
X-UB1602	R 8.0	16.0	15.6	25.7	M10-3P	K16
X-UB2002	R10.0	20.0	19.5	31.1	M12-3P	K20
X-UB2502	R12.5	25.0	24.4	39.3	M16-3P	K25
X-UB3202	R16.0	32.0	31.2	48.0	M20-3P	K32

X-UB 4T

Super MG | 0.4 μm | 30° | 4 Flutes | HRc ▸62 | G12 | S type

極超微粒圓頭立銑刀頭
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-UB0804	R 4.0	8.0	7.8	12.1	M 5 -3P	K08
X-UB1004	R 5.0	10.0	9.8	16.1	M 7 -3P	K10
X-UB1204	R 6.0	12.0	11.7	20.3	M 8 -3P	K12
X-UB1604	R 8.0	16.0	15.6	25.7	M10-3P	K16
X-UB2004	R10.0	20.0	19.5	31.1	M12-3P	K20
X-UB2504	R12.5	25.0	24.4	39.3	M16-3P	K25
X-UB3204	R16.0	32.0	31.2	48.0	M20-3P	K32

X-UBT 2T

Super MG | 0.2 μm | 30° | 2 Flutes | HRc ▸65 | G15

高硬度用圓頭立銑刀頭
Ball Nose End Mills

High Hardened

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-UBT0802	R 4.0	8.0	7.8	12.1	M 5 -3P	K08
X-UBT1002	R 5.0	10.0	9.8	16.1	M 7 -3P	K10
X-UBT1202	R 6.0	12.0	11.7	20.3	M 8 -3P	K12
X-UBT1602	R 8.0	16.0	15.6	25.7	M10-3P	K16
X-UBT2002	R10.0	20.0	19.5	31.1	M12-3P	K20
X-UBT2502	R12.5	25.0	24.4	39.3	M16-3P	K25

X-UBT 4T

Super MG | 0.2 μm | 30° | 4 Flutes | HRc ▸65 | G15

高硬度用圓頭立銑刀頭
Ball Nose End Mills

High Hardened

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-UBT0804	R 4.0	8.0	7.8	12.1	M 5 -3P	K08
X-UBT1004	R 5.0	10.0	9.8	16.1	M 7 -3P	K10
X-UBT1204	R 6.0	12.0	11.7	20.3	M 8 -3P	K12
X-UBT1604	R 8.0	16.0	15.6	25.7	M10-3P	K16
X-UBT2004	R10.0	20.0	19.5	31.1	M12-3P	K20
X-UBT2504	R12.5	25.0	24.4	39.3	M16-3P	K25

X-BMW

Super MG | 0.4 μm | Roughing | 20° | 6 Flutes | HRc ▸65 | G15

粗齒圓頭立銑刀頭
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-BMW0804	R 4.0	8.0	7.8	12.1	M 5 -3P	K08
X-BMW1004	R 5.0	10.0	9.8	16.1	M 7 -3P	K10
X-BMW1204	R 6.0	12.0	11.7	20.3	M 8 -3P	K12
X-BMW1604	R 8.0	16.0	15.6	25.7	M10-3P	K16
X-BMW2004	R10.0	20.0	19.5	31.1	M12-3P	K20
X-BMW2504	R12.5	25.0	24.4	39.3	M16-3P	K25
X-BMW3004	R15.0	32.0	29.2	48.0	M20-3P	K30
X-BMW3204	R16.0	32.0	31.2	48.0	M20-3P	K32

X-UBY

Super MG | 0.2 μm | 30° | 4 Flutes | HRc ▸65 | G15

極超微粒圓頭立銑刀頭
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-UBY0804	R 4.0	8.0	7.8	12.1	M 5 -3P	K08
X-UBY1004	R 5.0	10.0	9.8	16.1	M 7 -3P	K10
X-UBY1204	R 6.0	12.0	11.7	20.3	M 8 -3P	K12
X-UBY1604	R 8.0	16.0	15.6	25.7	M10-3P	K16
X-UBY2004	R10.0	20.0	19.5	31.1	M12-3P	K20
X-UBY2504	R12.5	25.0	24.4	39.3	M16-3P	K25
X-UBY3004	R15.0	32.0	29.2	48.0	M20-3P	K30
X-UBY3204	R16.0	32.0	31.2	48.0	M20-3P	K32

Xs-BTB

MG 0.6 μm 2 Flutes HRc ▸55 T2

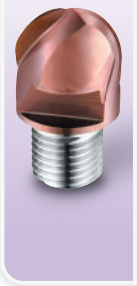
爆丸球刀頭
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
Xs-BTB0802	R 4.0	6.0	7.8	10.1	M 5 -3P	K08
Xs-BTB1002	R 5.0	7.0	9.8	11.1	M 7 -3P	K10
Xs-BTB1202	R 6.0	9.0	11.7	13.8	M 8 -3P	K12
Xs-BTB1602	R 8.0	10.0	15.6	14.7	M10-3P	K16
Xs-BTB2002	R10.0	12.0	19.5	18.1	M12-3P	K20
Xs-BTB2502	R12.5	16.0	24.4	22.3	M16-3P	K25

Xs-UB

Super MG 0.4 μm 2 Flutes HRc ▸62 G12 S S type

爆丸球刀頭
Ball Nose End Mills



型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
Xs-UB0802	R 4.0	6.0	7.8	10.1	M 5 -3P	K08
Xs-UB1002	R 5.0	7.0	9.8	11.1	M 7 -3P	K10
Xs-UB1202	R 6.0	9.0	11.7	13.8	M 8 -3P	K12
Xs-UB1602	R 8.0	10.0	15.6	14.7	M10-3P	K16
Xs-UB2002	R10.0	12.0	19.5	18.1	M12-3P	K20
Xs-UB2502	R12.5	16.0	24.4	22.3	M16-3P	K25

Xs-UBT

Super MG 0.2 μm 2 Flutes HRc ▸65 G15

爆丸球刀頭
Ball Nose End Mills

High Hardened

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
Xs-UBT0802	R 4.0	6.0	7.8	10.1	M 5 -3P	K08
Xs-UBT1002	R 5.0	7.0	9.8	11.1	M 7 -3P	K10
Xs-UBT1202	R 6.0	9.0	11.7	13.8	M 8 -3P	K12
Xs-UBT1602	R 8.0	10.0	15.6	14.7	M10-3P	K16
Xs-UBT2002	R10.0	12.0	19.5	18.1	M12-3P	K20
Xs-UBT2502	R12.5	16.0	24.4	22.3	M16-3P	K25

X-BTC

MG 0.6 μm 25° 2 Flutes

銅鋁用圓頭立銑刀頭
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-BTC0802	R 4.0	8.0	7.8	12.1	M 5 -3P	K08
X-BTC1002	R 5.0	10.0	9.8	16.1	M 7 -3P	K10
X-BTC1202	R 6.0	12.0	11.7	20.3	M 8 -3P	K12
X-BTC1602	R 8.0	16.0	15.6	25.7	M10-3P	K16
X-BTC2002	R10.0	20.0	19.5	31.1	M12-3P	K20
X-BTC2502	R12.5	25.0	24.4	39.3	M16-3P	K25
X-BTC3202	R16.0	32.0	31.2	48.0	M20-3P	K32

X-AEW

MG 0.6 μm Roughing 45° 3 Flutes

彩虹立銑刀頭
End Mills

Roughing

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-AEW0803	8.0	8.0	7.8	12.1	M 5 -3P	K08
X-AEW1003	10.0	10.0	9.8	16.1	M 7 -3P	K10
X-AEW1203	12.0	12.0	11.7	20.3	M 8 -3P	K12
X-AEW1603	16.0	16.0	15.6	25.7	M10-3P	K16
X-AEW2003	20.0	20.0	19.5	31.1	M12-3P	K20
X-AEW2503	25.0	25.0	24.4	39.3	M16-3P	K25
X-AEW3203	32.0	32.0	31.2	48.0	M20-3P	K32

X-AEWR

MG 0.6 μm Roughing 45° R 3 Flutes

彩虹立銑刀頭
End Mills

Roughing

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	R 圓鼻角 Corner R	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-AEWR0805	8.0	8.0	0.5	7.8	12.1	M 5 -3P	K08
X-AEWR0810	8.0	8.0	1.0	7.8	12.1	M 5 -3P	K08
X-AEWR1005	10.0	10.0	0.5	9.8	16.1	M 7 -3P	K10
X-AEWR1010	10.0	10.0	1.0	9.8	16.1	M 7 -3P	K10
X-AEWR1205	12.0	12.0	0.5	11.7	20.3	M 8 -3P	K12
X-AEWR1210	12.0	12.0	1.0	11.7	20.3	M 8 -3P	K12
X-AEWR1610	16.0	16.0	1.0	15.6	25.7	M10-3P	K16
X-AEWR1620	16.0	16.0	2.0	15.6	25.7	M10-3P	K16
X-AEWR1630	16.0	16.0	3.0	15.6	25.7	M10-3P	K16
X-AEWR2010	20.0	20.0	1.0	19.5	31.1	M12-3P	K20
X-AEWR2020	20.0	20.0	2.0	19.5	31.1	M12-3P	K20
X-AEWR2030	20.0	20.0	3.0	19.5	31.1	M12-3P	K20
X-AEWR2510	25.0	25.0	1.0	24.4	39.3	M16-3P	K25
X-AEWR2530	25.0	25.0	3.0	24.4	39.3	M16-3P	K25
X-AEWR3230	32.0	32.0	3.0	31.2	48.0	M20-3P	K32
X-AEWR3250	32.0	32.0	5.0	31.2	48.0	M20-3P	K32

X-AES

Super MG | 0.4 μm | 40° | 3 Flutes

高效能鋁用立銑刀頭
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-AES0803	8.0	8.0	7.8	12.1	M 5 -3P	K08
X-AES1003	10.0	10.0	9.8	16.1	M 7 -3P	K10
X-AES1203	12.0	12.0	11.7	20.3	M 8 -3P	K12
X-AES1603	16.0	16.0	15.6	25.7	M10-3P	K16
X-AES2003	20.0	20.0	19.5	31.1	M12-3P	K20
X-AES2503	25.0	25.0	24.4	39.3	M16-3P	K25
X-AES3203	32.0	32.0	31.2	48.0	M20-3P	K32

X-AESR

Super MG | 0.4 μm | 40° | R | 3 Flutes

高效能鋁用立銑刀頭
End Mills

Corner Radius

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	R 圓鼻角 Corner R	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-AESR0805	8.0	8.0	0.5	7.8	12.1	M 5 -3P	K08
X-AESR0810	8.0	8.0	1.0	7.8	12.1	M 5 -3P	K08
X-AESR1005	10.0	10.0	0.5	9.8	16.1	M 7 -3P	K10
X-AESR1010	10.0	10.0	1.0	9.8	16.1	M 7 -3P	K10
X-AESR1205	12.0	12.0	0.5	11.7	20.3	M 8 -3P	K12
X-AESR1210	12.0	12.0	1.0	11.7	20.3	M 8 -3P	K12
X-AESR1605	16.0	16.0	0.5	15.6	25.7	M10-3P	K16
X-AESR1610	16.0	16.0	1.0	15.6	25.7	M10-3P	K16
X-AESR1630	16.0	16.0	3.0	15.6	25.7	M10-3P	K16
X-AESR2005	20.0	20.0	0.5	19.5	31.1	M12-3P	K20
X-AESR2010	20.0	20.0	1.0	19.5	31.1	M12-3P	K20
X-AESR2030	20.0	20.0	3.0	19.5	31.1	M12-3P	K20
X-AESR2530	25.0	25.0	3.0	24.4	39.3	M16-3P	K25
X-AESR3230	32.0	32.0	3.0	31.2	48.0	M20-3P	K32
X-AESR3250	32.0	32.0	5.0	31.2	48.0	M20-3P	K32

X-TS

Super MG | 0.4 μm | 3 Flutes | HRc ▸60 | G10

螺旋刃倒角刀頭
Spiral Flute Chamfering

型號 Type No.	D1 前端徑 Front Diameter	D2 柄徑 Diameter	L1 刃長 Flute Length	L2 全長 O.A.L.	配合刀桿 Recommended Carbide Shank	鎖固扳手型號 Spanner Type No.
X-TS0803	1	8	3.5	10.1	X-WDEX080-	K08
X-TS1003	2	10	4.0	11.1	X-WDEX100-	K10
X-TS1203	2	12	5.0	13.8	X-WDEX120-	K12
X-TS1603	3	16	6.5	14.7	X-WDEX160-	K16
X-TS2003	5	20	7.5	18.1	X-WDEX200-	K20

X-TD

Super MG | 0.4 μm | 3 Flutes | HRc ▸60 | T1

直刃倒角刀頭
Straight Flute Chamfering

型號 Type No.	D1 前端徑 Front Diameter	D2 柄徑 Diameter	L1 刃長 Flute Length	L2 全長 O.A.L.	配合刀桿 Recommended Carbide Shank	鎖固扳手型號 Spanner Type No.
X-TD0803	1	8	3.5	10.1	X-WDEX080-	K08
X-TD1003	2	10	4.0	11.1	X-WDEX100-	K10
X-TD1203	2	12	5.0	13.8	X-WDEX120-	K12
X-TD1603	3	16	6.5	14.7	X-WDEX160-	K16
X-TD2003	5	20	7.5	18.1	X-WDEX200-	K20

X-TW

Super MG | 0.4 μm | 15° | 6 Flutes | HRc ▸55 | G12

螺紋銑刀
Thread Milling

型號 Type No.	螺距 Pitch	M 適用規格 Applicable Size 粗牙 Coarse	細牙 Fine	D1 直徑 Diameter	L 刃長 Flute Length	N 牙數 No. of Thread	配合刀桿 Recommended Carbide Shank	鎖固扳手型號 Spanner Type No.
X-TW101210	1.0		≧M14	10.0	12.0	12	X-WDEX080-	K16
X-TW121510	1.0		≧M15	12.0	15.0	15	X-WDEX100-	K16
X-TW161810	1.0		≧M20	16.0	18.0	18	X-WDEX120-	K16
X-TW202210	1.0		≧M24	20.0	22.0	22	X-WDEX160-	K20
X-TW111215	1.5		≧M15	11.0	12.0	8	X-WDEX080-	K16
X-TW131515	1.5		≧M17	13.0	15.0	10	X-WDEX100-	K16
X-TW161815	1.5		≧M20	16.0	18.0	12	X-WDEX120-	K16
X-TW202115	1.5		≧M24	20.0	21.0	14	X-WDEX160-	K20
X-TW252415	1.5		≧M30	25.0	24.0	16	X-WDEX200-	K20
X-TW111220	2.0	M16	≧M18	11.0	12.0	6	X-WDEX080-	K16
X-TW131420	2.0		≧M18	13.0	14.0	7	X-WDEX100-	K16
X-TW161820	2.0		≧M22	16.0	18.0	9	X-WDEX120-	K16
X-TW202220	2.0		≧M25	20.0	22.0	11	X-WDEX160-	K20
X-TW252420	2.0		≧M30	25.0	24.0	12	X-WDEX200-	K20
X-TW131525	2.5	M18~22		13.0	15.0	6	X-WDEX100- X-WHEX100-	K16
X-TW161830	3.0	M24~27	≧M30	16.0	18.0	6	X-WDEX120- X-WHEX120-	K16
X-TW202130	3.0		≧M30	20.0	21.0	7	X-WDEX160-	K20
X-TW252430	3.0		≧M33	25.0	24.0	8	X-WDEX200-	K20
X-TW202135	3.5	M30~33		20.0	21.0	6	X-WDEX160- X-WHEX160-	K20
X-TW252440	4.0	M36~39	≧M42	25.0	24.0	6	X-WDEX200-	K20

K

變形刀頭鎖固扳手
Spanner

型號 Type No.	D1 直徑 Diameter	標準立銑刀頭（使用端） End Mills (Use End)	爆丸球刀頭（使用端） Ball Nose EndMills (Use End)	螺紋銑刀頭 Thread Milling	扳手鎖固扭力值 N.m
K08	8	XT-08	XTs-08	--	6
K10	10	XT-10	XTs-10	--	7
K12	12	XT-12	XTs-12	--	9
K16	16	XT-16	XTs-16	X-TW	10
K20	20	XT-20	XTs-20	X-TW	12
K25	25	XT-25	XTs-25	X-TW	15
K32	32	XT-32	XTs-32	X-TW	20

備註：刀桿與刀頭結合時可參考表格之「扭力值」。

Note : When combining shank and head, please refer to the "N.m" value.

高速、高硬度切削系列
High speed cutting & High hard cutting

刀具推薦表詳見 P.53
Selection of Endmill P.53

UQB

Super MG | 0.2 μm | 30° | 2 Flutes | HRc ▸65 | G12

極超微粒短刃圓頭立銑刀
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UQB0102	R0.5	0.95	1	2.5	50	4
UQB0152	R0.75	1.45	1	3	50	4
UQB0202	R1	1.92	1.5	5	50	4
UQB0302S	R1.5	2.90	2	8	50	4
UQB0302	R1.5	2.90	2	8	50	6
UQB0402S	R2	3.90	4	10	50	4
UQB0402	R2	3.90	4	10	50	6
UQB0502	R2.5	4.80	5	13	50	6
UQB0602	R3	5.80	6	15	50	6
UQB0802	R4	7.70	8	20	60	8
UQB1002	R5	9.60	10	25	75	10
UQB1202	R6	11.5	12	30	75	12

UB

Super MG | 0.4 μm | 30° | 2 Flutes | HRc ▸60 | G12 | S type

極超微粒圓頭立銑刀
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UB0102	R0.5	2	50	4
UB0152	R0.75	3	50	4
UB0202	R1	4	50	6
UB0202S	R1	4	50	4
UB0302	R1.5	6	50	6
UB0302S	R1.5	6	50	4
UB0402	R2	8	50	6
UB0402S	R2	8	50	4
UB0502	R2.5	10	50	6
UB0602	R3	12	50	6
UB0802	R4	16	60	8
UB1002	R5	20	75	10
UB1202	R6	24	75	12
UB1602	R8	32	100	16

UHB UIB UJB

Super MG | 0.4 μm | 30° | 2 Flutes | HRc ▸60 | G12 | S type

極超微粒長柄圓頭立銑刀
Ball Nose End Mills

Long Shank

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UHB0202	R1	4	75	6
UHB0302	R1.5	6	75	6
UHB0402	R2	8	75	6
UHB0502	R2.5	10	75	6
UHB0602	R3	12	75	6
UHB0802	R4	16	75	8
UIB0402	R2	8	100	6
UIB0602	R3	12	100	6
UIB0802	R4	16	100	8
UIB1002	R5	20	100	10
UIB1202	R6	24	100	12
UJB1002	R5	20	150	10
UJB1202	R6	24	150	12
UJB1602	R8	32	150	16
UJB2002	R10	40	150	20

UBX

Super MG | 0.2 μm | 30° | 2 Flutes | HRc ▸65 | G12

極超微粒圓頭立銑刀
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UBX0102	R0.5	2	50	6
UBX0152	R0.75	3	50	6
UBX0202	R1	4	50	6
UBX0302	R1.5	6	50	6
UBX0402	R2	8	50	6
UBX0502	R2.5	10	50	6
UBX0602	R3	12	50	6
UBX0802	R4	16	60	8
UBX1002	R5	20	75	10
UBX1202	R6	24	75	12
UBX1602	R8	32	100	16

UHBX UIBX

Super MG | 0.2 μm | 30° | 2 Flutes | HRc ▸65 | G12

極超微粒長柄圓頭立銑刀
Ball Nose End Mills

Long Shank

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UHBX0302	R1.5	6	75	6
UHBX0402	R2	8	75	6
UHBX0502	R2.5	10	75	6
UHBX0602	R3	12	75	6
UHBX0802	R4	16	75	8
UIBX0602	R3	12	100	6
UIBX0802	R4	16	100	8
UIBX1002	R5	20	100	10
UIBX1202	R6	24	100	12

UBG

Super MG | 0.2 μm | 15° | 2 Flutes | HRc ▸60 | G12

極超微粒圓頭立銑刀
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UBG0102	R0.5	2	50	4
UBG0152	R0.75	3	50	4
UBG0202	R1	4	50	4
UBG0302	R1.5	6	50	4
UBG0402	R2	8	50	4
UBG0502	R2.5	10	50	6
UBG0602	R3	12	50	6
UBG0802	R4	16	60	8
UBG1002	R5	20	75	10
UBG1202	R6	24	75	12
UBG1602	R8	32	100	16

UHBG UIBG

Super MG | 0.2 μm | 15° | 2 Flutes | HRc ▸60 | G12

極超微粒長柄圓頭立銑刀
Ball Nose End Mills

Long Shank

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UHBG0202	R1	4	75	6
UHBG0302	R1.5	6	75	6
UHBG0402	R2	8	75	6
UHBG0502	R2.5	10	75	6
UHBG0602	R3	12	75	6
UHBG0802	R4	16	75	8
UIBG0402	R2	8	100	6
UIBG0602	R3	12	100	6
UIBG0802	R4	16	100	8
UIBG1002	R5	20	100	10
UIBG1202	R6	24	100	12

UBT 2T

Super MG | 0.2 μm | 30° | 2 Flutes | HRc ▸65 | G15

極超微粒圓頭立銑刀
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UBT0102	R0.5	2	50	4
UBT0102B	R0.5	2	50	6
UBT0152	R0.75	3	50	4
UBT0152B	R0.75	3	50	6
UBT0202	R1	4	50	6
UBT0302	R1.5	6	50	6
UBT0402	R2	8	50	6
UBT0502	R2.5	10	50	6
UBT0602	R3	12	50	6
UBT0802	R4	16	60	8
UBT1002	R5	20	75	10
UBT1202	R6	24	75	12
UBT1602	R8	32	100	16

UHBT UIBT

Super MG | 0.2 μm | 30° | 2 Flutes | HRc ▸65 | G15

極超微粒長柄圓頭立銑刀
Ball Nose End Mills

Long Shank

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UHBT0302	R1.5	6	75	6
UHBT0402	R2	8	75	6
UHBT0502	R2.5	10	75	6
UHBT0602	R3	12	75	6
UHBT0802	R4	16	75	8
UIBT0602	R3	12	100	6
UIBT0802	R4	16	100	8
UIBT1002	R5	20	100	10
UIBT1202	R6	24	100	12

UOB

Super MG | 0.2 μm | 5° | 2 Flutes | HRc ▸65 | G15

極超微粒直刃圓頭立銑刀
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UOB0102	R0.5	0.95	1	3	50	4
UOB0152	R0.75	1.44	2	5	50	4
UOB0202	R1	1.92	3	6	50	6
UOB0302S	R1.5	2.90	4	8	50	4
UOB0302	R1.5	2.90	4	8	50	6
UOB0302L	R1.5	2.90	4	8	75	6
UOB0402S	R2	3.90	5	10	50	4
UOB0402	R2	3.90	5	10	50	6
UOB0402L	R2	3.90	5	10	75	6
UOB0602	R3	5.80	6	12	50	6
UOB0602M	R3	5.80	6	12	75	6
UOB0602L	R3	5.80	6	16	100	6
UOB0802	R4	7.70	8	16	60	8
UOB0802L	R4	7.70	8	25	100	8
UOB1002	R5	9.60	10	20	75	10
UOB1002L	R5	9.60	10	30	100	10

UBT 4T

Super MG | 0.2 μm | 30° | 4 Flutes | HRc ▸65 | G15

極超微粒圓頭立銑刀
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UBT0204	R1	4	50	6
UBT0304	R1.5	6	50	6
UBT0404	R2	8	50	6
UBT0504	R2.5	10	50	6
UBT0604	R3	12	50	6
UBT0804	R4	16	60	8
UBT1004	R5	20	75	10
UBT1204	R6	24	75	12

UPB

Super MG | 0.4 μm | 30° | 2 Flutes | HRc ▸60 | G12

極超微粒斜頸圓頭立銑刀 Ball Nose End Mills

Strong Power

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.	α 斜角 Taper Angle
UPB0205	R1	3	60	100	6	0.5°
UPB0210	R1	3	60	100	6	1°
UPB0215	R1	3	60	100	6	1.5°
UPB0220	R1	3	57	100	6	2°
UPB0305	R1.5	4	60	100	6	0.5°
UPB0310	R1.5	4	60	100	6	1°
UPB0315	R1.5	4	57	100	6	1.5°
UPB0320	R1.5	4	43	100	6	2°
UPB0405	R2	5	60	100	6	0.5°
UPB0410	R2	5	57	100	6	1°
UPB0415	R2	5	38	100	6	1.5°
UPB0420	R2	5	29	100	6	2°

USB

Super MG | 0.4 μm | 30° | 2 Flutes | HRc ▸60 | G15

極超微粒斜頸圓頭立銑刀 Ball Nose End Mills

Strong Power

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.	α 斜角 Taper Angle
USB0203	R1	4	75	6	3°
USB0205	R1	4	75	6	5°
USB0315	R1.5	6	100	6	1.5°
USB0303	R1.5	6	75	6	3°
USB0305	R1.5	6	75	6	5°
USB0415	R2	8	100	6	1.5°
USB0405	R2	8	75	6	5°
USB0615	R3	12	100	8	1.5°
USB0603	R3	12	75	8	3°
USB0605	R3	12	100	8	5°
USB0603B	R3	12	100	10	3°
USB0605B	R3	12	100	10	5°

UKR 小尺寸

Super MG | 0.2 μm | 35° | R | 2 Flutes | HRc ▸60 | G12

極超微粒圓鼻角立銑刀 End Mills

Corner Radius

型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UKR0102	1.0	0.2	3	50	4
UKR0152	1.5	0.2	4	50	4
UKR0202	2.0	0.2	6	50	4
UKR0205	2.0	0.5	6	50	4
UKR0252	2.5	0.2	8	50	4
UKR0255	2.5	0.5	8	50	4
UKR0302	3.0	0.2	8	50	4
UKR0303	3.0	0.3	8	50	4
UKR0305	3.0	0.5	8	50	4
UKR0402	4.0	0.2	11	50	4
UKR0403	4.0	0.3	11	50	4
UKR0405	4.0	0.5	11	50	4
UKR0503	5.0	0.3	13	50	6
UKR0505	5.0	0.5	13	50	6

UKR 大尺寸

Super MG | 0.2 μm | 35° | R | 2 Flutes | HRc ▸60 | G12

極超微粒圓鼻角立銑刀 End Mills

Corner Radius

型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UKR0602	6.0	0.2	16	50	6
UKR0603	6.0	0.3	16	50	6
UKR0605	6.0	0.5	16	50	6
UKR0610	6.0	1.0	16	50	6
UKR0803	8.0	0.3	20	60	8
UKR0805	8.0	0.5	20	60	8
UKR0810	8.0	1.0	20	60	8
UKR1002	10.0	0.2	25	75	10
UKR1003	10.0	0.3	25	75	10
UKR1005	10.0	0.5	25	75	10
UKR1010	10.0	1.0	25	75	10
UKR1203	12.0	0.3	30	75	12
UKR1205	12.0	0.5	30	75	12
UKR1210	12.0	1.0	30	75	12
UKR1215	12.0	1.5	30	75	12
UKR1220	12.0	2.0	30	75	12

UOR

Super MG | 0.2 μm | 0° | R | 4 Flutes | HRc ▸60 | G15

直刃圓鼻角立銑刀 End Mills

Roughing

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	R R角 Corner R	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UOR0203	2.0	1.8	0.3	0.8	5	50	6
UOR0205	2.0	1.8	0.5	0.8	5	50	6
UOR0308	3.0	2.7	0.8	1.2	8	50	6
UOR0310	3.0	2.7	1.0	1.2	8	50	6
UOR0405	4.0	3.6	0.5	1.6	10	50	6
UOR0405L	4.0	3.6	0.5	1.6	10	75	6
UOR0410	4.0	3.6	1.0	1.6	10	50	6
UOR0410L	4.0	3.6	1.0	1.6	10	75	6
UOR0610	6.0	5.4	1.0	2.5	13	50	6
UOR0610M	6.0	5.4	1.0	2.5	13	75	6
UOR0610L	6.0	5.4	1.0	2.5	13	100	6
UOR0615	6.0	5.4	1.5	2.5	13	50	6
UOR0615M	6.0	5.4	1.5	2.5	13	75	6
UOR0615L	6.0	5.4	1.5	2.5	13	100	6
UOR0810	8.0	7.2	1.0	3.5	16	60	8
UOR0810L	8.0	7.2	1.0	3.5	16	100	8
UOR0820	8.0	7.2	2.0	3.5	16	60	8
UOR0820L	8.0	7.2	2.0	3.5	16	100	8
UOR1010	10.0	9.0	1.0	4.0	20	75	10
UOR1010L	10.0	9.0	1.0	4.0	20	100	10
UOR1020	10.0	9.0	2.0	4.0	20	75	10
UOR1020L	10.0	9.0	2.0	4.0	20	100	10
UOR1220	12.0	11.0	2.0	5.0	25	75	12
UOR1220L	12.0	11.0	2.0	5.0	25	100	12
UOR1230	12.0	11.0	3.0	5.0	25	75	12
UOR1230L	12.0	11.0	3.0	5.0	25	100	12

UEYR

Super MG | 0.2 μm | 35° | R | 4 Flutes | HRc ▸65 | G15

高硬度用圓鼻角立銑刀 End Mills

Corner Radius

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	R R角 Corner R	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UEYR0202	2.0	1.92	0.2	2.0	6	50	6
UEYR0205	2.0	1.92	0.5	2.0	6	50	6
UEYR0252	2.5	2.40	0.2	2.5	8	50	6
UEYR0255	2.5	2.40	0.5	2.5	8	50	6
UEYR0302	3.0	2.90	0.2	3.0	8	50	6
UEYR0305	3.0	2.90	0.5	3.0	8	50	6
UEYR0402	4.0	3.90	0.2	4.0	11	50	6
UEYR0403	4.0	3.90	0.3	4.0	11	50	6
UEYR0405	4.0	3.90	0.5	4.0	11	50	6
UEYR0602	6.0	5.80	0.2	6.0	16	50	6
UEYR0603	6.0	5.80	0.3	6.0	16	50	6
UEYR0605	6.0	5.80	0.5	6.0	16	50	6
UEYR0610	6.0	5.80	1.0	6.0	16	50	6
UEYR0615	6.0	5.80	1.5	6.0	16	50	6
UEYR0803	8.0	7.70	0.3	8.0	20	60	8
UEYR0805	8.0	7.70	0.5	8.0	20	60	8
UEYR0810	8.0	7.70	1.0	8.0	20	60	8
UEYR0820	8.0	7.70	2.0	8.0	20	60	8
UEYR1003	10.0	9.60	0.3	10.0	25	75	10
UEYR1005	10.0	9.60	0.5	10.0	25	75	10
UEYR1010	10.0	9.60	1.0	10.0	25	75	10
UEYR1020	10.0	9.60	2.0	10.0	25	75	10

UXR

Super MG | 0.4 μm | 35° | R | 4 Flutes | HRc ▸60 | G12

極超微粒圓鼻角立銑刀 End Mills

Corner Radius

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	R R角 Corner R	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UXR0403	4.0	3.90	0.3	6	12	50	6
UXR0405	4.0	3.90	0.5	6	12	50	6
UXR0603	6.0	5.80	0.3	8	18	50	6
UXR0605	6.0	5.80	0.5	8	18	50	6
UXR0610	6.0	5.80	1.0	8	18	50	6
UXR0803	8.0	7.70	0.3	10	24	60	8
UXR0805	8.0	7.70	0.5	10	24	60	8
UXR0810	8.0	7.70	1.0	10	24	60	8
UXR1005	10.0	9.60	0.5	12	30	75	10
UXR1010	10.0	9.60	1.0	12	30	75	10
UXR1020	10.0	9.60	2.0	12	30	75	10
UXR1030	10.0	9.60	3.0	12	30	75	10
UXR1205	12.0	11.5	0.5	15	36	75	12
UXR1210	12.0	11.5	1.0	15	36	75	12
UXR1605	16.0	15.5	0.5	24	40	100	16
UXR1610	16.0	15.5	1.0	24	40	100	16

ULXR

Super MG | 0.4 μm | 35° | R | 4 Flutes | HRc ▸60 | G12

極超微粒圓鼻角立銑刀 End Mills

Corner Radius Long Shank

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	R R角 Corner R	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
ULXR0605	6.0	5.80	0.5	6	18	75	6
ULXR0610	6.0	5.80	1.0	6	18	75	6
ULXR0805	8.0	7.80	0.5	8	24	100	8
ULXR0810	8.0	7.80	1.0	8	24	100	8
ULXR1005	10.0	9.60	0.5	10	30	100	10
ULXR1010	10.0	9.60	1.0	10	30	100	10
ULXR1020	10.0	9.60	2.0	10	30	100	10
ULXR1205	12.0	11.5	0.5	12	36	100	12
ULXR1210	12.0	11.5	1.0	12	36	100	12
ULXR1220	12.0	11.5	2.0	12	36	100	12
ULXR1610	16.0	15.5	1.0	16	40	150	16
ULXR1620	16.0	15.5	2.0	16	40	150	16

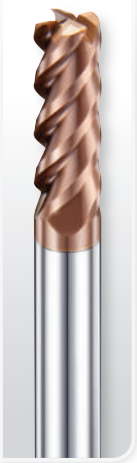
UER

Super MG | 0.4 μm | 45° | R | 4 Flutes | HRc ▸60 | G12

極超微粒圓鼻角立銑刀 End Mills

Corner Radius

型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UER0202	2.0	0.2	6	50	4
UER0205	2.0	0.5	6	50	4
UER0302S	3.0	0.2	8	50	3
UER0305S	3.0	0.5	8	50	3
UER0402	4.0	0.2	10	50	4
UER0405	4.0	0.5	10	50	4
UER0505	5.0	0.5	13	50	6
UER0510	5.0	1.0	13	50	6
UER0605	6.0	0.5	16	50	6
UER0610	6.0	1.0	16	50	6
UER0805	8.0	0.5	20	60	8
UER0810	8.0	1.0	20	60	8
UER1005	10.0	0.5	30	75	10
UER1010	10.0	1.0	30	75	10
UER1020	10.0	2.0	30	75	10
UER1030	10.0	3.0	30	75	10
UER1210	12.0	1.0	30	75	12
UER1220	12.0	2.0	30	75	12
UER1230	12.0	3.0	30	75	12
UER1610	16.0	1.0	45	100	16
UER1620	16.0	2.0	45	100	16
UER1630	16.0	3.0	45	100	16



ULR

Super MG | 0.4 μm | 45° | R | 4 Flutes | HRc ▸60 | G12

極超微粒圓鼻角立銑刀 End Mills

Corner Radius Long Shank

型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
ULR0605	6.0	0.5	16	75	6
ULR0610	6.0	1.0	16	75	6
ULR0805	8.0	0.5	20	100	8
ULR0810	8.0	1.0	20	100	8
ULR1005	10.0	0.5	25	100	10
ULR1010	10.0	1.0	25	100	10
ULR1020	10.0	2.0	25	100	10
ULR1205	12.0	0.5	30	100	12
ULR1210	12.0	1.0	30	100	12
ULR1220	12.0	2.0	30	100	12
ULR1610	16.0	1.0	45	150	16
ULR1620	16.0	2.0	45	150	16

UPR

Super MG | 0.2 μm | 35° | R | 4 Flutes | HRc ▸65 | G15

極超微粒圓鼻角立銑刀 End Mills

Corner Radius

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	R R角 Corner R	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UPR0305	3.0	2.90	0.5	3	12	50	6
UPR0405	4.0	3.90	0.5	4	12	50	6
UPR0605	6.0	5.80	0.5	6	15	50	6
UPR0610	6.0	5.80	1.0	6	15	50	6
UPR0805	8.0	7.70	0.5	8	20	60	8
UPR0810	8.0	7.70	1.0	8	20	60	8
UPR1010	10.0	9.60	1.0	10	25	75	10
UPR1020	10.0	9.60	2.0	10	25	75	10
UPR1030	10.0	9.60	3.0	10	25	75	10
UPR1210	12.0	11.5	1.0	12	30	75	12
UPR1220	12.0	11.5	2.0	12	30	75	12

UGR

Super MG | 0.2 μm | 35° | R | 4 Flutes | HRc ▸65 | G15

極超微粒圓鼻角立銑刀 End Mills

Corner Radius

型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UGR0202	2.0	0.2	6	50	6
UGR0205	2.0	0.5	6	50	6
UGR0302S	3.0	0.2	8	50	3
UGR0305S	3.0	0.5	8	50	3
UGR0402	4.0	0.2	10	50	6
UGR0405	4.0	0.5	10	50	6
UGR0505	5.0	0.5	13	50	6
UGR0510	5.0	1.0	13	50	6
UGR0605	6.0	0.5	16	50	6
UGR0610	6.0	1.0	16	50	6
UGR0805	8.0	0.5	20	60	8
UGR0810	8.0	1.0	20	60	8
UGR1005	10.0	0.5	25	75	10
UGR1010	10.0	1.0	25	75	10
UGR1020	10.0	2.0	25	75	10
UGR1030	10.0	3.0	25	75	10
UGR1210	12.0	1.0	30	75	12
UGR1220	12.0	2.0	30	75	12
UGR1230	12.0	3.0	30	75	12
UGR1610	16.0	1.0	45	100	16
UGR1620	16.0	2.0	45	100	16
UGR1630	16.0	3.0	45	100	16

UVR

Super MG | 0.2 μm | 45° | R | 6 Flutes | HRc ▸65 | G12

高硬度圓鼻立銑刀 End Mills

High Hardness

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	R R角 Corner R	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UVR0606	6.0	5.80	0.3	8	20	50	6
UVR0806	8.0	7.70	0.3	10	25	60	8
UVR1006	10.0	9.60	0.5	12	30	75	10
UVR1206	12.0	11.5	0.5	15	36	75	12
UVR1606	16.0	15.4	1.0	24	40	100	16
UVR2006	20.0	19.4	1.0	30	50	100	20

UVTR

Super MG | 0.2 μm | 45° | R | 6 Flutes | HRc ▸65 | G15

高硬度圓鼻立銑刀 End Mills

High Hardness

型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UVTR0605	6.0	0.5	16	50	6
UVTR0610	6.0	1.0	16	50	6
UVTR0805	8.0	0.5	20	60	8
UVTR0810	8.0	1.0	20	60	8
UVTR1010	10.0	1.0	25	75	10
UVTR1210	12.0	1.0	30	75	12
UVTR1610	16.0	1.0	40	100	16
UVTR1620	16.0	2.0	40	100	16
UVTR2020	20.0	2.0	45	100	20

UET 2T

Super MG | 0.4 μm | 35° | 2 Flutes | HRc ▸60 | G15

極超微粒立銑刀 End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UET0102S	1.0	3	50	3
UET0102	1.0	3	50	4
UET0152S	1.5	4	50	3
UET0152	1.5	4	50	4
UET0202S	2.0	6	50	3
UET0202	2.0	6	50	4
UET0302S	3.0	8	50	3
UET0302M	3.0	8	50	4
UET0302	3.0	8	50	6
UET0402M	4.0	11	50	4
UET0402	4.0	11	50	6
UET0502	5.0	13	50	6
UET0602	6.0	16	50	6
UET0802	8.0	20	60	8
UET1002	10.0	25	75	10
UET1202	12.0	30	75	12
UET1602	16.0	45	100	16

UET 4T

Super MG | 0.4 μm | 45° | 4 Flutes | HRc ▸60 | G15

極超微粒立銑刀 End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UET0104	1.0	3	50	4
UET0154	1.5	4	50	4
UET0204	2.0	6	50	4
UET0304S	3.0	8	50	3
UET0304M	3.0	8	50	4
UET0304	3.0	8	50	6
UET0404S	4.0	11	50	4
UET0404	4.0	11	50	6
UET0504	5.0	13	50	6
UET0604	6.0	16	50	6
UET0804	8.0	20	60	8
UET1004	10.0	25	75	10
UET1204	12.0	30	75	12
UET1604	16.0	45	100	16
UET2004	20.0	45	100	20

UEX

Super MG | 0.2 μm | 45° | 4 Flutes | HRc ▸65 | G15

無敵高硬度立銑刀 End Mills

High Hardness

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UEX0104S	1.0	3	50	4
UEX0104	1.0	3	50	6
UEX0154S	1.5	4	50	4
UEX0154	1.5	4	50	6
UEX0204S	2.0	6	50	4
UEX0204	2.0	6	50	6
UEX0304S	3.0	8	50	4
UEX0304	3.0	8	50	6
UEX0404S	4.0	11	50	4
UEX0404	4.0	11	50	6
UEX0504	5.0	13	50	6
UEX0604	6.0	16	50	6
UEX0804	8.0	20	60	8
UEX1004	10.0	22	75	10
UEX1204	12.0	26	75	12
UEX1604	16.0	36	100	16
UEX2004	20.0	40	100	20

UVT

Super MG | 0.2 μm | 45° | 6 Flutes | HRc ▸65 | G15

高硬度用立銑刀 End Mills

High Hardness

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UVT0606	6.0	16	50	6
UVT0606L	6.0	16	75	6
UVT0806	8.0	20	60	8
UVT0806L	8.0	20	100	8
UVT1006	10.0	25	75	10
UVT1006L	10.0	25	100	10
UVT1206	12.0	30	75	12
UVT1206L	12.0	30	100	12
UVT1606	16.0	40	100	16
UVT2006	20.0	45	100	20

UES

Super MG | 0.2 μm | 45° | 4 Flutes | HRc ▸65 | G12

無敵高硬度短刃立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UES0604	6.0	5.80	8	13	50	6
UES0804	8.0	7.70	10	17	60	8
UES1004	10.0	9.60	12	22	75	10
UES1204	12.0	11.5	15	25	75	12

NEW

新品上市

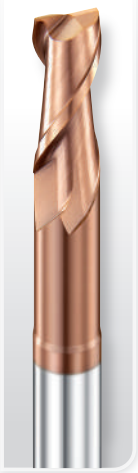
ULE 2T

Super MG | 0.4 μm | 35° | 2 Flutes | HRc ▸60 | G12

極超微粒長柄立銑刀
End Mills

Long Shank

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
ULE0602	6.0	5.80	16	40	100	6
ULE0602X	6.0	5.80	16	40	150	6
ULE0802	8.0	7.70	20	50	100	8
ULE0802X	8.0	7.70	20	50	150	8
ULE1002	10.0	9.60	25	50	100	10
ULE1002X	10.0	9.60	25	50	150	10
ULE1202	12.0	11.5	30	50	100	12
ULE1202X	12.0	11.5	30	50	150	12



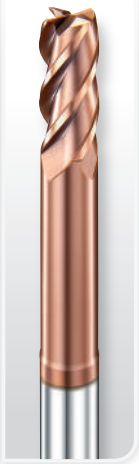
ULE 4T

Super MG | 0.4 μm | 35° | 4 Flutes | HRc ▸60 | G12

極超微粒長柄立銑刀
End Mills

Long Shank

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
ULE0604	6.0	5.80	16	40	100	6
ULE0604X	6.0	5.80	16	40	150	6
ULE0804	8.0	7.70	20	50	100	8
ULE0804X	8.0	7.70	20	50	150	8
ULE1004	10.0	9.60	25	50	100	10
ULE1004X	10.0	9.60	25	50	150	10
ULE1204	12.0	11.5	30	50	100	12
ULE1204X	12.0	11.5	30	50	150	12
ULE1604X	16.0	15.5	40	65	150	16
ULE2004X	20.0	19.0	45	70	150	20



UNR

Super MG | 0.4 μm | 35° | R | 2 Flutes | HRc ▸60 | G12

極超微粒圓鼻角立銑刀
End Mills

Corner Radius

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	R R角 Corner R	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UNR0402	4.0	3.90	0.2	6	12	50	6
UNR0405	4.0	3.90	0.5	6	12	50	6
UNR0602	6.0	5.80	0.2	8	18	50	6
UNR0605	6.0	5.80	0.5	8	18	50	6
UNR0610	6.0	5.80	1.0	8	18	50	6
UNR0802	8.0	7.70	0.2	10	24	60	8
UNR0805	8.0	7.70	0.5	10	24	60	8
UNR0810	8.0	7.70	1.0	10	24	60	8
UNR1003	10.0	9.60	0.3	12	30	75	10
UNR1005	10.0	9.60	0.5	12	30	75	10
UNR1010	10.0	9.60	1.0	12	30	75	10
UNR1020	10.0	9.60	2.0	12	30	75	10
UNR1210	12.0	11.5	1.0	15	36	75	12
UNR1220	12.0	11.5	2.0	15	36	75	12
UNR1605	16.0	15.4	0.5	24	40	100	16
UNR1610	16.0	15.4	1.0	24	40	100	16

即將停產
Item to be discontinued

UHR

Super MG | 0.4 μm | 45° | R | 3 Flutes | HRc ▸60 | G15

極超微粒立銑刀
End Mills

Corner Radius

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	R R角 Corner R	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UHR0605	6.0	5.80	0.5	8	30	75	6
UHR0805	8.0	7.70	0.5	10	40	100	8
UHR1005	10.0	9.60	0.5	12	50	100	10
UHR1010	10.0	9.60	1.0	12	50	100	10
UHR1205	12.0	11.6	0.5	15	50	100	12
UHR1610	16.0	15.4	1.0	24	50	150	16

即將停產
Item to be discontinued

破壞王–超級龍捲風系列
High Performance Cutting

刀具推薦表詳見 P.57
Selection of Endmill P.57

UEW 4T

Super MG | 0.4 μm | 35° | FIT | 4 Flutes | HRc ▸55 | G10

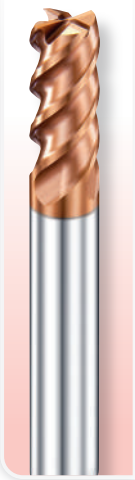
龍捲風立銑刀 End Mills — Heavy Duty

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UEW0604	6.0	16	50	6
UEW0804	8.0	20	60	8
UEW1004	10.0	22	75	10
UEW1204	12.0	26	75	12
UEW1604	16.0	45	100	16
UEW2004	20.0	55	120	20

UPS

Super MG | 0.4 μm | 45° | FIT | 4 Flutes | HRc ▸60 | G10

無敵高效能立銑刀 End Mills — Heavy Duty

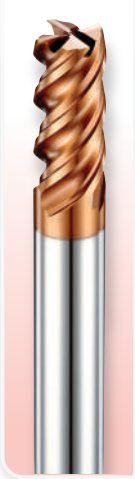


型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UPS0304	3.0	8	50	6
UPS0304L	3.0	12	60	6
UPS0404	4.0	11	50	6
UPS0404L	4.0	16	60	6
UPS0504	5.0	13	50	6
UPS0604	6.0	16	50	6
UPS0604L	6.0	20	60	6
UPS0804	8.0	20	60	8
UPS0804L	8.0	25	75	8
UPS1004	10.0	22	75	10
UPS1004L	10.0	30	80	10
UPS1204	12.0	26	75	12
UPS1204L	12.0	35	100	12
UPS1604	16.0	36	100	16
UPS1604L	16.0	50	110	16
UPS1804	18.0	40	100	18
UPS2004	20.0	40	100	20
UPS2004L	20.0	50	120	20

UPZ

Super MG | 0.4 μm | 45° | FIT | 4 Flutes | HRc ▸60 | G10

抗震高效能立銑刀 End Mills — Heavy Duty

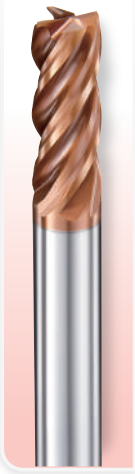


型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UPZ0304	3.0	8	50	6
UPZ0404	4.0	11	50	6
UPZ0504	5.0	13	50	6
UPZ0604	6.0	16	50	6
UPZ0804	8.0	20	60	8
UPZ1004	10.0	22	75	10
UPZ1204	12.0	26	75	12
UPZ1604	16.0	36	100	16
UPZ2004	20.0	40	100	20

UPE

Super MG | 0.4 μm | 35° | FIT | 4 Flutes | HRc ▸60 | G10

高效能立銑刀 End Mills — Heavy Duty

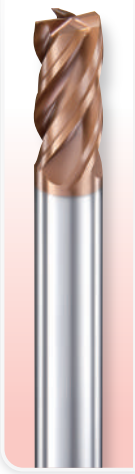


型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UPE0304	3.0	8	50	6
UPE0404	4.0	11	50	6
UPE0504	5.0	13	50	6
UPE0604	6.0	16	50	6
UPE0804	8.0	20	60	8
UPE1004	10.0	22	75	10
UPE1204	12.0	26	75	12
UPE1404	14.0	30	80	14
UPE1604	16.0	36	100	16
UPE1804	18.0	40	100	18
UPE2004	20.0	40	100	20
UPE2504	25.0	45	100	25

UPER

Super MG | 0.4 μm | 35° | FIT | R | 4 Flutes | HRc ▸60 | G10

高效能圓鼻角立銑刀 End Mills — Heavy Duty



型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UPER0405	4.0	0.5	11	50	6
UPER0502	5.0	0.2	13	50	6
UPER0505	5.0	0.5	13	50	6
UPER0605	6.0	0.5	16	50	6
UPER0610	6.0	1.0	16	50	6
UPER0805	8.0	0.5	20	60	8
UPER0810	8.0	1.0	20	60	8
UPER1005	10.0	0.5	22	75	10
UPER1010	10.0	1.0	22	75	10
UPER1020	10.0	2.0	22	75	10
UPER1210	12.0	1.0	26	75	12
UPER1220	12.0	2.0	26	75	12
UPER1610	16.0	1.0	36	100	16
UPER1620	16.0	2.0	36	100	16
UPER2010	20.0	1.0	40	100	20
UPER2020	20.0	2.0	40	100	20

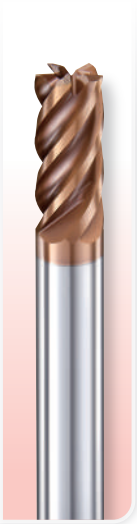
UPW

Super MG | 0.4 μm | 37° | FIT | 5 Flutes | HRc ▸60 | G10

無敵高效能立銑刀 End Mills

Heavy Duty

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UPW0305	3.0	8	50	6
UPW0405	4.0	11	50	6
UPW0505	5.0	13	50	6
UPW0605	6.0	16	50	6
UPW0805	8.0	20	60	8
UPW1005	10.0	22	75	10
UPW1205	12.0	26	75	12
UPW1405	14.0	30	80	14
UPW1605	16.0	36	100	16
UPW1805	18.0	40	100	18
UPW2005	20.0	40	100	20
UPW2505	25.0	45	100	25



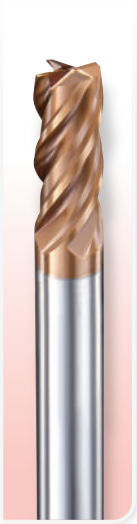
UPG

Super MG | 0.4 μm | 35°~38° | FIT | 4 Flutes | HRc ▸60 | G10

抗震高效能立銑刀 End Mills

Heavy Duty

型號 Type No.	D1 直徑 Diameter	C 倒角 Chamfer	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UPG0304	3.0	0.15	8	50	6
UPG0404	4.0	0.15	11	50	6
UPG0504	5.0	0.2	13	50	6
UPG0604	6.0	0.2	16	50	6
UPG0604L	6.0	0.2	20	60	6
UPG0804	8.0	0.25	20	60	8
UPG0804L	8.0	0.25	25	75	8
UPG1004	10.0	0.3	22	75	10
UPG1004L	10.0	0.3	30	80	10
UPG1204	12.0	0.3	26	75	12
UPG1204L	12.0	0.3	35	100	12
UPG1604	16.0	0.4	40	100	16
UPG1604L	16.0	0.4	50	120	16
UPG1804	18.0	0.5	40	100	18
UPG2004	20.0	0.5	40	100	20
UPG2004L	20.0	0.5	50	120	20



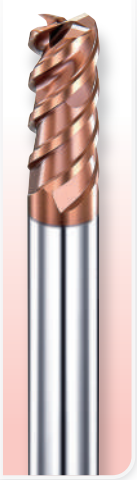
UPJ

Super MG | 0.4 μm | 50° | FIT | R | 4 Flutes | HRc ▸60 | G10

無敵高剛性立銑刀 End Mills

Heavy Duty

型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UPJ0304	3.0	0.2	8	50	6
UPJ0404	4.0	0.3	11	50	6
UPJ0504	5.0	0.3	13	50	6
UPJ0604	6.0	0.4	16	50	6
UPJ0804	8.0	0.5	20	60	8
UPJ1004	10.0	0.6	25	75	10
UPJ1204	12.0	0.6	30	75	12
UPJ1604	16.0	0.8	45	110	16
UPJ2004	20.0	1.0	50	110	20



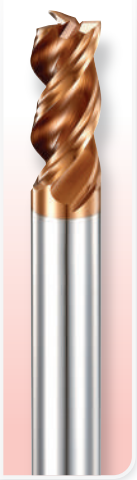
UPA

Super MG | 0.4 μm | 40° | FIT | 3 Flutes | HRc ▸55 | G10

無敵高效能立銑刀 End Mills

Heavy Duty

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UPA0203	2.0	6	50	6
UPA0303	3.0	8	50	6
UPA0403	4.0	11	50	6
UPA0503	5.0	13	50	6
UPA0603	6.0	16	50	6
UPA0803	8.0	20	60	8
UPA1003	10.0	25	75	10
UPA1203	12.0	30	75	12
UPA1603	16.0	50	120	16
UPA2003	20.0	60	120	20



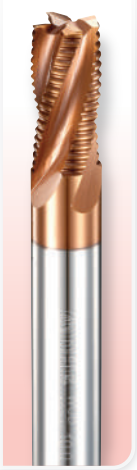
WUB

MG | 0.6 μm | Roughing | 20° | FIT | 4 Flutes | HRc ▸55 | G10

抗震粗齒中目銑刀 End Mills

Heavy Duty

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
WUB0604	6.0	16	50	6
WUB0804	8.0	20	60	8
WUB1004	10.0	25	75	10
WUB1204	12.0	30	75	12
WUB1404	14.0	35	100	16
WUB1604	16.0	40	100	16
WUB1804	18.0	40	100	20
WUB2004	20.0	45	100	20



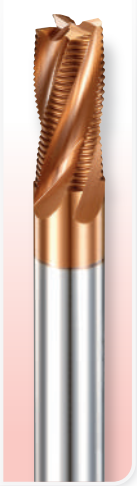
WWB

MG | 0.6 μm | Roughing | 20° | FIT | 4 Flutes | HRc ▸55 | G10

抗震粗齒細目銑刀 End Mills

Heavy Duty

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
WWB0604	6.0	16	50	6
WWB0804	8.0	20	60	8
WWB1004	10.0	25	75	10
WWB1204	12.0	30	75	12
WWB1404	14.0	35	100	16
WWB1604	16.0	40	100	16
WWB1804	18.0	40	100	20
WWB2004	20.0	45	100	20



UEW 3T

Super MG | 0.4 μm | 35° | FIT | 3 Flutes | HRc ▸55 | G10

龍捲風立銑刀 End Mills

Heavy Duty

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UEW0603	6.0	16	50	6
UEW0803	8.0	20	60	8
UEW1003	10.0	22	75	10
UEW1203	12.0	26	75	12
UEW1603	16.0	45	100	16
UEW2003	20.0	55	120	20

即將停產
Item to be discontinued

微小徑、深溝系列
Micro Diameter & Long Neck Series

刀具推薦表詳見 P.58
Selection of Endmill P.58

UHW

Super MG | 0.4 μm | 45° | FIT | 3 Flutes | HRc ▸55 | G10

龍捲風彩虹刀 End Mills

Heavy Duty

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UHW0603	6.0	16	50	6
UHW0803	8.0	20	60	8
UHW0803L	8.0	25	80	8
UHW1003	10.0	22	75	10
UHW1003L	10.0	30	80	10
UHW1203	12.0	26	75	12
UHW1203L	12.0	35	100	12
UHW1603	16.0	50	120	16
UHW2003	20.0	55	120	20

即將停產
Item to be discontinued

UMB

Super MG | 0.2 μm | 30° | 2 Flutes | HRc ▸65 | G15

微小徑圓頭立銑刀 Ball Nose End Mills

Micro Diameter

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UMB0022	R 0.1	0.4	50	4
UMB0032	R 0.15	0.6	50	4
UMB0042	R 0.2	0.8	50	4
UMB0052	R 0.25	1.0	50	4
UMB0062	R 0.3	1.2	50	4
UMB0072	R 0.35	1.4	50	4
UMB0082	R 0.4	1.6	50	4
UMB0102S	R 0.5	2.0	50	3
UMB0102	R 0.5	2.0	50	4
UMB0152S	R 0.75	3.0	50	3
UMB0152	R 0.75	3.0	50	4
UMB0202S	R 1.0	4.0	50	3
UMB0202	R 1.0	4.0	50	4
UMB0302S	R 1.5	6.0	50	3
UMB0302	R 1.5	6.0	50	4
UMB0402	R 2.0	8.0	50	4

UHWR

Super MG | 0.4 μm | 45° | FIT | R | 3 Flutes | HRc ▸55 | G10

龍捲風圓鼻彩虹刀 End Mills

Heavy Duty

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	R R角 Corner R	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UHWR0605	6.0	5.8	0.5	8	18	50	6
UHWR0805	8.0	7.7	0.5	10	24	60	8
UHWR1005	10.0	9.6	0.5	12	30	75	10
UHWR1205	12.0	11.5	0.5	15	36	75	12
UHWR1610	16.0	15.5	1.0	24	40	120	16
UHWR2010	20.0	19.0	1.0	30	50	120	20

即將停產
Item to be discontinued

UME

Super MG | 0.2 μm | 35° | 2 Flutes | HRc ▸65 | G15

微小徑立銑刀 End Mills

Micro Diameter

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UME0022	0.2	0.4	50	4
UME0032	0.3	0.6	50	4
UME0042	0.4	0.8	50	4
UME0052	0.5	1.0	50	4
UME0062	0.6	1.2	50	4
UME0072	0.7	1.4	50	4
UME0082	0.8	1.6	50	4
UME0102	1.0	2.5	50	4
UME0122	1.2	3.0	50	4
UME0152	1.5	4.0	50	4
UME0162	1.6	4.0	50	4
UME0182	1.8	5.0	50	4
UME0202	2.0	6.0	50	4
UME0252	2.5	8.0	50	4
UME0302	3.0	8.0	50	4
UME0402	4.0	11.0	50	4

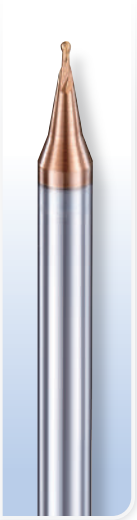
MSB

Super MG | 0.4 μm | 30° | 2 Flutes | HRc ▸60 | G12

微小徑圓頭立銑刀 Ball Nose End Mills

Micro Diameter

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
MSB0032	R 0.15	0.6	50	3
MSB0042	R 0.2	0.8	50	3
MSB0052	R 0.25	1.0	50	3
MSB0062	R 0.3	1.2	50	3
MSB0072	R 0.35	1.4	50	3
MSB0082	R 0.4	1.6	50	3
MSB0102	R 0.5	2.0	50	3
MSB0122	R 0.6	2.4	50	3
MSB0142	R 0.7	2.8	50	3
MSB0152	R 0.75	3.0	50	3
MSB0162	R 0.8	3.2	50	3
MSB0182	R 0.9	3.6	50	3
MSB0202	R 1.0	4.0	50	3
MSB0302	R 1.5	6.0	50	3



MET

Super MG | 0.4 μm | 35° | 2 Flutes | HRc ▸60 | G12

微小徑立銑刀 End Mills

Micro Diameter

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
MET0022	0.2	0.4	50	3
MET0032	0.3	0.6	50	3
MET0042	0.4	0.8	50	3
MET0052	0.5	1.0	50	3
MET0062	0.6	1.2	50	3
MET0082	0.8	1.6	50	3
MET0102	1.0	2.5	50	3
MET0122	1.2	3.0	50	3
MET0142	1.4	3.0	50	3
MET0152	1.5	4.0	50	3
MET0162	1.6	4.0	50	3
MET0182	1.8	5.0	50	3
MET0202	2.0	6.0	50	3
MET0252	2.5	8.0	50	3
MET0302	3.0	8.0	50	3

MBTA

Super MG | 0.4 μm | 30° | 2 Flutes | HRc ▸60 | G12

微小徑圓頭立銑刀 Ball Nose End Mills

Micro Diameter

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
MBTA0032	R 0.15	0.6	50	4
MBTA0042	R 0.2	0.8	50	4
MBTA0052	R 0.25	1.0	50	4
MBTA0062	R 0.3	1.2	50	4
MBTA0072	R 0.35	1.4	50	4
MBTA0082	R 0.4	1.6	50	4
MBTA0102	R 0.5	2.0	50	4
MBTA0122	R 0.6	2.4	50	4
MBTA0142	R 0.7	2.8	50	4
MBTA0152	R 0.75	3.0	50	4
MBTA0162	R 0.8	3.2	50	4
MBTA0182	R 0.9	3.6	50	4
MBTA0202	R 1.0	4.0	50	4
MBTA0302	R 1.5	6.0	50	4
MBTA0402	R 2.0	8.0	50	4

META

Super MG | 0.4 μm | 35° | 2 Flutes | HRc ▸60 | G12

微小徑立銑刀 End Mills

Micro Diameter

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
META0022	0.2	0.4	50	4
META0032	0.3	0.6	50	4
META0042	0.4	0.8	50	4
META0052	0.5	1.0	50	4
META0062	0.6	1.2	50	4
META0072	0.7	1.4	50	4
META0082	0.8	1.6	50	4
META0092	0.9	1.8	50	4
META0102	1.0	2.5	50	4
META0122	1.2	3.0	50	4
META0142	1.4	3.0	50	4
META0152	1.5	4.0	50	4
META0162	1.6	4.0	50	4
META0182	1.8	5.0	50	4
META0202	2.0	6.0	50	4
META0252	2.5	8.0	50	4
META0302	3.0	8.0	50	4

UNBX 2T 小尺寸

Super MG | 0.2 μm | 30° | 2 Flutes | HRc ▸65 | G15

深溝用圓頭立銑刀 Ball Nose End Mills

Long Neck

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UNBX0201	R 0.1	0.18	0.3	1	50	4
UNBX0202	R 0.1	0.18	0.3	2	50	4
UNBX0301	R 0.15	0.26	0.4	1	50	4
UNBX0302	R 0.15	0.26	0.4	2	50	4
UNBX0303	R 0.15	0.26	0.4	3	50	4
UNBX0402	R 0.2	0.36	0.6	2	50	4
UNBX0403	R 0.2	0.36	0.6	3	50	4
UNBX0404	R 0.2	0.36	0.6	4	50	4
UNBX0502	R 0.25	0.46	0.8	2	50	4
UNBX0504	R 0.25	0.46	0.8	4	50	4
UNBX0506	R 0.25	0.46	0.8	6	50	4
UNBX0602	R 0.3	0.56	0.9	2	50	4
UNBX0604	R 0.3	0.56	0.9	4	50	4
UNBX0606	R 0.3	0.56	0.9	6	50	4
UNBX0804	R 0.4	0.76	1.2	4	50	4
UNBX0806	R 0.4	0.76	1.2	6	50	4
UNBX0808	R 0.4	0.76	1.2	8	50	4
UNBX1004	R 0.5	0.95	1.5	4	50	4
UNBX1006	R 0.5	0.95	1.5	6	50	4
UNBX1008	R 0.5	0.95	1.5	8	50	4
UNBX1010	R 0.5	0.95	1.5	10	50	4
UNBX1012	R 0.5	0.95	1.5	12	50	4

UNBX 2T 大尺寸

Super MG | 0.2 μm | 30° | 2 Flutes | HRc ▸65 | G15

深溝用圓頭立銑刀 Ball Nose End Mills

Long Neck

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UNBX1208	R 0.6	1.15	2	8	50	4
UNBX1212	R 0.6	1.15	2	12	50	4
UNBX1506	R 0.75	1.45	2	6	50	4
UNBX1508	R 0.75	1.45	2	8	50	4
UNBX1510	R 0.75	1.45	2	10	50	4
UNBX1512	R 0.75	1.45	2	12	50	4
UNBX1516	R 0.75	1.45	2	16	50	4
UNBX1520	R 0.75	1.45	2	20	50	4
UNBX1608	R 0.8	1.54	2.5	8	50	4
UNBX1612	R 0.8	1.54	2.5	12	50	4
UNBX1616	R 0.8	1.54	2.5	16	50	4
UNBX2008	R 1.0	1.92	3	8	50	4
UNBX2010	R 1.0	1.92	3	10	50	4
UNBX2012	R 1.0	1.92	3	12	50	4
UNBX2016	R 1.0	1.92	3	16	50	4
UNBX2020	R 1.0	1.92	3	20	50	4
UNBX3008	R 1.5	2.90	4	8	50	6
UNBX3010	R 1.5	2.90	4	10	50	6
UNBX3012	R 1.5	2.90	4	12	50	6
UNBX3016	R 1.5	2.90	4	16	50	6
UNBX3020	R 1.5	2.90	4	20	60	6
UNBX3025	R 1.5	2.90	4	25	60	6
UNBX4010	R 2.0	3.88	5	10	75	6
UNBX4015	R 2.0	3.88	5	15	75	6
UNBX4020	R 2.0	3.88	5	20	75	6
UNBX4025	R 2.0	3.88	5	25	75	6
UNBX4030	R 2.0	3.88	5	30	75	6

UNB 小尺寸

Super MG | 0.2 μm | 15° | 2 Flutes | HRc ▸65 | G12

深溝用圓頭立銑刀 Ball Nose End Mills — Long Neck

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UNB0502	R 0.25	0.46	0.8	2	50	4
UNB0504	R 0.25	0.46	0.8	4	50	4
UNB0506	R 0.25	0.46	0.8	6	50	4
UNB0604	R 0.3	0.56	0.9	4	50	4
UNB0606	R 0.3	0.56	0.9	6	50	4
UNB0806	R 0.4	0.76	1.2	6	50	4
UNB0808	R 0.4	0.76	1.2	8	50	4
UNB1006	R 0.5	0.95	1.5	6	50	4
UNB1008	R 0.5	0.95	1.5	8	50	4
UNB1010	R 0.5	0.95	1.5	10	50	4
UNB1012	R 0.5	0.95	1.5	12	50	4
UNB1208	R 0.6	1.15	2	8	50	4
UNB1212	R 0.6	1.15	2	12	50	4
UNB1508	R 0.75	1.45	2	8	50	4
UNB1510	R 0.75	1.45	2	10	50	4
UNB1512	R 0.75	1.45	2	12	50	4
UNB1516	R 0.75	1.45	2	16	50	4
UNB1520	R 0.75	1.45	2	20	50	4

UNB 大尺寸

Super MG | 0.2 μm | 15° | 2 Flutes | HRc ▸65 | G12

深溝用圓頭立銑刀 Ball Nose End Mills — Long Neck

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UNB1608	R 0.8	1.54	2.5	8	50	4
UNB1612	R 0.8	1.54	2.5	12	50	4
UNB1616	R 0.8	1.54	2.5	16	50	4
UNB2008	R 1.0	1.92	3	8	50	4
UNB2010	R 1.0	1.92	3	10	50	4
UNB2012	R 1.0	1.92	3	12	50	4
UNB2016	R 1.0	1.92	3	16	50	4
UNB2020	R 1.0	1.92	3	20	50	4
UNB3008	R 1.5	2.90	4	8	50	6
UNB3010	R 1.5	2.90	4	10	50	6
UNB3016	R 1.5	2.90	4	16	50	6
UNB3020	R 1.5	2.90	4	20	60	6
UNB3025	R 1.5	2.90	4	25	60	6
UNB4010	R 2.0	3.88	5	10	75	6
UNB4015	R 2.0	3.88	5	15	75	6
UNB4020	R 2.0	3.88	5	20	75	6
UNB4025	R 2.0	3.88	5	25	75	6
UNB4030	R 2.0	3.88	5	30	75	6

UNBX 4T

Super MG | 0.2 μm | 30° | 4 Flutes | HRc ▸65 | G15

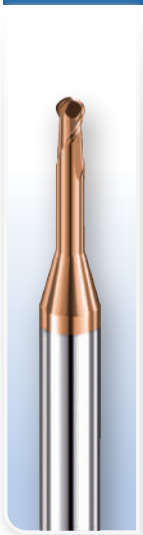
深溝用圓頭立銑刀 Ball Nose End Mills — Long Neck

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UNBX100404	R 0.5	0.95	1.5	4	50	4
UNBX100604	R 0.5	0.95	1.5	6	50	4
UNBX100804	R 0.5	0.95	1.5	8	50	4
UNBX101004	R 0.5	0.95	1.5	10	50	4
UNBX101204	R 0.5	0.95	1.5	12	50	4
UNBX150604	R 0.75	1.45	2	6	50	4
UNBX150804	R 0.75	1.45	2	8	50	4
UNBX151004	R 0.75	1.45	2	10	50	4
UNBX151204	R 0.75	1.45	2	12	50	4
UNBX151604	R 0.75	1.45	2	16	50	4
UNBX200804	R 1.0	1.92	3	8	50	4
UNBX201004	R 1.0	1.92	3	10	50	4
UNBX201204	R 1.0	1.92	3	12	50	4
UNBX201604	R 1.0	1.92	3	16	50	4
UNBX202004	R 1.0	1.92	3	20	50	4
UNBX300804	R 1.5	2.90	4	8	60	6
UNBX301004	R 1.5	2.90	4	10	60	6
UNBX301204	R 1.5	2.90	4	12	60	6
UNBX301604	R 1.5	2.90	4	16	60	6
UNBX302004	R 1.5	2.90	4	20	60	6
UNBX302504	R 1.5	2.90	4	25	60	6
UNBX401004	R 2.0	3.88	5	10	75	6
UNBX401204	R 2.0	3.88	5	12	75	6
UNBX401604	R 2.0	3.88	5	16	75	6
UNBX402004	R 2.0	3.88	5	20	75	6
UNBX402504	R 2.0	3.88	5	25	75	6

LNB

MG | 0.4 μm | 30° | 2 Flutes | HRc ▸60 | G12

深溝用圓頭立銑刀 Ball Nose End Mills — Long Neck



型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
LNB1006	R 0.5	0.95	1.5	6	50	4
LNB1008	R 0.5	0.95	1.5	8	50	4
LNB1010	R 0.5	0.95	1.5	10	50	4
LNB1012	R 0.5	0.95	1.5	12	50	4
LNB1508	R 0.75	1.45	2	8	50	4
LNB1510	R 0.75	1.45	2	10	50	4
LNB1512	R 0.75	1.45	2	12	50	4
LNB1516	R 0.75	1.45	2	16	50	4
LNB1520	R 0.75	1.45	2	20	50	4
LNB2008	R 1.0	1.92	3	8	50	4
LNB2010	R 1.0	1.92	3	10	50	4
LNB2012	R 1.0	1.92	3	12	50	4
LNB2016	R 1.0	1.92	3	16	50	4
LNB2020	R 1.0	1.92	3	20	50	4
LNB3008	R 1.5	2.90	4	8	50	6
LNB3010	R 1.5	2.90	4	10	50	6
LNB3012	R 1.5	2.90	4	12	50	6
LNB3016	R 1.5	2.90	4	16	50	6
LNB3020	R 1.5	2.90	4	20	60	6
LNB3025	R 1.5	2.90	4	25	60	6
LNB4012	R 2.0	3.88	5	12	60	6
LNB4016	R 2.0	3.88	5	16	60	6
LNB4020	R 2.0	3.88	5	20	60	6
LNB4025	R 2.0	3.88	5	25	75	6
LNB4030	R 2.0	3.88	5	30	75	6

UXE 小尺寸

Super MG | 0.2 μm | 35° | R | 4 Flutes | HRc ▸65 | G15

深溝用圓鼻立銑刀 End Mills — Long Neck Corner Radius

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	R R角 Corner R	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UXE100401	1.0	0.95	0.1	1.5	4	50	6
UXE100601	1.0	0.95	0.1	1.5	6	50	6
UXE100801	1.0	0.95	0.1	1.5	8	50	6
UXE101001	1.0	0.95	0.1	1.5	10	50	6
UXE101201	1.0	0.95	0.1	1.5	12	50	6
UXE100402	1.0	0.95	0.2	1.5	4	50	6
UXE100602	1.0	0.95	0.2	1.5	6	50	6
UXE100802	1.0	0.95	0.2	1.5	8	50	6
UXE101002	1.0	0.95	0.2	1.5	10	50	6
UXE101202	1.0	0.95	0.2	1.5	12	50	6
UXE150401	1.5	1.44	0.1	1.5	4	50	6
UXE150601	1.5	1.44	0.1	1.5	6	50	6
UXE150801	1.5	1.44	0.1	1.5	8	50	6
UXE151001	1.5	1.44	0.1	1.5	10	50	6
UXE151201	1.5	1.44	0.1	1.5	12	50	6
UXE150402	1.5	1.44	0.2	1.5	4	50	6
UXE150602	1.5	1.44	0.2	1.5	6	50	6
UXE150802	1.5	1.44	0.2	1.5	8	50	6
UXE151002	1.5	1.44	0.2	1.5	10	50	6
UXE151202	1.5	1.44	0.2	1.5	12	50	6

UXE 大尺寸

Super MG | 0.2 μm | 35° | R | 4 Flutes | HRc ▸65 | G15

深溝用圓鼻立銑刀 End Mills — Long Neck Corner Radius

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	R R角 Corner R	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UXE200801	2.0	1.92	0.1	2	8	50	6
UXE201001	2.0	1.92	0.1	2	10	50	6
UXE201201	2.0	1.92	0.1	2	12	50	6
UXE201601	2.0	1.92	0.1	2	16	50	6
UXE202001	2.0	1.92	0.1	2	20	50	6
UXE200802	2.0	1.92	0.2	2	8	50	6
UXE201002	2.0	1.92	0.2	2	10	50	6
UXE201202	2.0	1.92	0.2	2	12	50	6
UXE201602	2.0	1.92	0.2	2	16	50	6
UXE202002	2.0	1.92	0.2	2	20	50	6
UXE300802	3.0	2.90	0.2	3	8	50	6
UXE301002	3.0	2.90	0.2	3	10	50	6
UXE301202	3.0	2.90	0.2	3	12	50	6
UXE301602	3.0	2.90	0.2	3	16	50	6
UXE302002	3.0	2.90	0.2	3	20	50	6
UXE300803	3.0	2.90	0.3	3	8	50	6
UXE301003	3.0	2.90	0.3	3	10	50	6
UXE301203	3.0	2.90	0.3	3	12	50	6
UXE301603	3.0	2.90	0.3	3	16	50	6
UXE302003	3.0	2.90	0.3	3	20	50	6
UXE401002	4.0	3.88	0.2	4	10	50	6
UXE401202	4.0	3.88	0.2	4	12	50	6
UXE401602	4.0	3.88	0.2	4	16	50	6
UXE402002	4.0	3.88	0.2	4	20	60	6
UXE401003	4.0	3.88	0.3	4	10	50	6
UXE401203	4.0	3.88	0.3	4	12	50	6
UXE401603	4.0	3.88	0.3	4	16	50	6
UXE402003	4.0	3.88	0.3	4	20	60	6

UNE

Super MG | 0.2 μm | 35° | R | 2 Flutes | HRc ▸65 | G12

深溝用圓鼻立銑刀 End Mills

Long Neck Corner Radius

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	R R角 Corner R	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UNE1004	1.0	0.95	0.1	1.5	4	50	6
UNE1006	1.0	0.95	0.1	1.5	6	50	6
UNE1008	1.0	0.95	0.1	1.5	8	50	6
UNE1010	1.0	0.95	0.1	1.5	10	50	6
UNE1012	1.0	0.95	0.1	1.5	12	50	6
UNE1504	1.5	1.44	0.1	1.5	4	50	6
UNE1508	1.5	1.44	0.1	1.5	8	50	6
UNE1510	1.5	1.44	0.1	1.5	10	50	6
UNE1512	1.5	1.44	0.1	1.5	12	50	6
UNE2008	2.0	1.92	0.2	2	8	50	6
UNE2010	2.0	1.92	0.2	2	10	50	6
UNE2012	2.0	1.92	0.2	2	12	50	6
UNE2016	2.0	1.92	0.2	2	16	50	6
UNE3008	3.0	2.90	0.2	3	8	50	6
UNE3012	3.0	2.90	0.2	3	12	50	6
UNE3016	3.0	2.90	0.2	3	16	50	6
UNE3020	3.0	2.90	0.2	3	20	50	6
UNE4010	4.0	3.88	0.2	4	10	50	6
UNE4016	4.0	3.88	0.2	4	16	50	6
UNE4020	4.0	3.88	0.2	4	20	60	6

UNER

Super MG | 0.2 μm | 35° | R | 2 Flutes | HRc ▸60 | G15

深溝用圓鼻立銑刀 End Mills

Long Neck Corner Radius

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	R R角 Corner R	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UNER1006	1.0	0.95	0.2	1.5	6	50	4
UNER1008	1.0	0.95	0.2	1.5	8	50	4
UNER1010	1.0	0.95	0.2	1.5	10	50	4
UNER1012	1.0	0.95	0.2	1.5	12	50	4
UNER1508	1.5	1.44	0.2	2	8	50	4
UNER1510	1.5	1.44	0.2	2	10	50	4
UNER1512	1.5	1.44	0.2	2	12	50	4
UNER1516	1.5	1.44	0.2	2	16	50	4
UNER2008	2.0	1.92	0.2	3	8	50	4
UNER2010	2.0	1.92	0.2	3	10	50	4
UNER2012	2.0	1.92	0.2	3	12	50	4
UNER2016	2.0	1.92	0.2	3	16	50	4
UNER2020	2.0	1.92	0.2	3	20	50	4
UNER2510	2.5	2.40	0.2	3	10	50	4
UNER2512	2.5	2.40	0.2	3	12	50	4
UNER2516	2.5	2.40	0.2	3	16	50	4
UNER2520	2.5	2.40	0.2	3	20	50	4
UNER3010	3.0	2.90	0.2	4	10	50	6
UNER3012	3.0	2.90	0.2	4	12	50	6
UNER3016	3.0	2.90	0.2	4	16	50	6
UNER3020	3.0	2.90	0.2	4	20	60	6
UNER3025	3.0	2.90	0.2	4	25	60	6

UDE 小尺寸

Super MG | 0.2 μm | 35° | 2 Flutes | HRc ▸65 | G15

深溝用立銑刀 End Mills

Long Neck

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UDE0201	0.2	0.18	0.3	1	50	4
UDE0202	0.2	0.18	0.3	2	50	4
UDE0301	0.3	0.26	0.4	1	50	4
UDE0302	0.3	0.26	0.4	2	50	4
UDE0303	0.3	0.26	0.4	3	50	4
UDE0402	0.4	0.36	0.6	2	50	4
UDE0403	0.4	0.36	0.6	3	50	4
UDE0404	0.4	0.36	0.6	4	50	4
UDE0502	0.5	0.46	0.8	2	50	4
UDE0504	0.5	0.46	0.8	4	50	4
UDE0506	0.5	0.46	0.8	6	50	4
UDE0602	0.6	0.55	0.9	2	50	4
UDE0604	0.6	0.55	0.9	4	50	4
UDE0606	0.6	0.55	0.9	6	50	4
UDE0702	0.7	0.65	1	2	50	4
UDE0704	0.7	0.65	1	4	50	4
UDE0706	0.7	0.65	1	6	50	4
UDE0802	0.8	0.75	1.2	2	50	4
UDE0804	0.8	0.75	1.2	4	50	4
UDE0806	0.8	0.75	1.2	6	50	4
UDE0808	0.8	0.75	1.2	8	50	4

UDE 大尺寸

Super MG | 0.2 μm | 35° | 2 Flutes | HRc ▸65 | G15

深溝用立銑刀 End Mills

Long Neck

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UDE1006	1.0	0.95	1.5	6	50	4
UDE1008	1.0	0.95	1.5	8	50	4
UDE1010	1.0	0.95	1.5	10	50	4
UDE1012	1.0	0.95	1.5	12	50	4
UDE1206	1.2	1.15	1.8	6	50	4
UDE1208	1.2	1.15	1.8	8	50	4
UDE1210	1.2	1.15	1.8	10	50	4
UDE1508	1.5	1.44	2	8	50	4
UDE1510	1.5	1.44	2	10	50	4
UDE1512	1.5	1.44	2	12	50	4
UDE1516	1.5	1.44	2	16	50	4
UDE2008	2.0	1.92	3	8	50	4
UDE2010	2.0	1.92	3	10	50	4
UDE2012	2.0	1.92	3	12	50	4
UDE2016	2.0	1.92	3	16	50	4
UDE2020	2.0	1.92	3	20	50	4
UDE2510	2.5	2.40	3	10	50	4
UDE2512	2.5	2.40	3	12	50	4
UDE2516	2.5	2.40	3	16	50	4
UDE2520	2.5	2.40	3	20	50	4
UDE3010	3.0	2.90	4	10	50	6
UDE3012	3.0	2.90	4	12	50	6
UDE3016	3.0	2.90	4	16	50	6
UDE3020	3.0	2.90	4	20	60	6
UDE3025	3.0	2.90	4	25	60	6

LNE

MG | 0.6 μm | 35° | 2 Flutes | HRc ▸60 | G12

深溝用立銑刀 End Mills

Long Neck

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
LNE0502	0.5	0.46	0.8	2	50	4
LNE0504	0.5	0.46	0.8	4	50	4
LNE0506	0.5	0.46	0.8	6	50	4
LNE1006	1.0	0.95	1.5	6	50	4
LNE1008	1.0	0.95	1.5	8	50	4
LNE1010	1.0	0.95	1.5	10	50	4
LNE1012	1.0	0.95	1.5	12	50	4
LNE1508	1.5	1.45	2	8	50	4
LNE1510	1.5	1.45	2	10	50	4
LNE1512	1.5	1.45	2	12	50	4
LNE1516	1.5	1.45	2	16	50	4
LNE2008	2.0	1.92	3	8	50	4
LNE2010	2.0	1.92	3	10	50	4
LNE2012	2.0	1.92	3	12	50	4
LNE2016	2.0	1.92	3	16	50	4
LNE2020	2.0	1.92	3	20	50	4
LNE2510	2.5	2.42	3	10	50	4
LNE2512	2.5	2.42	3	12	50	4
LNE2516	2.5	2.42	3	16	50	4
LNE2520	2.5	2.42	3	20	50	4
LNE3010	3.0	2.90	4	10	50	6
LNE3012	3.0	2.90	4	12	50	6
LNE3016	3.0	2.90	4	16	50	6
LNE3020	3.0	2.90	4	20	60	6
LNE3025	3.0	2.90	4	25	60	6

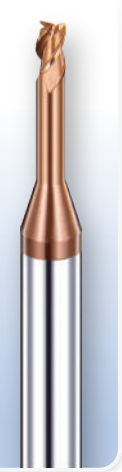
LNH

MG | 0.6 μm | 35° | 3 Flutes | HRc ▸60 | G12

深溝用立銑刀 End Mills

Long Neck

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
LNH1006	1.0	0.95	1.5	6	50	4
LNH1008	1.0	0.95	1.5	8	50	4
LNH1010	1.0	0.95	1.5	10	50	4
LNH1012	1.0	0.95	1.5	12	50	4
LNH1508	1.5	1.45	2	8	50	4
LNH1510	1.5	1.45	2	10	50	4
LNH1512	1.5	1.45	2	12	50	4
LNH1516	1.5	1.45	2	16	50	4
LNH2008	2.0	1.92	3	8	50	4
LNH2010	2.0	1.92	3	10	50	4
LNH2012	2.0	1.92	3	12	50	4
LNH2016	2.0	1.92	3	16	50	4
LNH2020	2.0	1.92	3	20	50	4
LNH2510	2.5	2.42	3	10	50	4
LNH2512	2.5	2.42	3	12	50	4
LNH2516	2.5	2.42	3	16	50	4
LNH2520	2.5	2.42	3	20	50	4
LNH3010	3.0	2.90	4	10	50	6
LNH3012	3.0	2.90	4	12	50	6
LNH3016	3.0	2.90	4	16	50	6
LNH3020	3.0	2.90	4	20	60	6
LNH3025	3.0	2.90	4	25	60	6



LNX

深溝用立銑刀 End Mills

Long Neck

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
LNX1006	1.0	0.95	1.5	6	50	4
LNX1008	1.0	0.95	1.5	8	50	4
LNX1010	1.0	0.95	1.5	10	50	4
LNX1012	1.0	0.95	1.5	12	50	4
LNX1508	1.5	1.45	2	8	50	4
LNX1510	1.5	1.45	2	10	50	4
LNX1512	1.5	1.45	2	12	50	4
LNX1516	1.5	1.45	2	16	50	4
LNX2008	2.0	1.92	3	8	50	4
LNX2010	2.0	1.92	3	10	50	4
LNX2012	2.0	1.92	3	12	50	4
LNX2016	2.0	1.92	3	16	50	4
LNX2020	2.0	1.92	3	20	50	4
LNX2510	2.5	2.42	3	10	50	4
LNX2512	2.5	2.42	3	12	50	4
LNX2516	2.5	2.42	3	16	50	4
LNX2520	2.5	2.42	3	20	50	4
LNX3010	3.0	2.90	4	10	50	6
LNX3012	3.0	2.90	4	12	50	6
LNX3016	3.0	2.90	4	16	50	6
LNX3020	3.0	2.90	4	20	60	6
LNX3025	3.0	2.90	4	25	60	6

鋁用加工系列
Soft Materials Cutting Series

刀具推薦表詳見 P.49~52
Selection of Endmill P.49~52

AEW

彩虹立銑刀 End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
AEW0603	6.0	16	50	6
AEW0803	8.0	20	60	8
AEW0803L	8.0	25	80	8
AEW1003	10.0	22	75	10
AEW1003L	10.0	30	80	10
AEW1203	12.0	26	75	12
AEW1203L	12.0	35	100	12
AEW1603	16.0	40	100	16
AEW1603L	16.0	50	120	16
AEW2003	20.0	45	100	20
AEW2003L	20.0	55	120	20

AEWR

彩虹圓隅鼻立銑刀 End Mills

Corner Radius

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	R R角 Corner R	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
AEWR0605	6.0	5.8	0.5	8	18	50	6
AEWR0805	8.0	7.7	0.5	10	24	60	8
AEWR1005	10.0	9.6	0.5	12	30	75	10
AEWR1205	12.0	11.5	0.5	15	36	75	12
AEWR1610	16.0	15.5	1.0	24	40	120	16
AEWR2010	20.0	19.0	1.0	30	50	120	20

AES

高效能鋁用立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
AES0203S	2.0	6	50	4
AES0203	2.0	6	50	6
AES0303S	3.0	8	50	4
AES0303	3.0	8	50	6
AES0403S	4.0	11	50	4
AES0403	4.0	11	50	6
AES0503	5.0	13	50	6
AES0603	6.0	16	50	6
AES0603L	6.0	32	75	6
AES0803	8.0	20	60	8
AES0803L	8.0	45	100	8
AES1003	10.0	25	75	10
AES1003L	10.0	50	100	10
AES1203	12.0	30	75	12
AES1203L	12.0	55	100	12
AES1603	16.0	40	100	16
AES1603L	16.0	50	120	16
AES2003	20.0	45	100	20
AES2003L	20.0	60	120	20

AESR

高效能鋁用圓鼻角立銑刀
End Mills

Corner Radius

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	R R角 Corner R	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
AESR0305	3.0	2.9	0.5	4.5	9	50	6
AESR0405	4.0	3.9	0.5	6.0	12	50	6
AESR0605	6.0	5.8	0.5	9.0	18	60	6
AESR0610	6.0	5.8	1.0	9.0	18	60	6
AESR0805	8.0	7.7	0.5	12.0	24	60	8
AESR0810	8.0	7.7	1.0	12.0	24	60	8
AESR1005	10.0	9.6	0.5	15.0	30	75	10
AESR1010	10.0	9.6	1.0	15.0	30	75	10
AESR1205	12.0	11.5	0.5	18.0	36	75	12
AESR1210	12.0	11.5	1.0	18.0	36	75	12
AESR1605	16.0	15.5	0.5	24.0	40	120	16
AESR1610	16.0	15.5	1.0	24.0	40	120	16
AESR1630	16.0	15.5	3.0	24.0	40	120	16
AESR2005	20.0	19.0	0.5	30.0	50	120	20
AESR2010	20.0	19.0	1.0	30.0	50	120	20
AESR2030	20.0	19.0	3.0	30.0	50	120	20

AEA 2T

鋁用立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
AEA0052	0.5	1.5	50	4
AEA0102	1.0	3	50	4
AEA0152	1.5	4	50	4
AEA0202	2.0	6	50	4
AEA0302	3.0	8	50	4
AEA0402	4.0	12	50	4
AEA0502	5.0	16	50	6
AEA0602	6.0	18	50	6
AEA0802	8.0	22	60	8
AEA1002	10.0	28	75	10
AEA1202	12.0	30	75	12

AEA 3T

鋁用立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
AEA0203	2.0	6	50	6
AEA0303	3.0	10	50	6
AEA0403	4.0	12	50	6
AEA0503	5.0	16	50	6
AEA0603	6.0	18	50	6
AEA0803	8.0	20	60	8
AEA1003	10.0	25	75	10
AEA1203	12.0	30	75	12
AEA1603	16.0	40	100	16

AET 2T

鏡面鋁用立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
AET0052	0.5	1.5	50	4
AET0102	1.0	3	50	6
AET0152	1.5	4	50	6
AET0202	2.0	6	50	6
AET0302	3.0	8	50	6
AET0402	4.0	11	50	6
AET0502	5.0	13	50	6
AET0602	6.0	16	50	6
AET0802	8.0	19	60	8
AET1002	10.0	25	75	10
AET1202	12.0	26	75	12

AET 3T

鏡面鋁用立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
AET0203	2.0	6	50	6
AET0303	3.0	10	50	6
AET0403	4.0	12	50	6
AET0503	5.0	16	60	6
AET0603	6.0	18	60	6
AET0803	8.0	20	60	8
AET1003	10.0	25	75	10
AET1203	12.0	30	75	12
AET1603	16.0	40	100	16

BTC

MG 0.6 μm 25° 2 Flutes

鋁用圓頭立銑刀
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
BTC0102	R0.5	2	50	4
BTC0152	R0.75	3	50	4
BTC0202	R1	4	50	4
BTC0302	R1.5	6	50	3
BTC0402	R2	8	50	4
BTC0602	R3	12	50	6
BTC0802	R4	16	60	8
BTC1002	R5	20	75	10
BTC1202	R6	24	75	12

標準系列
Standard Series

刀具推薦表詳見 P.55~56
Selection of Endmill P.55~56

HBC IBC JBC

MG 0.6 μm 25° 2 Flutes

鋁用圓頭立銑刀
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
HBC0402	R2	8	75	6
HBC0502	R2.5	10	75	6
HBC0602	R3	12	75	6
IBC0402	R2	8	100	6
IBC0602	R3	12	100	6
IBC0802	R4	16	100	8
IBC1002	R5	20	100	10
IBC1202	R6	24	100	12
JBC0602	R3	12	150	6
JBC0802	R4	16	150	8
JBC1002	R5	20	150	10
JBC1202	R6	24	150	12

BTB 2T

MG 0.6 μm 30° 2 Flutes HRc ▸55 T2

超微粒圓頭立銑刀
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
BTB0102	R0.5	2	50	6
BTB0152	R0.75	3	50	6
BTB0202	R1	4	50	6
BTB0252	R1.25	5	50	6
BTB0302	R1.5	6	50	6
BTB0402	R2	8	50	6
BTB0502	R2.5	10	50	6
BTB0602	R3	12	50	6
BTB0802	R4	16	60	8
BTB1002	R5	20	75	10
BTB1202	R6	24	75	12
BTB1602	R8	32	100	16
BTB2002	R10	40	100	20

AER

MG 0.6 μm 45° R 3 Flutes

鋁用圓鼻角立銑刀
End Mills

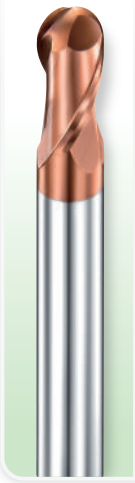
Corner Radius

型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
AER0202	2.0	0.2	6	50	6
AER0302	3.0	0.2	10	50	6
AER0402	4.0	0.2	12	50	6
AER0603	6.0	0.3	18	50	6
AER0805	8.0	0.5	20	60	8
AER1005	10.0	0.5	30	75	10

BTD 2T

MG 0.6 μm 30° 2 Flutes HRc ▸55 G10

超微粒圓頭立銑刀
Ball Nose End Mills



型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
BTD0102	R0.5	2	50	4
BTD0152	R0.75	3	50	4
BTD0202	R1	4	50	4
BTD0252	R1.25	5	50	4
BTD0302	R1.5	6	50	4
BTD0402	R2	8	50	4
BTD0502	R2.5	10	57	6
BTD0602	R3	12	57	6
BTD0802	R4	16	63	8
BTD1002	R5	20	72	10
BTD1202	R6	24	83	12
BTD1602	R8	32	100	16
BTD2002	R10	40	100	20

BTA 2T

MG | 0.6 μm | 30° | 2 Flutes | HRc >55 | T1

超微粒圓頭立銑刀
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
BTA0102	R0.5	2	50	4
BTA0152	R0.75	3	50	4
BTA0202	R1	4	50	4
BTA0252	R1.25	5	50	4
BTA0302	R1.5	6	50	4
BTA0402	R2	8	50	4
BTA0502	R2.5	10	50	6
BTA0602	R3	12	50	6
BTA0802	R4	16	60	8
BTA1002	R5	20	75	10
BTA1202	R6	24	75	12
BTA1602	R8	32	100	16
BTA2002	R10	40	100	20

HBA IBA JBA

MG | 0.6 μm | 30° | 2 Flutes | HRc >55 | T1

超微粒長柄圓頭立銑刀
Ball Nose End Mills

Long Shank

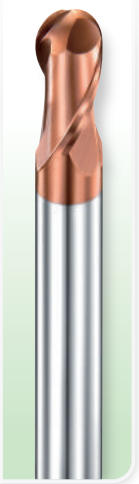
型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
HBA0202	R1	4	75	6
HBA0252	R1.25	5	75	6
HBA0302	R1.5	6	75	6
HBA0402	R2	8	75	6
HBA0502	R2.5	10	75	6
HBA0602	R3	12	75	6
HBA0802	R4	16	75	8
IBA0202	R1	4	100	6
IBA0302	R1.5	6	100	6
IBA0402	R2	8	100	6
IBA0602	R3	12	100	6
IBA0802	R4	16	100	8
IBA1002	R5	20	100	10
IBA1202	R6	24	100	12
JBA0602	R3	12	150	6
JBA0802	R4	16	150	8
JBA1002	R5	20	150	10
JBA1202	R6	24	150	12
JBA1602	R8	32	150	16

BTH 2T

MG | 0.6 μm | 30° | 2 Flutes | HRc >55 | G10

超微粒圓頭立銑刀
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
BTH0102	R0.5	2	50	6
BTH0152	R0.75	3	50	6
BTH0202	R1	4	50	6
BTH0252	R1.25	5	50	6
BTH0302	R1.5	6	50	6
BTH0402	R2	8	50	6
BTH0502	R2.5	10	50	6
BTH0602	R3	12	50	6
BTH0802	R4	16	60	8
BTH1002	R5	20	75	10
BTH1202	R6	24	75	12
BTH1602	R8	32	100	16
BTH2002	R10	40	100	20



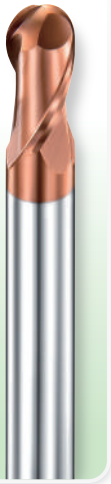
HBH IBH JBH

MG | 0.6 μm | 30° | 2 Flutes | HRc >55 | G10

超微粒長柄圓頭立銑刀
Ball Nose End Mills

Long Shank

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
HBH0202	R1	4	75	6
HBH0252	R1.25	5	75	6
HBH0302	R1.5	6	75	6
HBH0402	R2	8	75	6
HBH0502	R2.5	10	75	6
HBH0602	R3	12	75	6
HBH0802	R4	16	75	8
IBH0202	R1	4	100	6
IBH0302	R1.5	6	100	6
IBH0402	R2	8	100	6
IBH0602	R3	12	100	6
IBH0802	R4	16	100	8
IBH1002	R5	20	100	10
IBH1202	R6	24	100	12
JBH0602	R3	12	150	6
JBH0802	R4	16	150	8
JBH1002	R5	20	150	10
JBH1202	R6	24	150	12
JBH1602	R8	32	150	16

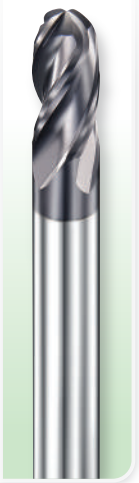


BTA 4T

MG | 0.6 μm | 30° | 4 Flutes | HRc >55 | T1

超微粒圓頭立銑刀
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
BTA0104	R0.5	2	50	4
BTA0154	R0.75	3	50	4
BTA0204	R1	4	50	4
BTA0304	R1.5	6	50	4
BTA0404	R2	8	50	4
BTA0504	R2.5	10	50	6
BTA0604	R3	12	50	6
BTA0804	R4	16	60	8
BTA1004	R5	20	75	10
BTA1204	R6	24	75	12
BTA1604	R8	32	100	16

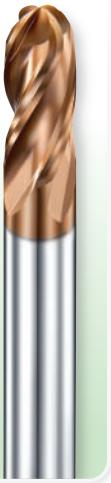


BTD 4T

MG | 0.6 μm | 30° | 4 Flutes | HRc >55 | G10

超微粒圓頭立銑刀
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
BTD0104	R0.5	2	50	4
BTD0154	R0.75	3	50	4
BTD0204	R1	4	50	4
BTD0304	R1.5	6	50	4
BTD0404	R2	8	50	4
BTD0504	R2.5	10	57	6
BTD0604	R3	12	57	6
BTD0804	R4	16	63	8
BTD1004	R5	20	72	10
BTD1204	R6	24	83	12
BTD1604	R8	32	100	16



BTB 4T

MG 0.6 μm 30° 4 Flutes HRc ▸60 T2

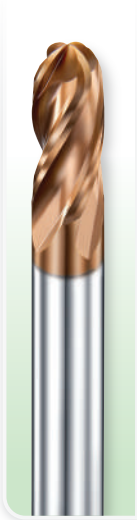
超微粒圓頭立銑刀
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
BTB0204	R1	4	50	6
BTB0304	R1.5	6	50	6
BTB0404	R2	8	50	6
BTB0504	R2.5	10	50	6
BTB0604	R3	12	50	6
BTB0804	R4	16	60	8
BTB1004	R5	20	75	10
BTB1204	R6	24	75	12
BTB1604	R8	32	100	16

BTH 4T

MG 0.6 μm 30° 4 Flutes HRc ▸60 G10

超微粒圓頭立銑刀
Ball Nose End Mills



型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
BTH0204	R1	4	50	6
BTH0304	R1.5	6	50	6
BTH0404	R2	8	50	6
BTH0504	R2.5	10	50	6
BTH0604	R3	12	50	6
BTH0804	R4	16	60	8
BTH1004	R5	20	75	10
BTH1204	R6	24	75	12
BTH1604	R8	32	100	16

ETA 2T

MG 0.6 μm 35° 2 Flutes HRc ▸55 T1

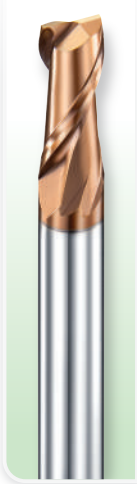
超微粒立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
ETA0102	1.0	3	50	4
ETA0152	1.5	4	50	4
ETA0202	2.0	6	50	4
ETA0252	2.5	8	50	4
ETA0302S	3.0	8	50	3
ETA0302	3.0	8	50	4
ETA0402	4.0	11	50	4
ETA0502S	5.0	13	50	5
ETA0502	5.0	13	50	6
ETA0602	6.0	16	50	6
ETA0802	8.0	20	60	8
ETA1002	10.0	25	75	10
ETA1202	12.0	30	75	12
ETA1602	16.0	40	100	16
ETA2002	20.0	45	100	20

ETD 2T

MG 0.6 μm 35° 2 Flutes HRc ▸55 G10

超微粒立銑刀
End Mills



型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
ETD0102	1.0	3	50	4
ETD0152	1.5	4	50	4
ETD0202	2.0	6	50	4
ETD0252	2.5	8	50	4
ETD0302S	3.0	8	50	3
ETD0302	3.0	8	50	4
ETD0402	4.0	11	50	4
ETD0502S	5.0	13	50	5
ETD0502	5.0	13	57	6
ETD0602	6.0	16	57	6
ETD0802	8.0	20	63	8
ETD1002	10.0	25	72	10
ETD1202	12.0	30	83	12
ETD1602	16.0	40	100	16
ETD2002	20.0	45	100	20

ETB 2T

Super MG 0.4 μm 35° 2 Flutes HRc ▸60 T2

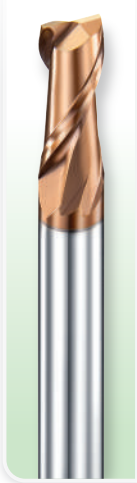
極超微粒立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
ETB0102	1.0	3	50	6
ETB0152	1.5	4	50	6
ETB0202	2.0	6	50	6
ETB0252	2.5	8	50	6
ETB0302	3.0	8	50	6
ETB0402	4.0	11	50	6
ETB0502	5.0	13	50	6
ETB0602	6.0	16	50	6
ETB0802	8.0	20	60	8
ETB1002	10.0	30	75	10
ETB1202	12.0	30	75	12
ETB1602	16.0	40	100	16
ETB2002	20.0	45	100	20

ETG 2T

MG 0.6 μm 35° 2 Flutes HRc ▸55 G10

超微粒立銑刀
End Mills



型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
ETG0102	1.0	3	50	4
ETG0152	1.5	4	50	4
ETG0202	2.0	6	50	4
ETG0252	2.5	8	50	4
ETG0302	3.0	8	50	4
ETG0402	4.0	11	50	4
ETG0502	5.0	13	50	6
ETG0602	6.0	16	50	6
ETG0802	8.0	20	60	8
ETG1002	10.0	25	75	10
ETG1202	12.0	30	75	12

ETH 2T 小尺寸

Super MG | 0.4 μm | 35° | 2 Flutes | HRc ▸60 | G10

極超微粒立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
ETH0102	1.0	3	50	6
ETH0152	1.5	4	50	6
ETH0202	2.0	6	50	6
ETH0252	2.5	8	50	6
ETH0302	3.0	8	50	6
ETH0352	3.5	10	50	6
ETH0402	4.0	11	50	6
ETH0452	4.5	13	50	6
ETH0502	5.0	13	50	6
ETH0552	5.5	13	50	6
ETH0602	6.0	16	50	6
ETH0652	6.5	16	60	8
ETH0702	7.0	16	60	8
ETH0752	7.5	19	60	8
ETH0802	8.0	20	60	8
ETH0852	8.5	20	75	10
ETH0902	9.0	22	75	10
ETH0952	9.5	25	75	10

ETH 2T 大尺寸

Super MG | 0.4 μm | 35° | 2 Flutes | HRc ▸60 | G10

極超微粒立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
ETH1002	10.0	30	75	10
ETH1052	10.5	25	75	12
ETH1102	11.0	28	75	12
ETH1152	11.5	30	75	12
ETH1202	12.0	30	75	12
ETH1252	12.5	30	80	14
ETH1302	13.0	35	80	14
ETH1352	13.5	35	80	14
ETH1402	14.0	40	80	14
ETH1502	15.0	40	100	16
ETH1602	16.0	40	100	16
ETH1702	17.0	45	100	18
ETH1802	18.0	45	100	18
ETH2002	20.0	45	100	20

ETA 4T

MG | 0.6 μm | 35° | 4 Flutes | HRc ▸55 | T1

超微粒立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
ETA0104	1.0	3	50	4
ETA0154	1.5	4	50	4
ETA0204	2.0	6	50	4
ETA0254	2.5	8	50	4
ETA0304S	3.0	8	50	3
ETA0304	3.0	8	50	4
ETA0404	4.0	11	50	4
ETA0504S	5.0	13	50	5
ETA0504	5.0	13	50	6
ETA0604	6.0	16	50	6
ETA0804	8.0	20	60	8
ETA1004	10.0	25	75	10
ETA1204	12.0	30	75	12
ETA1604	16.0	40	100	16
ETA2004	20.0	45	100	20

ETB 4T

Super MG | 0.4 μm | 45° | 4 Flutes | HRc ▸60 | T2

極超微粒立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
ETB0104	1.0	3	50	4
ETB0154	1.5	4	50	4
ETB0204S	2.0	6	50	4
ETB0204	2.0	6	50	6
ETB0254S	2.5	8	50	4
ETB0254	2.5	8	50	6
ETB0304S	3.0	8	50	4
ETB0304	3.0	8	50	6
ETB0354	3.5	10	50	6
ETB0404S	4.0	11	50	4
ETB0404	4.0	11	50	6
ETB0454	4.5	11	50	6
ETB0504	5.0	13	50	6
ETB0604	6.0	16	50	6
ETB0804	8.0	20	60	8
ETB1004Z	10.0	25	75	10
ETB1004	10.0	30	75	10
ETB1204	12.0	30	75	12
ETB1604	16.0	40	100	16
ETB2004	20.0	45	100	20

ETH 4T 小尺寸

Super MG | 0.4 μm | 45° | 4 Flutes | HRc ▸60 | G10

極超微粒立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
ETH0104	1.0	3	50	4
ETH0154	1.5	4	50	4
ETH0204	2.0	6	50	4
ETH0254	2.5	8	50	4
ETH0304S	3.0	8	50	3
ETH0304	3.0	8	50	4
ETH0354	3.5	10	50	4
ETH0404	4.0	11	50	4
ETH0454	4.5	13	50	6
ETH0504S	5.0	13	50	5
ETH0504	5.0	13	50	6
ETH0554	5.5	13	50	6
ETH0604	6.0	16	50	6
ETH0654	6.5	16	60	8
ETH0704	7.0	16	60	8
ETH0754	7.5	19	60	8
ETH0804	8.0	20	60	8
ETH0854	8.5	20	75	10
ETH0904	9.0	22	75	10
ETH0954	9.5	25	75	10

ETH 4T 大尺寸

Super MG | 0.4 μm | 45° | 4 Flutes | HRc ▸60 | G10

極超微粒立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
ETH1004	10.0	30	75	10
ETH1054	10.5	25	75	12
ETH1104	11.0	28	75	12
ETH1154	11.5	30	75	12
ETH1204	12.0	30	75	12
ETH1254	12.5	30	80	14
ETH1304	13.0	35	80	14
ETH1354	13.5	35	80	14
ETH1404	14.0	40	80	14
ETH1504	15.0	40	100	16
ETH1604	16.0	40	100	16
ETH1704	17.0	45	100	18
ETH1804	18.0	45	100	18
ETH2004	20.0	45	100	20

ETD 4T

MG 0.6 μm 35° 4 Flutes HRc ▸55 G10

超微粒立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
ETD0104	1.0	3	50	4
ETD0154	1.5	4	50	4
ETD0204	2.0	6	50	4
ETD0254	2.5	8	50	4
ETD0304S	3.0	8	50	3
ETD0304	3.0	8	50	4
ETD0404	4.0	11	50	4
ETD0504S	5.0	13	50	5
ETD0504	5.0	13	57	6
ETD0604	6.0	16	57	6
ETD0804	8.0	20	63	8
ETD1004	10.0	25	72	10
ETD1204	12.0	30	83	12
ETD1604	16.0	40	100	16
ETD2004	20.0	45	100	20

ETG 4T

MG 0.6 μm 35° 4 Flutes HRc ▸55 G10

超微粒立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
ETG0104	1.0	3	50	4
ETG0154	1.5	4	50	4
ETG0204	2.0	6	50	4
ETG0254	2.5	8	50	4
ETG0304	3.0	8	50	4
ETG0404	4.0	11	50	4
ETG0504	5.0	13	50	6
ETG0604	6.0	16	50	6
ETG0804	8.0	20	60	8
ETG1004	10.0	25	75	10
ETG1204	12.0	30	75	12
ETG1604	16.0	40	100	16

HEA IEA JEA 2T

MG 0.6 μm 35° 2 Flutes HRc ▸55 T1

超微粒長柄立銑刀
End Mills

Long Shank

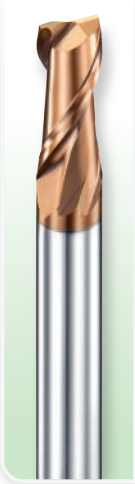
型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
HEA0302	3.0	8	75	3
HEA0402	4.0	11	75	4
HEA0502	5.0	13	75	6
HEA0602	6.0	16	75	6
HEA0802	8.0	20	75	8
IEA0302	3.0	8	100	3
IEA0402	4.0	11	100	4
IEA0502	5.0	13	100	6
IEA0602	6.0	16	100	6
IEA0802	8.0	20	100	8
IEA1002	10.0	25	100	10
IEA1202	12.0	30	100	12
JEA0602	6.0	16	150	6
JEA0802	8.0	20	150	8
JEA1002	10.0	25	150	10
JEA1202	12.0	30	150	12

HEH IEH JEH 2T

MG 0.6 μm 35° 2 Flutes HRc ▸55 G10

超微粒長柄立銑刀
End Mills

Long Shank



型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
HEH0302	3.0	8	75	3
HEH0402	4.0	11	75	4
HEH0502	5.0	13	75	6
HEH0602	6.0	16	75	6
HEH0802	8.0	20	75	8
IEH0302	3.0	8	100	3
IEH0402	4.0	11	100	4
IEH0502	5.0	13	100	6
IEH0602	6.0	16	100	6
IEH0802	8.0	20	100	8
IEH1002	10.0	25	100	10
IEH1202	12.0	30	100	12
JEH0602	6.0	16	150	6
JEH0802	8.0	20	150	8
JEH1002	10.0	25	150	10
JEH1202	12.0	30	150	12

HEA IEA JEA 4T

MG 0.6 μm 35° 4 Flutes HRc ▸55 T1

超微粒長柄立銑刀
End Mills

Long Shank

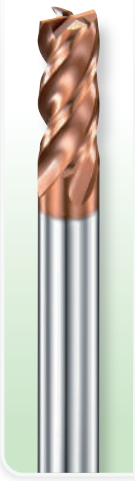
型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
HEA0304	3.0	8	75	3
HEA0404	4.0	11	75	4
HEA0504	5.0	13	75	6
HEA0604	6.0	16	75	6
HEA0804	8.0	20	75	8
IEA0404	4.0	11	100	4
IEA0604	6.0	16	100	6
IEA0804	8.0	20	100	8
IEA1004	10.0	25	100	10
IEA1204	12.0	30	100	12
JEA0604	6.0	16	150	6
JEA0804	8.0	20	150	8
JEA1004	10.0	25	150	10
JEA1204	12.0	30	150	12
JEA1604	16.0	45	150	16
JEA2004	20.0	50	150	20

HEH IEH JEH 4T

MG 0.6 μm 35° 4 Flutes HRc ▸55 G10

超微粒長柄立銑刀
End Mills

Long Shank



型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
HEH0304	3.0	8	75	3
HEH0404	4.0	11	75	4
HEH0504	5.0	13	75	6
HEH0604	6.0	16	75	6
HEH0804	8.0	20	75	8
IEH0404	4.0	11	100	4
IEH0604	6.0	16	100	6
IEH0804	8.0	20	100	8
IEH1004	10.0	25	100	10
IEH1204	12.0	30	100	12
JEH0604	6.0	16	150	6
JEH0804	8.0	20	150	8
JEH1004	10.0	25	150	10
JEH1204	12.0	30	150	12
JEH1604	16.0	45	150	16
JEH2004	20.0	50	150	20

LFTA 2T

MG 0.6 μm 35° 2Flutes HRc ▸55 T2

超微粒長刃立銑刀
End Mills

Long Flute

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
LFTA0202	2.0	12	50	4
LFTA0302	3.0	20	50	4
LFTA0302B	3.0	15	50	6
LFTA0402	4.0	25	75	4
LFTA0402B	4.0	20	75	6
LFTA0502	5.0	30	75	6
LFTA0602	6.0	30	75	6
LFTA0802	8.0	40	100	8
LFTA1002	10.0	40	100	10
LFTA1202	12.0	45	100	12

LFTA 4T

MG 0.6 μm 45° 4Flutes HRc ▸55 T2

超微粒長刃立銑刀
End Mills

Long Flute

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
LFTA0204	2.0	15	50	4
LFTA0304	3.0	20	50	4
LFTA0304B	3.0	15	50	6
LFTA0404	4.0	25	75	4
LFTA0404B	4.0	20	75	6
LFTA0504	5.0	30	75	6
LFTA0604	6.0	30	75	6
LFTA0804	8.0	40	100	8
LFTA1004	10.0	40	100	10
LFTA1004L	10.0	50	100	10
LFTA1204	12.0	45	100	12
LFTA1204L	12.0	50	100	12
LFTA1604	16.0	60	150	16
LFTA1604L	16.0	70	150	16
LFTA2004	20.0	60	150	20
LFTA2004L	20.0	75	150	20

LFTH 2T

MG 0.6 μm 35° 2Flutes HRc ▸55 G10

超微粒長刃立銑刀
End Mills

Long Flute

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
LFTH0202	2.0	12	50	4
LFTH0302	3.0	20	50	4
LFTH0402	4.0	25	75	4
LFTH0502	5.0	30	75	6
LFTH0602	6.0	30	75	6
LFTH0802	8.0	40	100	8
LFTH1002	10.0	40	100	10
LFTH1202	12.0	45	100	12

LFTH 4T

MG 0.6 μm 45° 4Flutes HRc ▸55 G10

超微粒長刃立銑刀
End Mills

Long Flute

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
LFTH0204	2.0	15	50	4
LFTH0304	3.0	20	50	4
LFTH0404	4.0	25	75	4
LFTH0504	5.0	30	75	6
LFTH0604	6.0	30	75	6
LFTH0804	8.0	40	100	8
LFTH1004	10.0	40	100	10
LFTH1204	12.0	45	100	12
LFTH1604	16.0	60	150	16
LFTH2004	20.0	60	150	20

RTG 小尺寸

Super MG 0.4 μm 35° R 2Flutes HRc ▸55 G10

極超微粒圓鼻角立銑刀
End Mills

Corner Radius

型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
RTG0102	1.0	0.2	3	50	4
RTG0152	1.5	0.2	4	50	4
RTG0202	2.0	0.2	6	50	4
RTG0205	2.0	0.5	6	50	4
RTG0252	2.5	0.2	8	50	4
RTG0255	2.5	0.5	8	50	4
RTG0302	3.0	0.2	8	50	4
RTG0303	3.0	0.3	8	50	4
RTG0305	3.0	0.5	8	50	4
RTG0402	4.0	0.2	11	50	4
RTG0403	4.0	0.3	11	50	4
RTG0405	4.0	0.5	11	50	4
RTG0503	5.0	0.3	13	50	6
RTG0505	5.0	0.5	13	50	6

RTG 大尺寸

Super MG 0.4 μm 35° R 2Flutes HRc ▸55 G10

極超微粒圓鼻角立銑刀
End Mills

Corner Radius

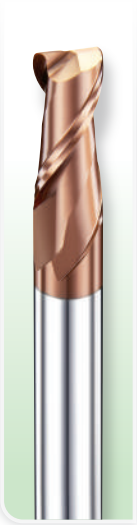
型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
RTG0602	6.0	0.2	16	50	6
RTG0603	6.0	0.3	16	50	6
RTG0605	6.0	0.5	16	50	6
RTG0610	6.0	1.0	16	50	6
RTG0803	8.0	0.3	20	60	8
RTG0805	8.0	0.5	20	60	8
RTG1002	10.0	0.2	25	75	10
RTG1003	10.0	0.3	25	75	10
RTG1005	10.0	0.5	25	75	10
RTG1010	10.0	1.0	25	75	10
RTG1203	12.0	0.3	30	75	12
RTG1205	12.0	0.5	30	75	12
RTG1210	12.0	1.0	30	75	12
RTG1215	12.0	1.5	30	75	12
RTG1220	12.0	2.0	30	75	12

RTA

MG 0.6 μm 35° R 2 Flutes HRc ▸55 G10

超微粒圓鼻角立銑刀 End Mills

Corner Radius



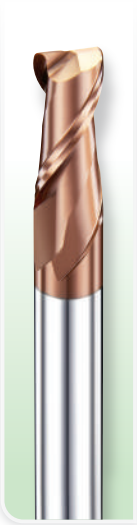
型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
RTA0205	2.0	0.5	6	50	4
RTA0305	3.0	0.5	8	50	3
RTA0405	4.0	0.5	10	50	4
RTA0410	4.0	1.0	10	50	4
RTA0505	5.0	0.5	13	50	6
RTA0510	5.0	1.0	13	50	6
RTA0605	6.0	0.5	16	50	6
RTA0610	6.0	1.0	16	50	6
RTA0805	8.0	0.5	19	60	8
RTA0810	8.0	1.0	19	60	8
RTA1005	10.0	0.5	25	75	10
RTA1010	10.0	1.0	25	75	10
RTA1015	10.0	1.5	25	75	10
RTA1020	10.0	2.0	25	75	10
RTA1210	12.0	1.0	30	75	12
RTA1220	12.0	2.0	30	75	12

LRTA

MG 0.6 μm 35° R 2 Flutes HRc ▸55 G10

超微粒長柄圓鼻角立銑刀 End Mills

Long Shank Corner Radius



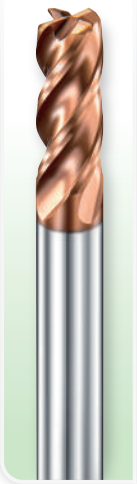
型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
LRTA0405	4.0	0.5	11	75	4
LRTA0410	4.0	1.0	11	75	4
LRTA0602	6.0	0.2	16	75	6
LRTA0603	6.0	0.3	16	75	6
LRTA0605	6.0	0.5	16	75	6
LRTA0610	6.0	1.0	16	75	6
LRTA0803	8.0	0.3	19	100	8
LRTA0805	8.0	0.5	19	100	8
LRTA0810	8.0	1.0	19	100	8
LRTA1002	10.0	0.2	25	100	10
LRTA1003	10.0	0.3	25	100	10
LRTA1005	10.0	0.5	25	100	10
LRTA1010	10.0	1.0	25	100	10
LRTA1020	10.0	2.0	25	100	10
LRTA1205	12.0	0.5	30	100	12
LRTA1210	12.0	1.0	30	100	12
LRTA1220	12.0	2.0	30	100	12

RTD

MG 0.6 μm 35° R 4 Flutes HRc ▸55 G10

超微粒圓鼻角立銑刀 End Mills

Corner Radius



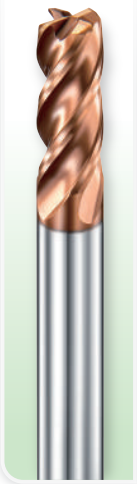
型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
RTD0202	2.0	0.2	6	50	4
RTD0205	2.0	0.5	6	50	4
RTD0305	3.0	0.5	8	50	3
RTD0405	4.0	0.5	10	50	4
RTD0505	5.0	0.5	13	50	6
RTD0510	5.0	1.0	13	50	6
RTD0605	6.0	0.5	16	50	6
RTD0610	6.0	1.0	16	50	6
RTD0805	8.0	0.5	20	60	8
RTD0810	8.0	1.0	20	60	8
RTD1005Z	10.0	0.5	25	75	10
RTD1005	10.0	0.5	30	75	10
RTD1010Z	10.0	1.0	25	75	10
RTD1010	10.0	1.0	30	75	10
RTD1020Z	10.0	2.0	25	75	10
RTD1020	10.0	2.0	30	75	10
RTD1030Z	10.0	3.0	25	75	10
RTD1030	10.0	3.0	30	75	10
RTD1210	12.0	1.0	30	75	12
RTD1220	12.0	2.0	30	75	12
RTD1230	12.0	3.0	30	75	12

LRTD

MG 0.6 μm 35° R 4 Flutes HRc ▸55 G10

超微粒長柄圓鼻角立銑刀 End Mills

Long Shank Corner Radius



型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
LRTD0405	4.0	0.5	11	75	4
LRTD0410	4.0	1.0	11	75	4
LRTD0602	6.0	0.2	16	75	6
LRTD0603	6.0	0.3	16	75	6
LRTD0605	6.0	0.5	16	75	6
LRTD0610	6.0	1.0	16	75	6
LRTD0803	8.0	0.3	19	100	8
LRTD0805	8.0	0.5	19	100	8
LRTD0810	8.0	1.0	19	100	8
LRTD1002	10.0	0.2	25	100	10
LRTD1003	10.0	0.3	25	100	10
LRTD1005	10.0	0.5	25	100	10
LRTD1010	10.0	1.0	25	100	10
LRTD1020	10.0	2.0	25	100	10
LRTD1205	12.0	0.5	30	100	12
LRTD1210	12.0	1.0	30	100	12
LRTD1220	12.0	2.0	30	100	12
LRTD1610	16.0	1.0	45	150	16
LRTD1620	16.0	2.0	45	150	16

RTB

Super MG 0.4 μm 45° R 4 Flutes HRc ▸60 G10

極超微粒圓鼻角立銑刀 End Mills

Corner Radius

型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
RTB0305	3.0	0.5	8	50	3
RTB0405	4.0	0.5	10	50	4
RTB0505	5.0	0.5	13	50	6
RTB0510	5.0	1.0	13	50	6
RTB0605	6.0	0.5	16	50	6
RTB0610	6.0	1.0	16	50	6
RTB0805	8.0	0.5	20	60	8
RTB0810	8.0	1.0	20	60	8
RTB1005Z	10.0	0.5	25	75	10
RTB1005	10.0	0.5	30	75	10
RTB1010Z	10.0	1.0	25	75	10
RTB1010	10.0	1.0	30	75	10
RTB1020Z	10.0	2.0	25	75	10
RTB1020	10.0	2.0	30	75	10
RTB1030Z	10.0	3.0	25	75	10
RTB1030	10.0	3.0	30	75	10
RTB1210	12.0	1.0	30	75	12
RTB1220	12.0	2.0	30	75	12
RTB1230	12.0	3.0	30	75	12

PET

MG 0.6 μm 45° 3 Flutes HRc ▸60 G10

超微粒強力型立銑刀 End Mills

Short Flute

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
PET0303	3.0	3	50	6
PET0403	4.0	4	50	6
PET0503	5.0	5	50	6
PET0603	6.0	6	50	8
PET0803	8.0	8	60	10
PET1003	10.0	10	60	12

HTA

MG | 0.6 μm | 45° | 3 Flutes | HRc ▸60 | T2

超微粒高螺旋立銑刀
End Mills

High Helix

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
HTA0203	2.0	6	50	4
HTA0303	3.0	8	50	4
HTA0403	4.0	11	50	4
HTA0503	5.0	13	50	6
HTA0603	6.0	16	50	6
HTA0803	8.0	20	60	8
HTA1003	10.0	25	75	10
HTA1203	12.0	30	75	12
HTA1603	16.0	40	100	16
HTA2003	20.0	45	100	20

HTD

MG | 0.6 μm | 45° | 3 Flutes | HRc ▸60 | G10

超微粒高螺旋立銑刀
End Mills

High Helix

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
HTD0203	2.0	6	50	4
HTD0303	3.0	8	50	4
HTD0403	4.0	11	50	4
HTD0503	5.0	13	50	6
HTD0603	6.0	16	50	6
HTD0803	8.0	20	60	8
HTD1003	10.0	25	75	10
HTD1203	12.0	30	75	12
HTD1603	16.0	40	100	16
HTD2003	20.0	45	100	20

ITA

Super MG | 0.4 μm | 50° | 3 Flutes | HRc ▸60 | T2

極超微粒高螺旋立銑刀
End Mills

High Helix

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
ITA0303	3.0	8	50	6
ITA0403	4.0	12	50	6
ITA0603	6.0	16	50	6
ITA0803	8.0	20	60	8
ITA1003	10.0	25	75	10
ITA1203	12.0	30	75	12
ITA1603	16.0	45	100	16
ITA2003	20.0	45	100	20

ITH

Super MG | 0.4 μm | 50° | 3 Flutes | HRc ▸60 | G10

極超微粒高螺旋立銑刀
End Mills

High Helix

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
ITH0303	3.0	8	50	6
ITH0403	4.0	12	50	6
ITH0603	6.0	16	50	6
ITH0803	8.0	20	60	8
ITH1003	10.0	25	75	10
ITH1203	12.0	30	75	12
ITH1603	16.0	45	100	16
ITH2003	20.0	45	100	20

VTA

Super MG | 0.4 μm | 45° | 6 Flutes | HRc ▸65 | T2

高硬度用立銑刀
End Mills

High Hardness

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
VTA0606	6.0	16	50	6
VTA0806	8.0	20	60	8
VTA1006	10.0	25	75	10
VTA1206	12.0	30	75	12
VTA1606	16.0	40	100	16

VTB

Super MG | 0.4 μm | 45° | 6 Flutes | HRc ▸60 | G10

難切削材用立銑刀
End Mills

Difficult-to-cut

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
VTB0606	6.0	16	50	6
VTB0806	8.0	20	60	8
VTB1006	10.0	25	75	10
VTB1206	12.0	30	75	12
VTB1606	16.0	40	100	16

WUA 3T

MG 0.6 μm Roughing 25° 3Flutes HRc ▸55 T2

超微粒粗齒中目立銑刀 End Mills

Roughing

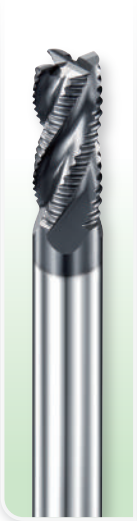
型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
WUA0603	6.0	16	50	6
WUA0803	8.0	20	60	8
WUA1003	10.0	25	75	10
WUA1203	12.0	30	75	12
WUA1403	14.0	35	100	16
WUA1603	16.0	40	100	16
WUA1803	18.0	40	100	20
WUA2003	20.0	45	100	20

WUA 4T

MG 0.6 μm Roughing 30° 4Flutes HRc ▸55 T2

超微粒粗齒中目立銑刀 End Mills

Roughing



型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
WUA0604	6.0	16	50	6
WUA0804	8.0	20	60	8
WUA1004	10.0	25	75	10
WUA1204	12.0	30	75	12
WUA1404	14.0	35	100	16
WUA1604	16.0	40	100	16
WUA1804	18.0	40	100	20
WUA2004	20.0	45	100	20

WWA 3T

MG 0.6 μm Roughing 25° 3Flutes HRc ▸55 T2

超微粒粗齒細目立銑刀 End Mills

Roughing

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
WWA0603	6.0	16	50	6
WWA0803	8.0	20	60	8
WWA1003	10.0	25	75	10
WWA1203	12.0	30	75	12
WWA1403	14.0	35	100	16
WWA1603	16.0	40	100	16
WWA1803	18.0	40	100	20
WWA2003	20.0	45	100	20

WWA 4T

MG 0.6 μm Roughing 30° 4Flutes HRc ▸55 T2

超微粒粗齒細目立銑刀 End Mills

Roughing

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
WWA0604	6.0	16	50	6
WWA0804	8.0	20	60	8
WWA1004	10.0	25	75	10
WWA1204	12.0	30	75	12
WWA1404	14.0	35	100	16
WWA1604	16.0	40	100	16
WWA1804	18.0	40	100	20
WWA2004	20.0	45	100	20

TA

Super MG | 0.4 μm | 35° | 2 Flutes | HRc ▸60 | G10

極超微粒斜度立銑刀
End Mills

Taper

型號 Type No.	D1 先端徑 Small Mill Dia.	L1 刃長 Flute Length	α 斜角 Taper Angle	D3 粗端徑 Large Mill Dia.	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
TA005005	0.5	2	30'	0.53	50	4
TA005010	0.5	2	1°	0.57	50	4
TA005015	0.5	2	1° 30'	0.60	50	4
TA005020	0.5	2	2°	0.64	50	4
TA005025	0.5	2	2° 30'	0.67	50	4
TA005030	0.5	2	3°	0.71	50	4
TA005050	0.5	2	5°	0.85	50	4
TA005070	0.5	2	7°	0.99	50	4
TA005100	0.5	2	10°	1.21	50	4
TA010005	1.0	4	30'	1.07	50	4
TA010010	1.0	4	1°	1.14	50	4
TA010015	1.0	4	1° 30'	1.21	50	4
TA010020	1.0	4	2°	1.28	50	4
TA010025	1.0	4	2° 30'	1.35	50	4
TA010030	1.0	4	3°	1.42	50	4
TA010050	1.0	4	5°	1.70	50	4
TA010070	1.0	4	7°	1.98	50	4
TA010100	1.0	4	10°	2.41	50	4
TA015005	1.5	5	30'	1.59	50	4
TA015010	1.5	5	1°	1.67	50	4
TA015015	1.5	5	1° 30'	1.76	50	4
TA015020	1.5	5	2°	1.85	50	4
TA015025	1.5	5	2° 30'	1.94	50	4
TA015030	1.5	5	3°	2.02	50	4
TA015050	1.5	5	5°	2.37	50	4
TA015070	1.5	5	7°	2.73	50	4
TA015100	1.5	5	10°	3.26	50	4
TA020005	2.0	6	30'	2.10	50	4
TA020010	2.0	6	1°	2.21	50	4
TA020015	2.0	6	1° 30'	2.31	50	4
TA020020	2.0	6	2°	2.42	50	4
TA020025	2.0	6	2° 30'	2.52	50	4
TA020030	2.0	6	3°	2.63	50	4
TA020050	2.0	6	5°	3.05	50	4
TA020070	2.0	6	7°	3.47	50	4
TA020100	2.0	5	10°	3.76	50	4
TA025005	2.5	8	30'	2.64	50	4
TA025010	2.5	8	1°	2.78	50	4
TA025015	2.5	8	1° 30'	2.92	50	4
TA025020	2.5	8	2°	3.06	50	4
TA025025	2.5	8	2° 30'	3.20	50	4
TA025030	2.5	8	3°	3.34	50	4
TA025050	2.5	8	5°	3.90	50	4
TA025070	2.5	8	7°	4.46	50	6
TA025100	2.5	8	10°	5.32	50	6
TA030005	3.0	10	30'	3.17	50	6
TA030010	3.0	10	1°	3.35	50	6
TA030015	3.0	10	1° 30'	3.52	50	6
TA030020	3.0	10	2°	3.70	50	6
TA030025	3.0	10	2° 30'	3.87	50	6
TA030030	3.0	10	3°	4.05	50	6
TA030050	3.0	10	5°	4.75	50	6
TA030070	3.0	10	7°	5.46	50	6
TA030100	3.0	8	10°	5.82	50	6
TA040005	4.0	15	30'	4.26	50	6
TA040010	4.0	15	1°	4.52	50	6
TA040015	4.0	15	1° 30'	4.79	50	6
TA040020	4.0	15	2°	5.05	50	6
TA040025	4.0	15	2° 30'	5.31	50	6
TA040030	4.0	15	3°	5.57	50	6
TA040050	4.0	15	5°	6.62	60	8
TA040070	4.0	15	7°	7.68	60	8
TA050005	5.0	20	30'	5.35	60	6
TA050010	5.0	20	1°	5.70	60	6
TA050015	5.0	18	1° 30'	5.94	60	6
TA050020	5.0	20	2°	6.40	60	8
TA050025	5.0	20	2° 30'	6.75	60	8
TA050030	5.0	20	3°	7.10	60	8
TA050050	5.0	20	5°	8.50	75	10
TA050070	5.0	20	7°	9.91	75	10
TA060005	6.0	20	30'	6.35	60	8
TA060010	6.0	20	1°	6.70	60	8
TA060015	6.0	20	1° 30'	7.05	60	8
TA060020	6.0	20	2°	7.40	60	8
TA060025	6.0	20	2° 30'	7.75	60	8
TA060030	6.0	18	3°	7.89	60	8
TA060050	6.0	20	5°	9.50	75	10
TA080005	8.0	25	30'	8.44	75	10
TA080010	8.0	25	1°	8.87	75	10
TA080015	8.0	25	1° 30'	9.31	75	10
TA080020	8.0	25	2°	9.75	75	10
TA080025	8.0	22	2° 30'	9.92	75	10
TA080030	8.0	25	3°	10.62	75	12
TA080050	8.0	22	5°	11.85	75	12
TA100005	10.0	35	30'	10.61	100	12
TA100010	10.0	35	1°	11.22	100	12
TA100015	10.0	35	1° 30'	11.83	100	12
TA100020	10.0	28	2°	11.96	100	12
TA100025	10.0	35	2° 30'	13.06	100	16
TA100030	10.0	35	3°	13.67	100	16
TA100050	10.0	33	5°	15.77	100	16

即將停產
Item to be discontinued

TTA

Super MG | 0.4 μm | 35° | 2 Flutes | HRc ▸60 | G10

極超微粒長刃斜度立銑刀
End Mills

Long Flute Taper

型號 Type No.	D1 先端徑 Small Mill Dia.	L1 刃長 Flute Length	α 斜角 Taper Angle	D3 粗端徑 Large Mill Dia.	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
TTA01005	1.0	10	30'	1.17	50	4
TTA01010	1.0	10	1°	1.35	50	4
TTA01015	1.0	10	1° 30'	1.52	50	4
TTA01020	1.0	10	2°	1.70	50	4
TTA01025	1.0	10	2° 30'	1.87	50	4
TTA01030	1.0	10	3°	2.05	50	4
TTA01050	1.0	10	5°	2.75	50	4
TTA01070	1.0	10	7°	3.46	50	4
TTA01505	1.5	10	30'	1.67	50	4
TTA01510	1.5	10	1°	1.85	50	4
TTA01515	1.5	10	1° 30'	2.02	50	4
TTA01520	1.5	10	2°	2.20	50	4
TTA01525	1.5	10	2° 30'	2.37	50	4
TTA01530	1.5	10	3°	2.55	50	4
TTA02005	2.0	13	30'	2.23	50	4
TTA02010	2.0	13	1°	2.45	50	4
TTA02015	2.0	13	1° 30'	2.68	50	4
TTA02020	2.0	13	2°	2.91	50	4
TTA02025	2.0	13	2° 30'	3.14	50	4
TTA02030	2.0	13	3°	3.36	50	4
TTA02050	2.0	10	5°	3.75	50	4
TTA02505	2.5	15	30'	2.76	50	4
TTA02510	2.5	15	1°	3.02	50	4
TTA02515	2.5	15	1° 30'	3.29	50	4
TTA02520	2.5	15	2°	3.55	50	4
TTA02525	2.5	15	2° 30'	3.81	50	4
TTA02530	2.5	13	3°	3.86	50	4
TTA02550	2.5	15	5°	5.12	50	6
TTA03005	3.0	20	30'	3.35	60	6
TTA03010	3.0	20	1°	3.70	60	6
TTA03015	3.0	20	1° 30'	4.05	60	6
TTA03020	3.0	20	2°	4.40	60	6
TTA03025	3.0	20	2° 30'	4.75	60	6
TTA03030	3.0	20	3°	5.10	60	6
TTA03050	3.0	16	5°	5.80	60	6
TTA04005	4.0	25	30'	4.44	60	6
TTA04010	4.0	25	1°	4.87	60	6
TTA04015	4.0	25	1° 30'	5.31	60	6
TTA04020	4.0	25	2°	5.75	60	6
TTA04025	4.0	25	2° 30'	6.18	60	8
TTA04030	4.0	25	3°	6.62	60	8
TTA04050	4.0	22	5°	7.85	60	8

即將停產
Item to be discontinued

鈦好切系列
Titanium Easy Cutting Series

刀具推薦表詳見 P.49~52
Selection of Endmill P.49~52

WWB

MG | 0.6 μm | Roughing | 20° | 4 Flutes | HRc ▸55 | G10

抗震粗齒細目銑刀
End Mills

Heavy Duty

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
WWB0604	6.0	16	50	6
WWB0804	8.0	20	60	8
WWB1004	10.0	25	75	10
WWB1204	12.0	30	75	12
WWB1404	14.0	35	100	16
WWB1604	16.0	40	100	16
WWB1804	18.0	40	100	20
WWB2004	20.0	45	100	20

UTW

Super MG | 0.4 μm | 45° | 3 Flutes | HRc ▸50 | G10

鈦神奇立銑刀
End Mills

Heavy Duty

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UTW0603	6.0	16	50	6
UTW0803	8.0	19	60	8
UTW0803L	8.0	25	80	8
UTW1003	10.0	22	75	10
UTW1003L	10.0	30	80	10
UTW1203	12.0	26	75	12
UTW1203L	12.0	35	100	12
UTW1603	16.0	40	100	16
UTW1603L	16.0	50	120	16
UTW2003	20.0	45	100	20
UTW2003L	20.0	55	120	20

UTJ

Super MG | 0.4 μm | 45° | 4 Flutes | HRc ▸55 | G10

鈦厲害立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UTJ0304	3.0	0.2	8	50	6
UTJ0404	4.0	0.3	11	50	6
UTJ0504	5.0	0.3	13	50	6
UTJ0604	6.0	0.4	16	50	6
UTJ0804	8.0	0.5	20	60	8
UTJ1004	10.0	0.6	25	75	10
UTJ1204	12.0	0.6	30	75	12
UTJ1604	16.0	0.8	45	110	16
UTJ2004	20.0	1.0	50	110	20

UTH

Super MG | 0.4 μm | 52° | 4 Flutes | HRc ▸55 | G10

鈦滿意立銑刀
End Mills

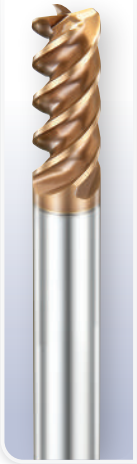
型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UTH0304	3.0	8	50	6
UTH0404	4.0	11	50	6
UTH0504	5.0	13	50	6
UTH0604	6.0	16	50	6
UTH0804	8.0	20	60	8
UTH1004	10.0	25	75	10
UTH1204	12.0	30	75	12
UTH1604	16.0	40	100	16
UTH2004	20.0	45	100	20

UTHR

Super MG | 0.4 μm | 52° | R | 4 Flutes | HRc ▸55 | G10

鈦滿意圓鼻角立銑刀
End Mills

Corner Radius



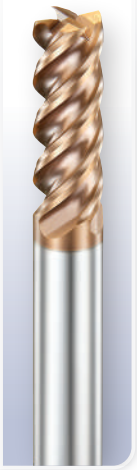
型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UTHR0305	3.0	0.5	8	50	6
UTHR0405	4.0	0.5	10	50	6
UTHR0505	5.0	0.5	13	50	6
UTHR0605	6.0	0.5	16	50	6
UTHR0610	6.0	1.0	16	50	6
UTHR0805	8.0	0.5	20	60	8
UTHR0810	8.0	1.0	20	60	8
UTHR1005	10.0	0.5	25	75	10
UTHR1010	10.0	1.0	25	75	10
UTHR1020	10.0	2.0	25	75	10
UTHR1030	10.0	3.0	25	75	10
UTHR1210	12.0	1.0	30	75	12
UTHR1220	12.0	2.0	30	75	12
UTHR1230	12.0	3.0	30	75	12
UTHR1610	16.0	1.0	40	100	16
UTHR1620	16.0	2.0	40	100	16
UTHR1630	16.0	3.0	40	100	16
UTHR2010	20.0	1.0	45	100	20
UTHR2020	20.0	2.0	45	100	20
UTHR2030	20.0	3.0	45	100	20

UTE

Super MG | 0.4 μm | 45° | 4 Flutes | HRc ▸50 | G10

鈦好用立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UTE0304	3.0	8	50	6
UTE0404	4.0	11	50	6
UTE0504	5.0	13	50	6
UTE0604	6.0	16	50	6
UTE0804	8.0	20	60	8
UTE1004	10.0	25	75	10
UTE1204	12.0	30	75	12
UTE1604	16.0	40	100	16
UTE2004	20.0	45	100	20



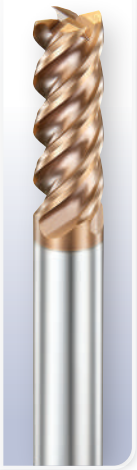
UTER

Super MG | 0.4 μm | 45° | R | 4 Flutes | HRc ▸50 | G10

鈦好用圓鼻角立銑刀
End Mills

Corner Radius

型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UTER0305	3.0	0.5	8	50	3
UTER0405	4.0	0.5	10	50	4
UTER0505	5.0	0.5	13	50	6
UTER0510	5.0	1.0	13	50	6
UTER0605	6.0	0.5	16	50	6
UTER0610	6.0	1.0	16	50	6
UTER0805	8.0	0.5	20	60	8
UTER0810	8.0	1.0	20	60	8
UTER1005	10.0	0.5	25	75	10
UTER1010	10.0	1.0	25	75	10
UTER1020	10.0	2.0	25	75	10
UTER1030	10.0	3.0	25	75	10
UTER1210	12.0	1.0	30	75	12
UTER1220	12.0	2.0	30	75	12
UTER1230	12.0	3.0	30	75	12
UTER1610	16.0	1.0	40	100	16
UTER1620	16.0	2.0	40	100	16
UTER1630	16.0	3.0	40	100	16
UTER2010	20.0	1.0	45	100	20
UTER2020	20.0	2.0	45	100	20
UTER2030	20.0	3.0	45	100	20



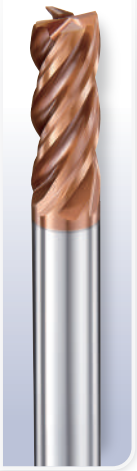
UPE

Super MG | 0.4 μm | 35° | 4 Flutes | HRc ▸60 | G10

高效能立銑刀
End Mills

Heavy Duty

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UPE0304	3.0	8	50	6
UPE0404	4.0	11	50	6
UPE0504	5.0	13	50	6
UPE0604	6.0	16	50	6
UPE0804	8.0	20	60	8
UPE1004	10.0	22	75	10
UPE1204	12.0	26	75	12
UPE1404	14.0	30	80	14
UPE1604	16.0	36	100	16
UPE1804	18.0	40	100	18
UPE2004	20.0	40	100	20
UPE2504	25.0	45	100	25



UPER

Super MG | 0.4 μm | 35° | R | 4 Flutes | HRc ▸60 | G10

高效能圓鼻角立銑刀
End Mills

Heavy Duty

型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UPER0405	4.0	0.5	11	50	6
UPER0502	5.0	0.2	13	50	6
UPER0505	5.0	0.5	13	50	6
UPER0605	6.0	0.5	16	50	6
UPER0610	6.0	1.0	16	50	6
UPER0805	8.0	0.5	20	60	8
UPER0810	8.0	1.0	20	60	8
UPER1005	10.0	0.5	22	75	10
UPER1010	10.0	1.0	22	75	10
UPER1020	10.0	2.0	22	75	10
UPER1210	12.0	1.0	26	75	12
UPER1220	12.0	2.0	26	75	12
UPER1610	16.0	1.0	36	100	16
UPER1620	16.0	2.0	36	100	16
UPER2010	20.0	1.0	40	100	20
UPER2020	20.0	2.0	40	100	20

UPW

Super MG | 0.4 μm | 37° | 5 Flutes | HRc ▸60 | G10

無敵高效能立銑刀
End Mills

Heavy Duty

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UPW0305	3.0	8	50	6
UPW0405	4.0	11	50	6
UPW0505	5.0	13	50	6
UPW0605	6.0	16	50	6
UPW0805	8.0	20	60	8
UPW1005	10.0	22	75	10
UPW1205	12.0	26	75	12
UPW1405	14.0	30	80	14
UPW1605	16.0	36	100	16
UPW1805	18.0	40	100	18
UPW2005	20.0	40	100	20
UPW2505	25.0	45	100	25

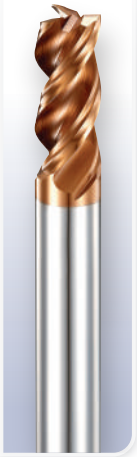
UPA

Super MG | 0.4 μm | 40° | 3 Flutes | HRc ▸55 | G10

無敵高效能立銑刀
End Mills

Heavy Duty

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UPA0203	2.0	6	50	6
UPA0303	3.0	8	50	6
UPA0403	4.0	11	50	6
UPA0503	5.0	13	50	6
UPA0603	6.0	16	50	6
UPA0803	8.0	20	60	8
UPA1003	10.0	25	75	10
UPA1203	12.0	30	75	12
UPA1603	16.0	50	120	16
UPA2003	20.0	60	120	20



不銹鋼切削系列
Stainless Steel Cutting

刀具推薦表詳見 P.49~52
Selection of Endmill P.49~52

UTH

Super MG | 0.4 μm | 52° | 4-Flutes | HRc ▸55 | G10

鈦滿意立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UTH0304	3.0	8	50	6
UTH0404	4.0	11	50	6
UTH0504	5.0	13	50	6
UTH0604	6.0	16	50	6
UTH0804	8.0	20	60	8
UTH1004	10.0	25	75	10
UTH1204	12.0	30	75	12
UTH1604	16.0	40	100	16
UTH2004	20.0	45	100	20

ETB

Super MG | 0.4 μm | 45° | 4-Flutes | HRc ▸60 | T2

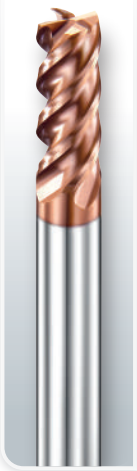
極超微粒立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
ETB0104	1.0	3	50	4
ETB0154	1.5	4	50	4
ETB0204S	2.0	6	50	4
ETB0204	2.0	6	50	6
ETB0254S	2.5	8	50	4
ETB0254	2.5	8	50	6
ETB0304S	3.0	8	50	4
ETB0304	3.0	8	50	6
ETB0354	3.5	10	50	6
ETB0404S	4.0	11	50	4
ETB0404	4.0	11	50	6
ETB0454	4.5	11	50	6
ETB0504	5.0	13	50	6
ETB0604	6.0	16	50	6
ETB0804	8.0	20	60	8
ETB1004Z	10.0	25	75	10
ETB1004	10.0	30	75	10
ETB1204	12.0	30	75	12
ETB1604	16.0	40	100	16
ETB2004	20.0	45	100	20

ETH

Super MG | 0.4 μm | 45° | 4-Flutes | HRc ▸60 | G10

極超微粒立銑刀
End Mills

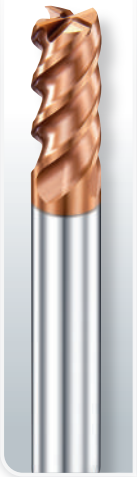


型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
ETH0104	1.0	3	50	4
ETH0154	1.5	4	50	4
ETH0204	2.0	6	50	4
ETH0254	2.5	8	50	4
ETH0304	3.0	8	50	4
ETH0354	3.5	10	50	4
ETH0404	4.0	11	50	4
ETH0454	4.5	11	50	6
ETH0504	5.0	13	50	6
ETH0604	6.0	16	50	6
ETH0804	8.0	20	60	8
ETH1004Z	10.0	25	75	10
ETH1004	10.0	30	75	10
ETH1204	12.0	30	75	12
ETH1604	16.0	40	100	16
ETH2004	20.0	45	100	20

UPS

Super MG | 0.4 μm | 45° | 4-Flutes | HRc ▸60 | G10

無敵高效能立銑刀
End Mills



型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UPS0304	3.0	8	50	6
UPS0304L	3.0	12	60	6
UPS0404	4.0	11	50	6
UPS0404L	4.0	16	60	6
UPS0504	5.0	13	50	6
UPS0604	6.0	16	50	6
UPS0604L	6.0	20	60	6
UPS0804	8.0	20	60	8
UPS0804L	8.0	25	75	8
UPS1004	10.0	22	75	10
UPS1004L	10.0	30	80	10
UPS1204	12.0	26	75	12
UPS1204L	12.0	35	100	12
UPS1604	16.0	36	100	16
UPS1604L	16.0	50	110	16
UPS1804	18.0	40	100	18
UPS2004	20.0	40	100	20
UPS2004L	20.0	50	120	20

UPZ

Super MG | 0.4 μm | 45° | 4-Flutes | HRc ▸60 | G10

抗震高效能立銑刀
End Mills

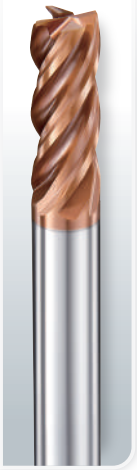
型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UPZ0304	3.0	8	50	6
UPZ0404	4.0	11	50	6
UPZ0504	5.0	13	50	6
UPZ0604	6.0	16	50	6
UPZ0804	8.0	20	60	8
UPZ1004	10.0	22	75	10
UPZ1204	12.0	26	75	12
UPZ1604	16.0	36	100	16
UPZ2004	20.0	40	100	20

UPE

Super MG | 0.4 μm | 35° | 4 Flutes | HRc ▸60 | G10

高效能立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UPE0304	3.0	8	50	6
UPE0404	4.0	11	50	6
UPE0504	5.0	13	50	6
UPE0604	6.0	16	50	6
UPE0804	8.0	20	60	8
UPE1004	10.0	22	75	10
UPE1204	12.0	26	75	12
UPE1404	14.0	30	80	14
UPE1604	16.0	36	100	16
UPE1804	18.0	40	100	18
UPE2004	20.0	40	100	20
UPE2504	25.0	45	100	25



UPER

Super MG | 0.4 μm | 35° | R | 4 Flutes | HRc ▸60 | G10

高效能圓鼻角立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UPER0405	4.0	0.5	11	50	6
UPER0502	5.0	0.2	13	50	6
UPER0505	5.0	0.5	13	50	6
UPER0605	6.0	0.5	16	50	6
UPER0610	6.0	1.0	16	50	6
UPER0805	8.0	0.5	20	60	8
UPER0810	8.0	1.0	20	60	8
UPER1005	10.0	0.5	22	75	10
UPER1010	10.0	1.0	22	75	10
UPER1020	10.0	2.0	22	75	10
UPER1210	12.0	1.0	26	75	12
UPER1220	12.0	2.0	26	75	12
UPER1610	16.0	1.0	36	100	16
UPER1620	16.0	2.0	36	100	16
UPER2010	20.0	1.0	40	100	20
UPER2020	20.0	2.0	40	100	20

UPG

Super MG | 0.4 μm | 35°~38° | 4 Flutes | HRc ▸60 | G10

抗震高效能立銑刀
End Mills

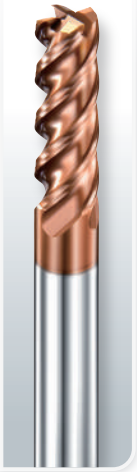
型號 Type No.	D1 直徑 Diameter	C 倒角 Chamfer	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UPG0304	3.0	0.15	8	50	6
UPG0404	4.0	0.15	11	50	6
UPG0504	5.0	0.2	13	50	6
UPG0604	6.0	0.2	16	50	6
UPG0604L	6.0	0.2	20	60	6
UPG0804	8.0	0.25	20	60	8
UPG0804L	8.0	0.25	25	75	8
UPG1004	10.0	0.3	22	75	10
UPG1004L	10.0	0.3	30	80	10
UPG1204	12.0	0.3	26	75	12
UPG1204L	12.0	0.3	35	100	12
UPG1604	16.0	0.4	40	100	16
UPG1604L	16.0	0.4	50	120	16
UPG1804	18.0	0.5	40	100	18
UPG2004	20.0	0.5	40	100	20
UPG2004L	20.0	0.5	50	120	20

RTB

Super MG | 0.4 μm | 45° | R | 4 Flutes | HRc ▸60 | G10

超微粒圓鼻角立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
RTB0305	3.0	0.5	8	50	3
RTB0405	4.0	0.5	10	50	4
RTB0505	5.0	0.5	13	50	6
RTB0510	5.0	1.0	13	50	6
RTB0605	6.0	0.5	16	50	6
RTB0610	6.0	1.0	16	50	6
RTB0805	8.0	0.5	20	60	8
RTB0810	8.0	1.0	20	60	8
RTB1005Z	10.0	0.5	25	75	10
RTB1005	10.0	0.5	30	75	10
RTB1010Z	10.0	1.0	25	75	10
RTB1010	10.0	1.0	30	75	10
RTB1020Z	10.0	2.0	25	75	10
RTB1020	10.0	2.0	30	75	10
RTB1030Z	10.0	3.0	25	75	10
RTB1030	10.0	3.0	30	75	10
RTB1210	12.0	1.0	30	75	12
RTB1220	12.0	2.0	30	75	12
RTB1230	12.0	3.0	30	75	12



UPJ

Super MG | 0.4 μm | 50° | R | 4 Flutes | HRc ▸60 | G10

無敵高剛性立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UPJ0304	3.0	0.2	8	50	6
UPJ0404	4.0	0.3	11	50	6
UPJ0504	5.0	0.3	13	50	6
UPJ0604	6.0	0.4	16	50	6
UPJ0804	8.0	0.5	20	60	8
UPJ1004	10.0	0.6	25	75	10
UPJ1204	12.0	0.6	30	75	12
UPJ1604	16.0	0.8	45	110	16
UPJ2004	20.0	1.0	50	110	20

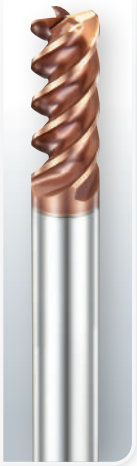
UTHR

Super MG | 0.4 μm | 52° | R | 4 Flutes | HRc ▸55 | G10

鈦滿意圓鼻角立銑刀
End Mills

Heavy Duty

型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
UTHR0305	3.0	0.5	8	50	6
UTHR0405	4.0	0.5	10	50	6
UTHR0405S	4.0	0.5	10	50	4
UTHR0505	5.0	0.5	13	50	6
UTHR0605	6.0	0.5	16	50	6
UTHR0610	6.0	1.0	16	50	6
UTHR0805	8.0	0.5	20	60	8
UTHR0810	8.0	1.0	20	60	8
UTHR1005	10.0	0.5	25	75	10
UTHR1010	10.0	1.0	25	75	10
UTHR1020	10.0	2.0	25	75	10
UTHR1030	10.0	3.0	25	75	10
UTHR1210	12.0	1.0	30	75	12
UTHR1220	12.0	2.0	30	75	12
UTHR1230	12.0	3.0	30	75	12
UTHR1610	16.0	1.0	40	100	16
UTHR1620	16.0	2.0	40	100	16
UTHR1630	16.0	3.0	40	100	16
UTHR2010	20.0	1.0	45	100	20
UTHR2020	20.0	2.0	45	100	20
UTHR2030	20.0	3.0	45	100	20



VTB

Super MG | 0.4 μm | 45° | 6 Flutes | HRc ▸60 | G10

難切削材用立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
VTB0606	6.0	16	50	6
VTB0806	8.0	20	60	8
VTB1006	10.0	25	75	10
VTB1206	12.0	30	75	12
VTB1606	16.0	40	100	16

精準–冲系列
Economy Series

刀具推薦表詳見 P.49~52
Selection of Endmill P.49~52

WWA

MG | 0.6 μm | Roughing | 30° | 4 Flutes | HRc ▸55 | T2

超微粒粗齒細目立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
WWA0604	6.0	16	50	6
WWA0804	8.0	20	60	8
WWA1004	10.0	25	75	10
WWA1204	12.0	30	75	12
WWA1404	14.0	35	100	16
WWA1604	16.0	40	100	16
WWA1804	18.0	40	100	20
WWA2004	20.0	45	100	20

DB 2T

Perfect MG | 0.6 μm | 30° | 2 Flutes | HRc ▸50 | T1

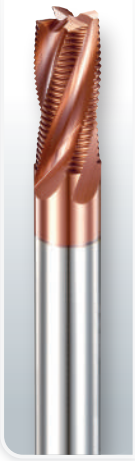
超微粒圓頭立銑刀
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DB0102	R0.5	2	50	4
DB0152	R0.75	3	50	4
DB0202	R1	4	50	4
DB0252	R1.25	5	50	4
DB0302	R1.5	6	50	4
DB0402	R2	8	50	4
DB0502	R2.5	10	50	6
DB0602	R3	12	50	6
DB0802	R4	16	60	8
DB1002	R5	20	75	10
DB1202	R6	24	75	12
DB1602	R8	32	100	16

WWB

MG | 0.6 μm | Roughing | 20° | 4 Flutes | HRc ▸55 | G10

抗震粗齒細目銑刀
End Mills



型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
WWB0604	6.0	16	50	6
WWB0804	8.0	20	60	8
WWB1004	10.0	25	75	10
WWB1204	12.0	30	75	12
WWB1404	14.0	35	100	16
WWB1604	16.0	40	100	16
WWB1804	18.0	40	100	20
WWB2004	20.0	45	100	20

DHB DIB 2T

Perfect MG | 0.6 μm | 30° | 2 Flutes | HRc ▸50 | T1

超微粒長柄圓頭立銑刀
Ball Nose End Mills

Long Shank

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DHB0202	R1	4	75	6
DHB0252	R1.25	5	75	6
DHB0302	R1.5	6	75	6
DHB0402	R2	8	75	6
DHB0502	R2.5	10	75	6
DHB0602	R3	12	75	6
DHB0802	R4	16	75	8
DIB0202	R1	4	100	6
DIB0302	R1.5	6	100	6
DIB0402	R2	8	100	6
DIB0602	R3	12	100	6
DIB0802	R4	16	100	8
DIB1002	R5	20	100	10
DIB1202	R6	24	100	12

DE 2T

Perfect MG | 0.6 μm | 35° | 2 Flutes | HRc ▸50 | T1

超微粒立銑刀 End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DE0102	1.0	3	50	4
DE0152	1.5	4	50	4
DE0202	2.0	6	50	4
DE0252	2.5	8	50	4
DE0302	3.0	8	50	4
DE0402	4.0	11	50	4
DE0502	5.0	13	50	6
DE0602	6.0	16	50	6
DE0802	8.0	20	60	8
DE1002	10.0	25	75	10
DE1202	12.0	30	75	12
DE1602	16.0	40	100	16

DE 4T

Perfect MG | 0.6 μm | 35° | 4 Flutes | HRc ▸50 | T1

超微粒立銑刀 End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DE0104	1.0	3	50	4
DE0154	1.5	4	50	4
DE0204	2.0	6	50	4
DE0254	2.5	8	50	4
DE0304	3.0	8	50	4
DE0404	4.0	11	50	4
DE0504	5.0	13	50	6
DE0604	6.0	16	50	6
DE0804	8.0	20	60	8
DE1004	10.0	25	75	10
DE1204	12.0	30	75	12
DE1604	16.0	40	100	16
DE2004	20.0	45	100	20

DHE DIE DJE 2T

Perfect MG | 0.6 μm | 35° | 2 Flutes | HRc ▸50 | T1

超微粒長柄立銑刀 End Mills — Long Shank

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DHE0302	3.0	8	75	3
DHE0402	4.0	11	75	4
DHE0502	5.0	13	75	6
DHE0602	6.0	16	75	6
DHE0802	8.0	20	75	8
DIE0302	3.0	8	100	3
DIE0402	4.0	11	100	4
DIE0502	5.0	13	100	6
DIE0602	6.0	16	100	6
DIE0802	8.0	20	100	8
DIE1002	10.0	25	100	10
DIE1202	12.0	30	100	12
DJE0602	6.0	16	150	6
DJE0802	8.0	20	150	8
DJE1002	10.0	25	150	10
DJE1202	12.0	30	150	12

DHE DIE DJE 4T

Perfect MG | 0.6 μm | 35° | 4 Flutes | HRc ▸50 | T1

超微粒長柄立銑刀 End Mills — Long Shank

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DHE0304	3.0	8	75	3
DHE0404	4.0	11	75	4
DHE0504	5.0	13	75	6
DHE0604	6.0	16	75	6
DHE0804	8.0	20	75	8
DIE0404	4.0	11	100	4
DIE0604	6.0	16	100	6
DIE0804	8.0	20	100	8
DIE1004	10.0	25	100	10
DIE1204	12.0	30	100	12
DJE0604	6.0	16	150	6
DJE0804	8.0	20	150	8
DJE1004	10.0	25	150	10
DJE1204	12.0	30	150	12
DJE1604	16.0	45	150	16
DJE2004	20.0	50	150	20

DRA

Perfect MG | 0.6 μm | 35° | R | 2 Flutes | HRc ▸50 | T1

超微粒圓鼻角立銑刀 End Mills — Corner Radius

型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DRA0205	2.0	0.5	6	50	4
DRA0305	3.0	0.5	8	50	3
DRA0405	4.0	0.5	10	50	4
DRA0410	4.0	1.0	10	50	4
DRA0505	5.0	0.5	13	50	6
DRA0510	5.0	1.0	13	50	6
DRA0605	6.0	0.5	16	50	6
DRA0610	6.0	1.0	16	50	6
DRA0805	8.0	0.5	19	60	8
DRA0810	8.0	1.0	19	60	8
DRA1005	10.0	0.5	25	75	10
DRA1010	10.0	1.0	25	75	10
DRA1015	10.0	1.5	25	75	10
DRA1020	10.0	2.0	25	75	10
DRA1210	12.0	1.0	30	75	12
DRA1220	12.0	2.0	30	75	12

DLRA

Perfect MG | 0.6 μm | 35° | R | 2 Flutes | HRc ▸50 | T1

超微粒長柄圓鼻角立銑刀 End Mills — Corner Radius

型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DLRA0405	4.0	0.5	11	75	4
DLRA0605	6.0	0.5	16	75	6
DLRA0610	6.0	1.0	16	75	6
DLRA0805	8.0	0.5	19	100	8
DLRA0810	8.0	1.0	19	100	8
DLRA1005	10.0	0.5	25	100	10
DLRA1010	10.0	1.0	25	100	10
DLRA1020	10.0	2.0	25	100	10
DLRA1210	12.0	1.0	30	100	12
DLRA1220	12.0	2.0	30	100	12

DRD

超微粒圓鼻角立銑刀 End Mills

Corner Radius

型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DRD0305	3.0	0.5	8	50	3
DRD0405	4.0	0.5	10	50	4
DRD0505	5.0	0.5	13	50	6
DRD0510	5.0	1.0	13	50	6
DRD0605	6.0	0.5	16	50	6
DRD0610	6.0	1.0	16	50	6
DRD0805	8.0	0.5	20	60	8
DRD0810	8.0	1.0	20	60	8
DRD1010	10.0	1.0	25	75	10
DRD1020	10.0	2.0	25	75	10
DRD1030	10.0	3.0	25	75	10
DRD1210	12.0	1.0	30	75	12
DRD1220	12.0	2.0	30	75	12
DRD1230	12.0	3.0	30	75	12

DLRD

超微粒長柄圓鼻角立銑刀 End Mills

Corner Radius

型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DLRD0605	6.0	0.5	16	75	6
DLRD0610	6.0	1.0	16	75	6
DLRD0805	8.0	0.5	19	100	8
DLRD0810	8.0	1.0	19	100	8
DLRD1005	10.0	0.5	25	100	10
DLRD1010	10.0	1.0	25	100	10
DLRD1020	10.0	2.0	25	100	10
DLRD1210	12.0	1.0	30	100	12
DLRD1220	12.0	2.0	30	100	12
DLRD1610	16.0	1.0	45	150	16
DLRD1620	16.0	2.0	45	150	16

DC 2T

鋁用立銑刀 End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DC0202	2.0	7	50	6
DC0302	3.0	9	50	6
DC0402	4.0	12	50	6
DC0502	5.0	16	60	6
DC0602	6.0	18	60	6
DC0802	8.0	20	60	8
DC1002	10.0	30	75	10
DC1202	12.0	32	75	12
DC1602	16.0	45	100	16
DC2002	20.0	45	100	20

DC 3T

鋁用立銑刀 End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DC0203	2.0	6	50	6
DC0303	3.0	10	50	6
DC0403	4.0	12	50	6
DC0503	5.0	16	60	6
DC0603	6.0	18	60	6
DC0803	8.0	20	60	8
DC1003	10.0	25	75	10
DC1203	12.0	30	75	12
DC1603	16.0	40	100	16

DBC

銅鋁用圓頭立銑刀 Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DBC0102	R0.5	2	50	4
DBC0152	R0.75	3	50	4
DBC0202	R1.0	4	50	4
DBC0302	R1.5	6	50	3
DBC0402	R2.0	8	50	4
DBC0602	R3.0	12	50	6
DBC0802	R4.0	16	60	8
DBC1002	R5.0	20	75	10
DBC1202	R6.0	24	75	12

DB 4T

超微粒圓頭立銑刀 Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DB0104	R0.5	2	50	4
DB0154	R0.75	3	50	4
DB0204	R1	4	50	4
DB0304	R1.5	6	50	4
DB0404	R2	8	50	4
DB0504	R2.5	10	50	6
DB0604	R3	12	50	6
DB0804	R4	16	60	8
DB1004	R5	20	75	10
DB1204	R6	24	75	12
DB1604	R8	32	100	16

DMB

MG | 0.6 μm | 30° | 2 Flutes | HRc ▸60 | T2

微小徑圓頭立銑刀 End Mills

Micro Diameter

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DMB0032	R 0.15	0.6	40	4
DMB0042	R 0.2	0.8	40	4
DMB0052	R 0.25	1.0	40	4
DMB0062	R 0.3	1.2	40	4
DMB0072	R 0.35	1.4	40	4
DMB0082	R 0.4	1.6	40	4
DMB0102	R 0.5	2.0	40	4
DMB0122	R 0.6	2.4	40	4
DMB0142	R 0.7	2.8	40	4
DMB0152	R 0.75	3.0	40	4
DMB0162	R 0.8	3.2	40	4
DMB0182	R 0.9	3.6	40	4
DMB0202	R 1.0	4.0	40	4
DMB0302	R 1.5	6.0	40	4
DMB0402	R 2.0	8.0	40	4

碳鋼切削系列
Carbon Steel Cutting Series

DME

MG | 0.6 μm | 35° | 2 Flutes | HRc ▸60 | T2

微小徑立銑刀 End Mills

Micro Diameter

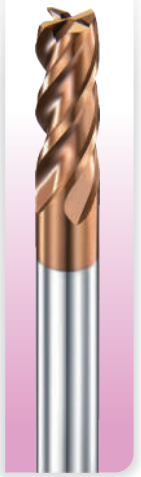
型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DME0022	0.2	0.4	40	4
DME0032	0.3	0.6	40	4
DME0042	0.4	0.8	40	4
DME0052	0.5	1.0	40	4
DME0062	0.6	1.2	40	4
DME0072	0.7	1.4	40	4
DME0082	0.8	1.6	40	4
DME0092	0.9	1.8	40	4
DME0102	1.0	2.5	40	4
DME0122	1.2	3.0	40	4
DME0142	1.4	3.0	40	4
DME0152	1.5	4.0	40	4
DME0162	1.6	4.0	40	4
DME0182	1.8	5.0	40	4
DME0202	2.0	6.0	40	4
DME0252	2.5	8.0	40	4
DME0302	3.0	8.0	40	4

CDE 4 Flutes

MG | 0.6 μm | 35° | 4 Flutes | HRc ▸50 | G7

超微粒立銑刀 End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
CDE0204	2.0	6	50	4
CDE0254	2.5	8	50	4
CDE0304	3.0	8	50	4
CDE0404	4.0	11	50	4
CDE0504	5.0	13	50	6
CDE0604	6.0	16	50	6
CDE0804	8.0	20	60	8
CDE1004	10.0	25	75	10
CDE1204	12.0	30	75	12
CDE1604	16.0	40	100	16

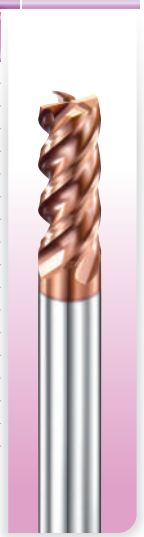


CEB 4 Flutes

MG | 0.6 μm | 45° | 4 Flutes | HRc ▸60 | G7

極超微粒立銑刀 End Mills

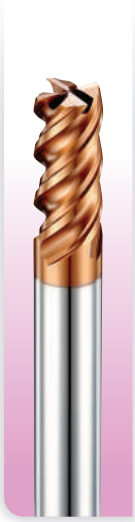
型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
CEB0204S	2.0	6	50	4
CEB0204	2.0	6	50	6
CEB0254S	2.5	8	50	4
CEB0254	2.5	8	50	6
CEB0304S	3.0	8	50	4
CEB0304	3.0	8	50	6
CEB0354	3.5	10	50	6
CEB0404S	4.0	11	50	4
CEB0404	4.0	11	50	6
CEB0454	4.5	11	50	6
CEB0504	5.0	13	50	6
CEB0604	6.0	16	50	6
CEB0804	8.0	20	60	8
CEB1004Z	10.0	25	75	10
CEB1004	10.0	30	75	10
CEB1204	12.0	30	75	12
CEB1604	16.0	40	100	16



EPZ 4 Flutes

MG 0.6 μm 45° 4 Flutes HRc ▸55 G7

抗震高效能立銑刀
End Mills

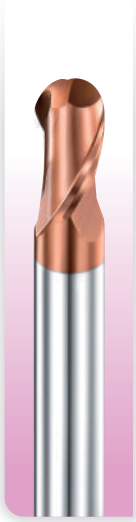


型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
EPZ0304	3.0	6	50	6
EPZ0404	4.0	9	50	6
EPZ0504	5.0	11	50	6
EPZ0604	6.0	13	50	6
EPZ0804	8.0	16	60	8
EPZ1004	10.0	22	75	10
EPZ1204	12.0	26	75	12

CBA 2 Flutes

MG 0.6 μm 30° 2 Flutes HRc ▸55 G7

超微粒圓頭立銑刀
End Mills

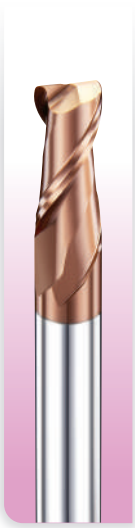


型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
CBA0202	R1.0	4	50	4
CBA0202B	R1.0	4	50	6
CBA0252	R1.25	5	50	4
CBA0252B	R1.25	5	50	6
CBA0302	R1.5	6	50	4
CBA0302B	R1.5	6	50	6
CBA0402	R2.0	8	50	4
CBA0402B	R2.0	8	50	6
CBA0502	R2.5	10	50	6
CBA0602	R3.0	12	50	6
CBA0802	R4.0	16	60	8
CBA1002	R5.0	20	75	10
CBA1202	R6.0	24	75	12
CBA1602	R8.0	32	100	16

CRA 2 Flutes

MG 0.6 μm 35° 2 Flutes HRc ▸50 R G7

超微粒圓鼻角立銑刀
End Mills

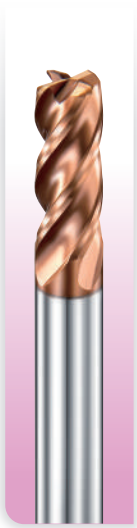


型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
CRA0205	2.0	0.5	6	50	4
CRA0305	3.0	0.5	8	50	3
CRA0405	4.0	0.5	10	50	4
CRA0410	4.0	1.0	10	50	4
CRA0505	5.0	0.5	13	50	6
CRA0510	5.0	1.0	13	50	6
CRA0605	6.0	0.5	16	50	6
CRA0610	6.0	1.0	16	50	6
CRA0805	8.0	0.5	19	60	8
CRA0810	8.0	1.0	19	60	8
CRA1005	10.0	0.5	25	75	10
CRA1010	10.0	1.0	25	75	10
CRA1015	10.0	1.5	25	75	10
CRA1020	10.0	2.0	25	75	10
CRA1210	12.0	1.0	30	75	12
CRA1220	12.0	2.0	30	75	12

CRD 4 Flutes

MG 0.6 μm 35° 4 Flutes HRc ▸50 R G7

超微粒圓鼻角立銑刀
End Mills



型號 Type No.	D1 直徑 Diameter	R R角 Corner R	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
CRD0305	3.0	0.5	8	50	3
CRD0405	4.0	0.5	10	50	4
CRD0505	5.0	0.5	13	50	6
CRD0510	5.0	1.0	13	50	6
CRD0605	6.0	0.5	16	50	6
CRD0610	6.0	1.0	16	50	6
CRD0805	8.0	0.5	20	60	8
CRD0810	8.0	1.0	20	60	8
CRD1010	10.0	1.0	25	75	10
CRD1020	10.0	2.0	25	75	10
CRD1030	10.0	3.0	25	75	10
CRD1210	12.0	1.0	30	75	12
CRD1220	12.0	2.0	30	75	12
CRD1230	12.0	3.0	30	75	12

LFTC

MG 0.6 μm 45° 4 Flutes HRc ▸55 G7

超微粒長刃立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
LFTC0604	6.0	30	75	6
LFTC0804	8.0	40	100	8
LFTC1004L	10.0	50	100	10
LFTC1204L	12.0	50	100	12

石墨加工系列
Graphite Cutting Series

GE

MG 0.6 μm 30° 4 Flutes Diamond

石墨用立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
GE0304	3.0	12	50	3
GE0404	4.0	15	50	4
GE0604	6.0	20	60	6
GE0804	8.0	22	60	8
GE1004	10.0	25	75	10
GE0304M	3.0	12	75	3
GE0404M	4.0	15	75	4
GE0604M	6.0	30	80	6
GE0804M	8.0	32	100	8
GE1004M	10.0	40	100	10

GNE

MG 0.6 μm 30° 2 Flutes Diamond

石墨用深溝立銑刀
End Mills

Long Neck

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
GNE0504	0.5	0.46	1.5	4	50	4
GNE0506	0.5	0.46	1.5	6	50	4
GNE0604	0.6	0.55	2.0	4	50	4
GNE0606	0.6	0.55	2.0	6	50	4
GNE0806	0.8	0.75	2.0	6	50	4
GNE0808	0.8	0.75	2.0	8	50	4
GNE1006	1.0	0.95	2.5	6	50	4
GNE1010	1.0	0.95	2.5	10	50	4
GNE1016	1.0	0.95	2.5	16	50	4
GNE1508	1.5	1.44	3.0	8	50	4
GNE1512	1.5	1.44	3.0	12	50	4
GNE1516	1.5	1.44	3.0	16	50	4
GNE2010	2.0	1.92	3.0	10	50	4
GNE2016	2.0	1.92	3.0	16	50	4
GNE3015	3.0	2.90	4.5	15	50	6
GNE3030	3.0	2.90	4.5	30	75	6
GNE4035	4.0	3.90	6.0	35	75	6
GNE6050	6.0	5.80	9.0	50	100	6

GB

MG 0.6 μm 30° 4 Flutes Diamond

石墨用圓頭立銑刀
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
GB0304	R1.5	12	50	3
GB0404	R2.0	15	50	4
GB0604	R3.0	20	60	6
GB0804	R4.0	22	60	8
GB1004	R5.0	25	75	10
GB0304M	R1.5	12	75	3
GB0404M	R2.0	15	75	4
GB0604M	R3.0	30	80	6
GB0604L	R3.0	30	100	6
GB0804M	R4.0	32	100	8
GB1004M	R5.0	40	100	10

GNB

MG 0.6 μm 30° 2 Flutes Diamond

石墨用深溝圓頭立銑刀
Ball Nose End Mills

Long Neck

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
GNB0504	R0.25	0.46	1.5	4	50	4
GNB0506	R0.25	0.46	1.5	6	50	4
GNB0604	R0.3	0.55	2.0	4	50	4
GNB0606	R0.3	0.55	2.0	6	50	4
GNB0806	R0.4	0.75	2.0	6	50	4
GNB0808	R0.4	0.75	2.0	8	50	4
GNB1006	R0.5	0.95	2.5	6	50	4
GNB1010	R0.5	0.95	2.5	10	50	4
GNB1016	R0.5	0.95	2.5	16	50	4
GNB1508	R0.75	1.44	3.0	8	50	4
GNB1512	R0.75	1.44	3.0	12	50	4
GNB1516	R0.75	1.44	3.0	16	50	4
GNB1520	R0.75	1.44	3.0	20	50	4
GNB2010	R1.0	1.92	3.0	10	50	4
GNB2016	R1.0	1.92	3.0	16	50	4
GNB2020	R1.0	1.92	3.0	20	50	4
GNB3015	R1.5	2.90	4.5	15	60	4
GNB3030	R1.5	2.90	4.5	30	75	4
GNB4025	R2.0	3.90	6.0	25	60	6
GNB4035	R2.0	3.90	6.0	35	75	6
GNB6050	R3.0	5.80	20.0	50	100	6

GNER

石墨用深溝圓鼻立銑刀
End Mills

Long Neck

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	R R角 Corner R	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
GNER100602	1.0	0.95	0.2	1.5	6	50	4
GNER100802	1.0	0.95	0.2	1.5	8	50	4
GNER101002	1.0	0.95	0.2	1.5	10	50	4
GNER101202	1.0	0.95	0.2	1.5	12	50	4
GNER150802	1.5	1.44	0.2	2	8	50	4
GNER151002	1.5	1.44	0.2	2	10	50	4
GNER151202	1.5	1.44	0.2	2	12	50	4
GNER151602	1.5	1.44	0.2	2	16	50	4
GNER200802	2.0	1.92	0.2	3	8	50	4
GNER201002	2.0	1.92	0.2	3	10	50	4
GNER201202	2.0	1.92	0.2	3	12	50	4
GNER201602	2.0	1.92	0.2	3	16	50	4
GNER202002	2.0	1.92	0.2	3	20	50	4
GNER251002	2.5	2.40	0.2	3	10	50	4
GNER251202	2.5	2.40	0.2	3	12	50	4
GNER251602	2.5	2.40	0.2	3	16	50	4
GNER252002	2.5	2.40	0.2	3	20	50	4
GNER301002	3.0	2.90	0.2	4	10	50	6
GNER301202	3.0	2.90	0.2	4	12	50	6
GNER301602	3.0	2.90	0.2	4	16	50	6
GNER302002	3.0	2.90	0.2	4	20	60	6
GNER302502	3.0	2.90	0.2	4	25	60	6
GNER303002	3.0	2.90	0.2	4	30	75	6

GPR

石墨用圓鼻角立銑刀
End Mills

型號 Type No.	D1 直徑 Diameter	D3 頸徑 Neck Dia.	R R角 Corner R	L1 刃長 Flute Length	L2 有效長 Effective Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
GPR0305	3.0	2.90	0.5	3	12	50	4
GPR0405	4.0	3.90	0.5	4	12	50	4
GPR0605	6.0	5.80	0.5	6	15	50	6
GPR0605ML	6.0	5.80	0.5	6	15	100	6
GPR0610	6.0	5.80	1.0	6	15	50	6
GPR0610ML	6.0	5.80	1.0	6	15	100	6
GPR0805	8.0	7.70	0.5	8	20	60	8
GPR0805ML	8.0	7.70	0.5	8	20	100	8
GPR0810	8.0	7.70	1.0	8	20	60	8
GPR0810ML	8.0	7.70	1.0	8	20	100	8
GPR1010	10.0	9.60	1.0	10	25	75	10
GPR1010ML	10.0	9.60	1.0	10	25	100	10
GPR1020	10.0	9.60	2.0	10	25	75	10
GPR1020ML	10.0	9.60	2.0	10	25	100	10
GPR1210	12.0	11.5	1.0	12	30	75	12
GPR1220	12.0	11.5	2.0	12	30	75	12

X-GB2T

石墨用超微粒圓頭立銑刀頭
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-GB0802	R4.0	8	7.8	12.1	M 5-3P	K08
X-GB1002	R5.0	10	9.8	16.1	M 7-3P	K10
X-GB1202	R6.0	12	11.7	20.3	M 8-3P	K12
X-GB1602	R8.0	16	15.6	25.7	M10-3P	K16

X-GB4T

石墨用超微粒圓頭立銑刀頭
Ball Nose End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-GB0804	R4.0	8	7.8	12.1	M 5-3P	K08
X-GB1004	R5.0	10	9.8	16.1	M 7-3P	K10
X-GB1204	R6.0	12	11.7	20.3	M 8-3P	K12
X-GB1604	R8.0	16	15.6	25.7	M10-3P	K16

X-GE

石墨用超微粒立銑刀頭
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-GE0804	8.0	8	7.8	12.1	M 5-3P	K08
X-GE1004	10.0	10	9.8	16.1	M 7-3P	K10
X-GE1204	12.0	12	11.7	20.3	M 8-3P	K12
X-GE1604	16.0	16	15.6	25.7	M10-3P	K16

X-GPR

石墨用圓鼻角立銑刀頭
End Mills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	D2 頸徑 Neck Dia.	R R角 Corner R	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-GPR0805	8.0	8	7.8	0.5	12.1	M 5-3P	K08
X-GPR0810	8.0	8	7.8	1.0	12.1	M 5-3P	K08
X-GPR1005	10.0	10	9.8	0.5	16.1	M 7-3P	K10
X-GPR1010	10.0	10	9.8	1.0	16.1	M 7-3P	K10
X-GPR1210	12.0	12	11.7	1.0	20.3	M 8-3P	K12
X-GPR1220	12.0	12	11.7	2.0	20.3	M 8-3P	K12
X-GPR1610	16.0	16	15.6	1.0	25.7	M10-3P	K16
X-GPR1620	16.0	16	15.6	2.0	25.7	M10-3P	K16
X-GPR1630	16.0	16	15.6	3.0	25.7	M10-3P	K16

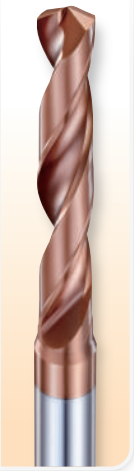
鎢鋼鑽頭系列
Carbide Drill Series

DAK

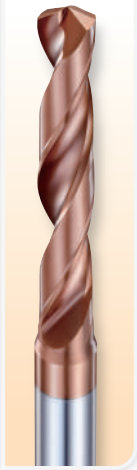
MG | 0.6 μm | 3D | 30° | 2 Flutes | 140° | HRc >52 | G10 | P POLISH | XR XR type

鎢鋼鑽頭
Carbide Drills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DAK030	3.0	20	62	6
DAK031	3.1	20	62	6
DAK032	3.2	20	62	6
DAK033	3.3	20	62	6
DAK034	3.4	20	62	6
DAK035	3.5	20	62	6
DAK036	3.6	20	62	6
DAK037	3.7	20	62	6
DAK038	3.8	24	66	6
DAK039	3.9	24	66	6
DAK040	4.0	24	66	6
DAK041	4.1	24	66	6
DAK042	4.2	24	66	6
DAK043	4.3	24	66	6
DAK044	4.4	24	66	6
DAK045	4.5	24	66	6
DAK046	4.6	24	66	6
DAK047	4.7	24	66	6
DAK048	4.8	28	66	6
DAK049	4.9	28	66	6
DAK050	5.0	28	66	6
DAK051	5.1	28	66	6
DAK052	5.2	28	66	6
DAK053	5.3	28	66	6
DAK054	5.4	28	66	6
DAK055	5.5	28	66	6
DAK056	5.6	28	66	6
DAK057	5.7	28	66	6
DAK058	5.8	28	66	6
DAK059	5.9	28	66	6
DAK060	6.0	28	66	6
DAK061	6.1	34	79	8
DAK062	6.2	34	79	8
DAK063	6.3	34	79	8
DAK064	6.4	34	79	8
DAK065	6.5	34	79	8
DAK066	6.6	34	79	8
DAK067	6.7	34	79	8
DAK068	6.8	34	79	8
DAK069	6.9	34	79	8
DAK070	7.0	34	79	8
DAK071	7.1	41	79	8
DAK072	7.2	41	79	8
DAK073	7.3	41	79	8
DAK074	7.4	41	79	8
DAK075	7.5	41	79	8
DAK076	7.6	41	79	8



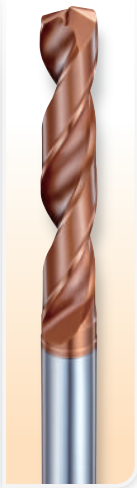
型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DAK077	7.7	41	79	8
DAK078	7.8	41	79	8
DAK079	7.9	41	79	8
DAK080	8.0	41	79	8
DAK081	8.1	47	89	10
DAK082	8.2	47	89	10
DAK083	8.3	47	89	10
DAK084	8.4	47	89	10
DAK085	8.5	47	89	10
DAK086	8.6	47	89	10
DAK087	8.7	47	89	10
DAK088	8.8	47	89	10
DAK089	8.9	47	89	10
DAK090	9.0	47	89	10
DAK091	9.1	47	89	10
DAK092	9.2	47	89	10
DAK093	9.3	47	89	10
DAK094	9.4	47	89	10
DAK095	9.5	47	89	10
DAK096	9.6	47	89	10
DAK097	9.7	47	89	10
DAK098	9.8	47	89	10
DAK099	9.9	47	89	10
DAK100	10.0	47	89	10
DAK101	10.1	55	102	12
DAK102	10.2	55	102	12
DAK103	10.3	55	102	12
DAK104	10.4	55	102	12
DAK105	10.5	55	102	12
DAK106	10.6	55	102	12
DAK107	10.7	55	102	12
DAK108	10.8	55	102	12
DAK109	10.9	55	102	12
DAK110	11.0	55	102	12
DAK111	11.1	55	102	12
DAK112	11.2	55	102	12
DAK113	11.3	55	102	12
DAK114	11.4	55	102	12
DAK115	11.5	55	102	12
DAK116	11.6	55	102	12
DAK117	11.7	55	102	12
DAK118	11.8	55	102	12
DAK119	11.9	55	102	12
DAK120	12.0	55	102	12
DAK123	12.3	60	107	14
DAK125	12.5	60	107	14
DAK128	12.8	60	107	14
DAK130	13.0	60	107	14
DAK135	13.5	60	107	14
DAK138	13.8	60	107	14
DAK140	14.0	60	107	14
DAK145	14.5	65	115	16
DAK148	14.8	65	115	16
DAK150	15.0	65	115	16
DAK155	15.5	65	115	16
DAK158	15.8	65	115	16
DAK160	16.0	65	115	16
DAK165	16.5	73	123	18
DAK168	16.8	73	123	18
DAK170	17.0	73	123	18
DAK175	17.5	73	123	18
DAK178	17.8	73	123	18
DAK180	18.0	73	123	18
DAK185	18.5	79	131	20
DAK190	19.0	79	131	20
DAK195	19.5	79	131	20
DAK198	19.8	79	131	20
DAK200	20.0	79	131	20



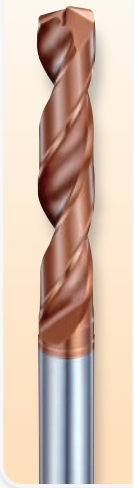
DBK

MG 0.6 μm 5D 30° 2 Flutes 140° HRc ▸52 G10 P POLISH XR XR type

鎢鋼鑽頭 Carbide Drills



型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DBK030	3.0	28	66	6
DBK031	3.1	28	66	6
DBK032	3.2	28	66	6
DBK033	3.3	28	66	6
DBK034	3.4	28	66	6
DBK035	3.5	28	66	6
DBK036	3.6	28	66	6
DBK037	3.7	28	66	6
DBK038	3.8	36	74	6
DBK039	3.9	36	74	6
DBK040	4.0	36	74	6
DBK041	4.1	36	74	6
DBK042	4.2	36	74	6
DBK043	4.3	36	74	6
DBK044	4.4	36	74	6
DBK045	4.5	36	74	6
DBK046	4.6	36	74	6
DBK047	4.7	36	74	6
DBK048	4.8	44	82	6
DBK049	4.9	44	82	6
DBK050	5.0	44	82	6
DBK051	5.1	44	82	6
DBK052	5.2	44	82	6
DBK053	5.3	44	82	6
DBK054	5.4	44	82	6
DBK055	5.5	44	82	6
DBK056	5.6	44	82	6
DBK057	5.7	44	82	6
DBK058	5.8	44	82	6
DBK059	5.9	44	82	6
DBK060	6.0	44	82	6
DBK061	6.1	53	91	8
DBK062	6.2	53	91	8
DBK063	6.3	53	91	8
DBK064	6.4	53	91	8
DBK065	6.5	53	91	8
DBK066	6.6	53	91	8
DBK067	6.7	53	91	8
DBK068	6.8	53	91	8
DBK069	6.9	53	91	8
DBK070	7.0	53	91	8
DBK071	7.1	53	91	8
DBK072	7.2	53	91	8
DBK073	7.3	53	91	8
DBK074	7.4	53	91	8
DBK075	7.5	53	91	8
DBK076	7.6	53	91	8
DBK077	7.7	53	91	8
DBK078	7.8	53	91	8
DBK079	7.9	53	91	8
DBK080	8.0	53	91	8
DBK081	8.1	61	103	10
DBK082	8.2	61	103	10
DBK083	8.3	61	103	10
DBK084	8.4	61	103	10
DBK085	8.5	61	103	10
DBK086	8.6	61	103	10
DBK087	8.7	61	103	10
DBK088	8.8	61	103	10
DBK089	8.9	61	103	10
DBK090	9.0	61	103	10
DBK091	9.1	61	103	10
DBK092	9.2	61	103	10
DBK093	9.3	61	103	10
DBK094	9.4	61	103	10
DBK095	9.5	61	103	10
DBK096	9.6	61	103	10
DBK097	9.7	61	103	10
DBK098	9.8	61	103	10
DBK099	9.9	61	103	10
DBK100	10.0	61	103	10
DBK101	10.1	71	118	12
DBK102	10.2	71	118	12
DBK103	10.3	71	118	12
DBK104	10.4	71	118	12
DBK105	10.5	71	118	12
DBK106	10.6	71	118	12
DBK107	10.7	71	118	12
DBK108	10.8	71	118	12
DBK109	10.9	71	118	12
DBK110	11.0	71	118	12
DBK111	11.1	71	118	12
DBK112	11.2	71	118	12
DBK113	11.3	71	118	12
DBK114	11.4	71	118	12
DBK115	11.5	71	118	12
DBK116	11.6	71	118	12



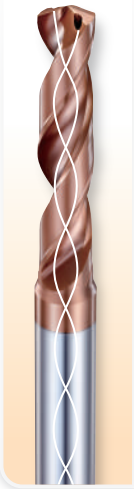
型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DBK117	11.7	71	118	12
DBK118	11.8	71	118	12
DBK119	11.9	71	118	12
DBK120	12.0	71	118	12
DBK123	12.3	77	124	14
DBK125	12.5	77	124	14
DBK128	12.8	77	124	14
DBK130	13.0	77	124	14
DBK135	13.5	77	124	14
DBK138	13.8	77	124	14
DBK140	14.0	77	124	14
DBK145	14.5	83	133	16
DBK148	14.8	83	133	16
DBK150	15.0	83	133	16
DBK155	15.5	83	133	16
DBK158	15.8	83	133	16
DBK160	16.0	83	133	16
DBK165	16.5	93	143	18
DBK168	16.8	93	143	18
DBK170	17.0	93	143	18
DBK175	17.5	93	143	18
DBK178	17.8	93	143	18
DBK180	18.0	93	143	18
DBK185	18.5	101	153	20
DBK190	19.0	101	153	20
DBK195	19.5	101	153	20
DBK198	19.8	101	153	20
DBK200	20.0	101	153	20

DAO

MG 0.6 μm 3D 30° 2 Flutes 140° HRc ▸52 G10 P POLISH XR XR type

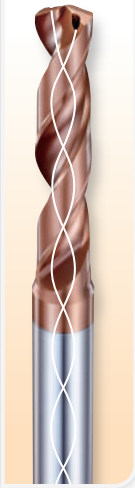
鎢鋼鑽頭（內冷孔） Carbide Drills

Internal Coolant Hole



型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DAO030	3.0	20	62	6
DAO031	3.1	20	62	6
DAO032	3.2	20	62	6
DAO033	3.3	20	62	6
DAO034	3.4	20	62	6
DAO035	3.5	20	62	6
DAO036	3.6	20	62	6
DAO037	3.7	20	62	6
DAO038	3.8	24	66	6
DAO039	3.9	24	66	6
DAO040	4.0	24	66	6
DAO041	4.1	24	66	6
DAO042	4.2	24	66	6
DAO043	4.3	24	66	6
DAO044	4.4	24	66	6
DAO045	4.5	24	66	6
DAO046	4.6	24	66	6
DAO047	4.7	24	66	6
DAO048	4.8	28	66	6
DAO049	4.9	28	66	6
DAO050	5.0	28	66	6
DAO051	5.1	28	66	6
DAO052	5.2	28	66	6
DAO053	5.3	28	66	6
DAO054	5.4	28	66	6
DAO055	5.5	28	66	6
DAO056	5.6	28	66	6
DAO057	5.7	28	66	6
DAO058	5.8	28	66	6
DAO059	5.9	28	66	6
DAO060	6.0	28	66	6
DAO061	6.1	34	79	8
DAO062	6.2	34	79	8
DAO063	6.3	34	79	8
DAO064	6.4	34	79	8
DAO065	6.5	34	79	8
DAO066	6.6	34	79	8
DAO067	6.7	34	79	8
DAO068	6.8	34	79	8
DAO069	6.9	34	79	8
DAO070	7.0	34	79	8
DAO071	7.1	41	79	8
DAO072	7.2	41	79	8
DAO073	7.3	41	79	8
DAO074	7.4	41	79	8
DAO075	7.5	41	79	8
DAO076	7.6	41	79	8
DAO077	7.7	41	79	8
DAO078	7.8	41	79	8
DAO079	7.9	41	79	8
DAO080	8.0	41	79	8

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DAO081	8.1	47	89	10
DAO082	8.2	47	89	10
DAO083	8.3	47	89	10
DAO084	8.4	47	89	10
DAO085	8.5	47	89	10
DAO086	8.6	47	89	10
DAO087	8.7	47	89	10
DAO088	8.8	47	89	10
DAO089	8.9	47	89	10
DAO090	9.0	47	89	10
DAO091	9.1	47	89	10
DAO092	9.2	47	89	10
DAO093	9.3	47	89	10
DAO094	9.4	47	89	10
DAO095	9.5	47	89	10
DAO096	9.6	47	89	10
DAO097	9.7	47	89	10
DAO098	9.8	47	89	10
DAO099	9.9	47	89	10
DAO100	10.0	47	89	10
DAO101	10.1	55	102	12
DAO102	10.2	55	102	12
DAO103	10.3	55	102	12
DAO104	10.4	55	102	12
DAO105	10.5	55	102	12
DAO106	10.6	55	102	12
DAO107	10.7	55	102	12
DAO108	10.8	55	102	12
DAO109	10.9	55	102	12
DAO110	11.0	55	102	12
DAO111	11.1	55	102	12
DAO112	11.2	55	102	12
DAO113	11.3	55	102	12
DAO114	11.4	55	102	12
DAO115	11.5	55	102	12
DAO116	11.6	55	102	12
DAO117	11.7	55	102	12
DAO118	11.8	55	102	12
DAO119	11.9	55	102	12
DAO120	12.0	55	102	12
DAO125	12.5	60	107	14
DAO130	13.0	60	107	14
DAO135	13.5	60	107	14
DAO140	14.0	60	107	14
DAO145	14.5	65	115	16
DAO150	15.0	65	115	16
DAO155	15.5	65	115	16
DAO160	16.0	65	115	16
DAO165	16.5	73	123	18
DAO170	17.0	73	123	18
DAO175	17.5	73	123	18
DAO180	18.0	73	123	18
DAO185	18.5	79	131	20
DAO190	19.0	79	131	20
DAO195	19.5	79	131	20
DAO200	20.0	79	131	20



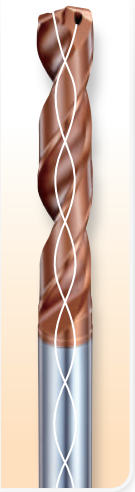
DBO

MG | 0.6 µm | 5D | 30° | 2 Flutes | 140° | HRc ▸52 | G10 | P POLISH | XR XRtype

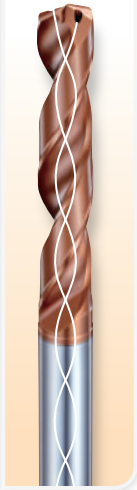
鎢鋼鑽頭（內冷孔） Carbide Drills

Internal Coolant Hole

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DBO030	3.0	28	66	6
DBO031	3.1	28	66	6
DBO032	3.2	28	66	6
DBO033	3.3	28	66	6
DBO034	3.4	28	66	6
DBO035	3.5	28	66	6
DBO036	3.6	28	66	6
DBO037	3.7	28	66	6
DBO038	3.8	36	74	6
DBO039	3.9	36	74	6
DBO040	4.0	36	74	6
DBO041	4.1	36	74	6
DBO042	4.2	36	74	6
DBO043	4.3	36	74	6
DBO044	4.4	36	74	6
DBO045	4.5	36	74	6
DBO046	4.6	36	74	6
DBO047	4.7	36	74	6
DBO048	4.8	44	82	6
DBO049	4.9	44	82	6
DBO050	5.0	44	82	6



型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DBO051	5.1	44	82	6
DBO052	5.2	44	82	6
DBO053	5.3	44	82	6
DBO054	5.4	44	82	6
DBO055	5.5	44	82	6
DBO056	5.6	44	82	6
DBO057	5.7	44	82	6
DBO058	5.8	44	82	6
DBO059	5.9	44	82	6
DBO060	6.0	44	82	6
DBO061	6.1	53	91	8
DBO062	6.2	53	91	8
DBO063	6.3	53	91	8
DBO064	6.4	53	91	8
DBO065	6.5	53	91	8
DBO066	6.6	53	91	8
DBO067	6.7	53	91	8
DBO068	6.8	53	91	8
DBO069	6.9	53	91	8
DBO070	7.0	53	91	8
DBO071	7.1	53	91	8
DBO072	7.2	53	91	8
DBO073	7.3	53	91	8
DBO074	7.4	53	91	8
DBO075	7.5	53	91	8
DBO076	7.6	53	91	8
DBO077	7.7	53	91	8
DBO078	7.8	53	91	8
DBO079	7.9	53	91	8
DBO080	8.0	53	91	8
DBO081	8.1	61	103	10
DBO082	8.2	61	103	10
DBO083	8.3	61	103	10
DBO084	8.4	61	103	10
DBO085	8.5	61	103	10
DBO086	8.6	61	103	10
DBO087	8.7	61	103	10
DBO088	8.8	61	103	10
DBO089	8.9	61	103	10
DBO090	9.0	61	103	10
DBO091	9.1	61	103	10
DBO092	9.2	61	103	10
DBO093	9.3	61	103	10
DBO094	9.4	61	103	10
DBO095	9.5	61	103	10
DBO096	9.6	61	103	10
DBO097	9.7	61	103	10
DBO098	9.8	61	103	10
DBO099	9.9	61	103	10
DBO100	10.0	61	103	10
DBO101	10.1	71	118	12
DBO102	10.2	71	118	12
DBO103	10.3	71	118	12
DBO104	10.4	71	118	12
DBO105	10.5	71	118	12
DBO106	10.6	71	118	12
DBO107	10.7	71	118	12
DBO108	10.8	71	118	12
DBO109	10.9	71	118	12
DBO110	11.0	71	118	12
DBO111	11.1	71	118	12
DBO112	11.2	71	118	12
DBO113	11.3	71	118	12
DBO114	11.4	71	118	12
DBO115	11.5	71	118	12
DBO116	11.6	71	118	12
DBO117	11.7	71	118	12
DBO118	11.8	71	118	12
DBO119	11.9	71	118	12
DBO120	12.0	71	118	12
DBO125	12.5	77	124	14
DBO130	13.0	77	124	14
DBO135	13.5	77	124	14
DBO140	14.0	77	124	14
DBO145	14.5	83	133	16
DBO150	15.0	83	133	16
DBO155	15.5	83	133	16
DBO160	16.0	83	133	16
DBO165	16.5	93	143	18
DBO170	17.0	93	143	18
DBO175	17.5	93	143	18
DBO180	18.0	93	143	18
DBO185	18.5	101	153	20
DBO190	19.0	101	153	20
DBO195	19.5	101	153	20
DBO200	20.0	101	153	20



DCO

MG 0.6 μm 8D 30° 2Flutes 140° HRc ▸52 G10 P POLISH XR XR type

鎢鋼鑽頭（內冷孔）
Carbide Drills

Internal Coolant Hole

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DCO040	4.0	43	81	6
DCO041	4.1	43	81	6
DCO042	4.2	43	81	6
DCO043	4.3	43	81	6
DCO044	4.4	43	81	6
DCO045	4.5	43	81	6
DCO046	4.6	43	81	6
DCO047	4.7	43	81	6
DCO048	4.8	57	95	6
DCO049	4.9	57	95	6
DCO050	5.0	57	95	6
DCO051	5.1	57	95	6
DCO052	5.2	57	95	6
DCO053	5.3	57	95	6
DCO054	5.4	57	95	6
DCO055	5.5	57	95	6
DCO056	5.6	57	95	6
DCO057	5.7	57	95	6
DCO058	5.8	57	95	6
DCO059	5.9	57	95	6
DCO060	6.0	57	95	6
DCO061	6.1	76	114	8
DCO062	6.2	76	114	8
DCO063	6.3	76	114	8
DCO064	6.4	76	114	8
DCO065	6.5	76	114	8
DCO066	6.6	76	114	8
DCO067	6.7	76	114	8
DCO068	6.8	76	114	8
DCO069	6.9	76	114	8
DCO070	7.0	76	114	8
DCO071	7.1	76	114	8
DCO072	7.2	76	114	8
DCO073	7.3	76	114	8
DCO074	7.4	76	114	8
DCO075	7.5	76	114	8
DCO076	7.6	76	114	8
DCO077	7.7	76	114	8
DCO078	7.8	76	114	8
DCO079	7.9	76	114	8
DCO080	8.0	76	114	8
DCO081	8.1	95	142	10
DCO082	8.2	95	142	10
DCO083	8.3	95	142	10
DCO084	8.4	95	142	10
DCO085	8.5	95	142	10
DCO086	8.6	95	142	10
DCO087	8.7	95	142	10
DCO088	8.8	95	142	10
DCO089	8.9	95	142	10
DCO090	9.0	95	142	10
DCO091	9.1	95	142	10
DCO092	9.2	95	142	10
DCO093	9.3	95	142	10
DCO094	9.4	95	142	10
DCO095	9.5	95	142	10
DCO096	9.6	95	142	10
DCO097	9.7	95	142	10
DCO098	9.8	95	142	10
DCO099	9.9	95	142	10
DCO100	10.0	95	142	10
DCO101	10.1	114	162	12
DCO102	10.2	114	162	12
DCO103	10.3	114	162	12
DCO104	10.4	114	162	12
DCO105	10.5	114	162	12
DCO106	10.6	114	162	12
DCO107	10.7	114	162	12
DCO108	10.8	114	162	12
DCO109	10.9	114	162	12
DCO110	11.0	114	162	12
DCO111	11.1	114	162	12
DCO112	11.2	114	162	12
DCO113	11.3	114	162	12
DCO114	11.4	114	162	12
DCO115	11.5	114	162	12
DCO116	11.6	114	162	12
DCO117	11.7	114	162	12
DCO118	11.8	114	162	12
DCO119	11.9	114	162	12
DCO120	12.0	114	162	12

DAM

MG 0.6 μm 3D 28° 2Flutes 140° HRc ▸52 G10 S S type

小徑鎢鋼鑽頭
Carbide Micro Drills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DAM005	0.5	4.6	38	3
DAM006	0.6	4.8	38	3
DAM007	0.7	5	38	3
DAM008	0.8	5.2	38	3
DAM009	0.9	5.4	38	3
DAM010	1.0	6	38	3
DAM011	1.1	12	50	3
DAM012	1.2	12	50	3
DAM013	1.3	12	50	3
DAM014	1.4	12	50	3
DAM015	1.5	12	50	3
DAM016	1.6	12	50	3
DAM017	1.7	12	50	3
DAM018	1.8	12	50	3
DAM019	1.9	12	50	3
DAM020	2.0	12	50	3
DAM021	2.1	18	60	3
DAM022	2.2	18	60	3
DAM023	2.3	18	60	3
DAM024	2.4	18	60	3
DAM025	2.5	18	60	3
DAM026	2.6	18	60	3
DAM027	2.7	18	60	3
DAM028	2.8	18	60	3
DAM029	2.9	18	60	3
DAM030	3.0	18	60	3

DAQ

MG 0.6 μm 3D 30° 2Flutes 140° HRc ▸45 T1 P POLISH XR XR type

鎢鋼鑽頭
Carbide Drills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DAQ030	3.0	20	62	4
DAQ031	3.1	20	62	4
DAQ032	3.2	20	62	4
DAQ033	3.3	20	62	4
DAQ034	3.4	20	62	4
DAQ035	3.5	20	62	4
DAQ036	3.6	20	62	4
DAQ037	3.7	20	62	4
DAQ038	3.8	24	66	4
DAQ039	3.9	24	66	4
DAQ040	4.0	24	66	4
DAQ041	4.1	24	66	6
DAQ042	4.2	24	66	6
DAQ043	4.3	24	66	6
DAQ044	4.4	24	66	6
DAQ045	4.5	24	66	6
DAQ046	4.6	24	66	6
DAQ047	4.7	24	66	6
DAQ048	4.8	28	66	6
DAQ049	4.9	28	66	6
DAQ050	5.0	28	66	6
DAQ051	5.1	28	66	6
DAQ052	5.2	28	66	6
DAQ053	5.3	28	66	6
DAQ054	5.4	28	66	6
DAQ055	5.5	28	66	6
DAQ056	5.6	28	66	6
DAQ057	5.7	28	66	6
DAQ058	5.8	28	66	6
DAQ059	5.9	28	66	6
DAQ060	6.0	28	66	6
DAQ061	6.1	34	79	8
DAQ062	6.2	34	79	8
DAQ063	6.3	34	79	8
DAQ064	6.4	34	79	8
DAQ065	6.5	34	79	8
DAQ066	6.6	34	79	8
DAQ067	6.7	34	79	8
DAQ068	6.8	34	79	8
DAQ069	6.9	34	79	8
DAQ070	7.0	34	79	8
DAQ071	7.1	41	79	8
DAQ072	7.2	41	79	8
DAQ073	7.3	41	79	8
DAQ074	7.4	41	79	8
DAQ075	7.5	41	79	8
DAQ076	7.6	41	79	8
DAQ077	7.7	41	79	8
DAQ078	7.8	41	79	8
DAQ079	7.9	41	79	8
DAQ080	8.0	41	79	8

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DAQ081	8.1	47	89	10
DAQ082	8.2	47	89	10
DAQ083	8.3	47	89	10
DAQ084	8.4	47	89	10
DAQ085	8.5	47	89	10
DAQ086	8.6	47	89	10
DAQ087	8.7	47	89	10
DAQ088	8.8	47	89	10
DAQ089	8.9	47	89	10
DAQ090	9.0	47	89	10
DAQ091	9.1	47	89	10
DAQ092	9.2	47	89	10
DAQ093	9.3	47	89	10
DAQ094	9.4	47	89	10
DAQ095	9.5	47	89	10
DAQ096	9.6	47	89	10
DAQ097	9.7	47	89	10
DAQ098	9.8	47	89	10
DAQ099	9.9	47	89	10
DAQ100	10.0	47	89	10
DAQ101	10.1	55	102	12
DAQ102	10.2	55	102	12
DAQ103	10.3	55	102	12
DAQ104	10.4	55	102	12
DAQ105	10.5	55	102	12
DAQ106	10.6	55	102	12
DAQ107	10.7	55	102	12
DAQ108	10.8	55	102	12
DAQ109	10.9	55	102	12
DAQ110	11.0	55	102	12
DAQ111	11.1	55	102	12
DAQ112	11.2	55	102	12
DAQ113	11.3	55	102	12
DAQ114	11.4	55	102	12
DAQ115	11.5	55	102	12
DAQ116	11.6	55	102	12
DAQ117	11.7	55	102	12
DAQ118	11.8	55	102	12
DAQ119	11.9	55	102	12
DAQ120	12.0	55	102	12

DBQ

MG | 0.6 μm | 5D | 30° | 2 Flutes | 140° | HRc ▸45 | T1 | P POLISH | XR XR type

鎢鋼鑽頭
Carbide Drills

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DBQ030	3.0	28	66	6
DBQ031	3.1	28	66	6
DBQ032	3.2	28	66	6
DBQ033	3.3	28	66	6
DBQ034	3.4	28	66	6
DBQ035	3.5	28	66	6
DBQ036	3.6	28	66	6
DBQ037	3.7	28	66	6
DBQ038	3.8	36	74	6
DBQ039	3.9	36	74	6
DBQ040	4.0	36	74	6
DBQ041	4.1	36	74	6
DBQ042	4.2	36	74	6
DBQ043	4.3	36	74	6
DBQ044	4.4	36	74	6
DBQ045	4.5	36	74	6
DBQ046	4.6	36	74	6
DBQ047	4.7	36	74	6
DBQ048	4.8	44	82	6
DBQ049	4.9	44	82	6
DBQ050	5.0	44	82	6

型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.
DBQ051	5.1	44	82	6
DBQ052	5.2	44	82	6
DBQ053	5.3	44	82	6
DBQ054	5.4	44	82	6
DBQ055	5.5	44	82	6
DBQ056	5.6	44	82	6
DBQ057	5.7	44	82	6
DBQ058	5.8	44	82	6
DBQ059	5.9	44	82	6
DBQ060	6.0	44	82	6
DBQ061	6.1	53	91	8
DBQ062	6.2	53	91	8
DBQ063	6.3	53	91	8
DBQ064	6.4	53	91	8
DBQ065	6.5	53	91	8
DBQ066	6.6	53	91	8
DBQ067	6.7	53	91	8
DBQ068	6.8	53	91	8
DBQ069	6.9	53	91	8
DBQ070	7.0	53	91	8
DBQ071	7.1	53	91	8
DBQ072	7.2	53	91	8
DBQ073	7.3	53	91	8
DBQ074	7.4	53	91	8
DBQ075	7.5	53	91	8
DBQ076	7.6	53	91	8
DBQ077	7.7	53	91	8
DBQ078	7.8	53	91	8
DBQ079	7.9	53	91	8
DBQ080	8.0	53	91	8
DBQ081	8.1	61	103	10
DBQ082	8.2	61	103	10
DBQ083	8.3	61	103	10
DBQ084	8.4	61	103	10
DBQ085	8.5	61	103	10
DBQ086	8.6	61	103	10
DBQ087	8.7	61	103	10
DBQ088	8.8	61	103	10
DBQ089	8.9	61	103	10
DBQ090	9.0	61	103	10
DBQ091	9.1	61	103	10
DBQ092	9.2	61	103	10
DBQ093	9.3	61	103	10
DBQ094	9.4	61	103	10
DBQ095	9.5	61	103	10
DBQ096	9.6	61	103	10
DBQ097	9.7	61	103	10
DBQ098	9.8	61	103	10
DBQ099	9.9	61	103	10
DBQ100	10.0	61	103	10
DBQ101	10.1	71	118	12
DBQ102	10.2	71	118	12
DBQ103	10.3	71	118	12
DBQ104	10.4	71	118	12
DBQ105	10.5	71	118	12
DBQ106	10.6	71	118	12
DBQ107	10.7	71	118	12
DBQ108	10.8	71	118	12
DBQ109	10.9	71	118	12
DBQ110	11.0	71	118	12
DBQ111	11.1	71	118	12
DBQ112	11.2	71	118	12
DBQ113	11.3	71	118	12
DBQ114	11.4	71	118	12
DBQ115	11.5	71	118	12
DBQ116	11.6	71	118	12
DBQ117	11.7	71	118	12
DBQ118	11.8	71	118	12
DBQ119	11.9	71	118	12
DBQ120	12.0	71	118	12

螺紋銑刀系列
Thread Milling Tool Series

HW

Super MG | 0.2 μm | 15° | 4 Flutes | HRc ▸62 | G12

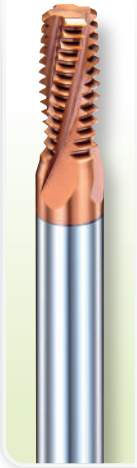
高硬度用螺紋銑刀
Thread Milling

型號 Type No.	螺距 Pitch	M 適用規格 Applicable Size 粗牙 Coarse	細牙 Fine	D1 直徑 Diameter	D2 柄徑 Shank Dia.	N 刃數 Flute	L 刃長 Flute Length	L3 全長 O.A.L
HW0230505	0.5	M 3	≧M 4	2.3	6	4	5.2	40
HW0230705	0.5	M 3	≧M 4	2.3	6	4	7.2	40
HW0300707	0.7	M 4		3.0	6	4	7.28	40
HW0301007	0.7	M 4		3.0	6	4	10.08	40
HW0380908	0.8	M 5		3.8	6	4	9.12	50
HW0381208	0.8	M 5		3.8	6	4	12.32	50
HW0451110	1.0	M 6	≧M 8	4.5	6	4	10.4	60
HW0451510	1.0	M 6	≧M 8	4.5	6	4	14.4	60
HW06014125	1.25	M 8	≧M10	6.0	6	4	14.25	60
HW06019125	1.25	M 8	≧M10	6.0	6	4	19.25	60

TW

MG | 0.6 μm | 15° | 4 Flutes | 5 Flutes | HRc ▸52 | G10

螺紋銑刀
Thread Milling



型號 Type No.	D1 直徑 Diameter	L1 刃長 Flute Length	L3 全長 O.A.L.	D2 柄徑 Shank Dia.	刃數 Flute	螺距 Pitch	M 螺牙 Thread Size
TW02305M3050	2.3	5.2	40	6	3	0.5	M 3
TW02307M3050	2.3	7.2	40	6	3	0.5	M 3
TW03007M4070	3.0	7.28	40	6	3	0.7	M 4
TW03010M4070	3.0	10.08	40	6	3	0.7	M 4
TW03809M5080	3.8	9.12	50	6	3	0.8	M 5
TW03812M5080	3.8	12.32	50	6	3	0.8	M 5
TW04511M6100	4.5	10.4	60	6	3	1.0	M 6
TW04515M6100	4.5	14.4	60	6	3	1.0	M 6
TW06014M8125	6.0	14.25	60	8	3	1.25	M 8
TW06019M8125	6.0	19.25	60	8	3	1.25	M 8
TW07517M10150	7.5	17.1	60	8	3	1.5	M10
TW07525M10150	7.5	24.6	75	8	3	1.5	M10
TW08020M12175	8.0	19.95	60	8	3	1.75	M12
TW08029M12175	8.0	28.7	75	8	3	1.75	M12
TW09020M12175	9.0	19.95	75	10	4	1.75	M12
TW09029M12175	9.0	28.7	75	10	4	1.75	M12
TW10027M14200	10.0	26.8	75	10	4	2.0	M14
TW10039M14200	10.0	38.8	100	10	4	2.0	M14
TW12027M16200	12.0	26.8	80	12	4	2.0	M16
TW12039M16200	12.0	38.8	100	12	4	2.0	M16
TW12031M18250	12.0	31	100	12	4	2.5	M18
TW12045M18250	12.0	43.5	100	12	4	2.5	M18
TW14034M20250	14.0	33.5	100	14	4	2.5	M20
TW14049M20250	14.0	48.5	100	14	4	2.5	M20
TW16041M24300	16.0	40.2	100	16	5	3.0	M24
TW16059M24300	16.0	58.2	120	16	5	3.0	M24

捨棄式刀片系列
Throw-away Insert Series

V-WB

Tool Steel

精密級鎖牙式球刀
Precision Screw-on Type Ball Nose Insert Holder

型號 Type No.	D1 直徑 Diameter	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
V-WB010	10	9.8	21.2	M7-3P	K10
V-WB012	12	11.7	23.9	M8-3P	K12
V-WB016	16	15.6	29.9	M10-3P	K16
V-WB020	20	19.5	34.8	M12-3P	K20
V-WB025	25	24.4	41.6	M16-3P	K25
V-WB030	30	28	48.2	M16-3P	K25
V-WB032	32	31.2	51.7	M20-3P	K32

附註：V-WB產品配合二代變形鎢鋼刀桿使用。
Note：V-WB can combine with our II Exchangeable Carbide Shank.

WTB

MG 0.6 μm 2 Flutes HRc >50 T2

精密級捨棄式球刀片
Precision Throw-away Ball Nose Insert

型號 Type No.	R	D	d	T	E	H	Type
WTB010	R5	10	4	5	2.5	11.5	A
WTB012	R6	12	5	6	2.5	12	A
WTB016	R8	16	5	6	3	14	B
WTB020	R10	20	5	6	3	16	B
WTB025	R12.5	25	6	9	4	21.5	B
WTB030	R15	30	8	10	5	25	B
WTB032	R16	32	8	10	5	26	B

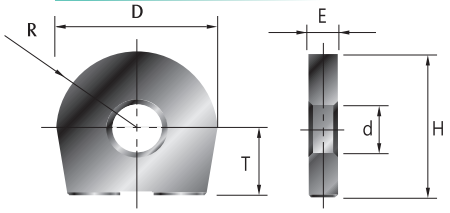
WGB

MG 0.6 μm 2 Flutes HRc >52 G7

精密級捨棄式球刀片
Precision Throw-away Ball Nose Insert

型號 Type No.	R	D	d	T	E	H	Type
WGB010	R5	10	4	5	2.5	11.5	A
WGB012	R6	12	5	6	2.5	12	A
WGB016	R8	16	5	6	3	14	B
WGB020	R10	20	5	6	3	16	B
WGB025	R12.5	25	6	9	4	21.5	B
WGB030	R15	30	8	10	5	25	B
WGB032	R16	32	8	10	5	26	B

Type A



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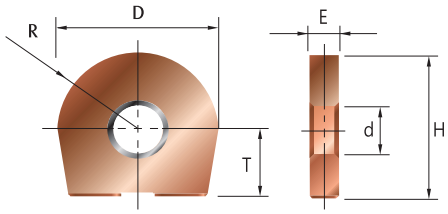

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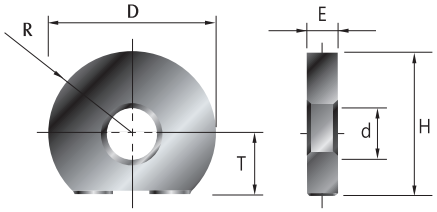

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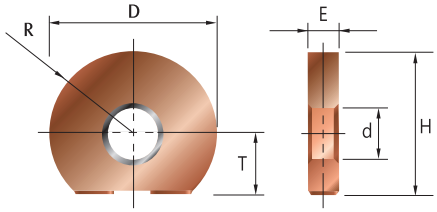


DHF刀具推薦表
SELECTION OF ENDMILLS

高速高硬度/破壞王/鋁用/標準/鈦好切/不鏽鋼/沖 系列
(HSC / HPC/ ALU / STD / TAI/ SUS /ECM) SERIES

粗銑 Roughing

被切削材 Work Material	平刀 End Mills			圓鼻刀 Corner Radius End Mills			球刀 Ball Nose End Mills		
	第一推薦 First Selection	第二推薦 Second Selection	第三推薦 Third Selection	第一推薦 First Selection	第二推薦 Second Selection	第三推薦 Third Selection	第一推薦 First Selection	第二推薦 Second Selection	第三推薦 Third Selection
碳素鋼 Carbon Steels S50C / SS400 : 1.1210 / 1.0036 : 1050 / A570 Gr.45 (~HRc 22)	UPZ UPS UPW UPE UEW-4T	UPG UPH ETH ETB ETA	DE	UXR UPER UPJ	RTB RTD RTA	DRD DRA	BTB-2T BTH-2T	BTA-2T BTD-2T	DB-2T
	WWB WUB ULE	WWA WUA HTA HTD HEA IEA JEA LFTA LFTH	DHE DIE DJE	ULXR	LRTD LRTA	DLRD DLRA	HBH IBH JBH	HBA IBA JBA	DHB DIB
合金工具鋼/碳工具鋼 Alloy Tool Steels / Carbon Tool Steels P20 / P5 / SK3 / SKD61 / SKD11 : 1.2311 / 1.1545 / 1.2379 / 1.2344 : H13 / D2 (HRc 23~32)	UPZ UPS UPW UPE UEW-4T	UPG UPH ETH ETB ETA	DE	UXR UPER UPJ	RTB RTD RTA	DRD DRA	UBX UB	BTB-2T BTH-2T BTA-2T BTD-2T	DB-2T
	WWB WUB ULE	WWA WUA HTA HTD HEA IEA JEA LFTA LFTH	DHE DIE DJE	ULXR	LRTD LRTA	DLRD DLRA	UHBX UIBX	HBH IBH JBH HBA IBA JBA	DHB DIB
調質鋼/預硬鋼 Prehardened Steels NAK80 : 1.2083 : AISI420 : M310 (HRc36~45)	UPZ UPS UPW UPE UEW-4T	UPG UPH ETH ETB ETA	DE	UOR UXR UPER UPJ	RTB RTD RTA	DRD DRA	UBG UBX UB	BTB-2T BTH-2T BTA-2T BTD-2T	DB-2T
	WWB WUB ULE	WWA WUA HTA HTD HEA IEA JEA LFTA LFTH	DHE DIE DJE	ULXR	LRTD LRTA	DLRD DLRA	UHBG UIBG UHBX UIBX	HBH IBH JBH HBA IBA JBA	DHB DIB
熱處理鋼 Hardened Steels SKD61/ STAVAX / 17-4PH : 1.2083 / 1.2344 / 1.4542 : H13 / 420 (HRc48~54)	-	-	-	UOR UEYR	UPR UKR UXR	RTB RTD RTA	UOB	UBT-2T UQB	UBG UB BTB-2T
	-	-	-	-	ULXR ULR	LRTD	UHBT UIBT	UHBG UIBG	UHBX UIBX
熱處理鋼 Hardened Steels SKD11 / SKH9 : 1.2379 / 1.3342 : D2 / M2 (HRc55~62)	-	-	-	UEYR	UOR	-	UOB	UBT-2T	UQB
	-	-	-	-	-	-	UHBT UIBT	UHBG UIBG	UHBX UIBX

DHF刀具推薦表
SELECTION OF ENDMILLS

高速高硬度/破壞王/鋁用/標準/鈦好切/不鏽鋼/沖 系列
(HSC / HPC/ ALU / STD / TAI/ SUS /ECM) SERIES

粗銑 Roughing

被切削材 Work Material	平刀 End Mills			圓鼻刀 Corner Radius End Mills			球刀 Ball Nose End Mills		
	第一推薦 First Selection	第二推薦 Second Selection	第三推薦 Third Selection	第一推薦 First Selection	第二推薦 Second Selection	第三推薦 Third Selection	第一推薦 First Selection	第二推薦 Second Selection	第三推薦 Third Selection
鋁合金 Aluminum Alloy 5052 / 6061 / 7075	AEW AES	UTH AEA AE	DC ETH ETD	AEWR AESR	UTHR AER	RTG	BTC	DBC	BTH-2T BTD-2T
	-	-	LFTH	-	-	-	HBC IBC JBC	HBH IBH JBH	-
紅銅 Copper C1100 / 2.0090 /B152C11000	AES AEA AE	DC ETH	ETD HTD	AEWR AESR	AER	RTB RTG	BTC	UB BTH-2T	BTD-2T DBC
	-	-	LFTH	LRTD LRTA	DLRA DLRD	-	HBC IBC JBC	HBH IBH JBH	HBA IBA JBA DHB DIB
沃斯田鐵系不銹鋼 Stainless Steels SUS304 : 1.4301 : AISI 304 (HRc 28~32)	UTH UPZ UPS UPE UPG	ETH ETB	ETA ETD	UTHR UPJ	UPER	RTB	UBG UBX UB	BTH-2T	BTD-2T
	WWB	WWA LFTH	LFTA	ULR ULXR	LRTD LRTA	DLRA	UHBG UIBG UHBX UIBX	HBH IBH JBH	HBA IBA JBA
(麻田散鐵, 析出硬化) 系不銹鋼 Stainless Steels SUS420J2 / SUS630 : 1.2083 / 1.4542 : AISI 420 / 17-4PH (HRc 28~32)	UTH UPZ UPS UPE UPG	ETH ETB	ETA ETD	UTHR UPJ	UPER	RTB	UBG UBX UB	BTH-2T	BTD-2T
	WWB	WWA LFTH	LFTA	ULR ULXR	LRTD LRTA	DLRA	UHBG UIBG UHBX UIBX	HBH IBH JBH	HBA IBA JBA
鈦合金/純鈦 Titanium Alloy / Pure Titanium Ti-6Al-4V / Ti-2 : 3.7165 / 3.7035 : Gr5 / Gr2 : TC4 / TA1	UTW UTH UPW WWB	UPE UPA AEW	UTE ETH UPW	UTHR UTJ	UPER	UTER	UB	BTC	UBX
	-	-	-	ULXR	ULR	-	UHB UIB	HBC IBC JBC	UHBX UIBX

DHF刀具推薦表
SELECTION OF ENDMILLS

高速高硬度/破壞王/鋁用/標準/鈦好切/不鏽鋼/沖 系列
(HSC / HPC/ ALU / STD / TAI/ SUS /ECM) SERIES

精銑 Finishing

被切削材 Work Material	平刀 End Mills 第一推薦 First Selection	平刀 End Mills 第二推薦 Second Selection	平刀 End Mills 第三推薦 Third Selection	圓鼻刀 Corner Radius End Mills 第一推薦 First Selection	圓鼻刀 Corner Radius End Mills 第二推薦 Second Selection	圓鼻刀 Corner Radius End Mills 第三推薦 Third Selection	球刀 Ball Nose End Mills 第一推薦 First Selection	球刀 Ball Nose End Mills 第二推薦 Second Selection	球刀 Ball Nose End Mills 第三推薦 Third Selection
碳素鋼 Carbon Steels S50C / SS400 : 1.1210 / 1.0036 : 1050 / A570 Gr.45 (~HRc 22)	UET	ETG ETH ETB ITA ETA	DE	UXR RTB	RTD RTA	DRD DRA	BTB BTH	BTA BTD	DB
	ULE	HTA HTD HEA IEA JEA LFTA LFTH	DHE DIE DJE	ULXR ULR	LRTD LRTA	DLRD DLRA	HBH IBH JBH	HBA IBA JBA	DHB DIB
合金工具鋼/碳工具鋼 Alloy Tool Steels / Carbon Tool Steels P20 / P5 / SK3 / SKD61 / SKD11 : 1.2311 / 1.1545 / 1.2379 / 1.2344 : H13 / D2 (HRc 23~32)	VTA UET	ETG ETH ETB ITA ETA	DE	UXR UER	RTB RTD RTA	DRD DRA	UB UBX	BTB BTH BTA BTD	DB
	ULE	HTA HTD HEA IEA JEA LFTA LFTH	DHE DIE DJE	ULXR ULR	LRTD LRTA	DLRD DLRA	UHB UIB UHBX UIBX	HBH IBH JBH HBA IBA JBA	DHB DIB
調質鋼/預硬鋼 Prehardened Steels NAK80 : 1.2083 : AISI420 : M310 (HRc36~45)	VTA UPW UPS UPE UET	ETG ETH ETB ITA ETA	DE	UXR UER	RTB RTD RTA	DRD DRA	UBG UBX UB	BTB BTH BTA BTD	DB
	ULE	HTA HTD HEA IEA JEA LFTA LFTH	DHE DIE DJE	ULXR ULR	LRTD LRTA	DLRD DLRA	UHBG UIBG UHBX UIBX UHB UIB USB	HBH IBH JBH HBA IBA JBA UPB	DHB DIB
熱處理鋼 Hardened Steels SKD61/ STAVAX / 17-4PH : 1.2083 / 1.2344 / 1.4542 : H13 / 420 (HRc48~54)	UVT	UEX VTA UET	ETB ETA	UVTR UVR	UPR UGR UKR UXR	RTB RTD RTA	UBT	UQB	UBG UB BTB
	ULE	LFTA	-	-	ULXR ULR	LRTD	UHBT UIBT USB	UHBG UIBG UPB	UHBX UIBX
熱處理鋼 Hardened Steels SKD11 / SKH9 : 1.2379 / 1.3342 : D2 / M2 (HRc55~62)	UVT	UEX	VTA UET	UVTR	UVR	UPR UGR UVR	UBT	UQB	UOB
	-	-	-	-	-	-	UHBT UIBT	UHBG UIBG	UHBX UIBX

DHF刀具推薦表
SELECTION OF ENDMILLS

高速高硬度/破壞王/鋁用/標準/鈦好切/不鏽鋼/沖 系列
(HSC / HPC/ ALU / STD / TAI/ SUS /ECM) SERIES

精銑 Finishing

被切削材 Work Material	平刀 End Mills			圓鼻刀 Corner Radius End Mills			球刀 Ball Nose End Mills		
	第一推薦 First Selection	第二推薦 Second Selection	第三推薦 Third Selection	第一推薦 First Selection	第二推薦 Second Selection	第三推薦 Third Selection	第一推薦 First Selection	第二推薦 Second Selection	第三推薦 Third Selection
鋁合金 Aluminum Alloy 5052 / 6061 / 7075	AES AET	AEA UTH	DC ETH	AESR	AER UTHR	RTB RTG	BTC	BTH	BTD DBC
	-	-	LFTH	-	LRTD	LRTA	HBC IBC JBC	HBH IBH JBH	-
紅銅 Copper C1100 / 2.0090 /B152C11000	AES AET AEA	ETH ETB HTD	ETD ETA DC	AESR	AER ADR	RTB RTG	BTC	BTH	BTD DBC
	-	HEH IEH JEH LFTH	DHE DIE DJE	LRTD	LRTA	-	HBC IBC JBC	HBH IBH JBH	-
沃斯田鐵系不銹鋼 Stainless Steels SUS304 : 1.4301 : AISI 304 (HRc 28~32)	VTB UTH UPE UPS	ETB ETH	ETA	UTHR	UPER	RTB	UB UBG UBX	BTH	BTD
	-	LFTH	LFTA	ULR ULXR	LRTD	LRTA	UHBG UIBG UHBX UIBX	HBH IBH JBH	HBA IBA JBA
(麻田散鐵, 析出硬化) 系不銹鋼 Stainless Steels SUS420J2 / SUS630 : 1.2083 / 1.4542 : AISI 420 / 17-4PH (HRc 28~32)	VTB UTH UPE UPS	ETB ETH ITH	ETA	UTHR	UPER	RTB	UB UBG UBX	BTH	BTD
	-	LFTH	LFTA	ULR ULXR	LRTD	LRTA	UHBG UIBG UHBX UIBX	HBH IBH JBH	HBA IBA JBA
鈦合金/純鈦 Titanium Alloy / Pure Titanium Ti-6Al-4V / Ti-2 : 3.7165 / 3.7035 : Gr5 / Gr2 : TC4 / TA1	UTH	UPW UPE	UTE ETH	UTHR	UPER UTJ	UTER	UB	BTC	UBX
	-	LFTH	HEH IEH JEH	ULR ULXR	-	-	UHB UIB	HBC IBC JBC	UHBX UIBX

DHF高速、高硬度系列刀具推薦表

SELECTION OF DHF High Speed & High Hard Cutting Series

被切削材 Work Material	平刀 End Mills			圓鼻刀 Corner Radius End Mills			球刀 Ball Nose End Mills		
	第一推薦 First Selection	第二推薦 Second Selection	第三推薦 Third Selection	第一推薦 First Selection	第二推薦 Second Selection	第三推薦 Third Selection	第一推薦 First Selection	第二推薦 Second Selection	第三推薦 Third Selection
合金工具鋼/碳工具鋼 *Alloy Tool Steels / Carbon Tool Steels* **P20 / P5 / SK3 / SKD61 / SKD11 : 1.2311 / 1.1545 / 1.2379 / 1.2344 : H13 / D2** (HRc 23~32)	UET	–	–	UOR UXR ULXR	UER ULR	–	UBX UHBX	UBG UHBG	UB UHB
調質鋼/預硬鋼 *Prehardened Steels* **NAK80 : 1.2083 : AISI420 : M310** (HRc36~45)	UEX	UVT	UET	UOR UXR ULXR	UER ULR	–	UBG UHBG	UBX UHBX	UB UHB
熱處理鋼 *Hardened Steels* **SKD61/ STAVAX / 17-4PH : 1.2083 / 1.2344 / 1.4542 : H13 / 420** (HRc48~54)	UVT	UEX	UET	UEYR UVTR ULXR	UOR UVR UPR UGR ULR	UXR UER UKR	UOB	UBT UQB UHBT	UBX UHBX
熱處理鋼 *Hardened Steels* **SKD11 / SKH9 : 1.2379 / 1.3342 : D2 / M2** (HRc55~62)	UVT	UEX	UET	UEYR UVTR	UVR UPR	UGR	UOB	UBT UQB UHBT	–
沃斯田鐵系不銹鋼 *Stainless Steels :* **SUS304 : 1.4301 : AISI 304** (HRc 28~32)	UET	–	–	UVR	UXR	UER	UB UHB	UBX UHBX	UBG UHBG
(麻田散鐵,析出硬化）系不銹鋼 *Stainless Steels* **SUS420J2 / SUS630 : 1.2083 / 1.4542 : AISI 420 / 17-4PH** (HRc 28~32)	UET	–	–	UVR	UXR	UER	UB UHB	UBX UHBX	UBG UHBG

DHF變形金剛2代系列刀具推薦表

SELECTION OF DHF Exchangeable Head Endmill II Series

被切削材 Work Material	平刀 End Mills			圓鼻刀 Corner Radius End Mills			球刀 Ball Nose End Mills		
	第一推薦 First Selection	第二推薦 Second Selection	第三推薦 Third Selection	第一推薦 First Selection	第二推薦 Second Selection	第三推薦 Third Selection	第一推薦 First Selection	第二推薦 Second Selection	第三推薦 Third Selection
碳素鋼 *Carbon Steels* **S50C / SS400 : 1.1210 / 1.0036 : 1050 / A570 Gr.45** (~HRc 22)	X-UPS	X-UET	–	X-UXR	–	–	X-BMW	X-UB Xs-UB	X-BTB Xs-BTB
合金工具鋼/碳工具鋼 *Alloy Tool Steels / Carbon Tool Steels* **P20 / P5 / SK3 / SKD61 / SKD11 : 1.2311 / 1.1545 / 1.2379 / 1.2344 : H13 / D2** (HRc 23~32)	X-UPS	X-UET	–	X-UOR X-UXR	X-UEXR	X-UPR	X-BMW	X-UB Xs-UB	X-BTB Xs-BTB
調質鋼/預硬鋼 *Prehardened Steels* **NAK80 : 1.2083 : AISI420 : M310** (HRc36~45)	X-UPS	X-UET	–	X-UOR X-UXR	X-UEXR	X-UPR	X-BMW	X-UBY X-UB Xs-UB	X-BTB Xs-BTB
熱處理鋼 *Hardened Steels* **SKD61/ STAVAX / 17-4PH : 1.2083 / 1.2344 / 1.4542 : H13 / 420** (HRc48~54)	X-UVT	X-UEX X-UPS	X-UET	X-UEYR X-UVTR	X-UOR	X-UEXR X-UPR	X-UBT Xs-UBT	X-UBY	X-UB
熱處理鋼 *Hardened Steels* **SKD11 / SKH9 : 1.2379 / 1.3342 : D2 / M2** (HRc55~62)	X-UVT	X-UEX	–	X-UEYR X-UVTR	X-UOR	X-UEXR X-UPR	X-UBT Xs-UBT	X-UBY	
鋁合金 *Aluminum Alloy* **5052 / 6061 / 7075**	X-AES X-AEW	–	–	X-AESR X-AEWR	X-UXR	–	X-BTC	–	
紅銅 *Copper* **C1100 / 2.0090 /B152C11000**	X-AES X-AEW	X-UET	–	X-AESR X-AEWR	X-UXR	–	X-BTC	X-UB Xs-UB	X-BTB Xs-BTB
沃斯田鐵系不銹鋼 *Stainless Steels* : **SUS304 : 1.4301 : AISI 304** (HRc 28~32)	X-UPS	X-UET	–	X-UXR	–	–	X-UB Xs-UB	X-BTB Xs-BTB	X-BMW
(麻田散鐵,析出硬化)系不銹鋼 *Stainless Steels* **SUS420J2 / SUS630 : 1.2083 / 1.4542 : AISI 420 / 17-4PH** (HRc 28~32)	X-UPS	X-UET	–	X-UXR	–	–	X-UB Xs-UB	X-BTB Xs-BTB	X-BMW
鈦合金/純鈦 *Titanium Alloy / Pure Titanium* **Ti-6Al-4V / Ti-2 : 3.7165 / 3.7035 : Gr5 / Gr2 : TC4 / TA1**	X-UET X-AES	X-AEW	–	X-UXR X-AESR	X-AEWR	–	X-UB Xs-UB	X-BTB Xs-BTB	X-BMW

DHF標準系列刀具推薦表〔一〕

SELECTION OF DHF Standard Series (1)

被切削材 Work Material	平刀 End Mills			圓鼻刀 Corner Radius End Mills			球刀 Ball Nose End Mills		
	第一推薦 First Selection	第二推薦 Second Selection	第三推薦 Third Selection	第一推薦 First Selection	第二推薦 Second Selection	第三推薦 Third Selection	第一推薦 First Selection	第二推薦 Second Selection	第三推薦 Third Selection
紅銅 *Copper* **C1100 / 2.0090 /B152C11000**	ETH	ETB	ETG ETA	RTB	RTD	RTG RTA	BTH	BTB	BTA
碳素鋼 *Carbon Steels* **S50C / SS400 : 1.1210 / 1.0036 : 1050 / A570 Gr.45** (~HRc 22)	ETH	ETB	ETG ETA	RTB	RTD	RTG RTA	BTB	BTH	BTA
合金工具鋼/碳工具鋼 *Alloy Tool Steels / Carbon Tool Steels* **P20 / P5 / SK3 / SKD61 / SKD11 : 1.2311 / 1.1545 / 1.2379 / 1.2344 : H13 / D2** (HRc 23~32)	ETH	ETB	ETG ETA	RTB	RTD	RTG RTA	BTB	BTH	BTA
調質鋼/預硬鋼 *Prehardened Steels* **NAK80 : 1.2083 : AISI420 : M310** (HRc36~45)	ETH	ETB	ETA	RTB	RTD	RTG RTA	BTB	BTH	BTA
熱處理鋼 *Hardened Steels* **SKD61/ STAVAX / 17-4PH : 1.2083 / 1.2344 / 1.4542 : H13 / 420** (HRc48~54)	ETH	ETB	ETA	RTB	RTD	RTG RTA	BTB	BTH	BTA
沃斯田鐵系不銹鋼 *Stainless Steels :* **SUS304 : 1.4301 : AISI 304** (HRc 28~32)	ETH	ETB	ETG ETA	RTB	RTD	RTG RTA	BTH	BTB	BTA
(麻田散鐵,析出硬化)系不銹鋼 *Stainless Steels* **SUS420J2 / SUS630 : 1.2083 / 1.4542 : AISI 420 / 17-4PH** (HRc 28~32)	ETH	ETB	ETG ETA	RTB	RTD	RTG RTA	BTH	BTB	BTA
鈦合金/純鈦 *Titanium Alloy / Pure Titanium* **Ti-6Al-4V / Ti-2 : 3.7165 / 3.7035 : Gr5 / Gr2 : TC4 / TA1**	–	ETH	ETB	–	RTB	RTD	–	BTH	BTB

DHF標準系列刀具推薦表〔二〕

SELECTION OF DHF Standard Series (2)

被切削材 Work Material	平刀 End Mills 第一推薦 First Selection	平刀 End Mills 第二推薦 Second Selection	平刀 End Mills 第三推薦 Third Selection	圓鼻刀 Corner Radius End Mills 第一推薦 First Selection	圓鼻刀 Corner Radius End Mills 第二推薦 Second Selection	圓鼻刀 Corner Radius End Mills 第三推薦 Third Selection	球刀 Ball Nose End Mills 第一推薦 First Selection	球刀 Ball Nose End Mills 第二推薦 Second Selection	球刀 Ball Nose End Mills 第三推薦 Third Selection
紅銅 *Copper* **C1100 / 2.0090 /B152C11000**	ITH HTD	HEH IEH JEH	-	LRTD	LRTA	-	HBH IBH JBH	HBA IBA JBA	-
	LFTH	-	-						
碳素鋼 *Carbon Steels* **S50C / SS400 : 1.1210 / 1.0036 : 1050 / A570 Gr.45** (~HRc 22)	VTB	HTA ITA	HEA IEA JEA	LRTD	LRTA	-	HBH IBH JBH	HBA IBA JBA	-
	LFTH WWA	LFTA WUA	-						
合金工具鋼/碳工具鋼 *Alloy Tool Steels / Carbon Tool Steels* **P20 / P5 / SK3 / SKD61 / SKD11 : 1.2311 / 1.1545 / 1.2379 / 1.2344 : H13 / D2** (HRc 23~32)	VTB	HTA ITA	HEA IEA JEA	LRTD	LRTA	-	HBH IBH JBH	HBA IBA JBA	-
	LFTH WWA	LFTA WUA	-						
調質鋼/預硬鋼 *Prehardened Steels* **NAK80 : 1.2083 : AISI420 : M310** (HRc36~45)	VTB	HTA ITA	HEA IEA JEA	LRTD	LRTA	-	HBH IBH JBH	HBA IBA JBA	-
	LFTH WWA	LFTA WUA	-						
熱處理鋼 *Hardened Steels* **SKD61/ STAVAX / 17-4PH : 1.2083 / 1.2344 / 1.4542 : H13 / 420** (HRc48~54)	VTA	HEH IEH JEH	-	LRTD	LRTA	-	HBH IBH JBH	HBA IBA JBA	-
	LFTA	-	-						
沃斯田鐵系不銹鋼 *Stainless Steels* : **SUS304 : 1.4301 : AISI 304** (HRc 28~32)	VTB	ITH HTD	HEA IEA JEA	LRTD	LRTA	-	HBH IBH JBH	HBA IBA JBA	-
	LFTH WWA	WUA	-						
(麻田散鐵,析出硬化) 系不銹鋼 *Stainless Steels* **SUS420J2 / SUS630 : 1.2083 / 1.4542 : AISI 420 / 17-4PH** (HRc 28~32)	VTB	ITH HTD	HEA IEA JEA	LRTD	LRTA	-	HBH IBH JBH	HBA IBA JBA	-
	LFTH WWA	WUA	-						

DHF破壞王系列刀具推薦表

SELECTION OF DHF High Performance Cutting Series

	粗銑 Roughing				精銑 Finishing			
	平刀 End Mills			圓鼻刀 Corner Radius End Mills	平刀 End Mills			圓鼻刀 Corner Radius End Mills
被切削材 Work Material	第一推薦 First Selection	第二推薦 Second Selection	第三推薦 Third Selection	第一推薦 First Selection	第一推薦 First Selection	第二推薦 Second Selection	第三推薦 Third Selection	第一推薦 First Selection
碳素鋼 *Carbon Steels* **S50C / SS400 : 1.1210 / 1.0036 : 1050 / A570 Gr.45** (~HRc 22)	UEW WWB WUB	UPS UPZ UPW	UPE UPG	UPER UPJ	UPW UPZ	UPE UPS	UPG	UPER UPJ
合金工具鋼/碳工具鋼 *Alloy Tool Steels / Carbon Tool Steels* **P20 / P5 / SK3 / SKD61 / SKD11 : 1.2311 / 1.1545 / 1.2379 / 1.2344 : H13 / D2** (HRc 23~32)	WWB WUB UPZ	UPS UPW	UPE UPG	UPER UPJ	UPW UPZ	UPE UPS	UPG	UPER UPJ
調質鋼/預硬鋼 *Prehardened Steels* **NAK80 : 1.2083 : AISI420 : M310** (HRc36~45)	WWB UPZ	UPS UPW	UPE UPG	UPER UPJ	UPW UPZ	UPE UPS	UPG	UPER UPJ
熱處理鋼 *Hardened Steels* **SKD61/ STAVAX / 17-4PH : 1.2083 / 1.2344 / 1.4542 : H13 / 420** (HRc48~54)	-	-	-	UPER UPJ	UPW UPZ	UPE UPS	UPG	UPER UPJ
沃斯田鐵系不銹鋼 *Stainless Steels :* **SUS304 : 1.4301 : AISI 304** (HRc 28~32)	WWB UPZ	UPS UPW	UPE UPG	UPER UPJ	UPW UPZ	UPE UPS	UPG	UPER UPJ
（麻田散鐵，析出硬化）系不銹鋼 *Stainless Steels* **SUS420J2 / SUS630 : 1.2083 / 1.4542 : AISI 420 / 17-4PH** (HRc 28~32)	WWB UPZ	UPS UPW	UPE UPG	UPER UPJ	UPW UPZ	UPE UPS	UPG	UPER UPJ

DHF微小徑系列刀具推薦表

SELECTION OF DHF Micro Diameter & Long Neck Series

被切削材 Work Material	平刀 End Mills			圓鼻刀 Corner Radius End Mills			球刀 Ball Nose End Mills		
	第一推薦 First Selection	第二推薦 Second Selection	第三推薦 Third Selection	第一推薦 First Selection	第二推薦 Second Selection	第三推薦 Third Selection	第一推薦 First Selection	第二推薦 Second Selection	第三推薦 Third Selection
碳素鋼 *Carbon Steels* **S50C / SS400 : 1.1210 / 1.0036 : 1050 / A570 Gr.45** (~HRc 22)	**META LNE**	**MET LNH**	**LNX**	**UNER**	**UNE**	**–**	**MBTA LNB**	**MSB UNB**	**–**
合金工具鋼/碳工具鋼 *Alloy Tool Steels / Carbon Tool Steels* **P20 / P5 / SK3 / SKD61 / SKD11 : 1.2311 / 1.1545 / 1.2379 / 1.2344 : H13 / D2** (HRc 23~32)	**META LNE**	**MET LNH**	**LNX**	**UNER**	**UNE**	**–**	**MBTA LNB**	**MSB UNB**	**–**
調質鋼/預硬鋼 *Prehardened Steels* **NAK80 : 1.2083 : AISI420 : M310** (HRc36~45)	**UME LNE**	**META LNH**	**MET LNE**	**UNER**	**UNE**	**UXE**	**UMB UNBX**	**MBTA UNB**	**MSB LNB**
熱處理鋼 *Hardened Steels* **SKD61/ STAVAX / 17-4PH : 1.2083 / 1.2344 / 1.4542 : H13 / 420** (HRc48~54)	**UME UDE**	**META LNX**	**LNE LNH**	**UXE**	**UNE**	**UNER**	**UMB UNBX**	**MBTA UNB**	**MSB LNB**
熱處理鋼 *Hardened Steels* **SKD11 / SKH9 : 1.2379 / 1.3342 : D2 / M2** (HRc55~62)	**UME UDE**	**–**	**–**	**UXE**	**UNE**	**–**	**UMB UNBX**	**UNB**	**–**
鋁合金 *Aluminum Alloy* **5052 / 6061 / 7075**	**META LNE**	**MET LNH**	**LNX**	**UNER**	**UNE**	**–**	**MBTA LNB**	**MSB UNB**	**–**
紅銅 *Copper* **C1100 / 2.0090 /B152C11000**	**META LNE**	**MET LNH**	**LNX**	**UNER**	**UNE**	**–**	**MBTA LNB**	**MSB UNB**	**–**
沃斯田鐵系不銹鋼 *Stainless Steels* **: SUS304 : 1.4301 : AISI 304** (HRc 28~32)	**META LNE**	**MET LNH**	**LNX**	**UNER**	**UNE**	**–**	**UMB UNB**	**MBTA LNB**	**MSB**
(麻田散鐵,析出硬化)系不銹鋼 *Stainless Steels* **SUS420J2 / SUS630 : 1.2083 / 1.4542 : AISI 420 / 17-4PH** (HRc 28~32)	**META LNE**	**MET LNH**	**LNX**	**UNER**	**UNE**	**–**	**UMB UNB**	**MBTA LNB**	**MSB**
鈦合金/純鈦 *Titanium Alloy / Pure Titanium* **Ti-6Al-4V / Ti-2 : 3.7165 / 3.7035 : Gr5 / Gr2 : TC4 / TA1**	**META LNE**	**LNH**	**–**	**UNER**	**UNE**	**–**	**MBTA LNB**	**MSB UNB**	**–**

REPLY 產品回函卡

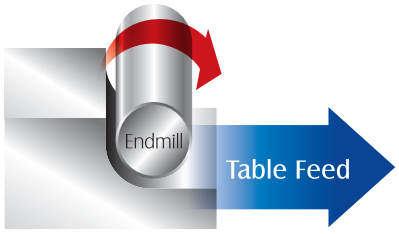
Messrs. /

Type No. (Size Description)	Work Material	Hardness(HRC)
	Heat Treatment ☐ Yes ☐ No	

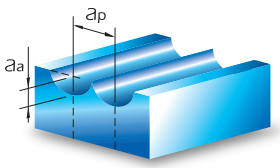
Machine Type	Programming Method		
	☐ UG	☐ CIMATRON	☐ Power-Mill
Model	☐ Pro-E	☐ Work NC	☐ Master CAM

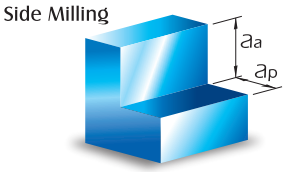
Tool Holding System	☐ ER Collect Chuck	☐ Draw Back Chuck	☐ Hydraulic Chuck	☐ Shrink Fit Chuck
Brand				
Cooling Type	☐ Dry Machining	☐ MQL (Mist)	☐ Oil Machining	☐ Emulsion(Coolant) Machining

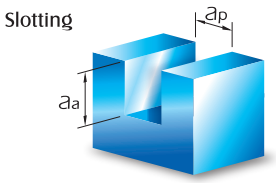
Processing Method	☐ Down Milling	☐ Up Milling



1. Ball Nose End Mill		2. Flat End Mill	
Speed min^{-1}	Feed m/min	Speed min^{-1}	Feed m/min







aa= mm	ap= mm	aa= mm	ap= mm	aa= mm	ap= mm

Result	Result

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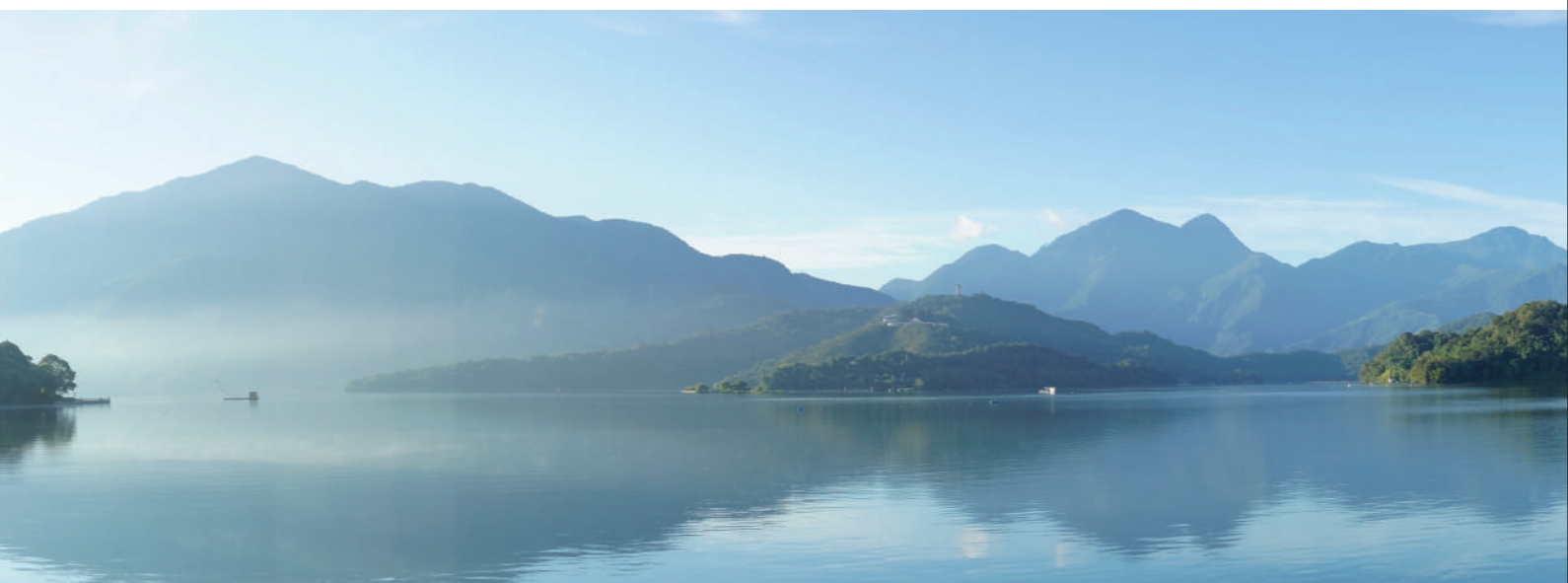
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