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代理商尋求中

Distributor



■台灣專利第M316765號

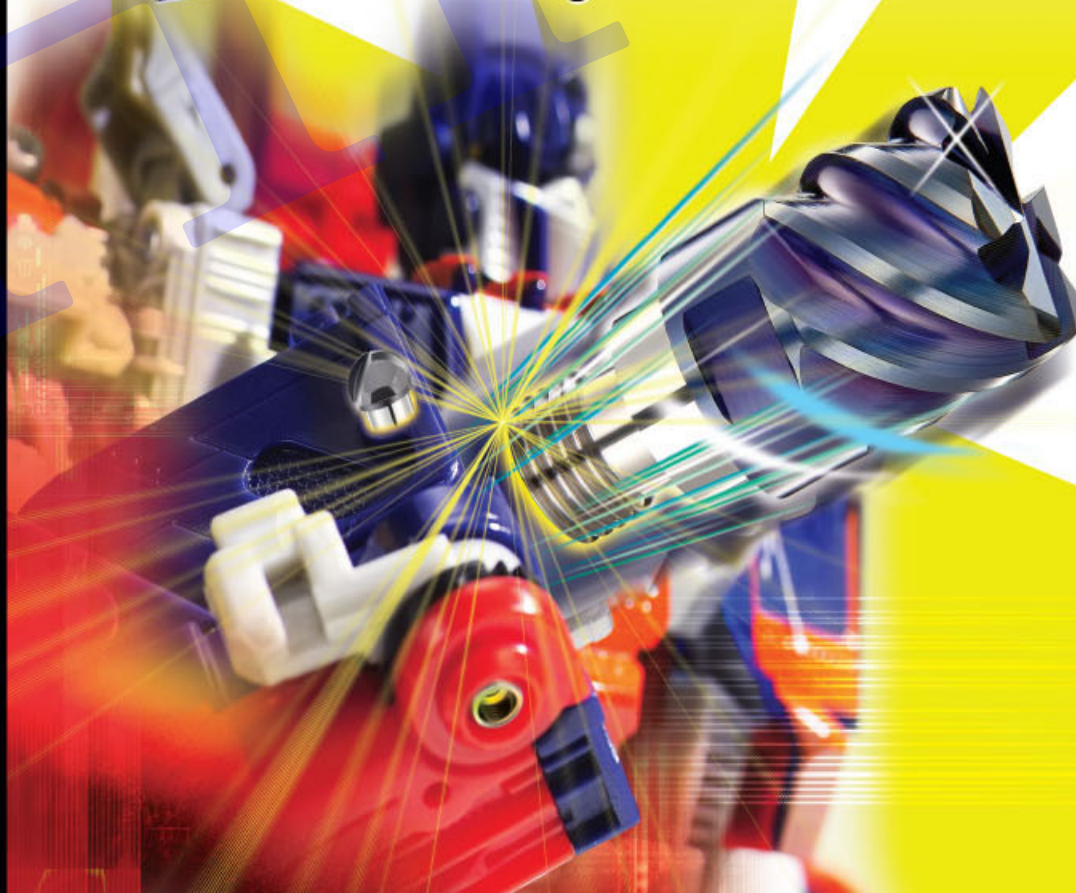
Taiwan patent number M316765.

■中國專利第1005938號

China patent number 1005938.

Exchangeable Head Endmill

變形鎢鋼立銼刀



DH



ODHE

Solid Carbide Shank
抗震鎢鋼刀桿

所有鎢鋼銑刀頭與抗震鎢鋼刀桿組合
之後，其精密度可達0.02mm以下。

The precision will reach 0.02mm
below after the threaded solid
carbide head is combined with
the solid carbide shank.

Exchangeable Head Endmill

變形鎢鋼立銑刀

特長

1. 一般傳統捨棄式刀頭是鎖刀片，穩定性及排屑性較差，無法做大切深，如 0.5D 以上的加工。變形鎢鋼立銑刀，則無此問題。
2. 可換式鎢鋼刀頭和硬質合金刀桿的結合，可以做超大懸深的加工。
3. 特殊角度設計及最新塗層，硬度可切削至 HRC65。
4. 超完美結合，偏擺量在 0.02mm 以內，極高精準度、偏擺量小，刀具壽命相對提高。

*Reduce cost
Preserve natural resources
Environmental friendly*

Regrinding

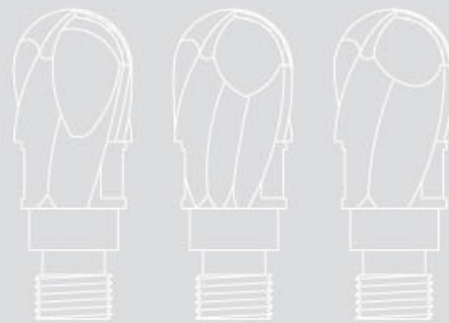
再生研磨

Features

1. Compared to the solid carbide exchangeable head endmill, the traditional throw-away insert is a locking type featuring less stability and poorer chip removal. Machining more than 0.5D is not possible under such circumstances.
2. The combination of the threaded head endmill and the carbide shank determines the large depths of cut.
3. A special angle design and the brand new coating enable to work in hardness up to HRC65.
4. The superior combination controls the run out under 0.02mm. The extremely high accuracy and slight run out relatively extend the tool life.

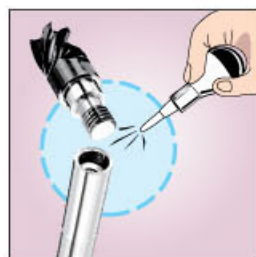
基於保護地球，愛護資源，德信發特別提出「大柄徑銑刀的再生研磨」，目前規劃變形鎢鋼銑刀的有 T-BTB(2 刃)、T-UB(2 刃)、T-UBT(2 刃)、T-UOB 等系列產品研磨再生，並已開始接受再生研磨。

For the sake of environmental protection and resource preservation, DHF presents the regrinding service for big shank endmills. The service is for the exchangeable head endmill series, T-BTB (2 flutes), T-UB (2 flutes), T-UBT (2 flutes) and T-UOB.



Assembly

變形鎢鋼立銑刀的合體過程

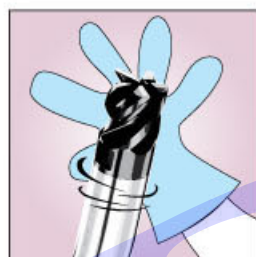


step. 1

請用空氣噴槍清潔刀頭與鎢鋼刀桿。
(請務必做好此清潔步驟，其將影響變形鎢鋼立銑刀合體後的精密度。)

Clean the threaded solid carbide head and the solid carbide shank.

Note: Please complete this step otherwise it would effect the precision.



step. 2

請戴手套，並把刀頭輕輕鎖在鎢鋼刀桿上。

2.1 Wear the gloves.

2.2 Lightly screw the threaded solid carbide head to the solid carbide shank.



step. 3

再將鎢鋼刀桿鎖在刀把上，然後將刀把置放在工具桌上的鎖刀架，再利用板手輕輕鎖緊。
(切勿用力過當)

3.1 Screw the shank to the holder.

3.2 Then place the holder on the Tool Holder Locking Device on the working desk. Use the spanner to screw it tight. (Lightly. Do not force.)



step. 4

完成合體。

Assembly completed.

※注意事項 Attention

鎢鋼刀頭非常銳利，在刀頭鎖上鎢鋼刀桿時，請特別小心拿取，以免刮傷手。

The threaded solid carbide head shall be extremely sharp.

Pay attention while screwing the head to the shank for safety reason.

- 降低成本
- 維護資源
- 保護環境



變形鎢鋼立銑刀，由鎢鋼刀桿及可換鎢鋼銑刀頭構成，可做成各式銑刀頭，如平銑刀、圓頭立銑刀、圓鼻刀、粗銑刀及高硬度銑刀。提供的規格尺寸從直徑12mm-32mm，長度由100L-300L，可自由搭配替換。應用於不同的銑削加工：仿形銑、方肩銑、切斷、開槽。刀桿與刀頭螺紋連接的設計，替換刀頭快捷便利，刀桿無須從機床上取下來。

變形鎢鋼立銑刀是一款高技術的銑刀，可用於高速加工及高硬度加工，其材料具有高韌性及高硬度特質，有優越的耐磨性。重複定位精度高，適用於多數的深腔加工應用。

DHF的變形鎢鋼立銑刀，基於模具加工而研發，提供大懸深的刀桿，加工效率高，且具有更長的壽命，有效地為您降低成本。

The new style system connects solid carbide shank with threaded solid carbide head which can be a variety of configuration-ball nose, flat, Corner radius, roughing and high hardness endmill. A variety of size are available to match up and exchange, Diameter range:12mm to 32 mm, Length range: 100mm to 300mm. The applications include square shoulder, slitting and slotting cutter. Indexing is convenient and accurate.

The high-tech substitute not only apply for high speed machining with excellent toughness, hardness and wear-resistance, but also for a multitude of deep cavity machining applications. This special design is essential for die and mold production, proving long shank potions and efficient machining.

DHF's exchangeable head endmill can reduce your production costs and increase tool life as well. Definitely meet your demands!

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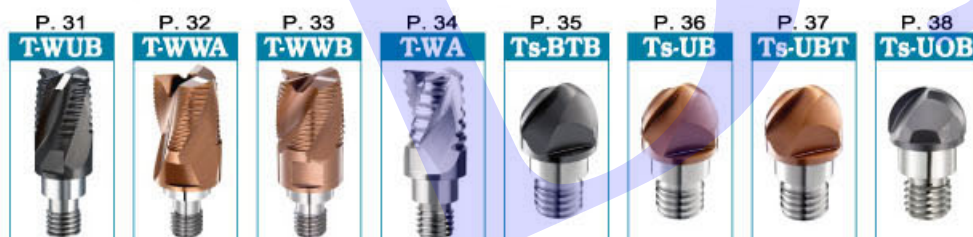
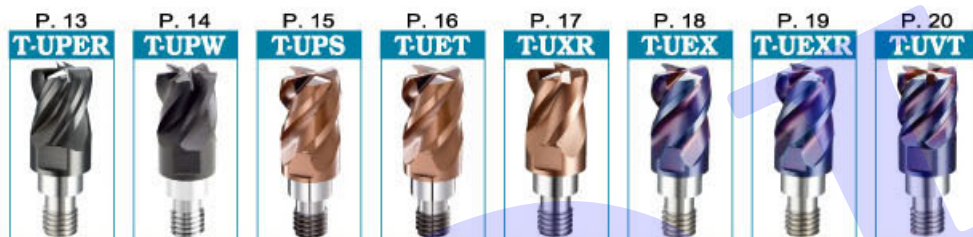
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Guide Lines to Icons

圖解

Carbide



Helix Angle



螺旋角是5°, 20°, 25°, 27°, 30°, 35°, 37°, 40°, 45°.
Helix Angle is 5°, 20°, 25°, 27°, 30°, 35°, 37°, 40°, 45°.

Flute



Grain Size



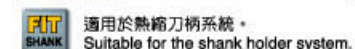
Coating



Roughing



Shank



Corner R



Work Material Hardness



被切削工件硬度可達HRC55, HRC60, HRC62, HRC65。
Work material hardness is up to HRC55, HRC60, HRC62, HRC65.



Spindle Speed Table

主軸速度表

Dia	V (mm/min)														
ø	20	30	40	50	60	70	80	90	100	120	150	180	200	250	300
0.5	12740	19110	25480	31850	38220	44590	50960	57320	63690	76430	95540	114650	127390	159240	191080
0.6	10620	15920	21230	26540	31850	37150	42460	47770	53080	63690	79620	95540	106160	132700	159240
0.7	9100	13650	18200	22750	27300	31850	36400	40950	45500	54590	68240	81890	90990	113740	136490
0.8	7960	11940	15920	19900	23890	27870	31850	35830	39810	47770	59710	71660	79620	99520	119430
0.9	7080	10620	14150	17690	21230	24770	28310	31850	35390	42640	53080	63690	70770	88460	106160
1	6370	9550	12740	15920	19110	22290	25480	28660	31850	38220	47770	57320	63390	79620	95540
2	3180	4780	6370	7960	9550	11150	12740	14330	15920	19110	23890	28660	31850	39810	47770
3	2120	3180	4250	5310	6370	7430	8490	9550	10620	12740	15920	19110	21230	26540	31850
4	1590	2390	3180	3980	4780	5570	6370	7170	7960	9550	11940	14330	15920	19900	23890
5	1270	1910	2550	3180	3820	4460	5100	5730	6370	7640	9550	11460	12740	15920	19110
6	1060	1590	2120	2650	3180	3720	4250	4780	5310	6370	7960	9550	10620	13270	15920
8	800	1190	1590	1990	2390	2790	3180	3580	3980	4780	5970	7170	7960	9950	11940
10	640	960	1270	1590	1910	2230	2550	2870	3180	3820	4780	5730	6370	7960	9550
12	530	800	1060	1330	1590	1860	2120	2390	2650	3180	3980	4780	5310	6630	7960
14	450	680	910	1140	1360	1590	1820	2050	2270	2730	3410	4090	4550	5690	6820
15	420	640	850	1060	1270	1490	1700	1910	2120	2550	3180	3820	4250	5310	6370
16	400	600	800	1000	1190	1390	1590	1790	1990	2390	2990	3580	3980	4980	5970
20	320	480	640	800	960	1110	1270	1430	1590	1910	2390	2870	3180	3980	4780
25	250	380	510	640	760	890	1020	1150	1270	1530	1910	2290	2550	3180	3820

$$V = \frac{\pi D N}{1000}$$

$$F = N \times Z \times f$$

V: 切削速度 Cutting Speed (m/min)

π: Circular constant (3.14)

D: 銑刀直徑 Diameter (mm)

N: 轉速 RPM (min⁻¹)

Z: 銑刀刃數 Number of Flutes

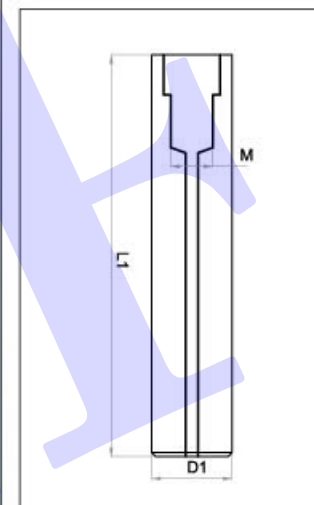
f: 每刃進給 Feed per Tooth (mm/Tooth)

F: 進給 Feed (mm/min)

WDEX

Solid Carbide Shank

Internal Coolant Hole 抗震鎢鋼刀桿 (帶內冷孔)



FIT
SHANK

柄徑 D1 (mm) Shank Dia (h6)	柄徑 D1 (mm) 公差 tolerance
10.0	0 -0.009
12.0	0 -0.011
16.0	0 -0.011
20.0	0 -0.013
25.0	0 -0.013
32.0	0 -0.016

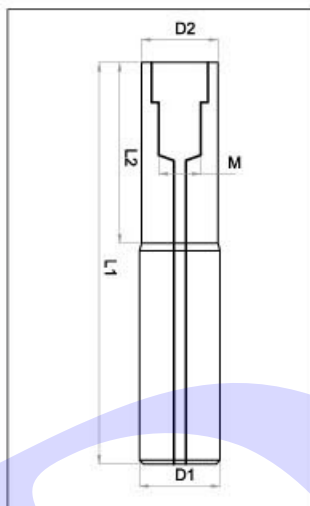
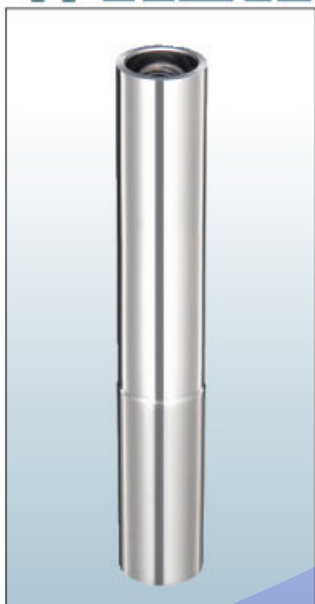
型號 Type No.	柄徑 D1 Shank Dia (h6)	全長 L1 O. A. L.	螺牙 M Thread Size
WDEX-100075	10.0	75	M 7
WDEX-100100	10.0	100	M 7
WDEX-100150	10.0	150	M 7
WDEX-120100	12.0	100	M 8
WDEX-120150	12.0	150	M 8
WDEX-120200	12.0	200	M 8
WDEX-160100	16.0	100	M10
WDEX-160150	16.0	150	M10
WDEX-160200	16.0	200	M10
WDEX-200100	20.0	100	M12
WDEX-200150	20.0	150	M12
WDEX-200200	20.0	200	M12
WDEX-200300	20.0	300	M12
WDEX-250200	25.0	200	M16
WDEX-250300	25.0	300	M16
WDEX-320300	32.0	300	M21

unit: mm

WHEX

Solid Carbide Shank

Internal Coolant Hole 抗震鎢鋼刀桿 (帶內冷孔)



柄徑 D1 (mm) Shank Dia (h6)	柄徑 D1 (mm) 公差值 tolerance
10.0	0 -0.009
12.0	0 -0.011
16.0	0 -0.011
20.0	0 -0.013
25.0	0 -0.013
32.0	0 -0.016

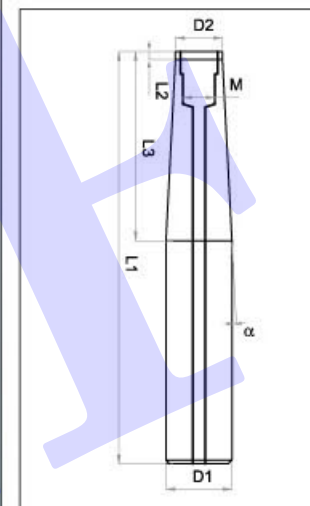
型號 Type No.	頸徑 D2 Neck Dia	全長 L1 O. A. L.	有效長 L2 Effective Length	柄徑 D1 Shank Dia (h6)	螺牙 M Thread Size
WHEX-100075	9.6	75	20	10.0	M 7
WHEX-100100	9.6	100	20	10.0	M 7
WHEX-100150	9.6	150	40	10.0	M 7
WHEX-120100	11.5	100	60	12.0	M 8
WHEX-120150	11.5	150	90	12.0	M 8
WHEX-120200	11.5	200	120	12.0	M 8
WHEX-160100S	15.5	100	40	16.0	M10
WHEX-160100	15.5	100	60	16.0	M10
WHEX-160150	15.5	150	90	16.0	M10
WHEX-160200	15.5	200	120	16.0	M10
WHEX-200100S	19.0	100	40	20.0	M12
WHEX-200100	19.0	100	60	20.0	M12
WHEX-200150	19.0	150	90	20.0	M12
WHEX-200200	19.0	200	120	20.0	M12
WHEX-200300	19.0	300	180	20.0	M12
WHEX-250200	24.0	200	120	25.0	M16
WHEX-250300	24.0	300	180	25.0	M16
WHEX-320300	30.5	300	180	32.0	M21

unit: mm

WFEX

Solid Carbide Shank

Internal Coolant Hole 抗震鎢鋼刀桿 (帶內冷孔)



柄徑 D1 (mm) Shank Dia (h6)	柄徑 D1 (mm) 公差值 tolerance
12.0	0 -0.011
16.0	0 -0.011
20.0	0 -0.013
25.0	0 -0.013
32.0	0 -0.016

型號 Type No.	頸徑 D2 Neck Dia	全長 L1 O. A. L.	有效長 L2 Effective Length	斜頸長 L3 T.A.L.	柄徑 D1 Shank Dia (h6)	螺牙 M Thread Size	斜角 α Taper Angle
WFEX-160100	11.5	100	3	67	16.0	M 8	2
WFEX-160150	11.5	150	3	88	16.0	M 8	1.5
WFEX-160200	11.5	200	3	131	16.0	M 8	1
WFEX-200100	15.5	100	4	68	20.0	M10	2
WFEX-200150	15.5	150	4	89	20.0	M10	1.5
WFEX-200200	15.5	200	4	132	20.0	M10	1
WFEX-250200	19.0	200	6	120	25.0	M12	1.5
WFEX-250300	19.0	300	6	177	25.0	M12	1
WFEX-320300	24.0	300	8	160	32.0	M16	1.5

unit: mm

T-UPE

End Mills

Heavy Duty

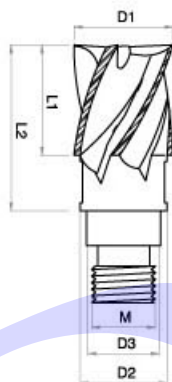
高效能立銑刀



精銑 Finishing

中銑 Semi-finishing

粗銑 Roughing



直徑 D1 (mm)	直徑 D1 (mm) 公差值 tolerance
10.0	0 -0.02
12.0	0 -0.02
16.0	0 -0.02
20.0	0 -0.03
25.0	0 -0.04
32.0	0 -0.04

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-UPE1004	10.0	10	9.6	7.5	16	M 7
T-UPE1204	12.0	12	11.5	9	20	M 8
T-UPE1604	16.0	16	15.5	12	26	M10
T-UPE2004	20.0	20	19.0	14	31	M12
T-UPE2504	25.0	25	24.0	18	37	M16
T-UPE3204	32.0	32	30.5	23	46	M21

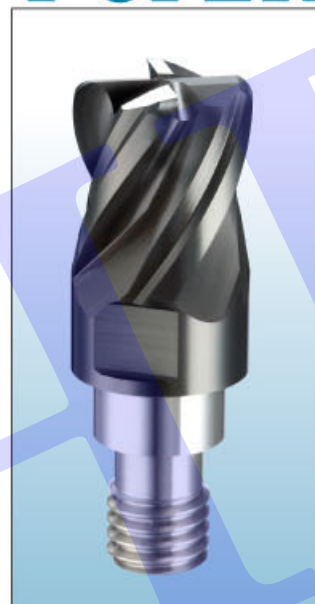
unit: mm

T-UPER

End Mills

Heavy Duty

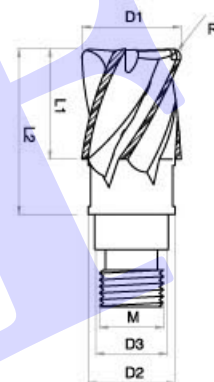
高效能圓鼻角立銑刀



精銑 Finishing

中銑 Semi-finishing

粗銑 Roughing



直徑 D1 (mm)	圓鼻角 R (mm) 公差值 tolerance	直徑 D1 (mm) 公差值 tolerance
10.0	+0.02 0	0 -0.02
12.0	+0.02 0	0 -0.02
16.0	+0.02 0	0 -0.02
20.0	+0.02 0	0 -0.03
25.0	+0.02 0	0 -0.04
32.0	+0.02 0	0 -0.04

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	圓鼻角 R Corner R	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-UPER1005	10.0	10	0.5	9.6	7.5	16	M 7
T-UPER1010	10.0	10	1.0	9.6	7.5	16	M 7
T-UPER1210	12.0	12	1.0	11.5	9	20	M 8
T-UPER1220	12.0	12	2.0	11.5	9	20	M 8
T-UPER1610	16.0	16	1.0	15.5	12	26	M10
T-UPER1620	16.0	16	2.0	15.5	12	26	M10
T-UPER2010	20.0	20	1.0	19.0	14	31	M12
T-UPER2020	20.0	20	2.0	19.0	14	31	M12
T-UPER2030	20.0	20	3.0	19.0	14	31	M12
T-UPER2530	25.0	25	3.0	24.0	18	37	M16
T-UPER2550	25.0	25	5.0	24.0	18	37	M16
T-UPER3230	32.0	32	3.0	30.5	23	46	M21
T-UPER3250	32.0	32	5.0	30.5	23	46	M21

unit: mm

T-UPW End Mills

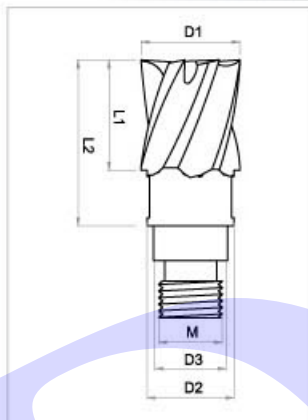
高效能立銑刀



精銑 Finishing

中銑 Semi-finishing

粗銑 Roughing



直徑 D1 (mm)	直徑 D1 (mm) 公差值 tolerance
10.0	0 -0.02
12.0	0 -0.02
16.0	0 -0.02
20.0	0 -0.03
25.0	0 -0.04
32.0	0 -0.04

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-UPW1005	10.0	10	9.6	7.5	16	M 7
T-UPW1205	12.0	12	11.5	9	20	M 8
T-UPW1605	16.0	16	15.5	12	26	M10
T-UPW2005	20.0	20	19.0	14	31	M12
T-UPW2505	25.0	25	24.0	18	37	M16
T-UPW3205	32.0	32	30.5	23	46	M21

unit: mm

T-UPS End Mills

Heavy Duty

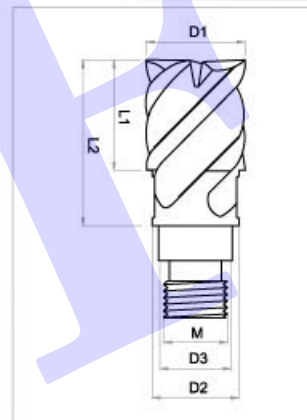
無敵高效能立銑刀



精銑 Finishing

中銑 Semi-finishing

粗銑 Roughing



直徑 D1 (mm)	直徑 D1 (mm) 公差值 tolerance
10.0	0 -0.02
12.0	0 -0.02
16.0	0 -0.02
20.0	0 -0.03
25.0	0 -0.04
32.0	0 -0.04

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-UPS1004	10.0	10	9.6	7.5	16	M 7
T-UPS1204	12.0	12	11.5	9	20	M 8
T-UPS1604	16.0	16	15.5	12	26	M10
T-UPS2004	20.0	20	19.0	14	31	M12
T-UPS2504	25.0	25	24.0	18	37	M16
T-UPS3204	32.0	32	30.5	23	46	M21

unit: mm

T-UET

End Mills

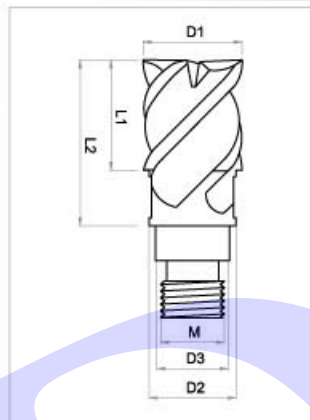
極超微粒立銑刀



精銑 Finishing ☒

中銑 Semi-finishing ☐

粗銑 Roughing ☐



直徑 D1 (mm)	直徑 D1 (mm) 公差值 tolerance
10.0	0 -0.02
12.0	0 -0.02
16.0	0 -0.02
20.0	0 -0.03
25.0	0 -0.04

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-UET1004	10.0	10	9.6	7.5	16	M 7
T-UET1204	12.0	12	11.5	9	20	M 8
T-UET1604	16.0	16	15.5	12	26	M10
T-UET2004	20.0	20	19.0	14	31	M12
T-UET2504	25.0	25	24.0	18	37	M16

unit: mm

T-UXR

End Mills

Corner Radius

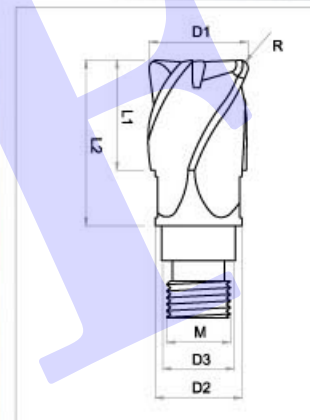
圓鼻角立銑刀



精銑 Finishing ☒

中銑 Semi-finishing ☐

粗銑 Roughing ☐



直徑 D1 (mm)	圓鼻角 R (mm) 公差值 tolerance	直徑 D1 (mm) 公差值 tolerance
10.0	+0.02 0	0 -0.02
12.0	+0.02 0	0 -0.02
16.0	+0.02 0	0 -0.02
20.0	+0.02 0	0 -0.03
25.0	+0.02 0	0 -0.04

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	圓鼻角 R Corner Radius	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-UXR1005	10.0	10	0.5	9.6	7.5	16	M 7
T-UXR1010	10.0	10	1.0	9.6	7.5	16	M 7
T-UXR1205	12.0	12	0.5	11.5	9	20	M 8
T-UXR1210	12.0	12	1.0	11.5	9	20	M 8
T-UXR1605	16.0	16	0.5	15.5	12	26	M10
T-UXR1610	16.0	16	1.0	15.5	12	26	M10
T-UXR1620	16.0	16	2.0	15.5	12	26	M10
T-UXR2010	20.0	20	1.0	19.0	14	31	M12
T-UXR2020	20.0	20	2.0	19.0	14	31	M12
T-UXR2030	20.0	20	3.0	19.0	14	31	M12
T-UXR2530	25.0	25	3.0	24.0	18	37	M16
T-UXR2550	25.0	25	5.0	24.0	18	37	M16

unit: mm

T-UEX**End Mills****High Hardened**

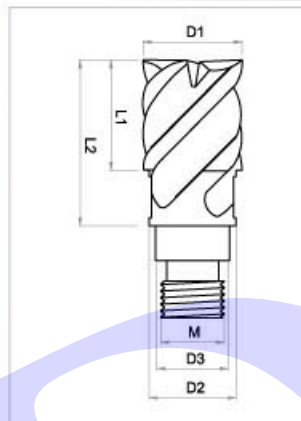
無敵高效能立銑刀



精銑 Finishing ☒

中銑 Semi-finishing ☐

粗銑 Roughing ☐



直徑 D1 (mm)	直徑 D1 (mm) 公差值 tolerance
10.0	0 -0.02
12.0	0 -0.02
16.0	0 -0.02
20.0	0 -0.03
25.0	0 -0.04
32.0	0 -0.04

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-UEX1004	10.0	10	9.6	7.5	16	M 7
T-UEX1204	12.0	12	11.5	9	20	M 8
T-UEX1604	16.0	16	15.5	12	26	M10
T-UEX2004	20.0	20	19.0	14	31	M12
T-UEX2504	25.0	25	24.0	18	37	M16
T-UEX3204	32.0	32	30.5	23	46	M21

unit: mm

T-UEXR**End Mills****High Hardened**

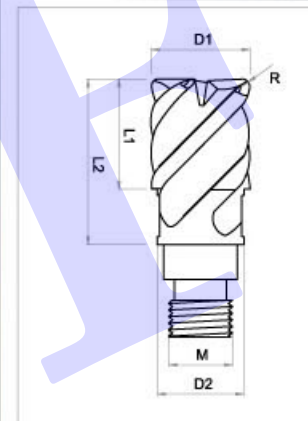
無敵高效能立銑刀



精銑 Finishing ☒

中銑 Semi-finishing ☐

粗銑 Roughing ☐



直徑 D1 (mm)	圓鼻角 R (mm) 公差值 tolerance	直徑 D1 (mm) 公差值 tolerance
10.0	+0.02 0	0 -0.02
12.0	+0.02 0	0 -0.02
16.0	+0.02 0	0 -0.02
20.0	+0.02 0	0 -0.03
25.0	+0.02 0	0 -0.04
32.0	+0.02 0	0 -0.04

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	圓鼻角 R Corner R	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-UEXR1005	10.0	10	0.5	9.6	7.5	16	M 7
T-UEXR1010	10.0	10	1.0	9.6	7.5	16	M 7
T-UEXR1205	12.0	12	0.5	11.5	9	20	M 8
T-UEXR1210	12.0	12	1.0	11.5	9	20	M 8
T-UEXR1220	12.0	12	2.0	11.5	9	20	M 8
T-UEXR1610	16.0	16	1.0	15.5	12	26	M10
T-UEXR1620	16.0	16	2.0	15.5	12	26	M10
T-UEXR1630	16.0	16	3.0	15.5	12	26	M10
T-UEXR2010	20.0	20	1.0	19.0	14	31	M12
T-UEXR2020	20.0	20	2.0	19.0	14	31	M12
T-UEXR2030	20.0	20	3.0	19.0	14	31	M12
T-UEXR2510	25.0	25	1.0	24.0	18	37	M16
T-UEXR2530	25.0	25	3.0	24.0	18	37	M16
T-UEXR2550	25.0	25	5.0	24.0	18	37	M16
T-UEXR3230	32.0	32	3.0	30.5	23	46	M21
T-UEXR3250	32.0	32	5.0	30.5	23	46	M21

unit: mm

T-UVT

End Mills

High Hardness

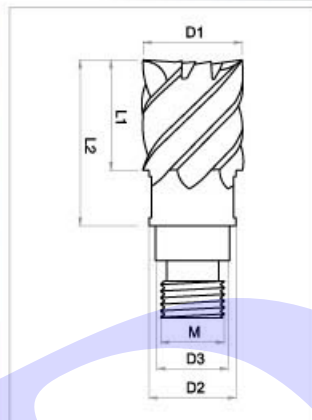
高硬度用立銼刀



精銑 Finishing ☒

中銑 Semi-finishing ☐

粗銑 Roughing ☐



直徑 D1 (mm)	直徑 D1 (mm) 公差值 tolerance
10.0	0 -0.02
12.0	0 -0.02
16.0	0 -0.02
20.0	0 -0.03
25.0	0 -0.04

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-UVT1006	10.0	10	9.6	7.5	16	M 7
T-UVT1206	12.0	12	11.5	9	20	M 8
T-UVT1606	16.0	16	15.5	12	26	M10
T-UVT2006	20.0	20	19.0	14	31	M12
T-UVT2506	25.0	25	24.0	18	37	M16

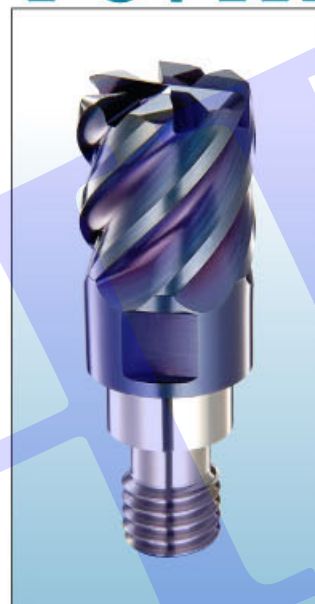
unit: mm

T-UVTR

End Mills

High Hardness

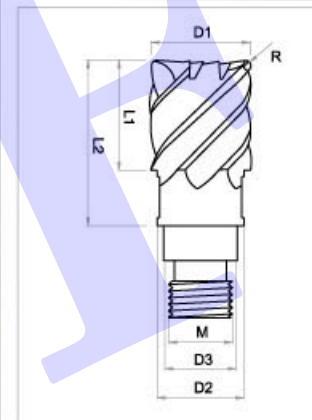
高硬度圓鼻立銼刀



精銑 Finishing ☒

中銑 Semi-finishing ☐

粗銑 Roughing ☐



直徑 D1 (mm)	圓鼻角 R (mm) 公差值 tolerance	直徑 D1 (mm) 公差值 tolerance
10.0	+0.02 0	0 -0.02
12.0	+0.02 0	0 -0.02
16.0	+0.02 0	0 -0.02
20.0	+0.02 0	0 -0.03
25.0	+0.02 0	0 -0.04

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	圓鼻角 R Corner R	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-UVTR1005	10.0	10	0.5	9.6	7.5	16	M 7
T-UVTR1010	10.0	10	1.0	9.6	7.5	16	M 7
T-UVTR1205	12.0	12	0.5	11.5	9	20	M 8
T-UVTR1210	12.0	12	1.0	11.5	9	20	M 8
T-UVTR1605	16.0	16	0.5	15.5	12	26	M10
T-UVTR1610	16.0	16	1.0	15.5	12	26	M10
T-UVTR1620	16.0	16	2.0	15.5	12	26	M10
T-UVTR2010	20.0	20	1.0	19.0	14	31	M12
T-UVTR2020	20.0	20	2.0	19.0	14	31	M12
T-UVTR2510	25.0	25	1.0	24.0	18	37	M16
T-UVTR2520	25.0	25	2.0	24.0	18	37	M16
T-UVTR2530	25.0	25	3.0	24.0	18	37	M16

unit: mm

T-HTA

End Mills

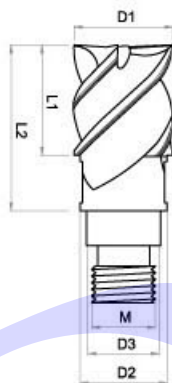
高螺旋立銑刀



精銑 Finishing ☐

中銑 Semi-finishing ☐

粗銑 Roughing ☐



直徑 D1 (mm)	直徑 D1 (mm) 公差值 tolerance
10.0	0 -0.02
12.0	0 -0.02
16.0	0 -0.02
20.0	0 -0.03
25.0	0 -0.04
32.0	0 -0.04

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-HTA1003	10.0	10	9.6	7.5	16	M 7
T-HTA1203	12.0	12	11.5	9	20	M 8
T-HTA1603	16.0	16	15.5	12	26	M10
T-HTA2003	20.0	20	19.0	14	31	M12
T-HTA2503	25.0	25	24.0	18	37	M16
T-HTA3203	32.0	32	30.5	23	46	M21

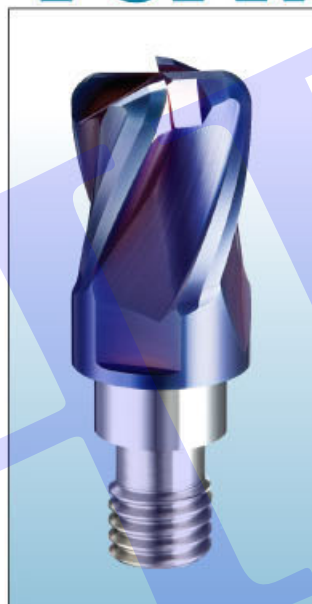
unit: mm

T-UPR

End Mills

Corner Radius

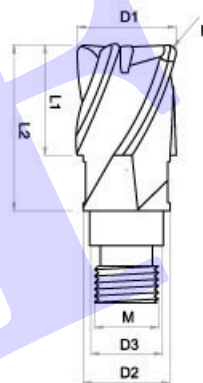
高硬度用圓鼻角立銑刀



精銑 Finishing ☐

中銑 Semi-finishing ☐

粗銑 Roughing ☐



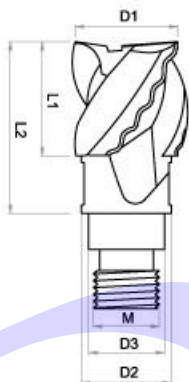
直徑 D1 (mm)	圓鼻角 R (mm) 公差值 tolerance	直徑 D1 (mm) 公差值 tolerance
10.0	+0.02 0	0 -0.02
12.0	+0.02 0	0 -0.02
16.0	+0.02 0	0 -0.02
20.0	+0.02 0	0 -0.03
25.0	+0.02 0	0 -0.04
32.0	+0.02 0	0 -0.04

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	圓鼻角 R Corner R	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-UPR1005	10.0	10	0.5	9.6	7.5	16	M 7
T-UPR1010	10.0	10	1.0	9.6	7.5	16	M 7
T-UPR1210	12.0	12	1.0	11.5	9	20	M 8
T-UPR1220	12.0	12	2.0	11.5	9	20	M 8
T-UPR1610	16.0	16	1.0	15.5	12	26	M10
T-UPR1620	16.0	16	2.0	15.5	12	26	M10
T-UPR1630	16.0	16	3.0	15.5	12	26	M10
T-UPR2010	20.0	20	1.0	19.0	14	31	M12
T-UPR2020	20.0	20	2.0	19.0	14	31	M12
T-UPR2030	20.0	20	3.0	19.0	14	31	M12
T-UPR2050	20.0	20	5.0	19.0	14	31	M12
T-UPR2510	25.0	25	1.0	24.0	18	37	M16
T-UPR2520	25.0	25	2.0	24.0	18	37	M16
T-UPR2530	25.0	25	3.0	24.0	18	37	M16
T-UPR2550	25.0	25	5.0	24.0	18	37	M16
T-UPR3210	32.0	32	1.0	30.5	23	46	M21
T-UPR3230	32.0	32	3.0	30.5	23	46	M21
T-UPR3250	32.0	32	5.0	30.5	23	46	M21

unit: mm

T-UEW**End Mills****Roughing**

龍捲風立銑刀

精銑 Finishing ☐中銑 Semi-finishing ☐粗銑 Roughing ☒

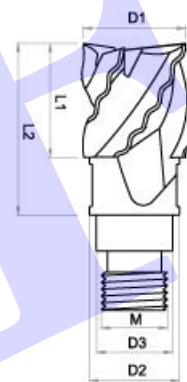
直徑 D1 (mm)	直徑 D1 (mm) 公差值 tolerance
10.0	0 -0.02
12.0	0 -0.02
16.0	0 -0.02
20.0	0 -0.03
25.0	0 -0.04
32.0	0 -0.04

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-UEW1003	10.0	10	9.6	7.5	16	M 7
T-UEW1203	12.0	12	11.5	9	20	M 8
T-UEW1603	16.0	16	15.5	12	26	M10
T-UEW2003	20.0	20	19.0	14	31	M12
T-UEW2503	25.0	25	24.0	18	37	M16
T-UEW3203	32.0	32	30.5	23	46	M21

unit: mm

T-UEW**End Mills****Roughing**

龍捲風立銑刀

精銑 Finishing ☐中銑 Semi-finishing ☐粗銑 Roughing ☒

直徑 D1 (mm)	直徑 D1 (mm) 公差值 tolerance
10.0	0 -0.02
12.0	0 -0.02
16.0	0 -0.02
20.0	0 -0.03
25.0	0 -0.04
32.0	0 -0.04

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-UEW1004	10.0	10	9.6	7.5	16	M 7
T-UEW1204	12.0	12	11.5	9	20	M 8
T-UEW1604	16.0	16	15.5	12	26	M10
T-UEW2004	20.0	20	19.0	14	31	M12
T-UEW2504	25.0	25	24.0	18	37	M16
T-UEW3204	32.0	32	30.5	23	46	M21

unit: mm

T-AEW

End Mills

Roughing

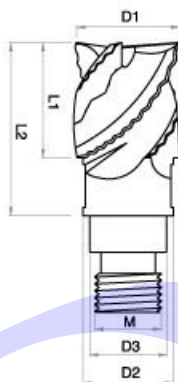
彩虹立銑刀



精銑 Finishing ———

中銑 Semi-finishing ○

粗銑 Roughing ⊙



直徑 D1 (mm)	直徑 D1 (mm) 公差值 tolerance
10.0	0 -0.02
12.0	0 -0.02
16.0	0 -0.02
20.0	0 -0.03
25.0	0 -0.04
32.0	0 -0.04

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-AEW1003	10.0	10	9.6	7.5	16	M 7
T-AEW1203	12.0	12	11.5	9	20	M 8
T-AEW1603	16.0	16	15.5	12	26	M10
T-AEW2003	20.0	20	19.0	14	31	M12
T-AEW2503	25.0	25	24.0	18	37	M16
T-AEW3203	32.0	32	30.5	23	46	M21

unit: mm

T-AEWR

End Mills

Roughing

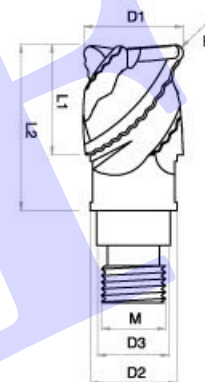
彩虹立銑刀



精銑 Finishing ———

中銑 Semi-finishing ○

粗銑 Roughing ⊙



直徑 D1 (mm)	圓鼻角 R (mm) 公差值 tolerance	直徑 D1 (mm) 公差值 tolerance
10.0	+0.02 0	0 -0.02
12.0	+0.02 0	0 -0.02
16.0	+0.02 0	0 -0.02
20.0	+0.02 0	0 -0.03
25.0	+0.02 0	0 -0.04
32.0	+0.02 0	0 -0.04

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	圓鼻角 R Corner R	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-AEWR1005	10.0	10	0.5	9.6	7.5	16	M 7
T-AEWR1010	10.0	10	1.0	9.6	7.5	16	M 7
T-AEWR1205	12.0	12	0.5	11.5	9	20	M 8
T-AEWR1210	12.0	12	1.0	11.5	9	20	M 8
T-AEWR1610	16.0	16	1.0	15.5	12	26	M10
T-AEWR1620	16.0	16	2.0	15.5	12	26	M10
T-AEWR1630	16.0	16	3.0	15.5	12	26	M10
T-AEWR2010	20.0	20	1.0	19.0	14	31	M12
T-AEWR2020	20.0	20	2.0	19.0	14	31	M12
T-AEWR2030	20.0	20	3.0	19.0	14	31	M12
T-AEWR2510	25.0	25	1.0	24.0	18	37	M16
T-AEWR2530	25.0	25	3.0	24.0	18	37	M16
T-AEWR3230	32.0	32	3.0	30.5	23	46	M21
T-AEWR3250	32.0	32	5.0	30.5	23	46	M21

unit: mm

T-AES

End Mills

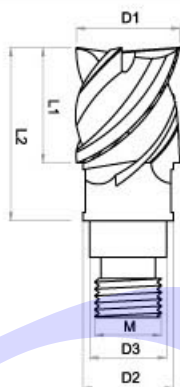
高效能鋁用立銑刀



精銑 Finishing

中銑 Semi-finishing

粗銑 Roughing



直徑 D1 (mm)	直徑 D1 (mm) 公差值 tolerance
10.0	0 -0.02
12.0	0 -0.02
16.0	0 -0.02
20.0	0 -0.03
25.0	0 -0.04
32.0	0 -0.04

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-AES1003	10.0	10	9.6	7.5	16	M 7
T-AES1203	12.0	12	11.5	9	20	M 8
T-AES1603	16.0	16	15.5	12	26	M10
T-AES2003	20.0	20	19.0	14	31	M12
T-AES2503	25.0	25	24.0	18	37	M16
T-AES3203	32.0	32	30.5	23	46	M21

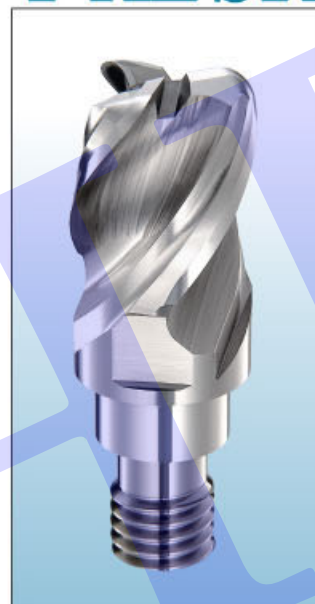
unit: mm

T-AESR

End Mills

Corner Radius

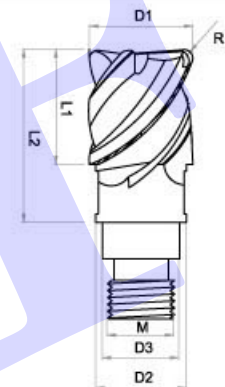
高效能鋁用立銑刀



精銑 Finishing

中銑 Semi-finishing

粗銑 Roughing



直徑 D1 (mm)	圓鼻角 R (mm) 公差值 tolerance	直徑 D1 (mm) 公差值 tolerance
10.0	+0.02 0	0 -0.02
12.0	+0.02 0	0 -0.02
16.0	+0.02 0	0 -0.02
20.0	+0.02 0	0 -0.03
25.0	+0.02 0	0 -0.04
32.0	+0.02 0	0 -0.04

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	圓鼻角 R Corner R	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-AESR1005	10.0	10	0.5	9.6	7.5	16	M 7
T-AESR1010	10.0	10	1.0	9.6	7.5	16	M 7
T-AESR1205	12.0	12	0.5	11.5	9	20	M 8
T-AESR1210	12.0	12	1.0	11.5	9	20	M 8
T-AESR1605	16.0	16	0.5	15.5	12	26	M10
T-AESR1610	16.0	16	1.0	15.5	12	26	M10
T-AESR1630	16.0	16	3.0	15.5	12	26	M10
T-AESR2005	20.0	20	0.5	19.0	14	31	M12
T-AESR2010	20.0	20	1.0	19.0	14	31	M12
T-AESR2030	20.0	20	3.0	19.0	14	31	M12
T-AESR2530	25.0	25	3.0	24.0	18	37	M16
T-AESR3230	32.0	32	3.0	30.5	23	46	M21
T-AESR3250	32.0	32	5.0	30.5	23	46	M21

unit: mm

T-WUA

End Mills

Roughing

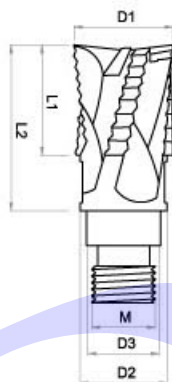
粗齒中目立銑刀



精銑 Finishing -----

中銑 Semi-finishing -----

粗銑 Roughing ◎



型號 Type No.	直徑D1 Diameter	刃長L1 Flute Length	頸徑D2 Neck Dia	配合軸D3 Match Spindle	全長L2 O. A. L.	螺牙M Thread Size
T-WUA1003	10.0	10	9.6	7.5	16	M 7
T-WUA1203	12.0	12	11.5	9	20	M 8
T-WUA1603	16.0	16	15.5	12	26	M10
T-WUA2003	20.0	20	19.0	14	31	M12
T-WUA2503	25.0	25	24.0	18	37	M16
T-WUA3203	32.0	32	30.5	23	46	M21

unit: mm

T-WUB

End Mills

Roughing

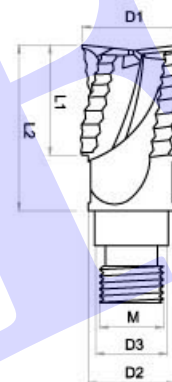
粗齒中目立銑刀



精銑 Finishing -----

中銑 Semi-finishing -----

粗銑 Roughing ◎



型號 Type No.	直徑D1 Diameter	刃長L1 Flute Length	頸徑D2 Neck Dia	配合軸D3 Match Spindle	全長L2 O. A. L.	螺牙M Thread Size
T-WUB1004	10.0	10	9.6	7.5	16	M 7
T-WUB1204	12.0	12	11.5	9	20	M 8
T-WUB1604	16.0	16	15.5	12	26	M10
T-WUB2004	20.0	20	19.0	14	31	M12
T-WUB2504	25.0	25	24.0	18	37	M16
T-WUB3204	32.0	32	30.5	23	46	M21

unit: mm

T-WWA

End Mills

Roughing

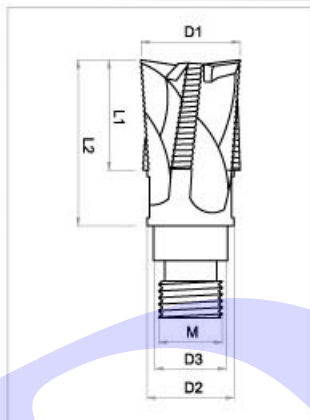
粗齒細目立銑刀



精銑 Finishing -----

中銑 Semi-finishing -----

粗銑 Roughing -----



型號 Type No.	直徑D1 Diameter	刃長L1 Flute Length	頸徑D2 Neck Dia	配合軸D3 Match Spindle	全長L2 O. A. L.	螺牙M Thread Size
T-WWA1003	10.0	10	9.6	7.5	16	M 7
T-WWA1203	12.0	12	11.5	9	20	M 8
T-WWA1603	16.0	16	15.5	12	26	M10
T-WWA2003	20.0	20	19.0	14	31	M12
T-WWA2503	25.0	25	24.0	18	37	M16
T-WWA3203	32.0	32	30.5	23	46	M21

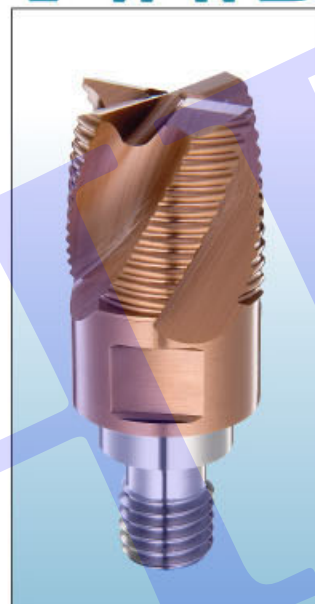
unit: mm

T-WWB

End Mills

Roughing

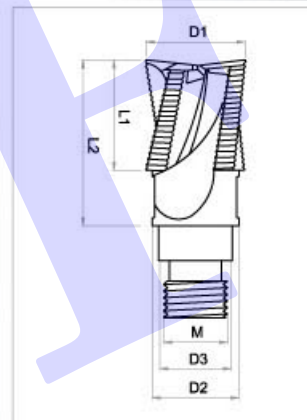
粗齒細目立銑刀



精銑 Finishing -----

中銑 Semi-finishing -----

粗銑 Roughing -----



型號 Type No.	直徑D1 Diameter	刃長L1 Flute Length	頸徑D2 Neck Dia	配合軸D3 Match Spindle	全長L2 O. A. L.	螺牙M Thread Size
T-WWB1004	10.0	10	9.6	7.5	16	M 7
T-WWB1204	12.0	12	11.5	9	20	M 8
T-WWB1604	16.0	16	15.5	12	26	M10
T-WWB2004	20.0	20	19.0	14	31	M12
T-WWB2504	25.0	25	24.0	18	37	M16
T-WWB3204	32.0	32	30.5	23	46	M21

unit: mm

T-WA

End Mills

Roughing

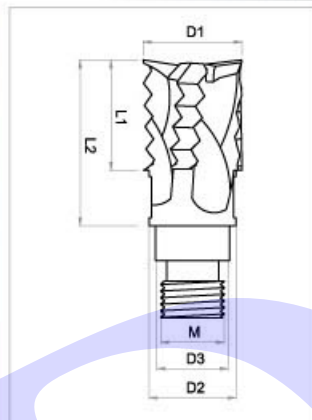
粗齒鋁用立銑刀



精銑 Finishing -----

中銑 Semi-finishing -----

粗銑 Roughing ○



型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-WA1003	10.0	10	9.6	7.5	16	M 7
T-WA1203	12.0	12	11.5	9.0	20	M 8
T-WA1603	16.0	16	15.5	12.0	26	M10
T-WA2003	20.0	20	19.0	14.0	31	M12
T-WA2503	25.0	25	24.0	18.0	37	M16
T-WA3203	32.0	32	30.5	23.0	46	M21

unit: mm

Ts-BTB

Ball Nose End Mills

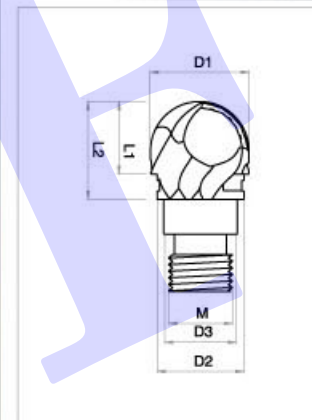
爆丸立銑刀



精銑 Finishing ○

中銑 Semi-finishing ○

粗銑 Roughing ○



直徑 D1 (mm)	R角 R (mm) 公差值 tolerance
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
Ts-BTB1002	R5.0	6	9.6	7.5	9.5	M 7
Ts-BTB1202	R6.0	7	11.5	9.0	10.0	M 8
Ts-BTB1602	R8.0	9	15.5	12.0	12.0	M10
Ts-BTB2002	R10.0	11	19.0	14.0	15.0	M12
Ts-BTB2502	R12.5	14	24.0	18.0	20.0	M16

unit: mm

Ts-UB

Ball Nose End Mills

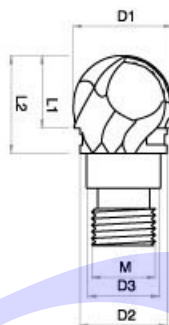
爆丸立銑刀



精銑 Finishing ☒

中銑 Semi-finishing ☐

粗銑 Roughing ☐



直徑 D1 (mm)	R角 R (mm) 公差值 tolerance
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
Ts-UB1002	R5.0	6	9.6	7.5	9.5	M 7
Ts-UB1202	R6.0	7	11.5	9.0	10.0	M 8
Ts-UB1602	R8.0	9	15.5	12.0	12.0	M10
Ts-UB2002	R10.0	11	19.0	14.0	15.0	M12
Ts-UB2502	R12.5	14	24.0	18.0	20.0	M16

unit: mm

Ts-UBT

Ball Nose End Mills

High Hardened

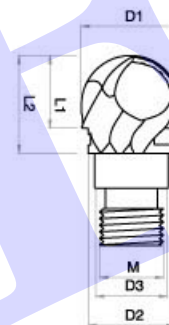
爆丸立銑刀



精銑 Finishing ☒

中銑 Semi-finishing ☐

粗銑 Roughing ☐



直徑 D1 (mm)	R角 R (mm) 公差值 tolerance
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
Ts-UBT1002	R5.0	6	9.6	7.5	9.5	M 7
Ts-UBT1202	R6.0	7	11.5	9.0	10.0	M 8
Ts-UBT1602	R8.0	9	15.5	12.0	12.0	M10
Ts-UBT2002	R10.0	11	19.0	14.0	15.0	M12
Ts-UBT2502	R12.5	14	24.0	18.0	20.0	M16

unit: mm

Ts-UOB

Ball Nose End Mills

High Hardened

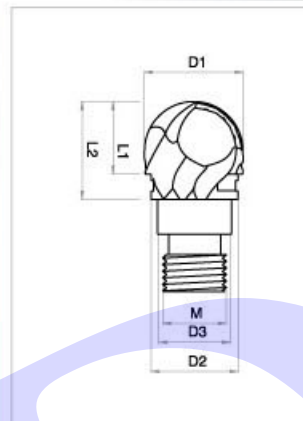
爆丸立銑刀



精銑 Finishing

中銑 Semi-finishing

粗銑 Roughing



直徑 D1 (mm)	R角 R (mm) 公差值 tolerance
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
Ts-UOB1002	R5.0	6	9.6	7.5	9.5	M 7
Ts-UOB1202	R6.0	7	11.5	9	10	M 8
Ts-UOB1602	R8.0	9	15.5	12	12	M10
Ts-UOB2002	R10.0	11	19.0	14	15	M12
Ts-UOB2502	R12.5	14	24.0	18	20	M16

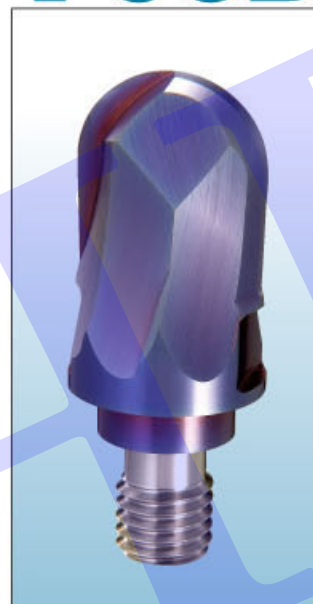
unit: mm

T-UOB

Ball Nose End Mills

High Hardened

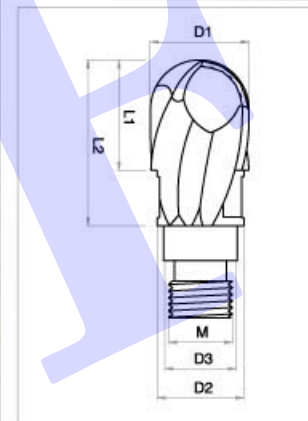
直刃圓頭立銑刀



精銑 Finishing

中銑 Semi-finishing

粗銑 Roughing



直徑 D1 (mm)	R角 R (mm) 公差值 tolerance
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-UOB1002	R5.0	10	9.6	7.5	16	M 7
T-UOB1202	R6.0	12	11.5	9	20	M 8
T-UOB1602	R8.0	16	15.5	12	26	M10
T-UOB2002	R10.0	20	19.0	14	31	M12
T-UOB2502	R12.5	25	24.0	18	37	M16

unit: mm

T-BTB

Ball Nose End Mills

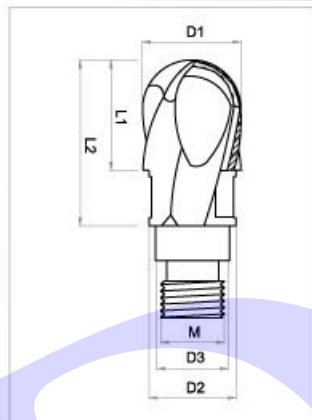
超微粒圓頭立銑刀



精銑 Finishing ☐

中銑 Semi-finishing ☐

粗銑 Roughing ☐



直徑 D1 (mm)	R角 R (mm) 公差值 tolerance
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02
R16.0	±0.02

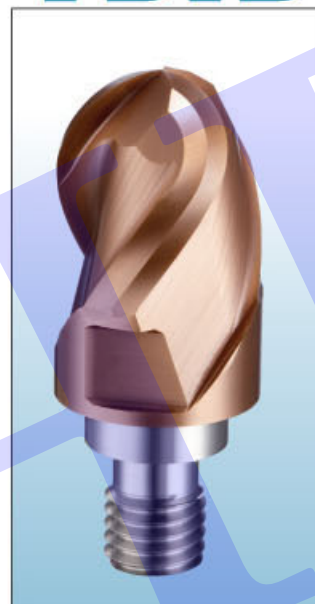
型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-BTB1002	R5.0	10	9.6	7.5	16	M 7
T-BTB1202	R6.0	12	11.5	9	20	M 8
T-BTB1602	R8.0	16	15.5	12	26	M10
T-BTB2002	R10.0	20	19.0	14	31	M12
T-BTB2502	R12.5	25	24.0	18	37	M16
T-BTB3202	R16.0	32	30.5	23	46	M21

unit: mm

T-BTB

Ball Nose End Mills

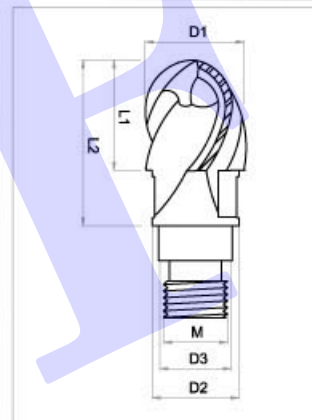
超微粒圓頭立銑刀



精銑 Finishing ☐

中銑 Semi-finishing ☐

粗銑 Roughing ☐



直徑 D1 (mm)	R角 R (mm) 公差值 tolerance
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02
R16.0	±0.02

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-BTB1003	R5.0	10	9.6	7.5	16	M 7
T-BTB1203	R6.0	12	11.5	9	20	M 8
T-BTB1603	R8.0	16	15.5	12	26	M10
T-BTB2003	R10.0	20	19.0	14	31	M12
T-BTB2503	R12.5	25	24.0	18	37	M16
T-BTB3203	R16.0	32	30.5	23	46	M21

unit: mm

T-UB

Ball Nose End Mills

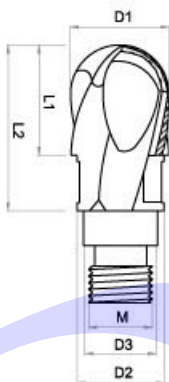
極超微粒圓頭立銑刀



精銑 Finishing

中銑 Semi-finishing

粗銑 Roughing



直徑 D1 (mm)	R角 R (mm) 公差值 tolerance
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02
R16.0	±0.02

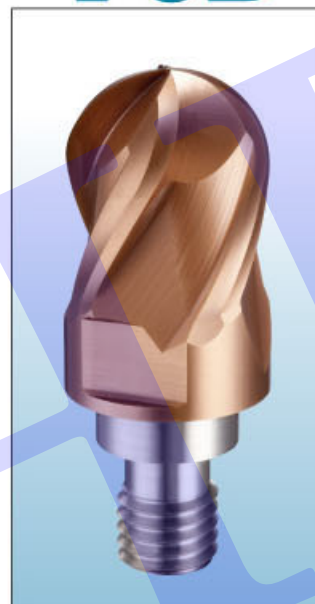
型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-UB1002	R5.0	10	9.6	7.5	16	M 7
T-UB1202	R6.0	12	11.5	9	20	M 8
T-UB1602	R8.0	16	15.5	12	26	M10
T-UB2002	R10.0	20	19.0	14	31	M12
T-UB2502	R12.5	25	24.0	18	37	M16
T-UB3202	R16.0	32	30.5	23	46	M21

unit: mm

T-UB

Ball Nose End Mills

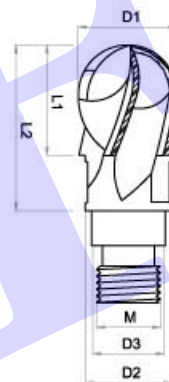
極超微粒圓頭立銑刀



精銑 Finishing

中銑 Semi-finishing

粗銑 Roughing



直徑 D1 (mm)	R角 R (mm) 公差值 tolerance
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02
R16.0	±0.02

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-UB1004	R5.0	10	9.6	7.5	16	M 7
T-UB1204	R6.0	12	11.5	9	20	M 8
T-UB1604	R8.0	16	15.5	12	26	M10
T-UB2004	R10.0	20	19.0	14	31	M12
T-UB2504	R12.5	25	24.0	18	37	M16
T-UB3204	R16.0	32	30.5	23	46	M21

unit: mm

TUBT

Ball Nose End Mills

High Hardened

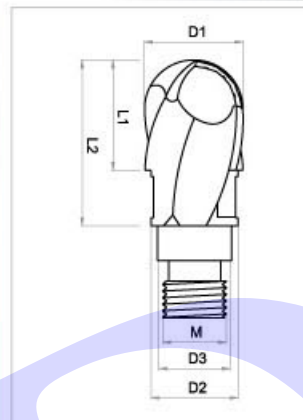
高硬度用圓頭立銑刀



精銑 Finishing

中銑 Semi-finishing

粗銑 Roughing



直徑 D1 (mm)	R角 R (mm) 公差值 tolerance
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-UBT1002	R5.0	10	9.6	7.5	16	M 7
T-UBT1202	R6.0	12	11.5	9	20	M 8
T-UBT1602	R8.0	16	15.5	12	26	M10
T-UBT2002	R10.0	20	19.0	14	31	M12
T-UBT2502	R12.5	25	24.0	18	37	M16

unit: mm

TUBT

Ball Nose End Mills

High Hardened

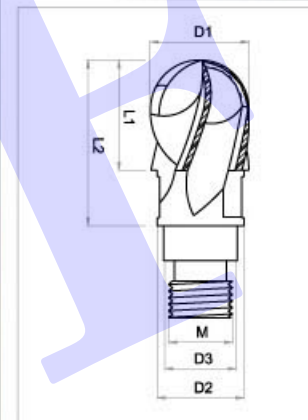
高硬度用圓頭立銑刀



精銑 Finishing

中銑 Semi-finishing

粗銑 Roughing



直徑 D1 (mm)	R角 R (mm) 公差值 tolerance
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-UBT1004	R5.0	10	9.6	7.5	16	M 7
T-UBT1204	R6.0	12	11.5	9	20	M 8
T-UBT1604	R8.0	16	15.5	12	26	M10
T-UBT2004	R10.0	20	19.0	14	31	M12
T-UBT2504	R12.5	25	24.0	18	37	M16

unit: mm

T-BTC

Ball Nose End Mills

Soft Materials

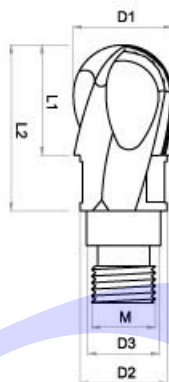
銅鋁用圓頭立銑刀



精銑 Finishing

中銑 Semi-finishing

粗銑 Roughing



直徑 D1 (mm)	R角 R (mm) 公差值 tolerance
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02
R16.0	±0.02

型號 Type No.	直徑 D1 Diameter	刃長 L1 Flute Length	頸徑 D2 Neck Dia	配合軸 D3 Match Spindle	全長 L2 O. A. L.	螺牙 M Thread Size
T-BTC1002	R5.0	10	9.6	7.5	16	M 7
T-BTC1202	R6.0	12	11.5	9	20	M 8
T-BTC1602	R8.0	16	15.5	12	26	M10
T-BTC2002	R10.0	20	19.0	14	31	M12
T-BTC2502	R12.5	25	24.0	18	37	M16
T-BTC3202	R16.0	32	30.5	23	46	M21

unit: mm

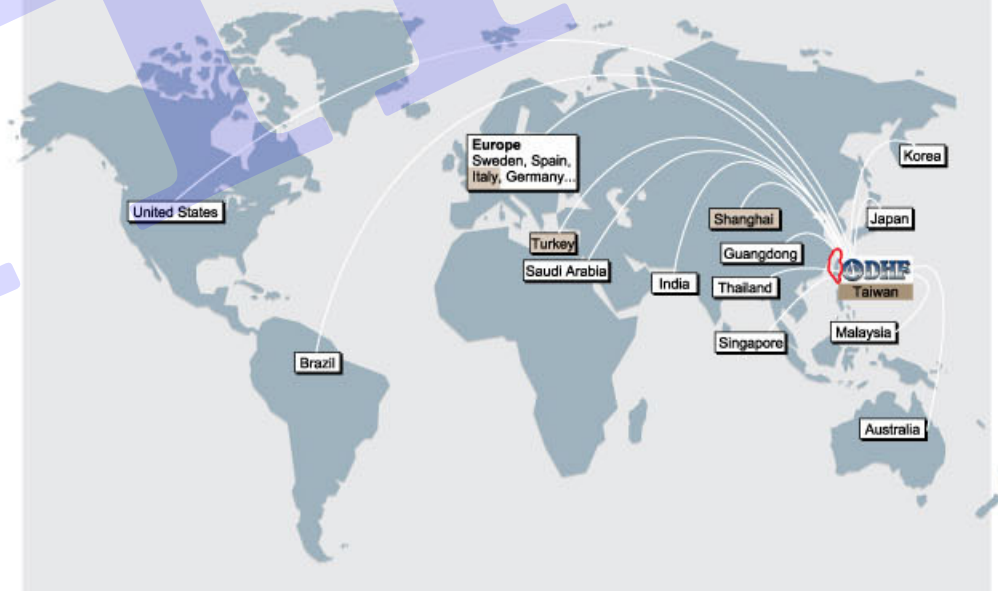
Marketing and Services

全球行銷通路與服務



德信發以台灣總公司為主要營運中心，
以海外分公司為服務及連絡單位。
擁有全世界40多個專業代理商而形成強大行銷網。

DHF's headquarters is based in Taiwan and has abroad companies taking charge of services. With more than 40 professional agents in the worldwide, DHF has a very powerful marketing channel.



www.endmill.com.tw



替換式鎢鋼銑刀頭(帶冷卻水孔)即將發行。

The threaded solid carbide head with internal coolant hole is coming soon.

德信發是台灣Cutting Tool產業中具有研發、生產、行銷、通路，
一貫作業的企業公司，擁有優良的生產技術、
專業的行銷能力、遍及各地的廣大通路市場，以及一流的品牌形象，
德信發堅持給客戶最好的產品，最好的服務，
這也是我們的責任與使命。

DHF stands for an enterprise integrating R&D, manufacturing,
marketing and distribution channel in the filed of cutting tools in Taiwan.
Our excellent manufacturing technology, professional marketing team,
worldwide distribution channel,
and premium brand image are the fundamental elements
that our customers can rely on. In view of mission and duty,
we insist on providing the most outstanding products and
services to our customers.