



二代變形鎢鋼立銑刀

EXCHANGEABLE HEAD ENDMILL II



二代變形鎢鋼立銑刀特長

1. 新型設計三線螺紋刀頭與刀桿完美結合，裝配更容易，整體結構與剛性更佳強化，加工效率更佳。
2. 加入新型錐度配合設計，抵抗力相對提高，進而使精密度更高，同時將偏擺量縮小到 ± 0.008 mm以內，偏擺量小，刀具壽命則相對提高。
3. 基於「保護地球、愛護資源」的理念，全新三螺紋刀頭設計縮短製刀過程，材料更節省，更可達到降低客戶刀具成本的目的。
4. 可更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。
5. 特殊刀具角度設計及最新塗層，將切削硬度提升至HRc 62。

Features of the Second Generation Exchangeable Endmill Series

1. The combination of the new-designed triple thread head and shank makes it much easier to be assembled and strengthens the entire structure and rigidity. The machining efficiency is better.
2. The new taper design not only improves its anti-bending strength and precision but also control the run out within ± 0.008 mm. The small run-out stands for the long tool life.
3. For the sake of environmental protection and resource preservation, the triple-thread head endmill saves more design materials and shortens the producing process, which meets the purpose of reducing the cost for our customers.
4. The combination of the replaceable solid carbide head endmill and hard alloy shank could carry out the large depth cutting.
5. The special designed tool angle and the new coating advances the cutting hardness to HRc62.



Assembly

變形鎢鋼立銑刀的合體過程



步驟一 / STEP 1

請用空氣噴槍清潔刀頭與鎢鋼刀桿。

(請務必做好此一清潔步驟，其將影響變形鎢鋼立銑刀合體後的精密度。)



步驟二 / 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.



步驟三 / STEP 3

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。

3.1 Screw the solid carbide shank to the holder.

3.2 Then place the holder on the Tool Holder Locking Device on the working desk.

Use the spanner to lightly screw it.



步驟四 / STEP 4

完成合體。

Assembly is 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 is extremely sharp. Pay attention while screwing the head to the shank for safety reason.

Operation Note

使用注意事項

A 當刀具組合完成，於加工使用前，需注意其偏擺值，因為偏擺值越小，刀具壽命越佳。
Be aware of the run-out before working. The smaller run-out stands for the longer tool life.

B 使用正確之切削數據：
1. 由於工作母機之廠牌不同、機型不同，因此其機器剛性與主軸扭力值亦不同，故切削條件亦有所差別，需視實際加工情況調整之。
2. 主軸轉速與進給速度，應同時、同一比例調整之。
3. 調整項次2之重點為當加工聲音愈小愈安靜，代表已接近理想之切削數值。
4. 同一把刀，因刀具之伸長量不同，其切削數據也不同，須調整之。
(如伸長量愈長、其切削條件需調降之)

Using the correct cutting parameter :
1. When the machines differ, the rigidity and the spindle torque differ. The cutting data should always be adjusted according to real working condition.
2. Spindle speed and feed should always be adjusted in the same ratio.
3. The low machining sound stands for the ideal cutting data.
4. Even if use the same tool, the cutting data should always be modified according to different tool extension.
(The cutting data should be lower when the tool extension is longer.)

C 使用高剛性強力型刀把，且刀具夾持部需在以下安全值內：
Using a high rigidity tool holder, the holding length must be controlled within the safety range.

Ø8~Ø12	刀具夾持需在40mm以上 More than 40mm
Ø16~Ø25	刀具夾持需在50mm以上 More than 50mm
Ø32以上	刀具夾持需在60mm以上 More than 60mm

所有鎢鋼銑刀頭與抗震鎢鋼刀桿組合之後，其精密度可達±0.008mm以下。

The precision is under ±0.008mm after the threaded solid carbide head is combined with the solid carbide shank.

D 刀具伸長量之要點：
所有切削刀具皆有其伸長量安全值，若超出規範值外，則會產生剛性不佳、切削震動之問題；造成刀具受損，縮短刀具壽命。
Tool extension :
When exceeding the extension safety range, the poor rigidity and vibration will cause tool breakage and short tool life.

平刀與圓鼻刀伸長量規範安全值
Below is the safety range for square and corner radius endmills :

Ø8	50 mm以內	Below 50mm
Ø10	55 mm以內	Below 55mm
Ø12	70 mm以內	Below 70mm
Ø16	125 mm以內	Below 125mm
Ø20	170 mm以內	Below 170mm
Ø25	210 mm以內	Below 210mm
Ø32	260 mm以內	Below 260mm

球刀伸長量規範安全值
Below is the safety range for ball nose endmills :

Ø8	65 mm以內	Below 65mm
Ø10	70 mm以內	Below 70mm
Ø12	100 mm以內	Below 100mm
Ø16	145 mm以內	Below 145mm
Ø20	190 mm以內	Below 190mm
Ø25	240 mm以內	Below 240mm
Ø32	280 mm以內	Below 280mm

★ 若因加工需求，需超出以上規範之伸長量，請調整切削數據並小心使用，因為上述之受損情況可能發生！

If the tool extension exceeds the safety range due to special need, please adjust the cutting data and use it carefully to avoid possible breakage.

Regrinding 再生研磨

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有X-BTB-2T、X-UB-2T、X-UBT-2T、X-UOB等系列產品，並已開始接受再生研磨需求。

For the sake of environmental protection and resource preservation, DHF presents the regrinding service for big shank endmills. The service is available for X-BTB-2T, X-UB-2T, X-UBT-2T and X-UOB series currently.



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X-WDEX P.9										
X-WHEx P.10										
X-WFEx P.11										
X-UOR P.12		★★	★★★	★★★	★★★	★★	★	★	★★★	★★★
X-UEYR P.13		★	★★★	★★★	★★★	★	★	★	★★★	★★★
X-UET P.14		★★	★★★	★★★	★★★	★★	★★	★	★	---
X-UXR P.15		★★★	★★★	★★★	★★★	★★	★★	★	★	---
X-UEX P.16		★	★★	★★★	★★★	★	★	★	★★★	★★★
X-UEXR P.17		★	★★	★★★	★★★	★	★	★	★★★	★★★
X-UPS P.18		★★	★★★	★★★	★★★	★★	★★	★★	★	---
X-UPR P.19		★	★★	★★★	★★★	★	★	★	★★★	★★★
X-UPZ P.20		★★★	★★★	★★★	★★★	★★	★★	★	★	★

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X-UPZO P.21		★★	★★★	★★★	★★★	★★★	★★★	★★★	★★	★
X-UVT P.22		---	★★	★★★	★★★	★	★	★	★★★	★★★
X-UVTR P.23		---	★★	★★★	★★★	★	★	★	★★★	★★★
X-BTB^{2T} P.24		★★★	★★★	★★★	★★★	★★	★★	★	★	---
X-BTB^{3T} P.25		★★★	★★★	★★★	★★★	★★	★★	★	★	---
X-UB^{2T} P.26		★★	★★★	★★★	★★★	★★★	★★★	★★★	★	★★
X-UB^{4T} P.27		★★	★★★	★★★	★★★	★★★	★★★	★★★	★	★★
X-UBT^{2T} P.28		★	★★	★★	★★★	★★★	★★	★	★★★	★★★
X-UBT^{4T} P.29		★	★★	★★	★★★	★★★	★★	★	★★★	★★★
X-BMW P.30		★★★	★★★	★★★	★★★	★★★	★★★	★	★	★★
X-UBY P.31		★	★★	★★★	★★★	★★★	★★★	★	★	★★★
Xs-BTB P.32		★★★	★★★	★★★	★★★	★★	★★	★	★	---

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II

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Xs-UB P.33		★★	★★★	★★★	★★★	★★★	★★★	★	★★	★
Xs-UBT P.34		★	★★	★★	★★★	★★	★	★	★★★	★★★
X-BTC P.35		鋁切削用 FOR ALUMINUM CUTTING								
X-AEW P.36		鋁切削用 FOR ALUMINUM CUTTING								
X-AEWR P.37		鋁切削用 FOR ALUMINUM CUTTING								
X-AES P.38		鋁切削用 FOR ALUMINUM CUTTING								
X-AESR P.39		鋁切削用 FOR ALUMINUM CUTTING								
X-TS P.40		★★★	★★★	★★★	★★★	★★★	★★★	★★	★★	★
X-TD P.41		★★★	★★★	★★★	★★★	★★	★★	★	★★	★
X-TW P.42		★★★	★★★	★★★	★★★	★★★	★★★	★	★★	★★
X-VR P.43		★★	★★	★★	★★	★★★	★★★	★★	★	----
K P.44		鎖固刀頭專用板手 SPANNER								

X-WDEX

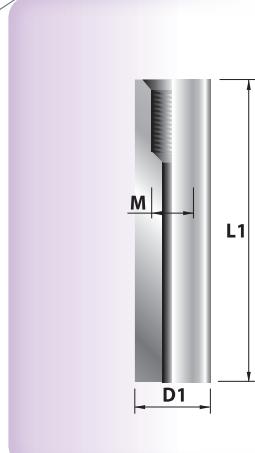
抗震鎢鋼刀桿(內冷孔)
SOLID CARBIDE SHANK (INTERNAL COOLANT HOLE)

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II



公差表 TOLERANCE unit : mm

柄徑 D1(h6)	柄徑公差值 D1 Tolerance
8.0	0 -0.009
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



產品規格 SPECIFICATIONS

型號 Type No.	D1 柄徑 Shank Dia.(h6)	L1 全長 O.A.L.	M 螺牙 Thread Size
X-WDEX-080060	8.0	60	M5-3P
X-WDEX-080075	8.0	75	M5-3P
X-WDEX-080100	8.0	100	M5-3P
X-WDEX-100060	10.0	60	M7-3P
X-WDEX-100075	10.0	75	M7-3P
X-WDEX-100100	10.0	100	M7-3P
X-WDEX-100150	10.0	150	M7-3P
X-WDEX-120060	12.0	60	M8-3P
X-WDEX-120080	12.0	80	M8-3P
X-WDEX-120100	12.0	100	M8-3P
X-WDEX-120150	12.0	150	M8-3P
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

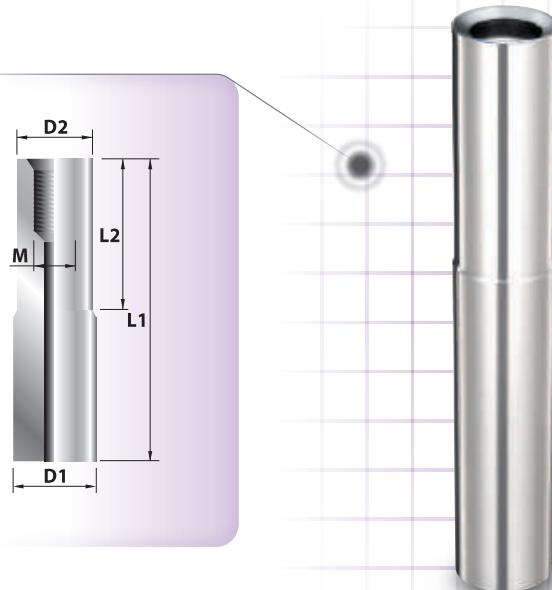
型號 Type No.	D1 柄徑 Shank Dia.(h6)	L1 全長 O.A.L.	M 螺牙 Thread Size
X-WDEX-200080	20.0	80	M12-3P
X-WDEX-200100	20.0	100	M12-3P
X-WDEX-200150	20.0	150	M12-3P
X-WDEX-200200	20.0	200	M12-3P
X-WDEX-200250	20.0	250	M12-3P
X-WDEX-200300	20.0	300	M12-3P
X-WDEX-250100	25.0	100	M16-3P
X-WDEX-250150	25.0	150	M16-3P
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

unit : mm



X-WHEX

抗震鎢鋼刀桿(內冷孔)
SOLID CARBIDE SHANK (INTERNAL COOLANT HOLE)

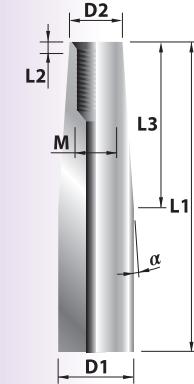


公差表 TOLERANCE unit : mm

柄徑 D1	柄徑公差 D1 Tolerance
8.0	0 -0.009
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

X-WFEX

抗震鎢鋼刀桿(內冷孔)
SOLID CARBIDE SHANK (INTERNAL COOLANT HOLE)



公差表 TOLERANCE unit : mm

柄徑 D1	柄徑公差 D1 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

產品規格 SPECIFICATIONS

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. (h6)	M 螺牙 Thread Size
X-WHEX-080060	7.8	60	15	8.0	M5-3P
X-WHEX-080075	7.8	75	20	8.0	M5-3P
X-WHEX-080100	7.8	100	20	8.0	M5-3P
X-WHEX-100060	9.8	60	15	10.0	M7-3P
X-WHEX-100075	9.8	75	20	10.0	M7-3P
X-WHEX-100100	9.8	100	20	10.0	M7-3P
X-WHEX-100150	9.8	150	40	10.0	M7-3P
X-WHEX-120060	11.7	60	15	12.0	M8-3P
X-WHEX-120080	11.7	80	20	12.0	M8-3P
X-WHEX-120100	11.7	100	60	12.0	M8-3P
X-WHEX-120150	11.7	150	90	12.0	M8-3P
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

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. (h6)	M 螺牙 Thread Size
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

unit : mm

產品規格 SPECIFICATIONS

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.(h6)	M 螺牙 Thread Size	α 斜角 Taper Angle
X-WFEX-120100	9.8	100	2	44	12.0	M7-3P	1.5
X-WFEX-120150	9.8	150	2	65	12.0	M7-3P	1.0
X-WFEX-160100	11.7	100	3	50	16.0	M8-3P	2.0
X-WFEX-160150	11.7	150	3	85	16.0	M8-3P	1.5
X-WFEX-160200	11.7	200	3	126	16.0	M8-3P	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

unit : mm

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EXCHANGEABLE HEAD ENDMILL II

X-UOR

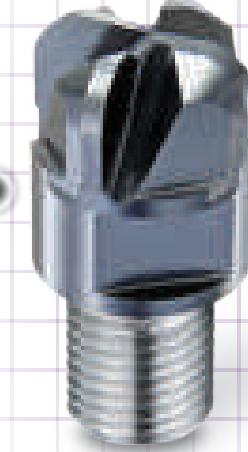
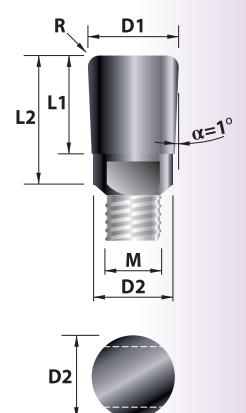
直刃圓鼻角立銑刀頭
END MILLS



切削性能 CUTTING PERFORMANCE

- 精銑 Finishing
- 中銑 Semi-finishing
- 粗銑 Roughing

冷卻性能 COOLANT TYPE



公差表 TOLERANCE unit : mm

柄徑 D1	R徑公差值 R Tolerance
8.0	+0.02 0
10.0	+0.02 0
12.0	+0.02 0
16.0	+0.02 0
20.0	+0.02 0

冷卻性能 COOLANT TYPE



公差表 TOLERANCE unit : mm

直徑 D1	R徑公差值 R Tolerance	直徑公差值 D1 Tolerance
8.0	+0.02 0	-0.02
10.0	+0.02 0	-0.02
12.0	+0.02 0	-0.02
16.0	+0.02 0	-0.02
20.0	+0.02 0	-0.03

產品規格 SPECIFICATIONS

型號 Type No.	D1 直徑 Diameter	L1 刀長 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	M5-3P	K08
X-UOR0820	8.0	3.5	2.0	7.8	10.1	M5-3P	K08
X-UOR1010	10.0	4.0	1.0	9.8	11.1	M7-3P	K10
X-UOR1020	10.0	4.0	2.0	9.8	11.1	M7-3P	K10
X-UOR1110	11.0	4.0	1.0	10.7	11.1	M7-3P	K10
X-UOR1120	11.0	4.0	2.0	10.7	11.1	M7-3P	K10
X-UOR1220	12.0	5.0	2.0	11.7	13.8	M8-3P	K12
X-UOR1230	12.0	5.0	3.0	11.7	13.8	M8-3P	K12
X-UOR1320	13.0	5.0	2.0	12.7	13.8	M8-3P	K12
X-UOR1330	13.0	5.0	3.0	12.7	13.8	M8-3P	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

unit : mm

X-UEYR

直刃圓鼻角立銑刀頭
END MILLS

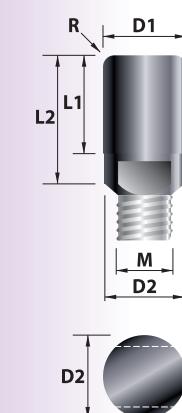
二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II



切削性能 CUTTING PERFORMANCE

- 精銑 Finishing
- 中銑 Semi-finishing
- 粗銑 Roughing

冷卻性能 COOLANT TYPE



公差表 TOLERANCE unit : mm

直徑 D1	R徑公差值 R Tolerance	直徑公差值 D1 Tolerance
8.0	+0.02 0	-0.02
10.0	+0.02 0	-0.02
12.0	+0.02 0	-0.02
16.0	+0.02 0	-0.02
20.0	+0.02 0	-0.03

產品規格 SPECIFICATIONS

型號 Type No.	D1 直徑 Diameter	L1 刀長 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	M5-3P	K08
X-UEYR0820	8.0	3.5	2.0	7.8	10.1	M5-3P	K08
X-UEYR1010	10.0	4.0	1.0	9.8	11.1	M7-3P	K10
X-UEYR1020	10.0	4.0	2.0	9.8	11.1	M7-3P	K10
X-UEYR1220	12.0	5.0	2.0	11.7	13.8	M8-3P	K12
X-UEYR1230	12.0	5.0	3.0	11.7	13.8	M8-3P	K12
X-UEYR1640	16.0	6.5	4.0	15.6	14.7	M10-3P	K16
X-UEYR1650	16.0	8.0	3.0	19.5	18.1	M12-3P	K20
X-UEYR2030	20.0	8.0	5.0	19.5	18.1	M12-3P	K20
X-UEYR2050	20.0	8.0	5.0	19.5	18.1	M12-3P	K20

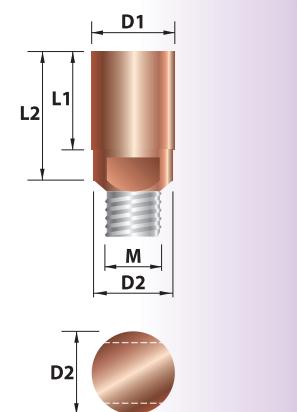
unit : mm

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II



X-UET

極超微粒立銑刀頭
END MILLS



公差表 TOLERANCE unit : mm

直徑 D1	直徑公差值 D1 Tolerance
8.0	0 -0.02
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



公差表 TOLERANCE unit : mm

直徑 D1	R徑公差值 R Tolerance	直徑公差值 D1 Tolerance
8.0	+0.02 0	0 -0.02
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

產品規格 SPECIFICATIONS

型號 Type No.	D1 直徑 Diameter	L1 刀長 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	M5-3P	K08
X-UET1004	10.0	10.0	9.8	16.1	M7-3P	K10
X-UET1204	12.0	12.0	11.7	20.3	M8-3P	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

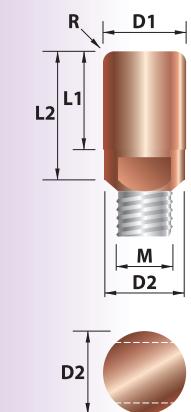
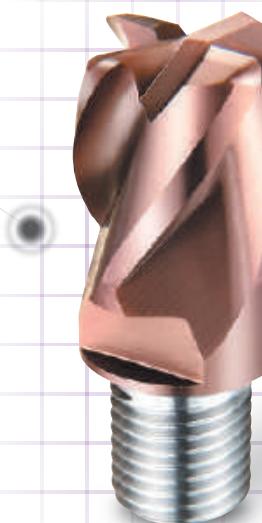
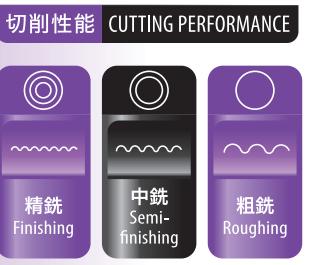
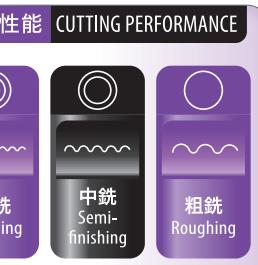
unit : mm

X-UXR

圓鼻角立銑刀頭
END MILLS



二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II



公差表 TOLERANCE unit : mm

直徑 D1	R徑公差值 R Tolerance	直徑公差值 D1 Tolerance
8.0	+0.02 0	0 -0.02
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

產品規格 SPECIFICATIONS

型號 Type No.	D1 直徑 Diameter	L1 刀長 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	M5-3P	K08
X-UXR0805	8.0	8.0	0.5	7.8	12.1	M5-3P	K08
X-UXR0810	8.0	8.0	1.0	7.8	12.1	M5-3P	K08
X-UXR1005	10.0	10.0	0.5	9.8	16.1	M7-3P	K10
X-UXR1010	10.0	10.0	1.0	9.8	16.1	M7-3P	K10
X-UXR1205	12.0	12.0	0.5	11.7	20.3	M8-3P	K12
X-UXR1210	12.0	12.0	1.0	11.7	20.3	M8-3P	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

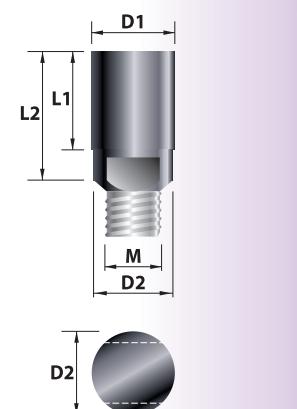
unit : mm

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II



X-UEX

無敵高效能立銑刀頭
END MILLS



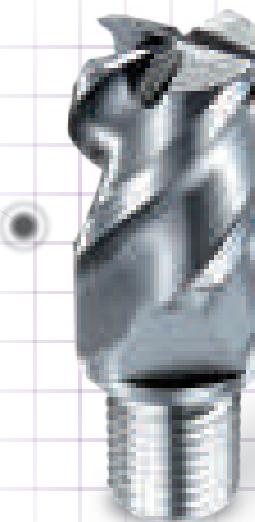
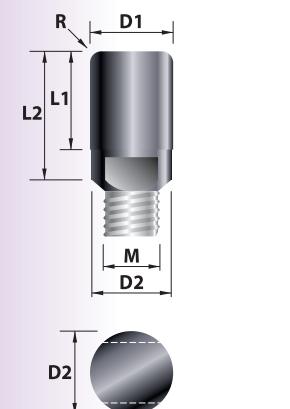
公差表 TOLERANCE unit : mm

直徑 D1	直徑公差值 D1 Tolerance
8.0	-0.02
10.0	-0.02
12.0	-0.02
16.0	-0.02
20.0	-0.03
25.0	-0.04
32.0	-0.04



公差表 TOLERANCE unit : mm

直徑 D1	R徑公差值 R Tolerance	直徑公差值 D1 Tolerance
8.0	+0.02	-0.02
10.0	+0.02	-0.02
12.0	+0.02	-0.02
16.0	+0.02	-0.02
20.0	+0.02	-0.03
25.0	+0.02	-0.04
32.0	+0.02	-0.04



產品規格 SPECIFICATIONS

型號 Type No.	D1 直徑 Diameter	L1 刀長 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	M5-3P	K08
X-UEX1004	10.0	10.0	9.8	16.1	M7-3P	K10
X-UEX1204	12.0	12.0	11.7	20.3	M8-3P	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

unit : mm

型號 Type No.	D1 直徑 Diameter	L1 刀長 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	M5-3P	K08
X-UEXR0805	8.0	8.0	0.5	7.8	12.1	M5-3P	K08
X-UEXR0810	8.0	8.0	1.0	7.8	12.1	M5-3P	K08
X-UEXR1005	10.0	10.0	0.5	9.8	16.1	M7-3P	K10
X-UEXR1010	10.0	10.0	1.0	9.8	16.1	M7-3P	K10
X-UEXR1205	12.0	12.0	0.5	11.7	20.3	M8-3P	K12
X-UEXR1210	12.0	12.0	1.0	11.7	20.3	M8-3P	K12
X-UEXR1220	12.0	12.0	2.0	11.7	20.3	M8-3P	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

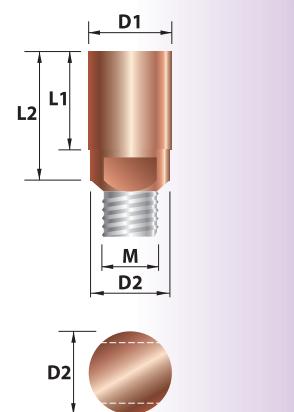
unit : mm

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II



X-UPS

無敵高效能立銑刀頭
END MILLS



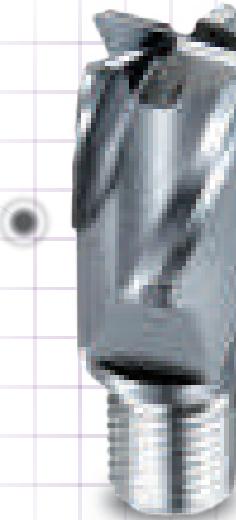
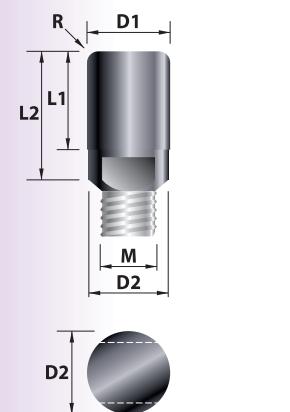
公差表 TOLERANCE unit : mm

直徑 D1	直徑公差值 D1 Tolerance
8.0	-0.02
10.0	-0.02
12.0	-0.02
16.0	-0.02
20.0	-0.03
25.0	-0.04
32.0	-0.04



公差表 TOLERANCE unit : mm

直徑 D1	R徑公差值 R Tolerance	直徑公差值 D1 Tolerance
8.0	+0.02	-0.02
10.0	+0.02	-0.02
12.0	+0.02	-0.02
16.0	+0.02	-0.02
20.0	+0.02	-0.03
25.0	+0.02	-0.04
32.0	+0.02	-0.04



產品規格 SPECIFICATIONS

型號 Type No.	D1 直徑 Diameter	L1 刀長 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	M5-3P	K08
X-UPS1004	10.0	10.0	9.8	16.1	M7-3P	K10
X-UPS1204	12.0	12.0	11.7	20.3	M8-3P	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

unit : mm

型號 Type No.	D1 直徑 Diameter	L1 刀長 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	M5-3P	K08
X-UPR0810	8.0	8.0	1.0	7.8	12.1	M5-3P	K08
X-UPR1005	10.0	10.0	0.5	9.8	16.1	M7-3P	K10
X-UPR1010	10.0	10.0	1.0	9.8	16.1	M7-3P	K10
X-UPR1210	12.0	12.0	1.0	11.7	20.3	M8-3P	K12
X-UPR1220	12.0	12.0	2.0	11.7	20.3	M8-3P	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

unit : mm

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II

NEW

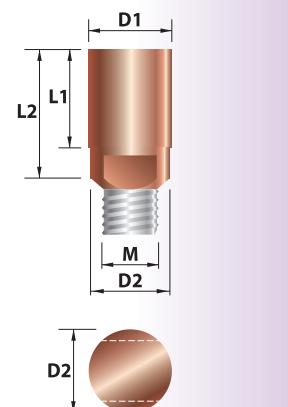


二代變形鎢鋼立銑刀 EXCHANGEABLE HEAD ENDMILL II



X-UPZ

無敵高效能立銑刀頭
END MILLS



公差表 TOLERANCE unit : mm

直徑 D1	直徑公差值 D1 Tolerance
8.0	0 -0.02
10.0	0 -0.02
12.0	0 -0.02
16.0	0 -0.02
20.0	0 -0.03

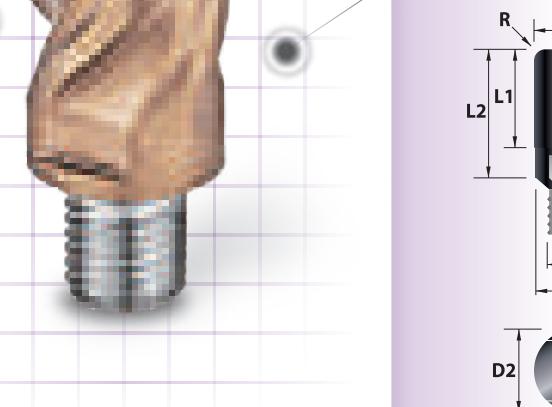
產品規格 SPECIFICATIONS

型號 Type No.	D1 直徑 Diameter	L1 刀長 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-UPZ0804	8.0	8.0	7.8	12.1	M5-3P	K08
X-UPZ1004	10.0	10.0	9.8	16.1	M7-3P	K10
X-UPZ1204	12.0	12.0	11.7	20.3	M8-3P	K12
X-UPZ1604	16.0	16.0	15.6	25.7	M10-3P	K16
X-UPZ2004	20.0	20.0	19.5	31.1	M12-3P	K20

unit : mm

X-UPZO

無敵高效能立銑刀頭(內冷孔)
END MILLS (INTERNAL COOLANT HOLE)



公差表 TOLERANCE unit : mm

直徑 D1	直徑公差值 D1 Tolerance
8.0	0 -0.02
10.0	0 -0.02
12.0	0 -0.02
16.0	0 -0.02
20.0	0 -0.03

產品規格 SPECIFICATIONS

型號 Type No.	D1 直徑 Diameter	L1 刀長 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-UPZ0804	8.0	8.0	7.8	12.1	M5-3P	K08
X-UPZ1004	10.0	10.0	9.8	16.1	M7-3P	K10
X-UPZ1204	12.0	12.0	11.7	20.3	M8-3P	K12
X-UPZ1604	16.0	16.0	15.6	25.7	M10-3P	K16
X-UPZ2004	20.0	20.0	19.5	31.1	M12-3P	K20

unit : mm

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II



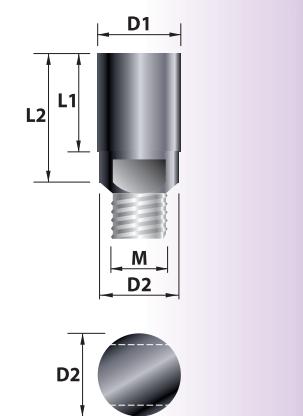
X-UVT

高硬度用立銑刀頭
END MILLS

X-UVTR

高硬度用圓鼻角立銑刀頭
END MILLS

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II



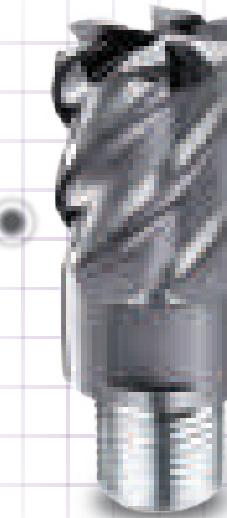
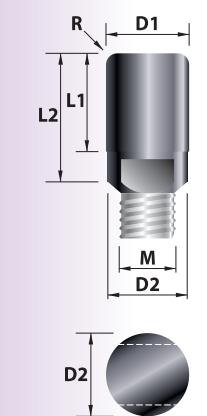
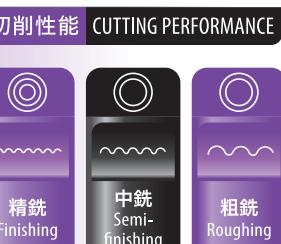
公差表 TOLERANCE unit : mm

直徑 D1	直徑公差值 D1 Tolerance
8.0	0 -0.02
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



公差表 TOLERANCE unit : mm

直徑 D1	R徑公差值 R Tolerance	直徑公差值 D1 Tolerance
8.0	+0.02 0	0 -0.02
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



產品規格 SPECIFICATIONS

型號 Type No.	D1 直徑 Diameter	L1 刀長 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	M5-3P	K08
X-UVT1006	10.0	10.0	9.8	16.1	M7-3P	K10
X-UVT1206	12.0	12.0	11.7	20.3	M8-3P	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

unit : mm

型號 Type No.	D1 直徑 Diameter	L1 刀長 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	M5-3P	K08
X-UVTR0810	8.0	8.0	1.0	7.8	12.1	M5-3P	K08
X-UVTR1005	10.0	10.0	0.5	9.8	16.1	M7-3P	K10
X-UVTR1010	10.0	10.0	1.0	9.8	16.1	M7-3P	K10
X-UVTR1205	12.0	12.0	0.5	11.7	20.3	M8-3P	K12
X-UVTR1210	12.0	12.0	1.0	11.7	20.3	M8-3P	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

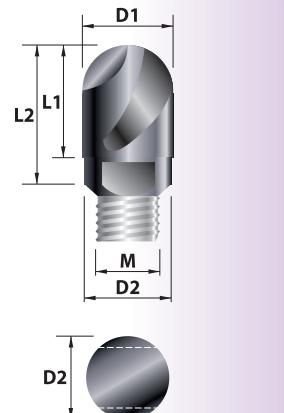
unit : mm

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II



X-BTB^{2T}

超微粒圓頭立銑刀頭
BALL NOSE END MILLS



公差表 TOLERANCE unit : mm

直徑 D1	球頭公差值 R Tolerance
R4.0	±0.02
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02
R16.0	±0.02



公差表 TOLERANCE unit : mm

直徑 D1	球頭公差值 R Tolerance
R4.0	±0.02
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02
R16.0	±0.02

產品規格 SPECIFICATIONS

型號 Type No.	D1 直徑 Diameter	L1 刀長 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	R4.0	8.0	7.8	12.1	M5-3P	K08
X-BTB1002	R5.0	10.0	9.8	16.1	M7-3P	K10
X-BTB1202	R6.0	12.0	11.7	20.3	M8-3P	K12
X-BTB1602	R8.0	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

unit : mm

產品規格 SPECIFICATIONS

型號 Type No.	D1 直徑 Diameter	L1 刀長 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	R4.0	8.0	7.8	12.1	M5-3P	K08
X-BTB1003	R5.0	10.0	9.8	16.1	M7-3P	K10
X-BTB1203	R6.0	12.0	11.7	20.3	M8-3P	K12
X-BTB1603	R8.0	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

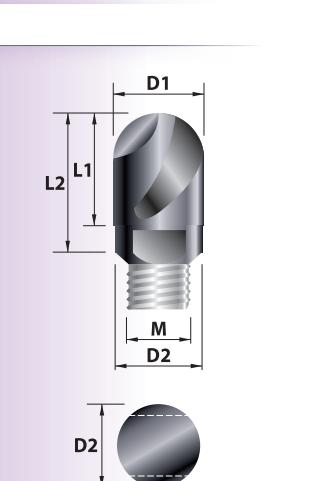
unit : mm

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II



X-BTB^{3T}

超微粒圓頭立銑刀頭
BALL NOSE END MILLS



公差表 TOLERANCE unit : mm

直徑 D1	球頭公差值 R Tolerance
R4.0	±0.02
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02
R16.0	±0.02

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II

X-UB2T

極超微粒圓頭立銑刀頭
BALL NOSE END MILLS

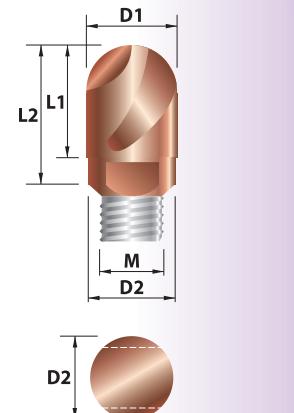


切削性能 CUTTING PERFORMANCE

- 精銑 Finishing
- 中銑 Semi-finishing
- 粗銑 Roughing

冷卻性能 COOLANT TYPE

- 乾式切削 Dry Machining
- 油霧切削 MQL(Mist)
- 水溶性切削 Emulsion Machining
- 油性切削 Oil Machining



公差表 TOLERANCE unit : mm

直徑 D1	球頭公差值 R Tolerance
R4.0	±0.02
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02
R16.0	±0.02

X-UB4T

極超微粒圓頭立銑刀頭
BALL NOSE END MILLS



冷卻性能 COOLANT TYPE

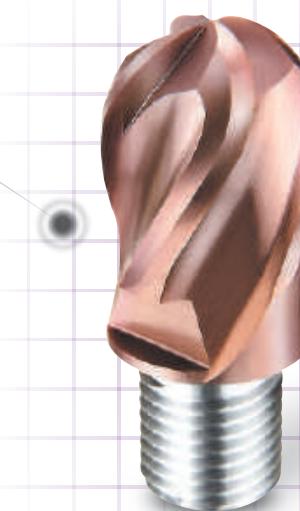
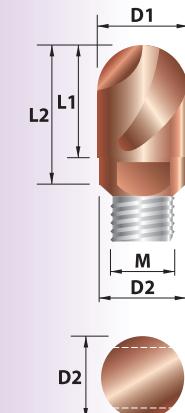
- 乾式切削 Dry Machining
- 油霧切削 MQL(Mist)
- 水溶性切削 Emulsion Machining
- 油性切削 Oil Machining

公差表 TOLERANCE unit : mm

直徑 D1	球頭公差值 R Tolerance
R4.0	±0.02
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02
R16.0	±0.02

切削性能 CUTTING PERFORMANCE

- 精銑 Finishing
- 中銑 Semi-finishing
- 粗銑 Roughing



產品規格 SPECIFICATIONS

型號 Type No.	D1 直徑 Diameter	L1 刀長 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	R4.0	8.0	7.8	12.1	M5-3P	K08
X-UB1002	R5.0	10.0	9.8	16.1	M7-3P	K10
X-UB1202	R6.0	12.0	11.7	20.3	M8-3P	K12
X-UB1602	R8.0	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

unit : mm

產品規格 SPECIFICATIONS

型號 Type No.	D1 直徑 Diameter	L1 刀長 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	R4.0	8.0	7.8	12.1	M5-3P	K08
X-UB1004	R5.0	10.0	9.8	16.1	M7-3P	K10
X-UB1204	R6.0	12.0	11.7	20.3	M8-3P	K12
X-UB1604	R8.0	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

unit : mm

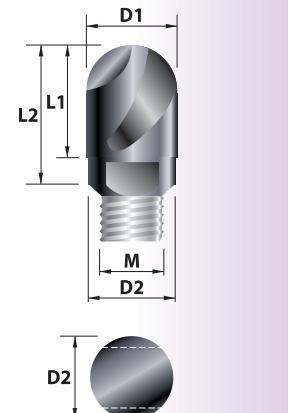
二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II



X-UBT^{2T}

高硬度用圓頭立銑刀頭
BALL NOSE END MILLS



公差表 TOLERANCE unit : mm

直徑 D1	球頭公差值 R Tolerance
R4.0	±0.02
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02



公差表 TOLERANCE unit : mm

直徑 D1	球頭公差值 R Tolerance
R4.0	±0.02
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02

產品規格 SPECIFICATIONS

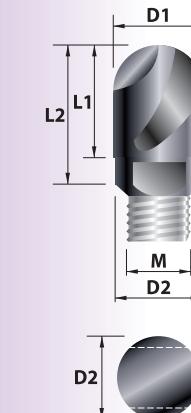
型號 Type No.	D1 直徑 Diameter	L1 刀長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-UBT0802	R4.0	8.0	7.8	12.1	M5-3P	K08
X-UBT1002	R5.0	10.0	9.8	16.1	M7-3P	K10
X-UBT1202	R6.0	12.0	11.7	20.3	M8-3P	K12
X-UBT1602	R8.0	16.0	15.6	25.7	M10-3P	K16
X-UBT2002	R10.0	20.0	19.5	31.1	M12-3P	K20
X-UBT2502	R12.5	25.0	24.4	39.3	M16-3P	K25

unit : mm

X-UBT^{4T}

高硬度用圓頭立銑刀頭
BALL NOSE END MILLS

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II



公差表 TOLERANCE unit : mm

直徑 D1	球頭公差值 R Tolerance
R4.0	±0.02
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02

產品規格 SPECIFICATIONS

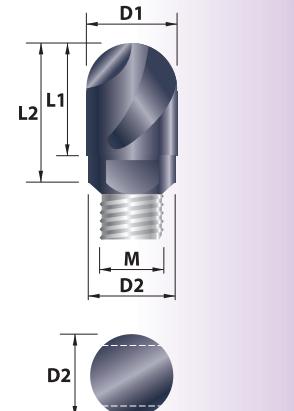
型號 Type No.	D1 直徑 Diameter	L1 刀長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-UBT0804	R4.0	8.0	7.8	12.1	M5-3P	K08
X-UBT1004	R5.0	10.0	9.8	16.1	M7-3P	K10
X-UBT1204	R6.0	12.0	11.7	20.3	M8-3P	K12
X-UBT1604	R8.0	16.0	15.6	25.7	M10-3P	K16
X-UBT2004	R10.0	20.0	19.5	31.1	M12-3P	K20
X-UBT2504	R12.5	25.0	24.4	39.3	M16-3P	K25

unit : mm

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II

X-BMW

粗齒圓頭立銑刀頭
BALL NOSE END MILLS



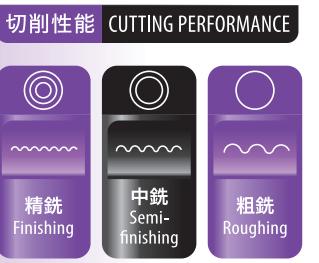
公差表 TOLERANCE unit : mm

直徑 D1	球頭公差值 R Tolerance
R4.0	±0.02
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02
R15.0	±0.02
R16.0	±0.02

X-UBY

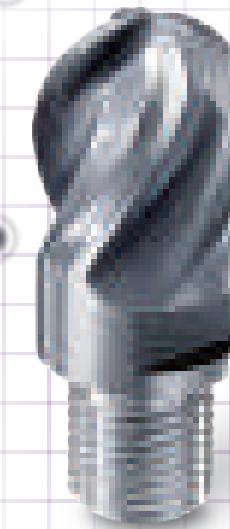
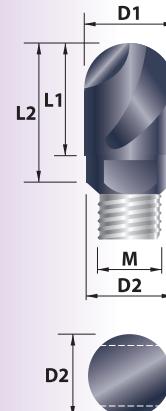
極超微粒圓頭立銑刀頭
BALL NOSE END MILLS

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II



公差表 TOLERANCE unit : mm

直徑 D1	球頭公差值 R Tolerance
R4.0	±0.02
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02
R15.0	±0.02
R16.0	±0.02



產品規格 SPECIFICATIONS

型號 Type No.	D1 直徑 Diameter	L1 刀長 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	M5-3P	K08
X-BMW1004	R 5.0	10.0	9.8	16.1	M7-3P	K10
X-BMW1204	R 6.0	12.0	11.7	20.3	M8-3P	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

unit : mm

產品規格 SPECIFICATIONS

型號 Type No.	D1 直徑 Diameter	L1 刀長 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	M5-3P	K08
X-UBY1004	R 5.0	10.0	9.8	16.1	M7-3P	K10
X-UBY1204	R 6.0	12.0	11.7	20.3	M8-3P	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

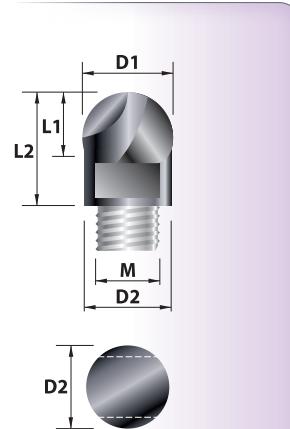
unit : mm

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II



Xs-BTB

爆丸球刀頭
BALL NOSE END MILLS



公差表 TOLERANCE unit : mm

直徑 D1	球頭公差值 R Tolerance
R4.0	±0.02
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02

Xs-UB

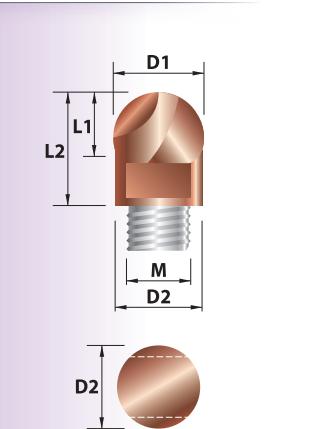
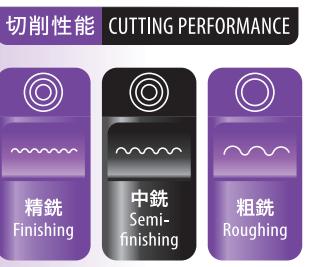
爆丸球刀頭
BALL NOSE END MILLS



公差表 TOLERANCE unit : mm

直徑 D1	球頭公差值 R Tolerance
R4.0	±0.02
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II



產品規格 SPECIFICATIONS

型號 Type No.	D1 直徑 Diameter	L1 刀長 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	M5-3P	K08
Xs-BTB1002	R 5.0	7.0	9.8	11.1	M7-3P	K10
Xs-BTB1202	R 6.0	9.0	11.7	13.8	M8-3P	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

unit : mm

型號 Type No.	D1 直徑 Diameter	L1 刀長 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	M5-3P	K08
Xs-UB1002	R 5.0	7.0	9.8	11.1	M7-3P	K10
Xs-UB1202	R 6.0	9.0	11.7	13.8	M8-3P	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

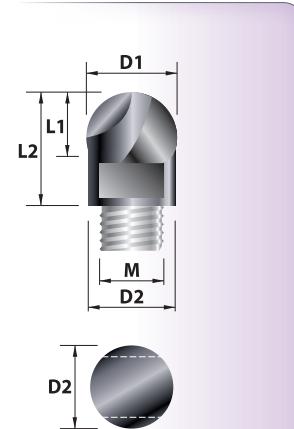
unit : mm

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II



Xs-UBT

爆丸球刀頭
BALL NOSE END MILLS



公差表 TOLERANCE unit : mm

直徑 D1	球頭公差值 R Tolerance
R4.0	±0.02
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02



公差表 TOLERANCE unit : mm

直徑 D1	球頭公差值 R Tolerance
R4.0	±0.02
R5.0	±0.02
R6.0	±0.02
R8.0	±0.02
R10.0	±0.02
R12.5	±0.02
R16.0	±0.02

產品規格 SPECIFICATIONS

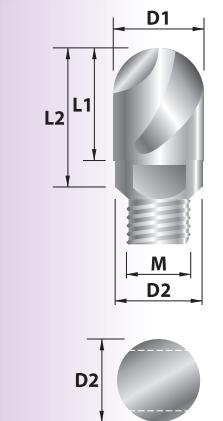
型號 Type No.	D1 直徑 Diameter	L1 刀長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
Xs-UBT0802	R 4.0	6.0	7.8	10.1	M5-3P	K08
Xs-UBT1002	R 5.0	7.0	9.8	11.1	M7-3P	K10
Xs-UBT1202	R 6.0	9.0	11.7	13.8	M8-3P	K12
Xs-UBT1602	R 8.0	10.0	15.6	14.7	M10-3P	K16
Xs-UBT2002	R10.0	12.0	19.5	18.1	M12-3P	K20
Xs-UBT2502	R12.5	16.0	24.4	22.3	M16-3P	K25

unit : mm

X-BTC

銅鋁用圓頭立銑刀頭
BALL NOSE END MILLS

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II



產品規格 SPECIFICATIONS

型號 Type No.	D1 直徑 Diameter	L1 刀長 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	R4.0	8.0	7.8	12.1	M5-3P	K08
X-BTC1002	R5.0	10.0	9.8	16.1	M7-3P	K10
X-BTC1202	R6.0	12.0	11.7	20.3	M8-3P	K12
X-BTC1602	R8.0	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

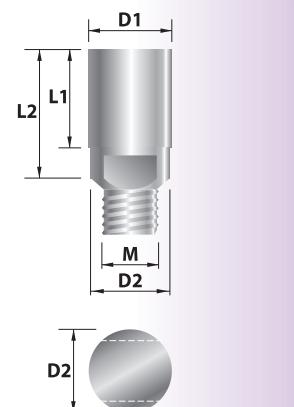
unit : mm

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II



X-AEW

彩虹立銑刀頭
END MILLS



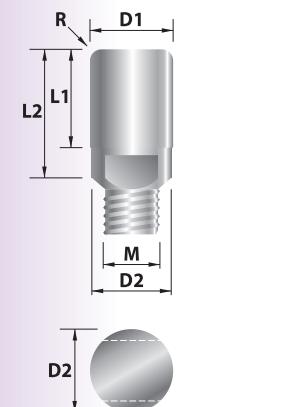
公差表 TOLERANCE unit : mm

直徑 D1	直徑公差值 D1 Tolerance
8.0	-0.02
10.0	-0.02
12.0	-0.02
16.0	-0.02
20.0	-0.03
25.0	-0.04
32.0	-0.04



公差表 TOLERANCE unit : mm

直徑 D1	R徑公差值 R Tolerance	直徑公差值 D1 Tolerance
8.0	+0.02	-0.02
10.0	+0.02	-0.02
12.0	+0.02	-0.02
16.0	+0.02	-0.02
20.0	+0.02	-0.03
25.0	+0.02	-0.04
32.0	+0.02	-0.04



產品規格 SPECIFICATIONS

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	M5-3P	K08
X-AEW1003	10.0	10.0	9.8	16.1	M7-3P	K10
X-AEW1203	12.0	12.0	11.7	20.3	M8-3P	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

unit : mm

產品規格 SPECIFICATIONS

型號 Type No.	D1 直徑 Diameter	L1 刀長 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	M5-3P	K08
X-AEWR0810	8.0	8.0	1.0	7.8	12.1	M5-3P	K08
X-AEWR1005	10.0	10.0	0.5	9.8	16.1	M7-3P	K10
X-AEWR1010	10.0	10.0	1.0	9.8	16.1	M7-3P	K10
X-AEWR1205	12.0	12.0	0.5	11.7	20.3	M8-3P	K12
X-AEWR1210	12.0	12.0	1.0	11.7	20.3	M8-3P	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

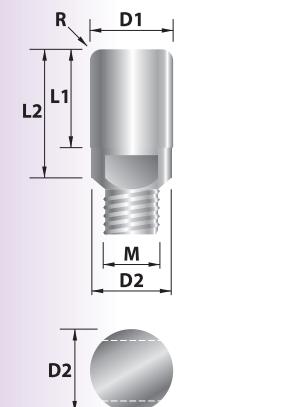
unit : mm

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II

X-AEWR

彩虹立銑刀頭
END MILLS

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II

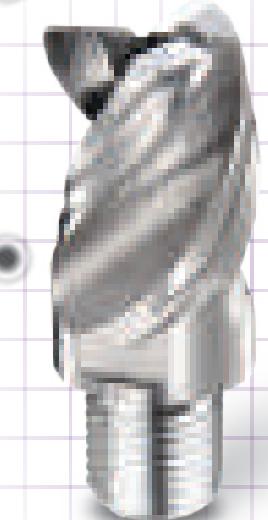
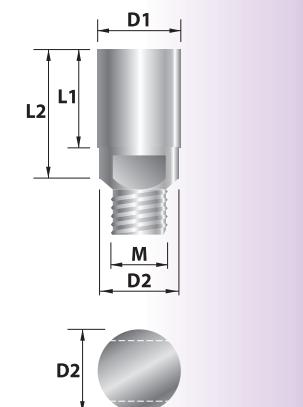


二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II



X-AES

高效能鋁用立銑刀頭
END MILLS



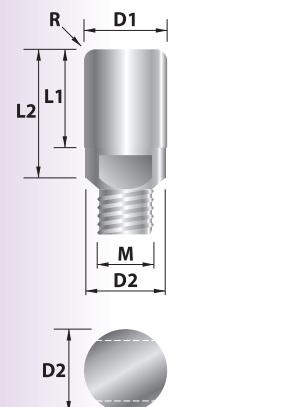
公差表 TOLERANCE unit : mm

直徑 D1	直徑公差值 D1 Tolerance
8.0	-0.02
10.0	-0.02
12.0	-0.02
16.0	-0.02
20.0	-0.03
25.0	-0.04
32.0	-0.04



公差表 TOLERANCE unit : mm

直徑 D1	R徑公差值 R Tolerance	直徑公差值 D1 Tolerance
8.0	+0.02	-0.02
10.0	+0.02	-0.02
12.0	+0.02	-0.02
16.0	+0.02	-0.02
20.0	+0.02	-0.03
25.0	+0.02	-0.04
32.0	+0.02	-0.04



X-AESR

高效能鋁用立銑刀頭
END MILLS

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II



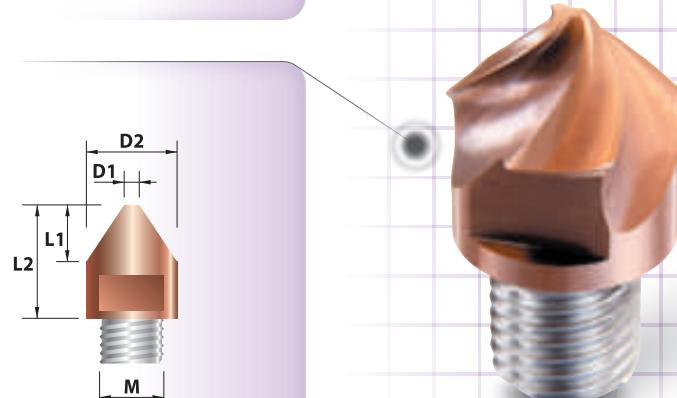
型號 Type No.	D1 直徑 Diameter	L1 刀長 Flute Length	D2 頸徑 Neck Dia.	L2 全長 O.A.L.	M 螺牙 Thread Size	鎖固扳手型號 Spanner Type No.
X-AESR0805	8.0	8.0	0.5	7.8	12.1	M5-3P K08
X-AESR0810	8.0	8.0	1.0	7.8	12.1	M5-3P K08
X-AESR1005	10.0	10.0	0.5	9.8	16.1	M7-3P K10
X-AESR1010	10.0	10.0	1.0	9.8	16.1	M7-3P K10
X-AESR1205	12.0	12.0	0.5	11.7	20.3	M8-3P K12
X-AESR1210	12.0	12.0	1.0	11.7	20.3	M8-3P 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

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II



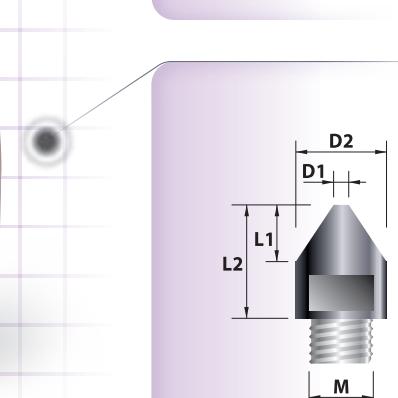
X-TS

螺旋刃倒角刀頭
SPIRAL FLUTE CHAMFERING



X-TD

直刃倒角刀頭
STRAIGHT FLUTE CHAMFERING



產品規格 SPECIFICATIONS

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

unit : mm

產品規格 SPECIFICATIONS

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

unit : mm

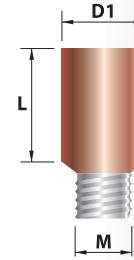
二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II

二代變形鎢鋼立銑刀
EXCHANGEABLE HEAD ENDMILL II



X-TW

螺紋銑刀
THREAD MILLING



公差表 TOLERANCE unit : mm

直徑 D1	直徑公差值 D1 Tolerance
10.0	0 -0.04
11.0	0 -0.04
12.0	0 -0.04
13.0	0 -0.04
16.0	0 -0.04
20.0	0 -0.04
25.0	0 -0.04

圓鼻角立銑刀
END MILLS



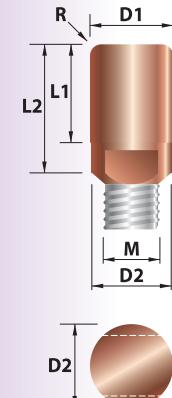
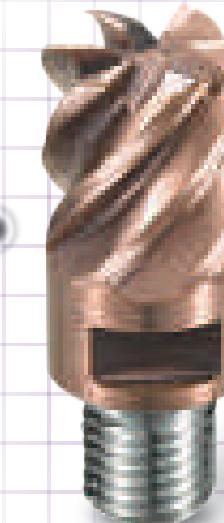
X-VRI

圓鼻角立銑刀
END MILLS



公差表 TOLERANCE unit : mm

直徑 D1	R徑公差值 R Tolerance	直徑公差值 D1 Tolerance
8.0	+0.02 0	-0.02
10.0	+0.02 0	-0.02
12.0	+0.02 0	-0.02
16.0	+0.02 0	-0.02
20.0	+0.02 0	-0.03



產品規格 SPECIFICATIONS

型號 Type No.	螺距 Pitch	M 適用規格 Applicable Size		D1 直徑 Diameter	L1 刀長 Flute Length	N 牙數 No. of Thread	配合刀桿 Recommended Carbide Shank	鎖固扳手型號 Spanner Type No.
		粗牙 Coarse	細牙 Fine					
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

unit : mm

產品規格 SPECIFICATIONS

型號 Type No.	D1 直徑 Diameter	L1 刀長 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-VRI0805	8.0	8.0	0.5	7.8	12.1	M5-3P	K08
X-VRI0810	8.0	8.0	1.0	7.8	12.1	M5-3P	K08
X-VRI1005	10.0	10.0	0.5	9.8	16.1	M7-3P	K10
X-VRI1010	10.0	10.0	1.0	9.8	16.1	M7-3P	K10
X-VRI1205	12.0	12.0	0.5	11.7	20.3	M8-3P	K12
X-VRI1210	12.0	12.0	1.0	11.7	20.3	M8-3P	K12
X-VRI1215	12.0	12.0	1.5	11.7	20.3	M8-3P	K12
X-VRI1605	16.0	16.0	0.5	15.6	25.7	M10-3P	K16
X-VRI1610	16.0	16.0	1.0	15.6	25.7	M10-3P	K16
X-VRI1620	16.0	16.0	2.0	15.6	25.7	M10-3P	K16
X-VRI2010	20.0	20.0	1.0	19.5	31.1	M12-3P	K20
X-VRI2020	20.0	20.0	2.0	19.5	31.1	M12-3P	K20
X-VRI2030	20.0	20.0	3.0	19.5	31.1	M12-3P	K20

unit : mm



產品規格

SPECIFICATIONS

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 End Mills (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

unit : mm

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.



X-UXRO

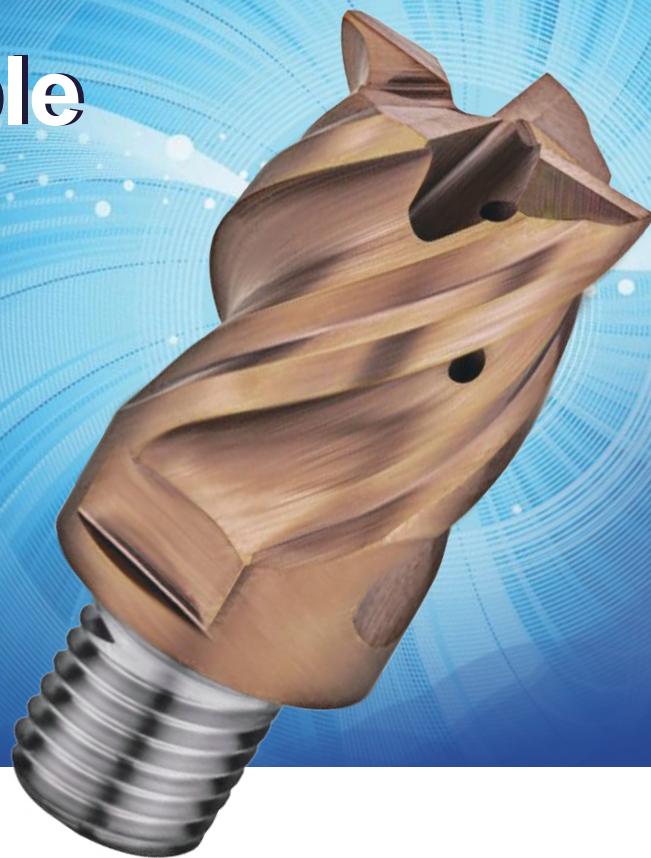


X-UBO

NEW

二代變形鎢鋼立銑刀 2

Exchangeable Head Endmill II





二代變形鎢鋼立銑刀 2

Exchangeable Head Endmill II

1. 特殊的銑刀端面不等分割 + 斷削槽設計、於側銑加工中
抗震性更加良好、壽命佳。
2. 主要應用一般或較長刀具伸長量時、於高速擺線側銑
加工、抗震性更佳。
3. X-UPZO產品特殊的<4孔中心出水設計>, 應用於高速
側銑、排削性良好、冷卻效果更佳。
4. 主要應用於一般鋼材(HRc45以內)及難切削材料不鏽鋼
和鈦合金等材料的側銑加工。
5. X-UPZ及X-UPZO刀具幾何圖形設計相同、
X-UPZO產品多<4孔中心出水設計>。



- I. The unequal spacing of end teeth and chip breaker design has advanced the vibration resistance and tool life when side milling.
- II. The products are mainly designed for general or longer tool extension application. The vibration resistance in high speed trochoidal side milling has increased.
- III. The special “Four holes coolant through spindle system” of X-UPZO has improved the chip removal ability and cooling in high speed side milling.
- IV. Suitable for side milling general steels (material below HRc 45) and difficult-to-cut materials, such as stainless steel, titanium alloy and so on.
- V. The geometry design of X-UPZ is identical to X-UPZO, while X-UPZO is equipped with “Four holes coolant through spindle system”.

X-UPZ

End Mills

無敵高效能立銑刀頭



Super
MC

0.4
 μm

45°

4 Flutes

HRc
≥60

G10

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-UPZ0804	8.0	8.0	7.8	12.1	M 5 -3P	K08
X-UPZ1004	10.0	10.0	9.8	16.1	M 7 -3P	K10
X-UPZ1204	12.0	12.0	11.7	20.3	M 8 -3P	K12
X-UPZ1604	16.0	16.0	15.6	25.7	M10-3P	K16
X-UPZ2004	20.0	20.0	19.5	31.1	M12-3P	K20



Internal Coolant Hole End Mills

無敵高效能立銑刀頭(內冷孔)

X-UPZ0

Super
MC

0.4
 μm

45°

4 Flutes

HRc
≥60

G10

W

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-UPZ0804	8.0	8.0	7.8	12.1	M 5 -3P	K08
X-UPZ1004	10.0	10.0	9.8	16.1	M 7 -3P	K10
X-UPZ1204	12.0	12.0	11.7	20.3	M 8 -3P	K12
X-UPZ1604	16.0	16.0	15.6	25.7	M10-3P	K16
X-UPZ2004	20.0	20.0	19.5	31.1	M12-3P	K20



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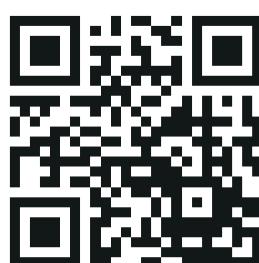
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