

特點 Feature

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

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

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

配件表 Accessories

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



• 長度單位 Unit of Length (mm)



Fig1.

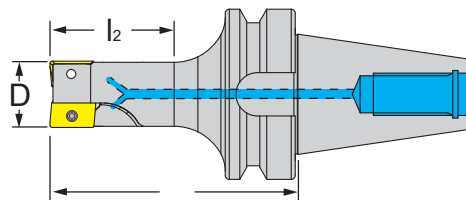
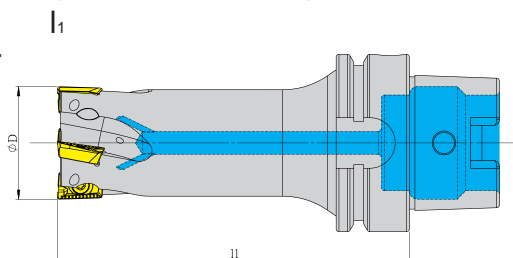


Fig2.



特點 Feature

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

配件表 Accessories

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



• 長度單位 Unit of Length (mm)



ISO 分類	P	合金鋼 Alloyed Steels	○	○		○											切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	M	不鏽鋼 Stainless Steels	○			○											
	K	鑄鐵 Cast Iron	○			○											
	N	鋁及鋁合金 Aluminum&Al							■	■	○	■					
S	高溫合金 Refractory Alloys									○							
H	高硬度材 Hard Material																
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain					超微粒硬質合金 Micro grain cemented carbide				尺寸 (mm) Size				圖形 Drawing		
		CHF					HF				Size						
		OM4025	OM4025N	RM3130	RM4130	RM535		GH05	OM5005	OM5060	RM5005		d	i		s	r
	★ APEX100304PDFR-F01							●	●			6.68	10.5	2.38	0.4		
	★ APEX1604PDFR-F01							●	●			9.525	16.4	4.76	-		
	★ APEX160400PDFR-F01							●	●			9.525	16.4	4.76	-		
	★ APEX160404PDFR-F01							●	●			9.525	16.4	4.76	0.4		
	★ APEX160408PDFR-F01							●	●			9.525	16.4	4.76	0.8		
	APEX1604PDFR-701							●				9.525	16.4	4.76	0.2		
	APGT100304PDFR-F04								●			6.68	10.5	2.38	0.4		
	APGT160408PDFR-F02								●			9.525	16.4	4.76	0.8		
	APHT1003PDFR-F03								●			6.68	10.4	3.47	0.8		
	APKT100304PDER-M04				●							6.68	10.5	2.38	0.4		
	APKT1003PDER-M05					●						6.68	10.5	3.47	-		
	APKT1604PDER-M05						●					9.525	16.4	4.76	0.4		
	★ APKT160408-M01	●	●									9.525	16.6	4.76	0.8		
	APKT160408PDER-M02			●	●							9.525	16.4	4.76	0.8		

★ 推薦 Recommended

• 長度單位 Unit of Length (mm)



AP_10.16 切削條件數據表 Cutting Parameter

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

主軸轉速 = (1000 × 切削速度) ÷ (3.14 × 刀具外徑)

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

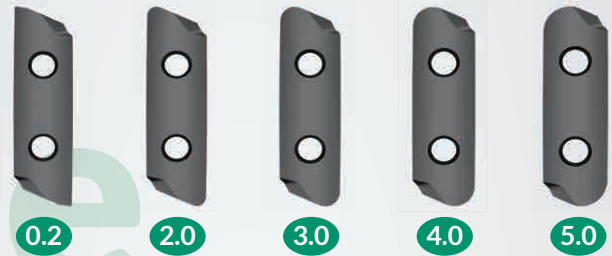
床檯進給 (mm/min) = 每刃進給 × 刀具刃數 × 主軸轉速

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

AECX32T3

長刃鋁合金颶風刀片

Long Edge Aluminum Milling Insert

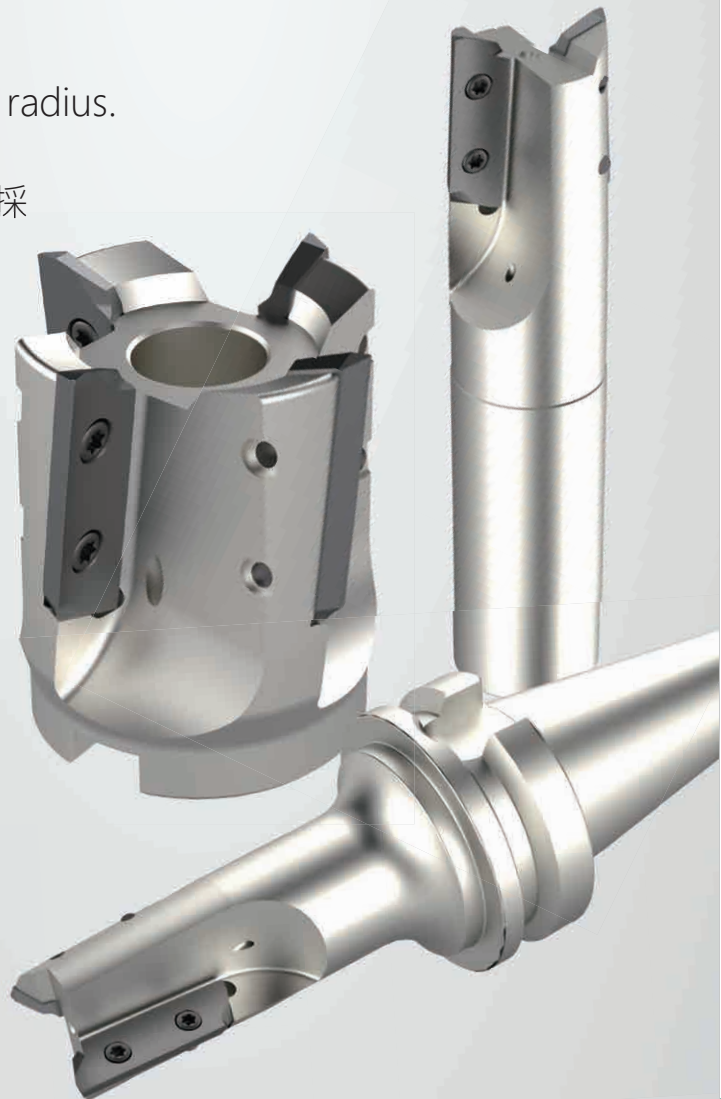


- 專為鋁合金及非鐵金屬腔體銑削和曲面銑削加工設計。
Specially designed for aluminum alloy and non-ferrous metal cavity milling and surface milling processing.
- 可進行大切深，粗精加工切削、最大切深可達30mm。
Larger cutting depth is used for both roughing and finishing.
Max. cutting depth is 30mm.
- 此刀片提供有5種規格刀尖圓弧半徑
The insert is available with five different nose radius.
- 刀片採用高仰角切削角度設計、刀片整體加工採全研磨製程
The insert is fully grinded with high elevation cutting angle design.

長刃型颶風刀具系列

Hurricane Type Milling Cutter Series

- 為了能高速切削加工使用、銑刀具本體設計高剛性及制震功能設計。
Designed for high rigidity and anti-vibration for high speed machining.
- 銑刀具設計中心出水設計可使排屑順暢並提高進給率。
Through coolant design makes chip removal easily and increases Feed speed.



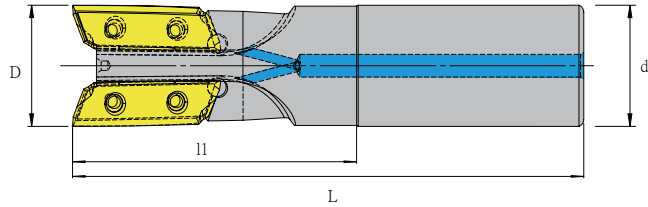


HRCN 颶風直柄銑刀

HRCN HURRICANE INDEXABLE MILLING CUTTER



NEW



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

配件表 Accessories

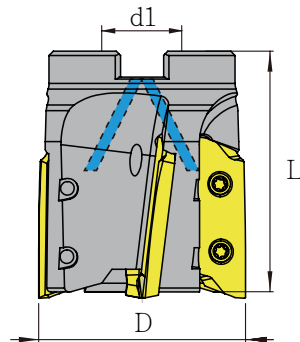
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
AE..32T3	M4-8.0-5.0-43	T15	3



HRCN 颶風殼形銑刀

HRCN HURRICANE SHELL MILLING CUTTER

NEW



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

配件表 Accessories


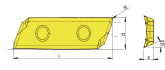
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
AE..32T3	M4-8.0-5.0-43	T15	3

•長度單位 Unit of Length (mm)



AECX32T3 長刃鋁合金颯風刀片

AECX32T3 LONG EDGE ALUMINUM MILLING INSERT

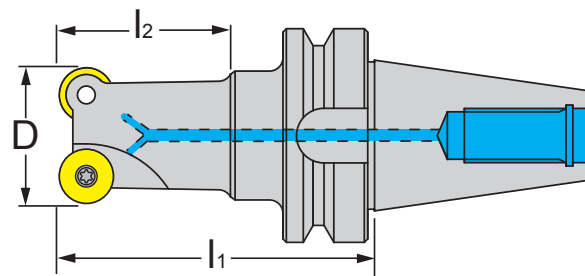
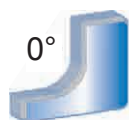
ISO 分類	P	合金鋼 Alloyed Steels								切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting			
	M	不鏽鋼 Stainless Steels											
	K	鑄鐵 Cast Iron											
	N	鋁及鋁合金 Aluminum&Al	■	○									
	S	高溫合金 Refractory Alloys											
	H	高硬度材 Hard Material											
形狀 Shape	規格 Spec.	超微粒硬質合金 Micro grain cemented carbide				尺寸 (mm) Size				圖形 Drawing			
		HF				Size							
		OM5005	OM5060					d	i		s	r	
	NEW	AECX32T302ER-F01	●	●					11.9	37	3.97	0.2	
	NEW	AECX32T320ER-F01	●	●					11.9	37	3.97	2	
	NEW	AECX32T330ER-F01	●	●					11.9	37	3.97	3	
	NEW	AECX32T340ER-F01	●	●					11.9	37	3.97	4	
	NEW	AECX32T350ER-F01	●	●					11.9	37	3.97	5	

NEW 新品 New Product

AECX32_ 切削條件數據表 Cutting Parameter

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

•長度單位 Unit of Length (mm)



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- 整體預硬後，再行精修，避免二次處理所產生應變

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

規格 Spec.	l ₁	l ₂	D	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
BT40-STR3.5R16-90L-2T	90	40	16	2	RD..0702	1.29
BT40-STR3.5R16-120L-2T	120	65	16	2	RD..0702	1.30
● BT40-STR3.5R20-90L-3T	90	45	20	3	RD..0702	1.32
BT40-STR3.5R20-120L-3T	120	70	20	3	RD..0702	1.33
● BT40-STR3.5R25-90L-3T	90	40	25	3	RD..0702	1.36
BT40-STR3.5R25-120L-3T	120	70	25	3	RD..0702	1.41
BT40-STR3.5R30-120L-4T	120	85	30	4	RD..0702	1.52
● BT40-STR5R30-90L-3T	90	55	30	3	RD..1003	1.31
● BT40-STR5R35-90L-4T	90	60	35	4	RD..1003	1.42
BT40-STR5R35-120L-4T	120	85	35	4	RD..1003	1.59

- 附壓板螺絲 Clamp screw included

配件表 Accessories

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

※ 圓刃端銑刀，其軸向切深與有效刃徑有相對應關係，計算切削數據時，須修正

The axial depth is related to effective diameter on a round tooth milling cutter. Please be aware when calculating cutting parameter.

每刃進給切削公式
Feeding per Flutes

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

平均屑片厚度計算公式
Average chip thickness

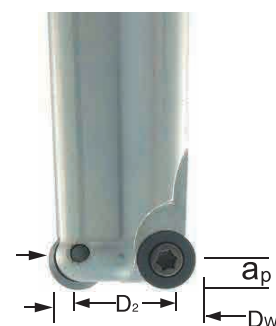
$$h_m = \frac{f_z}{\sqrt{\frac{D}{A_p}} \times \sqrt{\frac{D_w}{A_p}}}$$

有效刃徑計算公式
Effective diameter

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

where :

- D_w = 有效直徑 Effective diameter (mm)
- D₂ = 刀具中心距 Centre-to-centre distance of cutter (mm)
- r = 刀片半徑 Radius of Insert (mm)
- A_p = 切深 Depth (mm)



• 長度單位 Unit of Length (mm)



ISO 分類	P 合金鋼 Alloyed Steels	○	○	○																切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	M 不鏽鋼 Stainless Steels		○	○																
	K 鑄鐵 Cast Iron																			
	N 鋁及鋁合金 Aluminum&Al																			
	S 高溫合金 Refractory Alloys																			
	H 高硬度材 Hard Material	○																		
形狀 Shape	規格 Spec.	鍍層硬質合金 Layer coated carbide alloy						鍍層超微粒 Layer coated micro grain						尺寸 (mm) Size				圖形 Drawing		
		HC						CHF						d	i	s	r			
		OM0125	OM1115	OM2115																
	RDKW0702MO	●	●	●									7	-	2.38	3.5				
	RDKW1003MO		●	●									10	-	3.18	5				

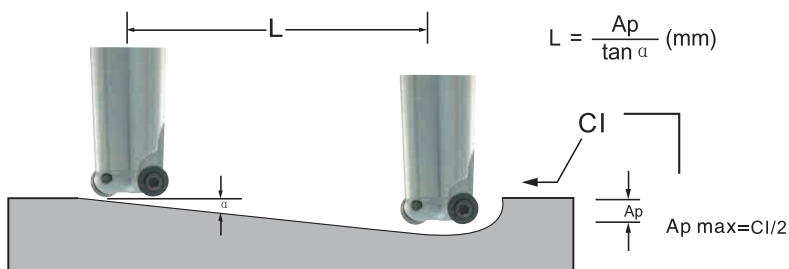
RD_07.10 切削條件數據表 Cutting Parameter

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

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

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

最大斜向切削公式 Max. inclined cutting



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

• 長度單位 Unit of Length (mm)



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



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



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



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



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



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



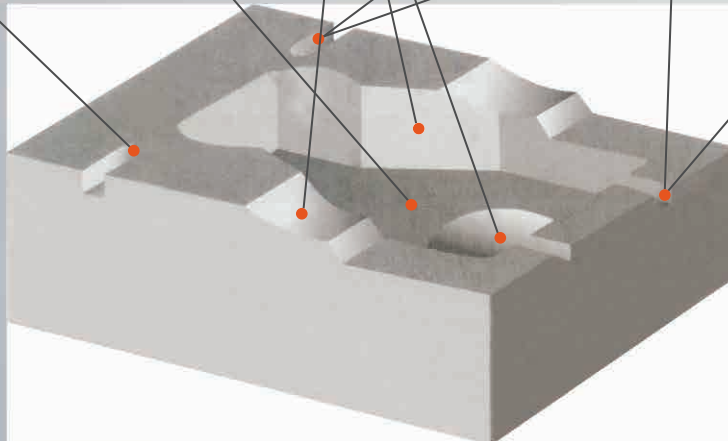
BR鎖牙式球型銑刀
Screwed-on Rounded Corner
End Mill Cutter



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

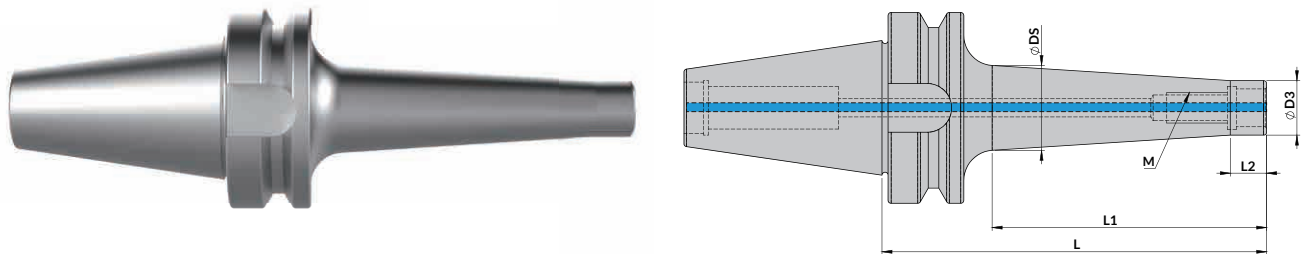


HAS鎖牙式大進給切削刀具
Screwed-on High
Speed Mill Cutter



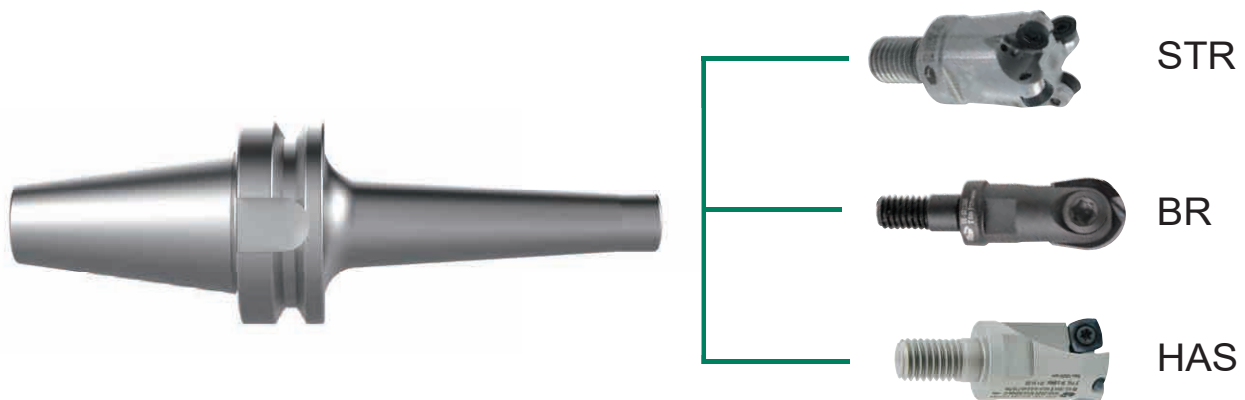
※ 刀桿通孔，利於出水及抗震。

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



規格 Spec.	M	Ds	D3	L	L1	L2
SBT40-SOM6-110	M6	25	9.7	110	80	10
SBT40-SOM8-105	M8	30	15	105	75	10
SBT40-SOM10-100	M10	35	18	100	70	10
SBT40-SOM10-130	M10	35	18	130	100	10
SBT40-SOM12-95	M12	40	21	95	65	10
SBT40-SOM12-130	M12	40	21	130	100	10
SBT40-SOM16-90	M16	48	28	90	60	10
SBT40-SOM16-140	M16	48	28	140	110	10
SBT50-SOM12-150	M12	41	21	150	105	30
SBT50-SOM12-200	M12	42.5	21	200	155	30
SBT50-SOM16-150	M16	49	28	150	105	30
SBT50-SOM16-200	M16	50	28	200	155	35

範例 Example



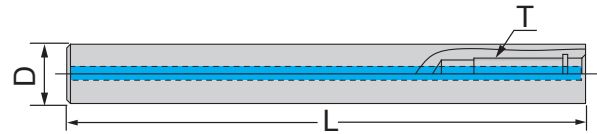
•長度單位 Unit of Length (mm)



直柄 C/M 螺紋鎖固式鎢鋼延長桿

C/M STRAIGHT TUNGSTEN CARBIDE EXTENSION SHANK

LEMMA



特點 Feature

- 整支通孔 · 利於出水及抗震

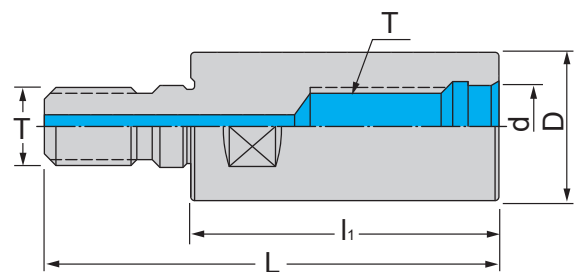
- Through-hole design for better water coolant and anti-vibration.

規格 Spec.	L	D	T	重量 (KGS) Weight
C10-M5-150-C	150	10	M5X0.8P	0.16
C12-M6-100-C	100	12	M6×1.0P	0.16
C12-M6-150-C	150	12	M6×1.0P	0.24
C16-M8-100-C	100	16	M8×1.25P	0.26
C16-M8-150-C	150	16	M8×1.25P	0.57
C16-M8-200-C	200	16	M8×1.25P	0.54
C20-M10-150-C	150	20	M10×1.5P	0.60
C20-M10-200-C	200	20	M10×1.5P	0.85
C25-M12-200-C	200	25	M12×1.75P	1.30
C25-M12-250-C	250	25	M12×1.75P	1.60



SOM 鎖牙式延長桿

SOM SCREW-ON END MILL EXTENSION SHANK



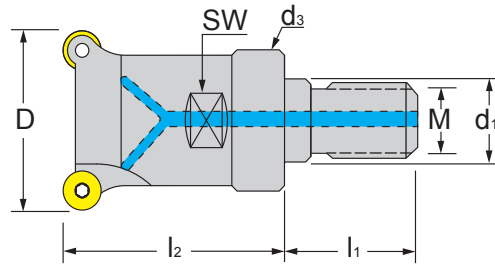
特點 Feature

- 整支通孔利於出水及抗震
- 採用抗震型材質
- 螺紋精度一級牙 4H

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

規格 Spec.	L	l ₁	D	d	T	重量 (KGS) Weight
SOM6-25	42	25	13	6.5	M6×1.0P	0.03
SOM8-32	50	32	15	8.5	M8×1.25P	0.06
SOM10-40	59	40	19	10.5	M10×1.5P	0.09
SOM12-50	73	50	21	12.5	M12×1.75P	0.13
SOM16-60	85	60	25	17	M16×2.0P	0.23

• 長度單位 Unit of Length (mm)



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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

規格 Spec.	l ₁	l ₂	D	d ₁	d ₃	M	SW	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
STR-2.5R12M6-2T	17	22	12	6.5	10	6	8	2	RD..0501	0.03
STR-3.5R16M8-2T	18	23	16	8.5	13.5	8	12	2	RD..0702	0.05
STR-3.5R20M10-3T	19	30	20	10.5	18	10	14	3	RD..0702	0.08
● STR-3.5R25M12-3T	23	35	25	12.5	21	12	17	3	RD..0702	0.12
● STR-5R25M12-2T	23	35	25	12.5	21	12	17	2	RD..1003	0.11
● STR-5R30M16-3T	25	42	30	17	26	16	21	3	RD..1003	0.19
● STR-5R35M16-4T	25	42	35	17	29	16	21	4	RD..1003	0.23

● 附壓板螺絲 Clamp screw included

配件表 Accessories

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

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

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

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

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

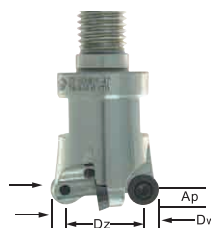
有效刃徑計算公式
Formula of effective diameter

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

D_w = 有效直徑 Effective diameter (mm)
D₂ = 刀具中心距 Centre-to-centre distance of cutter (mm)
r = 刀片半徑 Radius of Insert (mm)
A_p = 切深 Depth (mm)

鎖固力矩 Locking torque

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

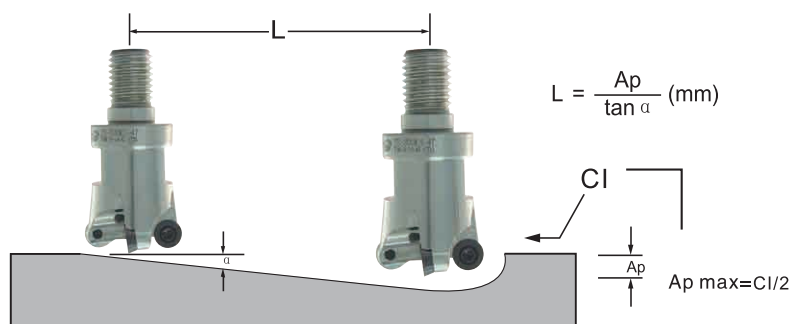


● 長度單位 Unit of Length (mm)



ISO 分類	P	合金鋼 Alloyed Steels	○	○	○													切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	M	不鏽鋼 Stainless Steels		○	○													
	K	鑄鐵 Cast Iron																
N	鋁及鋁合金 Aluminum&Al																	
S	高溫合金 Refractory Alloys																	
H	高硬度材 Hard Material		○															
形狀 Shape	規格 Spec.	鍍層硬質合金 Carbide alloy			鍍層超微粒 Layer coated micro grain			尺寸 (mm) Size				圖形 Drawing						
		HC			CHF			d	i	s	r							
		OM0125	OM1115	OM2115														
	RDKW0501MO	●		●							5	-	1.51	2.5				
	RDKW0702MO	●	●	●							7	-	2.38	3.5				
	RDKW1003MO		●	●							10	-	3.18	5				

最大斜向切削公式 Max. inclined cutting



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

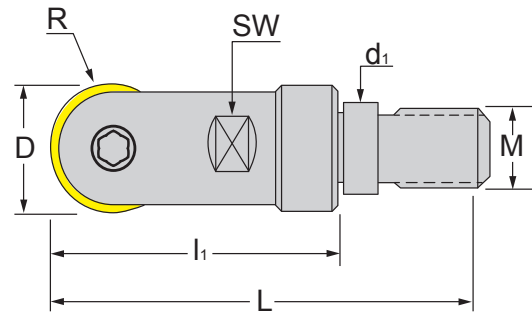
RD_05.07.10 切削條件數據表 Cutting Parameter

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

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

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

● 長度單位 Unit of Length (mm)



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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

規格 Spec.	L	l ₁	D	d ₁	R	M N.m	SW	刀片 Insert	重量 (KGS) Weight
BR-4R08M6	34	20	8	8.5	4	M6 / 10	8	BR08	0.04
BR-5R10M6	36	21	10	8.5	5	M6 / 10	8	BR10	0.05
BR-6R12M6	40	25	12	8.5	6	M6 / 10	8	BR12	0.05
BR-8R16M8	43	26	16	8.5	8	M8 / 23	12	BR16	0.06
BR-10R20M10	51	32	20	10.5	10	M10 / 46	14	BR20	0.09
BR-12.5R25M12	62	40	25	12.5	12.5	M12 / 80	17	BR25	0.06
BR-15R30M16	62	40	30	17	15	M16 / 90	21	BR30	0.26
BR-16R32M16	65	43	32	17	16	M16 / 90	21	BR32	0.29

配件表 Accessories

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



• 長度單位 Unit of Length (mm)



ISO 分類	P	合金鋼 Alloyed Steels	○	○																	切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	M	不鏽鋼 Stainless Steels	○	○																	
	K	鑄鐵 Cast Iron	○																		
N	鋁及鋁合金 Aluminum&Al								○												
S	高溫合金 Refractory Alloys																				
H	高硬度材 Hard Material	○																			
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain				超微粒硬質合金 Micro grain cemented carbide				尺寸 (mm) Size				圖形 Drawing							
		CHF				HF				Size											
		OM4010	OM4025							OM5005						d	i	s	r		
	BR08S	●	●						●					8	3	2	-				
	BR10S	●	●						●					10	4	2.5	-				
	BR12S	●	●						●					12	5	2.5	-				
	BR16S	●	●						●					16	5	3	-				
	BR20S	●	●						●					20	5	3	-				
	BR25S	●	●						●					25	6	4	-				
	BR30S	●	●						●					30	8	5	-				
	BR32S	●	●						●					32	8	5	-				

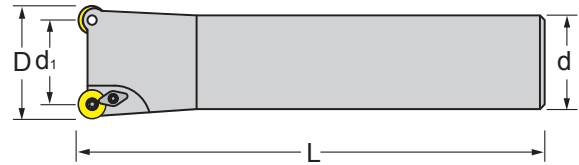
BR_08.10.12.16.20.25.30.32 切削條件數據表 Cutting Parameter

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

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

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

• 長度單位 Unit of Length (mm)



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

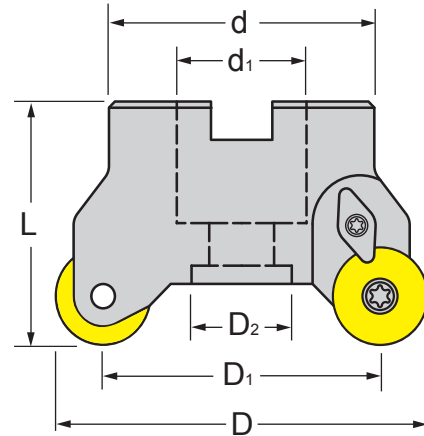
- Made of anti-vibration tool steel.
- After heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	D	d	d ₁	R	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
HR-4R2020-150L	150	20	20	12	4R	2	RP..0803	0.37
HR-5R2525-150L	150	25	25	15	5R	2	RP..10T3	0.56
HR-5R2525-200L	200	25	25	15	5R	2	RP..10T3	0.76
HR-5R3025-150L	150	30	25	20	5R	2	RP..10T3	0.59
HR-5R3025-200L	200	30	25	20	5R	2	RP..10T3	0.78
HR-5R3532-150L	150	35	32	25	5R	3	RP..10T3	0.92
HR-5R3532-200L	200	35	32	25	5R	3	RP..10T3	1.26
HR-5R3532-300L	300	35	32	25	5R	3	RP..10T3	1.89
HR-6R3225-200L	200	32	25	20	6R	2	RP..1204	0.78
HR-6R3232-200L	200	32	32	20	6R	2	RP..1204	1.21
HR-6 R4032-180L	180	40	32	28	6R	3	RP..1204	1.16
HR-6R4032-230L	230	40	32	28	6R	3	RP..1204	1.48

配件表 Accessories

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

• 長度單位 Unit of Length (mm)



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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

規格 Spec.	L	D	D ₁	D ₂	d	d ₁	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
HR-5R50-FMB22-4T	50	50	40	18	40	22	4	RP.10T3	0.41
HR-6R50-FMB22-3T	50	50	38	18	40	22	3	RP.1204	0.44
HR-6R50-FMB22-4T	50	50	38	18	40	22	4	RP.1204	0.41
HR-6R63-FMB22-4T	55	63	51	18	50	22	4	RP.1204	0.66
HR-6R63-FMB22-5T	55	63	51	18	50	22	5	RP.1204	0.67
HR-6R63-5T	55	63	51	19	50	25.4	5	RP.1204	0.63
HR-6R80-FMB27-6T	55	80	68	19	60	27	6	RP.1204	1.22

配件表 Accessories

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

每刃進給切削公式
Feeding per Flutes

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

平均屑片厚度計算公式
Average chip thickness

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

有效刃徑計算公式
Effective diameter

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

D_w = 有效直徑 Effective diameter (mm)

D₂ = 刀具中心距 Centre-to-centre distance of cutter (mm)

r = 刀片半徑 Radius of Insert (mm)

A_p = 切深 Depth (mm)

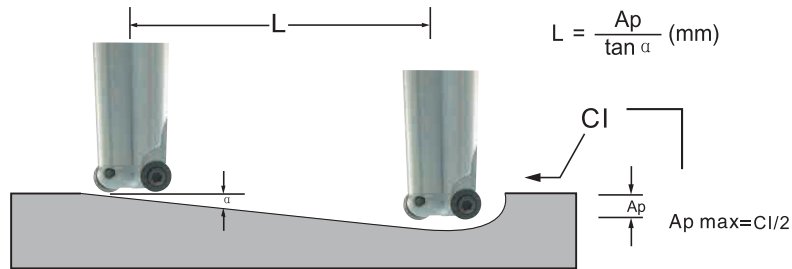


• 長度單位 Unit of Length (mm)



ISO 分類	P	合金鋼 Alloyed Steels	○	○	○													
	M	不鏽鋼 Stainless Steels	○	○	○													
	K	鑄鐵 Cast Iron	○	○														
切削狀態 Cutting Condition :	●	連續切削 Continuous Cutting																
	○	一般切削 General Cutting																
	■	斷續切削 Interrupted Cutting																
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain			硬質合金 Carbide alloy			超微粒硬質合金 Micro grain cemented carbide			尺寸 (mm) Size				圖形 Drawing			
		CHF			HW			HF			d	i	s	r				
		OM4010	OM4025	RM4130														
	RPET1204MOE-M01	●	●									12	-	4.76	6			
	RPMT10T3MON			●								10	-	3.97	5			
	RPMT1204MON			●								12	-	4.76	6			

最大斜向切削公式 Max. inclined cutting



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

切削條件數據表 Cutting Parameter

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

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

• 長度單位 Unit of Length (mm)



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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

規格 Spec.	L	D	D ₁	d	R	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
STR-2.5R1212-108L-2T	108	12	7	12	2.5R	2	RD..0501	0.10
STR-3.5R1616-150L-2T	150	16	9	16	3.5R	2	RD..0702	0.26
STR-3.5R2020-170L-2T	170	20	13	20	3.5R	2	RD..0702	0.44
STR-3.5R2525-150L-3T	150	25	18	25	3.5R	3	RD..0702	0.57
● STR-5R2525-150L-2T	150	25	15	25	5R	2	RD..1003	0.56
● STR-5R2525-200L-2T	200	25	15	25	5R	2	RD..1003	0.76
● STR-5R3025-150L-3T	150	30	20	25	5R	3	RD..1003	0.58
● STR-5R3025-200L-3T	200	30	20	25	5R	3	RD..1003	0.78

- 附壓板螺絲 Clamp screw included

配件表 Accessories

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

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

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

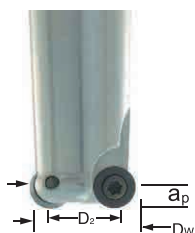
平均屑片厚度計算公式
Formula of average chip thickness

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

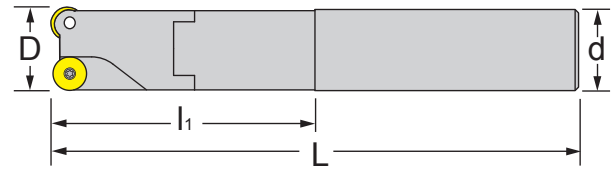
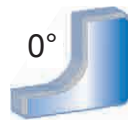
有效刃徑計算公式
Formula of effective diameter

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

D_w = 有效直徑 Effective diameter (mm)
D₂ = 刀具中心距 Centre-to-centre distance of cutter (mm)
r = 刀片半徑 Radius of Insert (mm)
A_p = 切深 Depth (mm)



● 長度單位 Unit of Length (mm)



特點 Feature

- CSTR 系列以鎢鋼柄部確保剛性，加以 2.5R 高性能超硬刀片，結合而成高性能低成本的革命性產品
- 細小尺寸設計最適合中小型模具的模穴粗銑
- 阻抗排解力強，穩定性極佳
- 刀片相容性高，使用者適應性強
- The revolutionary CSTR series are a combination of tungsten carbide shank and 2.5R super hard insert which are featured low cost and high efficiency.
- Small size is available for rough milling of small-medium mold cavity.
- High resistance relief and excellent stability.
- Compatible with various inserts. User friendly.

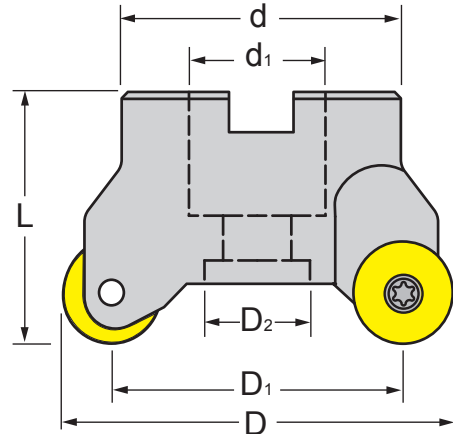
規格 Spec.	L	l ₁	D	d	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
CSTR-2.5R1010-85L-2T	85	40	10	10	2	RD..0501	-
CSTR-2.5R1110-110L-2T	110	-	11	10	2	RD..0501	0.14
CSTR-2.5R1212-95L-2T	95	50	12	12	2	RD..0501	0.16
CSTR-2.5R1212-95L-3T	95	50	12	12	3	RD..0501	0.16
CSTR-2.5R1312-125L-2T	125	-	13	12	2	RD..0501	0.20
CSTR-2.5R1312-125L-3T	125	-	13	12	3	RD..0501	0.20
CSTR-3.5R1716-150L-2T	150	-	17	16	2	RD..0702	0.25
CSTR-3.5R1716-200L-2T	200	-	17	16	2	RD..0702	0.60
CSTR-3.5R2120-150L-3T	150	-	21	20	3	RD..0702	0.64
CSTR-3.5R2120-200L-3T	200	-	21	20	3	RD..0702	0.89
CSTR-3.5R2625-150L-4T	150	-	26	25	4	RD..0702	1.70
CSTR-3.5R2625-250L-4T	250	-	26	25	4	RD..0702	1.70
CSTR-5R2120-200L-2T	200	-	21	20	2	RD..1003	0.89
CSTR-5R2625-250L-3T	250	-	26	25	3	RD..1003	1.70

配件表 Accessories

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



• 長度單位 Unit of Length (mm)



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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

規格 Spec.	L	D	D ₁	D ₂	d	d ₁	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
STR-5R50-FMB22-5T	50	50	40	18	40	22	5	RD..1003	0.45

配件表 Accessories

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

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

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

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

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

有效刃徑計算公式
Formula of effective diameter

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

D_w = 有效直徑 Effective diameter (mm)
D₂ = 刀具中心距 Centre-to-centre distance of cutter (mm)
r = 刀片半徑 Radius of Insert (mm)
A_p = 切深 Depth (mm)



• 長度單位 Unit of Length (mm)

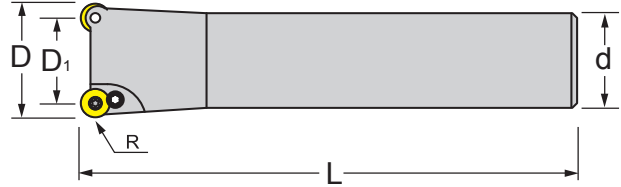


ISO 分類	P	合金鋼 Alloyed Steels	○	○	○														切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	M	不鏽鋼 Stainless Steels		○	○														
	K	鑄鐵 Cast Iron																	
	N	鋁及鋁合金 Aluminum&Al																	
	S	高溫合金 Refractory Alloys																	
	H	高硬度材 Hard Material	○																
形狀 Shape	規格 Spec.	鍍層硬質合金 Carbide alloy											尺寸 (mm) Size				圖形 Drawing		
		HC											Size						
		OM0125	OM1115	OM2115										d	i	s		r	
	RDKW0501MO	●		●									5	-	1.51	2.5			
	RDKW0702MO	●	●	●									7	-	2.38	3.5			
	RDKW1003MO		●	●									10	-	3.18	5			

RD_05.07.10 切削條件數據表 Cutting Parameter

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

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



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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


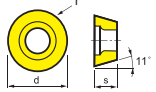
規格 Spec.	L	D	D ₁	d	R	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
C25-FR25-150L	150	25	15	25	5R	2	RP.1003	0.55
C25-FR25-180L	180	25	15	25	5R	2	RP.1003	0.67
C25-FR25-250L	250	25	15	25	5R	2	RP.1003	0.95
C25-FR30-150L	150	30	20	25	5R	2	RP.1003	0.59
C25-FR30-200L	200	30	20	25	5R	2	RP.1003	0.79
C25-FR30-250L	250	30	20	25	5R	2	RP.1003	0.98
C25-FR30-300L	300	30	20	25	5R	2	RP.1003	1.20
C32-FR32-200L	200	32	22	32	5R	3	RP.1003	1.18
C32-FR35-120L	120	35	25	32	5R	3	RP.1003	0.72
C32-FR35-150L	150	35	25	32	5R	3	RP.1003	0.91
C32-FR35-200L	200	35	25	32	5R	3	RP.1003	1.25
C32-FR35-250L	250	35	25	32	5R	3	RP.1003	1.55
C32-FR35-300L	300	35	25	32	5R	3	RP.1003	1.88
C32-FR35-350L	350	35	25	32	5R	3	RP.1003	2.18

配件表 Accessories

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

• 長度單位 Unit of Length (mm)



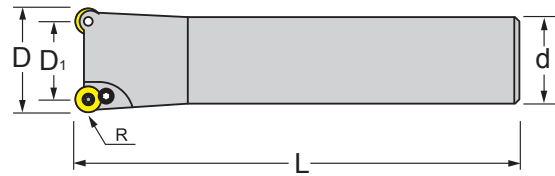
ISO 分類	P	合金鋼 Alloyed Steels	○															切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	M	不鏽鋼 Stainless Steels	○															
	K	鑄鐵 Cast Iron																
	N	鋁及鋁合金 Aluminum&Al																
	S	高溫合金 Refractory Alloys																
	H	高硬度材 Hard Material																
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain	超微粒硬質合金 Micro grain cemented carbide				尺寸 (mm) Size				圖形 Drawing							
		CHF				HF												
		RM4130											d	i	s	r		
	RPMW1003MON	●																

RP_10 切削條件數據表 Cutting Parameter

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

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

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



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

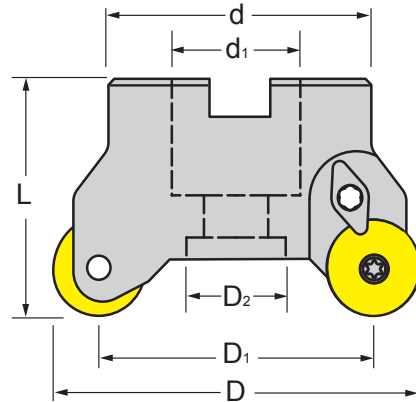
- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

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

配件表 Accessories

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

• 長度單位 Unit of Length (mm)



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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

規格 Spec.	L	D	D ₁	D ₂	d	d ₁	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
GR-5R50-FMB22	50	50	40	18	40	22	4	RD..10T3	0.42
GR-6R50-FMB22	50	50	38	18	40	22	4	RD..1204	0.29
GR-6R63-FMB22	50	63	51	18	50	22	4	RD..1204	0.54
GR-8R63-FMB22	50	63	47	18	50	22	4	RD..1604	0.62
GR-8R66	50	66	50	19	50	25.4	4	RD..1604	0.61
GR-8R66-FMB22	50	66	50	18	50	22	4	RD..1604	0.65
GR-8R80	55	80	64	19	62	25.4	5	RD..1604	1.07
GR-8R80-FMB27	55	80	64	19	62	27	5	RD..1604	1.06
GR-8R100	55	100	84	42	70	31.75	6	RD..1604	1.63
GR-8R100-FMB32	55	100	84	42	70	32	6	RD..1604	1.62

配件表 Accessories

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

•長度單位 Unit of Length (mm)



ISO 分類	P	合金鋼 Alloyed Steels	○													切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting	
	M	不鏽鋼 Stainless Steels	○														
	K	鑄鐵 Cast Iron															
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain					超微粒硬質合金 Micro grain cemented carbide					尺寸 (mm) Size				圖形 Drawing	
		CHF					HF					Size					
		RM4130					OM5005	OM5060	RM5005					d	i		s
	RDET1604MOF-F01						●	●					16	-	4.76	8	
	RDGT1604MO-F01								●				16	-	4.76	8	
	RDMT0802MOTN	●											8	-	2.38	4	
	RDMT10T3MOTN	●											10	-	3.97	5	
	RDMT1204MOTN	●											12	-	4.76	6	
	RDMT1604MOTN	●											16	-	4.76	8	

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

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

主軸轉速 = (1000 × 切削速度) ÷ (3.14 × 刀具外徑)

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

床檯進給 (mm/min) = 每刃進給 × 刀具刃數 × 主軸轉速

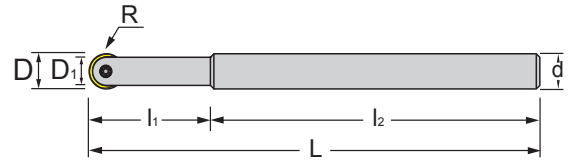
Feeding Speed (mm/min) = Feed per Flutes × Flutes × Spindle speed.

● 長度單位 Unit of Length (mm)



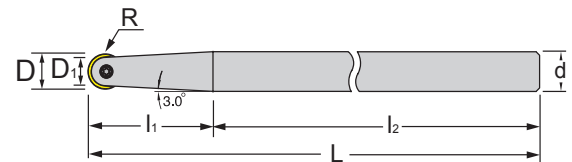
標準型 Standard Type

Fig.1



加長型 Extended Type

Fig.2



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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

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

配件表 Accessories

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



• 長度單位 Unit of Length (mm)



ISO 分類	P	合金鋼 Alloyed Steels	○	○													切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	M	不鏽鋼 Stainless Steels	○	○													
	K	鑄鐵 Cast Iron	○	○													
N	鋁及鋁合金 Aluminum&Al							○									
S	高溫合金 Refractory Alloys																
H	高硬度材 Hard Material	○															
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain				超微粒硬質合金 Micro grain cemented carbide				尺寸 (mm) Size				圖形 Drawing			
		CHF				HF				Size							
		OM4010	OM4025			OM5005					d	i	s		r		
	BR08S	●	●			●				8	3	2	-				
	BR10S	●	●			●				10	4	2.5	-				
	BR12S	●	●			●				12	5	2.5	-				
	BR16S	●	●			●				16	5	3	-				
	BR20S	●	●			●				20	5	3	-				
	BR25S	●	●			●				25	6	4	-				
	BR30S	●	●			●				30	8	5	-				
	BR32S	●	●			●				32	8	5	-				
	LC1210	●								12	14	2.5	1				
	LC1220	●								12	14	2.5	2				
	LC1230	●								12	14	2.5	3				
	LC1210-F	●								12	14	2.5	1				
	LC1220-F	●								12	14	2.5	2				
	LC1230-F	●								12	14	2.5	3				
	LC1210-RE	●								12	14	2.5	1				
	LC1220-RE	●								12	14	2.5	2				
	LC1230-RE	●								12	14	2.5	3				
	LC1245-CH	●	●							12	14	2.5	-				
	LC1260-CH	●	●							12	14	2.5	-				

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

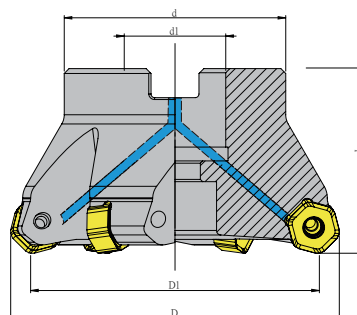
被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)
P	低合金鋼 Low-Alloy Steels	OM4010	180~200	0.08~0.20
		OM4025	180~220	0.08~0.19
P	合金鋼 Alloyed Steels	OM4010	100~140	0.08~0.12
		OM4025	100~120	0.06~0.12
M	不鏽鋼 Stainless Steels	OM4010	160~200	0.08~0.12
		OM4025	155~190	0.08~0.12
K	鑄鐵 Cast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

• 長度單位 Unit of Length (mm)



NAC45 度負角殼型銑刀

NAC 45°NEGATIVE ANGLE SHELL MILLING CUTTER



NEW

特點 Feature

- 採用負角刀片，刀片切削角數增加，降低成本
- 加工方式適合大量移除鐵削

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

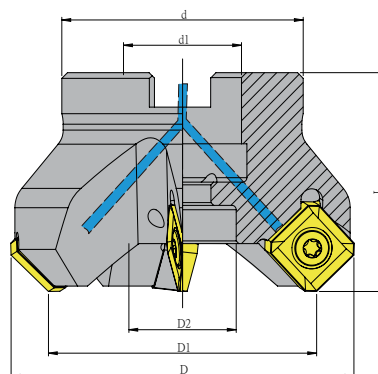
規格 Spec.	L	D	D1	d	d1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
NAC45-50-HN06-FMB22-5T-C	40	57	50	45	22	5	HN..0604	0.64
NAC45-63-HN06-FMB22-6T-C	40	72	63	48	22	6	HN..0604	0.80
NAC45-80-HN06-FMB27-7T-C	50	87	80	55	27	7	HN..0604	1.40
NAC45-100-HN06-FMB32-8T-C	50	107	100	73	32	8	HN..0604	2.10

螺絲 Screw	扳手 Wrench	扭力值 Torque(N.m)
M3-7.0-4.3-43-T9-TIN	T19	1.4Nm



NAC45 度負角殼型銑刀

NAC 45°NEGATIVE ANGLE SHELL MILLING CUTTER



NEW

特點 Feature

- 採用負角刀片，刀片切削角數增加，降低成本
- 加工方式適合大量移除鐵削

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

規格 Spec.	L	D	D1	D2	d	d1	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
NAC45-50-SN12-FMB22-4T-C	50		40	27		22	4	SN..1206	0.57
NAC45-63-SN12-FMB22-6T-C	63		40	27		22	6	SN..1206	0.78
NAC45-80-SN12-FMB27-7T-C	80		50	32		27	7	SN..1206	1.39
NAC45-100-SN12-FMB32-8T-C	100		50	42		32	8	SN..1206	1.76
NAC45-125-SN12-FMB40-10T-C	125		63	50		40	10	SN..1206	3.5
NAC45-160-SN12-FMB40-12T-C	160		63	50		40	12	SN..1206	6

配件表 Accessories

螺絲 Screw	扳手 Wrench	扭力值 Torque(N.m)
M4-7.1-13.6-60	T15	3.0m

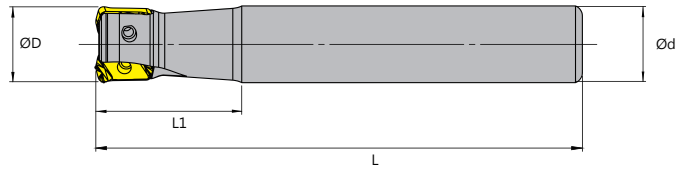
•長度單位 Unit of Length (mm)



NHF 高進給直柄銑刀

NHF HIGH FEED MILLING END MILL

NEW



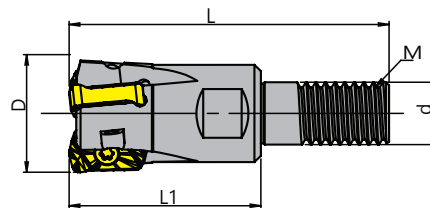
規格 Spec.	L	l ₁	D	d	T	刀片 Insert	扳手 Spanner
NHF-1516LN03-150L	150	30	15	16	2	LNMU0303	T8
NHF-1616LN03-150L	150	40	16	16	2		
NHF-1716LN03-150L	150	30	17	16	2		
NHF-2020LN03-150L	150	40	20	20	3		
NHF-2120LN03-150L	150	50	21	20	3		
NHF-2525LN03-150L	150	60	25	25	4		
NHF-2625LN03-150L	150	60	26	25	4		
NHF-2625LN03-200L	200	60	26	25	4		
NHF-3232LN03-150L	150	45	32	32	5		
NHF-3532LN03-220L	220	60	35	32	5		



NHF 高進給鎖牙銑刀

NHF HIGH FEED SCREW-ON MILLING END MILL

NEW



規格 Spec.	L	l ₁	D	d	M	刃數 T	刀片 Insert	扳手 Spanner
NHF-17M08-LN03	43	26	17	8.5	M08	2	LNMU0303	T8
NHF-21M10-LN03	49	30	21	8.5	M10	3		
NHF-26M12-LN03	57	35	26	8.5	M12	4		
NHF-35M16-LN03	66	43	35	8.5	M16	4		

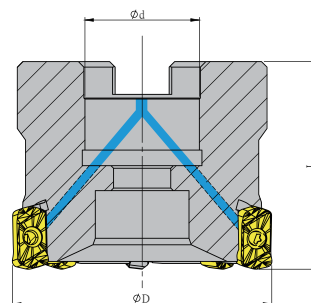
•長度單位 Unit of Length (mm)



NHF 高進給殼型銑刀

NHF HIGH FEED FACE MILLING CUTTER

NEW



規格 Spec.	D	d	L	M	T
NHF-40-FMB16-LN03-C	40	16	40	M8	6
NHF-50-FMB22-LN03-C	50	22	50	M10	8



負角刀片

NEGATIVE INSERT

ISO 分類	P	合金鋼 Alloyed Steels	○	○											切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting				
	M	不鏽鋼 Stainless Steels	○	○	○	○													
	K	鑄鐵 Cast Iron	○			○	○												
N	鋁及鋁合金 Aluminum&Al							○											
S	高溫合金 Refractory Alloys																		
H	高硬度材 Hard Material		○																
形狀 Shape	規格 Spec.	鍍層超微粒 Layer Coated micro grain					超微粒硬質合金 Micro grain cemented carbide					尺寸 (mm)				圖形 Drawing			
		CHF					HF					Size							
		RM1125	OM4025	OM5035	RM4025	RM3130	OM5005							d	i		s	r	
	NEW HNGX0604ANEN-M01		●	●							●				10.5	-	5.2	-	
	NEW LNMU0303ZER-MJ	●													6	11.9	4.3	1.2	
	NEW SNMU1206ANEN-M01				●	●									12.7	-	6.35	-	

NEW 新品 New Product

•長度單位 Unit of Length (mm)



負角刀片 NEGATIVE INSERT

LN_03 切削條件數據表 Cutting Parameter

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

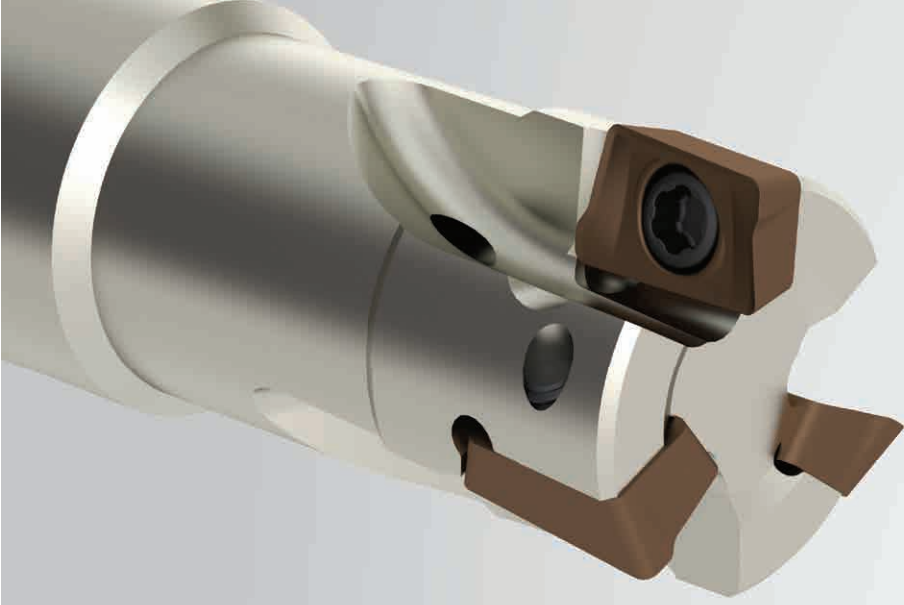
HN_06 切削條件數據表 Cutting Parameter

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

SN_12 切削條件數據表 Cutting Parameter

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

•長度單位 Unit of Length (mm)



MAS

迷你銑刀

Mini Indexable End Mill

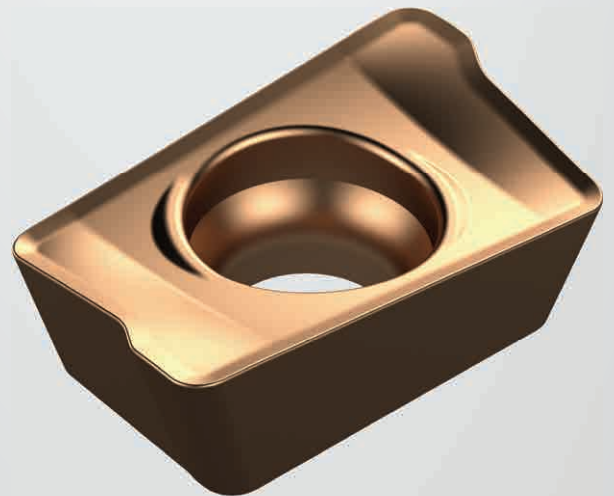
Feature

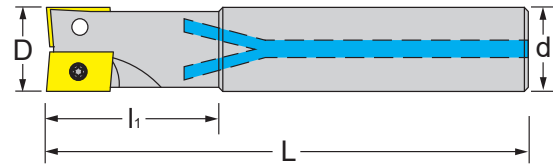
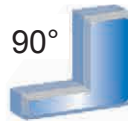
中心出水 Through Coolant

- 多刃型設計可提高加工效率
Multi-cutting-edge design improves machining efficiency.
- 刀具材質選用特殊鋼材，增強刀具穩定性
Made by special alloyed steel to enhance the stability of the cutting tool.
- 尺寸從 $\text{Ø}10\sim\text{Ø}63$ 均有刀具搭配，鎖牙式結構可結合碳化鎢鎖牙延長桿，針對小尺寸及閃避干涉加工使用，適合電子產業及加工產業
The MAS type cutters are available from 10 to 63 mm. We also have screwed on type structure which can be combined with tungsten carbide extension. They are suitable for small and interference cutting especially for electronics industries.

APKT060204

- 刃口強化，低阻力的高精度設計，適合斷續切削
Low-resistance and high-precision design are good for interrupted cutting.
- 複合塗層，可提高刀片使用壽命
Composite coating helps to improve insert life.





特點 Feature

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

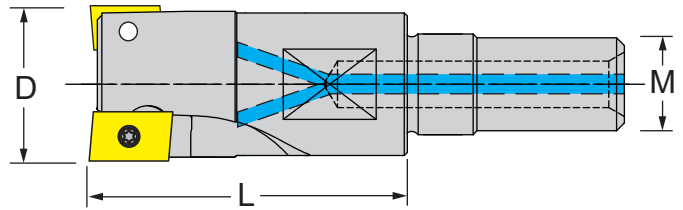
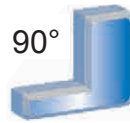
- Made by special alloyed steel to enhance the stability of the cutting tool.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	l ₁	D	d	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
MAS-1008AP06-100L-2T-C	100	15	10	8	2	AP.0602	0.06
MAS-1010AP06-80L-2T-C	80	20	10	10	2	AP.0602	0.06
MAS-1110AP06-80L-2T-C	80	20	11	10	2	AP.0602	0.06
MAS-1210AP06-100L-2T-C	100	20	12	10	2	AP.0602	0.08
MAS-1212AP06-80L-2T-C	80	20	12	12	2	AP.0602	0.08
MAS-1212AP06-80L-3T-C	80	20	12	12	3	AP.0602	0.08
MAS-1412AP06-80L-3T-C	80	20	14	12	3	AP.0602	0.08
MAS-1614AP06-160L-3T-C	160	25	16	14	3	AP.0602	0.2
MAS-1616AP06-120L-3T-C	120	25	16	16	3	AP.0602	0.18
MAS-1616AP06-160L-3T-C	160	25	16	16	3	AP.0602	0.24
MAS-1616AP06-90L-4T-C	90	25	16	16	4	AP.0602	0.14
MAS-1816AP06-90L-4T-C	90	25	18	16	4	AP.0602	0.16
MAS-2018AP06-160L-4T-C	160	30	20	18	4	AP.0602	0.32
MAS-2020AP06-160L-4T-C	160	30	20	20	4	AP.0602	0.38
MAS-2020AP06-100L-5T-C	100	30	20	20	5	AP.0602	0.22
MAS-2120AP06-110L-5T-C	110	30	21	20	5	AP.0602	0.26
MAS-2520AP06-110L-7T-C	110	40	25	20	7	AP.0602	0.28
MAS-2525AP06-120L-7T-C	120	40	25	25	7	AP.0602	0.44
MAS-3225AP06-130L-8T-C	130	45	32	25	8	AP.0602	0.54
MAS-4032AP06-140L-10T-C	140	45	40	32	10	AP.0602	0.94

配件表 Accessories

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

• 長度單位 Unit of Length (mm)



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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

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

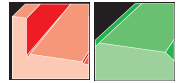
配件表 Accessories

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

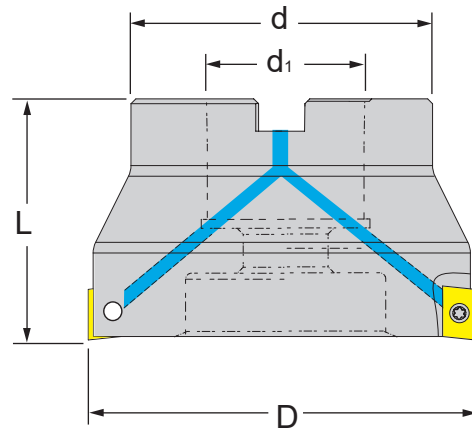
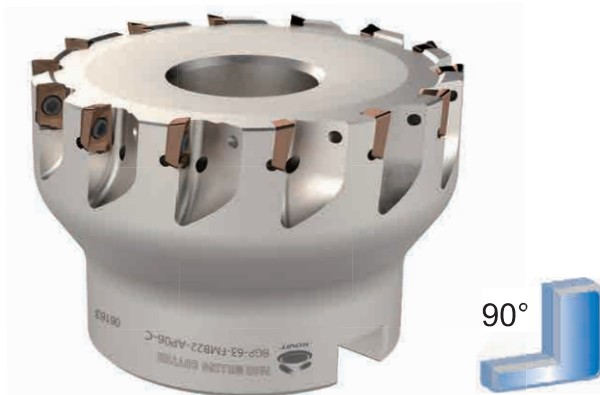
• 長度單位 Unit of Length (mm)

BGP 迷你殼型銑刀

BGP FACE MILLING CUTTER



KOVIT



特點 Feature

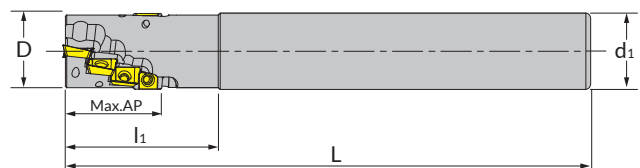
- 刀器材質選用特殊鋼材，增強刀具穩定性
- 整體預硬後，再行精修，避免二次處理所產生應變

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

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

APE 迷你型粗切削銑刀

APE MINI ROUGH CUTTING END MILL


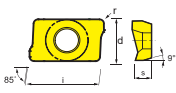

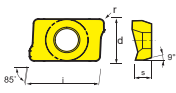

KOVIT
NEW


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

配件表 Accessories

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

• 長度單位 Unit of Length (mm)

ISO 分類	P	合金鋼 Alloyed Steels	○									切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	M	不鏽鋼 Stainless Steels	○									
	K	鑄鐵 Cast Iron										
	N	鋁及鋁合金 Aluminum&Al					○	○				
	S	高溫合金 Refractory Alloys										
	H	高硬度材 Hard Material										
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain						尺寸 (mm) Size				圖形 Drawing
		CHF			HF			Size				
		RM4130							d	i	s	
	APKT060204-M02	●						3.7	6.45	2.38	0.4	
	APKT060204-MT					●	●	3.7	6.45	2.38	0.4	

- MT 鋁合金專用 MT: Applicable to Aluminum

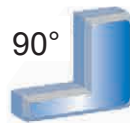
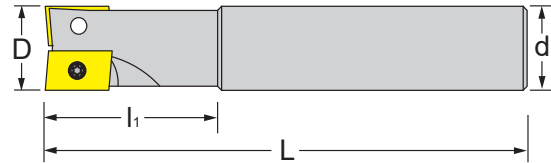
適用 BGP&MAS (Suitable for BGP & MAS)

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

適用 APE (Suitable for APE)

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

•長度單位 Unit of Length (mm)



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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

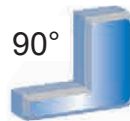
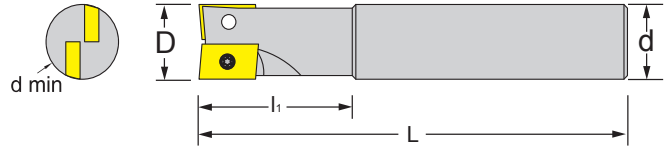
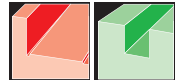
規格 Spec.	L	l ₁	D	d	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
MAS-1012-100L	100	20	10	12	1	AP.1003	0.09
MAS-1212-100L	100	25	12	12	1	AP.1003	0.09
MAS-1616-120L	120	25	16	16	2	AP.1003	0.18
MAS-1616-160L	160	25	16	16	2	AP.1003	0.24
MAS-1716-120L	120	25	17	16	2	AP.1003	0.30
MAS-1716-180L	180	25	17	16	2	AP.1003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

配件表 Accessories

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



• 長度單位 Unit of Length (mm)



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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

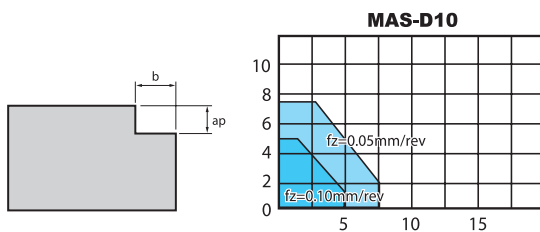
規格 Spec.	L	l ₁	D	d	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
MAS-2525-150L	150	40	25	25	2	AP.1604	0.55
MAS-2525-220L	220	40	25	25	2	AP.1604	0.81
MAS-3232-150L	150	45	32	32	2	AP.1604	0.88
MAS-3232-150L	150	45	32	32	3	AP.1604	0.87
MAS-3232-200L	200	45	32	32	2	AP.1604	1.20
MAS-3232-250L	250	45	32	32	2	AP.1604	1.53
MAS-4032-150L	150	45	40	32	4	AP.1604	0.99
MAS-4032-250L	250	45	40	32	4	AP.1604	1.62

配件表 Accessories

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

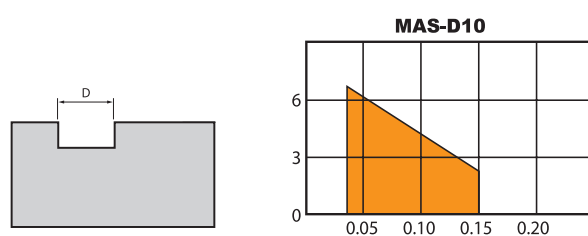
肩銑加工 Shoulder milling

被削材質 Machining material : S58C(HB220)



開槽加工 Grooving

被削材質 Machining material : S58C(HB280)



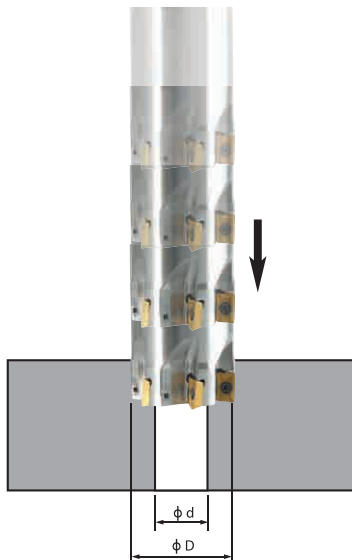
•長度單位 Unit of Length (mm)



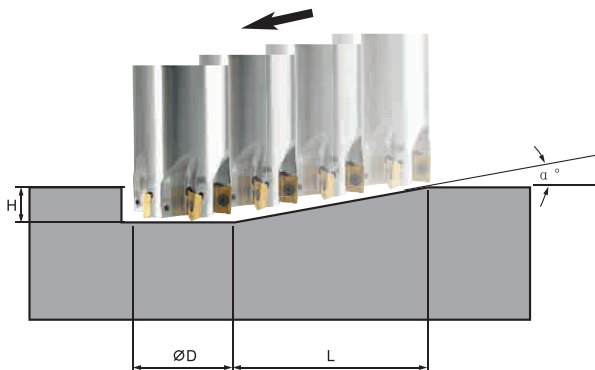
AP_10.16 切削條件數據表 Cutting Parameter

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

沉孔頭加工 Countersink hole drilling



斜度銑削加工 Inclined milling



MAS AP_10

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

MAS AP_16

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

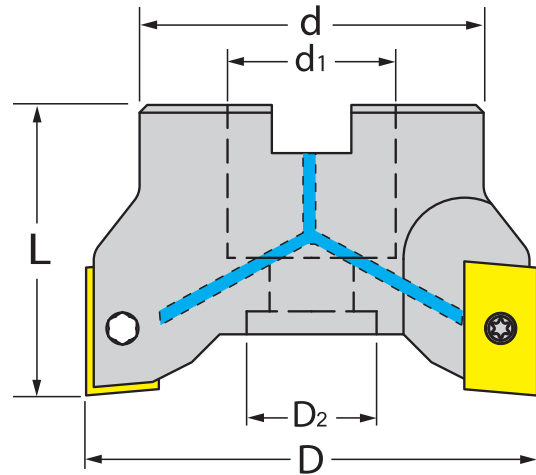
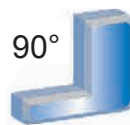
MAS AP_10

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

MAS AP_16

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

•長度單位 Unit of Length (mm)



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後·再行精修·避免二次處理所產生應變

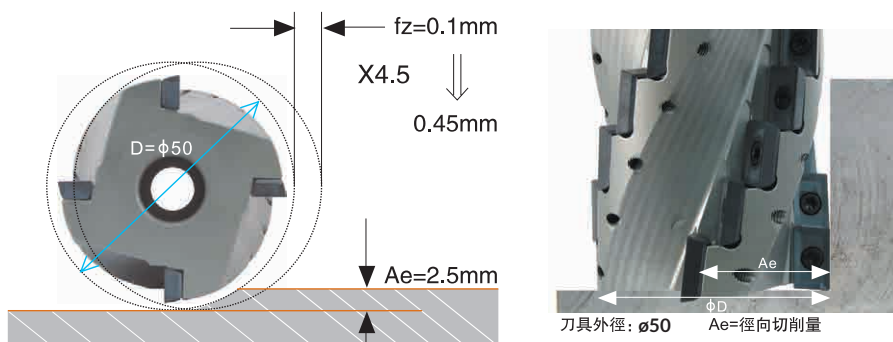
- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	D	D ₂	d	d ₁	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
BGP-500-FMB22-AP10-7T-C	40	50	18	40	22	7	AP..1003	0.54
BGP-630-FMB22-AP10-9T-C	40	60	18	48	22	9	AP..1003	0.76
BGP-800-FMB27-AP10-11T-C	50	80	32	62	27	11	AP..1003	1.36
BGP-1000-FMB32-AP10-13T-C	50	100	42	78	32	13	AP..1003	2.12
BGP-1250-FMB40-AP10-16T-C	63	125	50	89	40	16	AP..1003	3.66

配件表 Accessories

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

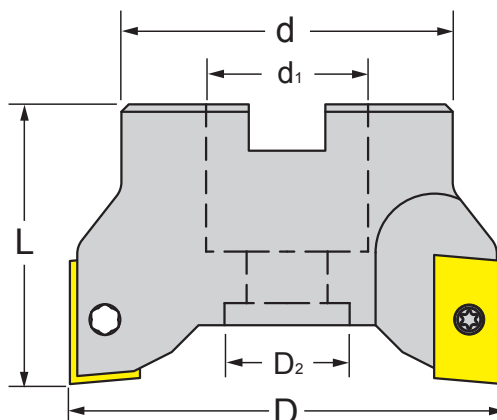
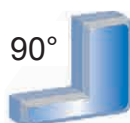
範例 Example



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



•長度單位 Unit of Length (mm)



特點 Feature

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- 整體預硬後，再行精修，避免二次處理所產生應變

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

規格 Spec.	L	D	D ₂	d	d ₁	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
BGP-500	50	50	19	40	25.4	4	AP.1604	0.42
BGP-500-FMB22	50	50	18	40	22	4	AP.1604	0.46
BGP-630	50	63	19	50	25.4	5	AP.1604	0.72
BGP-630-FMB22	50	63	18	50	22	5	AP.1604	0.76
BGP-800	55	80	42	60	31.75	6	AP.1604	0.94
BGP-800-FMB27	55	80	42	60	27	6	AP.1604	0.99
BGP-1000	55	100	42	60	31.75	8	AP.1604	1.62
BGP-1000-FMB32	55	100	42	60	32	8	AP.1604	1.61
BGP-1250	63	125	60	85	38.1	8	AP.1604	3.09
BGP-1250-FMB40	63	125	60	85	40	8	AP.1604	3.07
BGP-1600	63	160	80	120	50.8	10	AP.1604	4.73
BGP-1600-FMB40	63	160	80	120	40	10	AP.1604	5.61

配件表 Accessories

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



• 長度單位 Unit of Length (mm)



ISO 分類	P	合金鋼 Alloyed Steels	○	○		○												切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	M	不鏽鋼 Stainless Steels	○			○												
	K	鑄鐵 Cast Iron	○		○													
N	鋁及鋁合金 Aluminum&Al							■	■	○	■							
S	高溫合金 Refractory Alloys									○								
H	高硬度材 Hard Material																	
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain					超微粒硬質合金 Micro grain cemented carbide					尺寸 (mm) Size				圖形 Drawing		
		CHF					HF					Size						
		OM4025	OM4025N	RM3130	RM4130	RM535	GH05	OM5005	OM5060	RM5005	RM5060	d	i	s	r			
	★ APEX100304PDFR-F01							●	●			6.68	10.5	2.38	0.4			
	★ APEX1604PDFR-F01							●	●			9.525	16.4	4.76	-			
	★ APEX160400PDFR-F01							●	●			9.525	16.4	4.76	-			
	★ APEX160402PDFR-F01							●	●			9.525	16.4	4.76	0.2			
	★ APEX160404PDFR-F01							●	●			9.525	16.4	4.76	0.4			
	★ APEX160408PDFR-F01							●	●			9.525	16.4	4.76	0.8			
	APEX1604PDFR-701							●				9.525	16.4	4.76	0.2			
	APGT100304PDFR-F04									●		6.68	10.5	2.38	0.4			
	APGT1604PDFR-G2									●		9.525	16.5	4.76	0.8			
	APGT160408PDFR-F02									●		9.525	16.4	4.76	0.8			
	APHT1003PDER-F03									●		6.68	10.4	3.47	0.8			
	APKT100304PDER-M04				●							6.68	10.5	2.38	0.4			
	APKT1003PDER-M05					●						6.68	10.5	3.47	-			
	APKT1604PDER-M05					●						9.525	16.4	4.76	0.4			
	★ APKT160408-M01	●	●									9.525	16.6	4.76	0.8			
	APKT160408PDER-M02			●	●							9.525	16.4	4.76	0.8			

★推薦 Recommended

•長度單位 Unit of Length (mm)



AP_10.16 切削條件數據表 Cutting Parameter

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

主軸轉速 = (1000 × 切削速度) ÷ (3.14 × 刀具外徑)

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

床檯進給 (mm/min) = 每刃進給 × 刀具刃數 × 主軸轉速

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

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

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

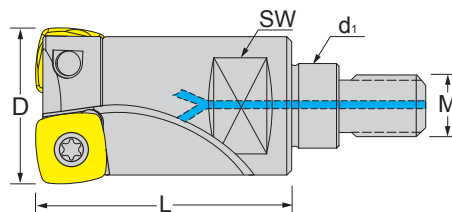
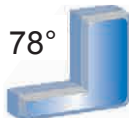
• 長度單位 Unit of Length (mm)



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



KOVIT



特點 Feature

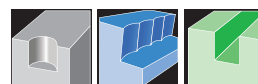
- 切削力以軸向為主·與圓形刀片刀具相比較·刀片及刀具的使用壽命較長
- 可大進給切削工件·減少加工時間
- 刀片可使用四個刃口·有效降低成本

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

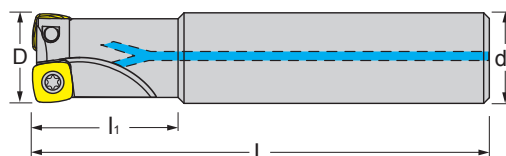
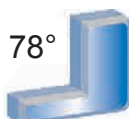
規格 Spec.	L	D	d ₁	M	SW	鎖固力 (N.m)	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
HAS-1616-M8-SP06-C	25	16	8.5	8	10	25	2	SP..0603	0.04
HAS-2020-M10-SP06-C	35	20	10.5	10	15	40	3	SP..0603	0.07
HAS-2525-M12-SP06-C	35	25	12.5	12	19	60	4	SP..0603	0.10
HAS-3232-M16-SP06-C	43	32	17	16	26	80	5	SP..0603	0.22
HAS-2525-M12-SD09-C	35	25	12.5	12	19	60	2	SD..0904	0.08
HAS-3232-M16-SD09-C	43	32	17	16	26	80	3	SD..0904	0.19
HAS-4040-M16-SD09-C	50	40	17	16	30	80	4	SD..0904	0.39



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



KOVIT



特點 Feature

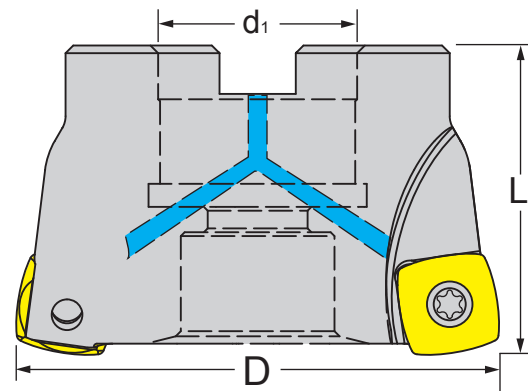
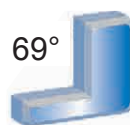
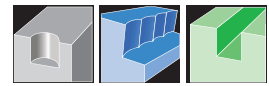
- 切削力以軸向為主·與圓形刀片刀具相比較·刀片及刀具的使用壽命較長
- 可大進給切削工件·減少加工時間
- 刀片可使用四個刃口·有效降低成本

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

規格 Spec.	L	l ₁	D	d ₁	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
HAS-1616-120L-C	120	25	16	16	2	SP..0603	0.15
HAS-2020-120L-C	120	32	20	20	3	SP..0603	0.24
HAS-2525-150L-C	150	40	25	25	4	SP..0603	0.49
HAS-3232-150L-C	150	40	32	32	5	SP..0603	0.83
HAS-2525-120L-C	120	35	25	25	2	SD..0904	0.42
HAS-2625-120L-C	120	35	26	25	2	SD..0904	0.44
HAS-3232-130L-C	130	40	32	32	3	SD..0904	0.74
HAS-3332-130L-C	130	40	33	32	3	SD..0904	0.76
HAS-4032-170L-C	170	50	40	32	4	SD..0904	1.10

配件表 Accessories

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





特點 Feature

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

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

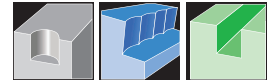
規格 Spec.	L	D	d ₁	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
HGP-500-FMB22-C	40	50	22	4	SD..1205	0.37
HGP-500-FMA25.4-C	40	50	25.4	4	SD..1205	0.38
HGP-630-FMB22-C	40	63	22	4	SD..1205	0.54
HGP-630-FMA25.4-C	40	63	25.4	4	SD..1205	0.66
HGP-800-FMB27-C	50	80	27	5	SD..1205	1.03
HGP-800-FMA31.75-C	50	80	31.75	5	SD..1205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

配件表 Accessories

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



•長度單位 Unit of Length (mm)

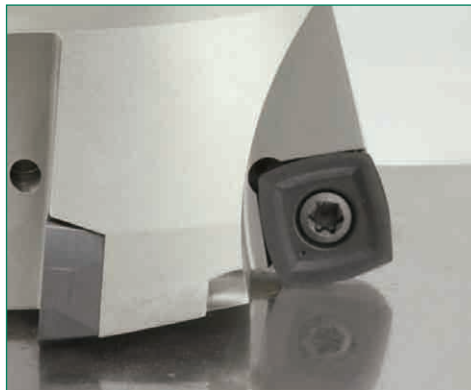


ISO 分類	P	合金鋼 Alloyed Steels	○	○	○														
	M	不鏽鋼 Stainless Steels	○	○	○														
	K	鑄鐵 Cast Iron	○	○	○														
	N	鋁及鋁合金 Aluminum&Al									■								
S	高溫合金 Refractory Alloys																		
H	高硬度材 Hard Material	○																	

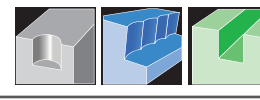
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain						超微粒硬質合金 Micro grain cemented carbide				尺寸 (mm) Size				圖形 Drawing
		CHF						HF				Size				
		OM4010	OM4025	RM4025				OM5005				d	i	s	r	
	SDET090408EDER-M01	●	●									9.52	9.52	4.76	0.8	
	NEW SDMT090408EDER-M04			●								9.52	9.52	4.76	0.8	
	SDET120508ER-M01	●	●									12.7	12.7	5.56	0.8	
	NEW SDMT120512EDER-M04			●								12.7	12.7	5.56	0.8	
	SPET060308ER-M01	●	●						●			7	7	3.18	0.8	
	NEW SPMT060308EDER-M04			●								7	7	3.18	0.8	

NEW 新品 New Product

範例 Example



•長度單位 Unit of Length (mm)



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

SP.0603

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

SD..0904

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

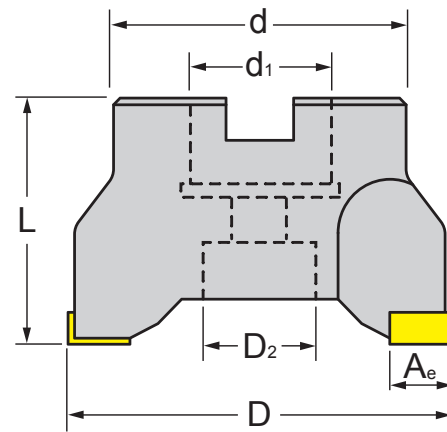
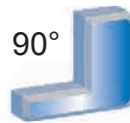
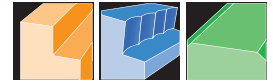
SD..1205

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

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

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

• 長度單位 Unit of Length (mm)



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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

規格 Spec.	L	D	D ₂	d	d ₁	切幅寬 Ae	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
MSAE-50-FMB22	50	50	18	42	22	11	3	CN..1206	0.47
MSAE-63-FMB22	50	63	18	50	22	14	3	CN..1508	0.75
MSAE-80	55	80	42	60	25.4	14	4	CN..1508	1.05
MSAE-80-FMB27	55	80	42	60	27	14	4	CN..1508	1.03

配件表 Accessories

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

ISO 分類	ISO Material Classification										切削狀態 Cutting Condition :					
	P	M	K	N	S	H										
	合金鋼 Alloyed Steels	不鏽鋼 Stainless Steels	鑄鐵 Cast Iron	鋁及鋁合金 Aluminum&Al	高溫合金 Refractory Alloys	高硬度材 Hard Material										
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coating ultra-micro								尺寸 (mm) Size				圖形 Drawing		
		CHF								Size						
		OM4010	OM4025							d	i	s	r			
	CNEX120612-M01	●	●									12.7	-	6.35	1.2	
	CNEX150812-M01	●	●									15	-	8	1.2	

•長度單位 Unit of Length (mm)



特點 Feature

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

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

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

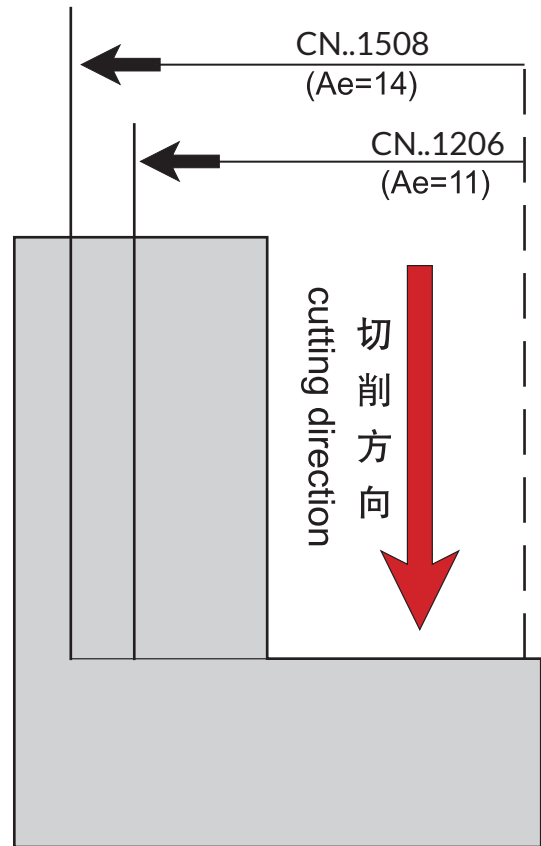
The insert can bear huge cutting resistance during high feeding. With bigger chip breaker which stores chips temporarily, the cutter is free of vibration and is high cutting efficiency.

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

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

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

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



CN_12.15 切削條件數據表 Cutting Parameter

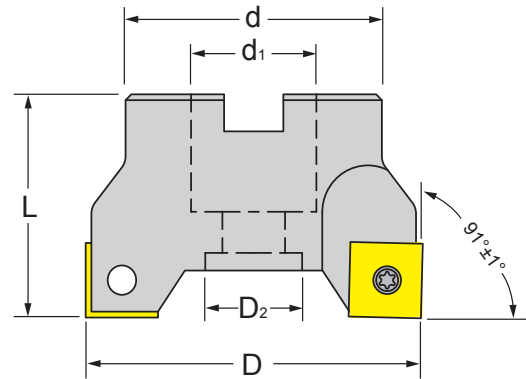
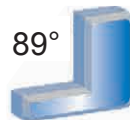
被加工材質 Machining Materials	刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)
P 低合金鋼 Low-Alloy Steels	OM4010	90~190	0.10~0.25
	OM4025	80~170	0.08~0.25
M 合金鋼 Alloyed Steels	OM4010	70~160	0.08~0.20
	OM4025	70~160	0.08~0.20
K 不鏽鋼 Stainless Steels	OM4010	70~180	0.10~0.20
	OM4025	70~160	0.10~0.18
K 鑄鐵 Cast Iron	OM4025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

主軸轉速 = (1000 × 切削速度) ÷ (3.14 × 刀具外徑)

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

床檯進給 (mm/min) = 每刃進給 × 刀具刃數 × 主軸轉速

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



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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

規格 Spec.	L	D	D ₂	d	d ₁	切幅寬 Ae	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
SGP-50-FMB22	50	50	18	40	22	12	4	SP..1204	0.44
SGP-63	50	63	19	50	25.4	12	5	SP..1204	0.68
SGP-63-FMB22	50	63	18	50	22	12	5	SP..1204	0.71
SGP-80	50	80	32	60	25.4	12	6	SP..1204	0.93
SGP-80-FMB27	50	80	32	60	27	12	6	SP..1204	0.99
SGP-100	55	100	42	70	31.75	12	8	SP..1204	1.71
SGP-100-FMB32	55	100	42	70	32	12	8	SP..1204	1.71
SGP-125-FMB40	63	125	58	90	40	12	8	SP..1204	3.22
SGP-160-FMB40	63	160	58	130	40	12	10	SP..1204	6.22

配件表 Accessories

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

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

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

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

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



•長度單位 Unit of Length (mm)

ISO 分類	P	合金鋼 Alloyed Steels	○	○	○													
	M	不鏽鋼 Stainless Steels	○	○	○													
	K	鑄鐵 Cast Iron	○	○	○													
ISO 分類	N	鋁及鋁合金 Aluminum&Al									■							
	S	高溫合金 Refractory Alloys																
	H	高硬度材 Hard Material	○															
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain			超微粒硬質合金 Micro grain cemented carbide				尺寸 (mm) Size				圖形 Drawing					
		CHF			HF				Size									
		OM4010	OM4025	RM4025					OM5005						d	i	s	r
	SPET120408-M02	●	●															
	SPMT120408-R01			●														

切削狀態 Cutting Condition :

- 連續切削 Continuous Cutting
- 一般切削 General Cutting
- 斷續切削 Interrupted Cutting

SP_12 切削條件數據表 Cutting Parameter

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

主軸轉速 = (1000 × 切削速度) ÷ (3.14 × 刀具外徑)

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

床檯進給 (mm/min) = 每刃進給 × 刀具刃數 × 主軸轉速

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

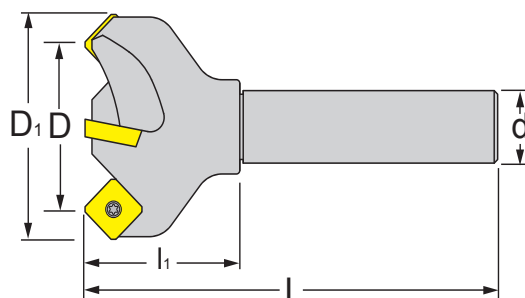
• 長度單位 Unit of Length (mm)



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



KOVIT



特點 Feature

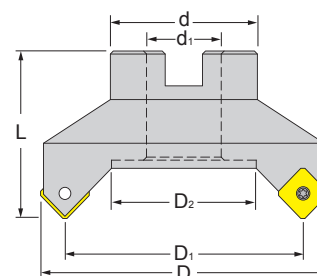
- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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

規格 Spec.	L	l ₁	D	D ₁	d	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
C20-KE50	120	45	50	63.7	20	4	SE..1204	0.77
C25-KE50	120	45	50	63.7	25	4	SE..1204	0.85
C32-KE50	120	45	50	63.7	32	4	SE..1204	1.06
C25-KE63	120	45	63	75	25	5	SE..1204	1.14
C32-KE63	120	45	63	75	32	5	SE..1204	1.36



KM45° 殼型銑刀 KM45° FACE SHELL MILLING CUTTER



規格 Spec.	L	D	D ₁	D ₂	d	d ₁	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
KM-50-FMB22	40	63	50	18	46	22	4	SE..1204	0.52
KM-63	45	76	63	19	48	25.4	5	SE..1204	0.78
KM-63-FMB22	45	76	63	18	48	22	5	SE..1204	0.80
KM-80	50	95	80	45	60	31.75	6	SE..1204	1.15
KM-80-FMB27	50	95	80	44.2	60	27	6	SE..1204	1.21
KM-100	50	114	100	61.8	80	31.75	6	SE..1204	1.83
KM-100-FMB32	50	114	100	61.8	80	32	6	SE..1204	1.81
KM-125	63	140	125	72.1	90	38.1	8	SE..1204	3.07
KM-125-FMB40	63	140	125	72.1	90	40	8	SE..1204	3.04
KM-160	63	175	160	110.9	120	50.8	10	SE..1204	5.05
KM-160-FMB40	63	175	160	110.9	120	40	10	SE..1204	5.35
KM-200	63	215	200	145.9	160	47.625	12	SE..1204	7.62
KM-250	63	265	250	195.8	220	47.625	14	SE..1204	13.3

• 長度單位 Unit of Length (mm)



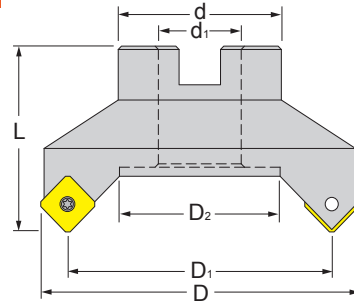
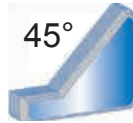
KM45°殼型銑刀

KM45° FACE SHELL MILLING CUTTER



KOVIT

左旋 Counterclockwise



規格 Spec.	L	D	D ₁	D ₂	d	d ₁	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
KM-80-FMB27-L	50	95	80	44.2	60	27	6	SE..1204	1.17
KM-80-FMA31.75-L	50	94	80	45	60	31.75	6	SE..1204	0.66
KM-100-FMB32-L	50	114	100	61.8	80	32	6	SE..1204	1.83
KM-125-FMB40-L	63	140	125	72.1	90	40	8	SE..1204	3.07
KM-160-FMB40-L	63	175	160	110.9	120	40	10	SE..1204	5.05

配件表 Accessories

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



KM45°殼型銑刀

KM45° FACE SHELL MILLING CUTTER



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

切削狀態 Cutting Condition :

- 連續切削 Continuous Cutting
- 一般切削 General Cutting
- 斷續切削 Interrupted Cutting

★ 推薦 Recommended

• 長度單位 Unit of Length (mm)

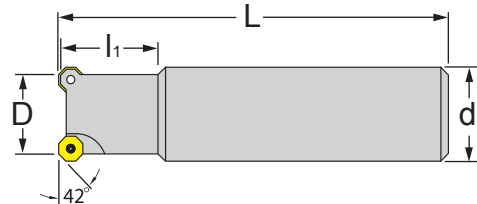


SE_12 切削條件數據表 Cutting Parameter

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

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

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



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

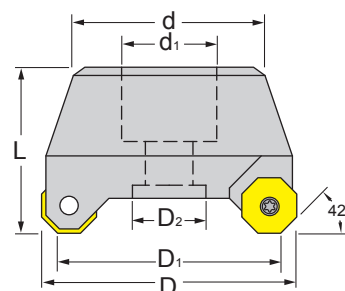
- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	l ₁	D	d	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
SKM-2520-120L	120	40	25	20	2	OD..0404	0.32
SKM-2525-120L	120	40	25	25	2	OD..0404	0.45
SKM-3225-120L	120	40	32	25	3	OD..0404	0.48
SKM-3232-120L	120	40	32	32	3	OD..0404	0.71
SKM-4032-120L	120	50	40	32	4	OD..0404	0.82

配件表 Accessories

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

• 長度單位 Unit of Length (mm)



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

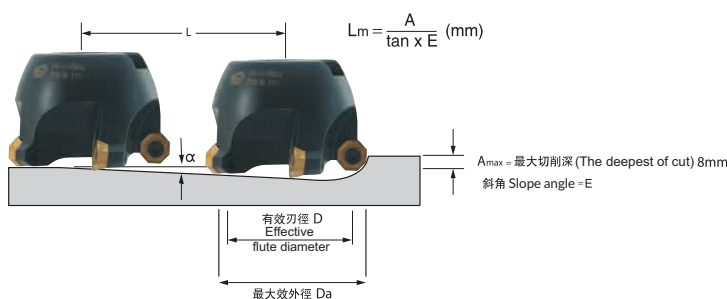
- Made of anti-vibration tool steel
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	D	D ₁	D ₂	d	d ₁	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
SKM-50-FMB22	45	58	50	18	42.24	22	4	OD..0404	0.50
SKM-63	45	71	63	19	48.82	25.4	5	OD..0404	0.63
SKM-63-FMB22	45	71	63	18	48.82	22	5	OD..0404	0.67
SKM-80	50	88	80	44	61.78	31.75	6	OD..0404	1.13
SKM-80-FMB27	50	88	80	35	61.78	27	6	OD..0404	1.24
SKM-100	55	108	100	45	70	31.75	7	OD..0404	1.86
SKM-100-FMB32	55	108	100	45	70	32	7	OD..0404	1.86
SKM-125	58	133	125	60	90	38.1	8	OD..0404	3.13
SKM-160	63	168	160	93.81	125	50.8	10	OD..0404	5.83

配件表 Accessories

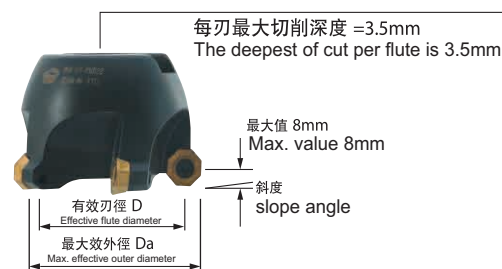
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
OD..0404	M4-10-5.7-60	T15	3.0

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



螺旋斜度銑削公式

Formula to spiral milling



螺旋銑削加工數據 Spiral milling data

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

•長度單位 Unit of Length (mm)



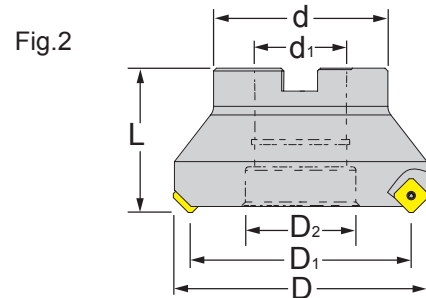
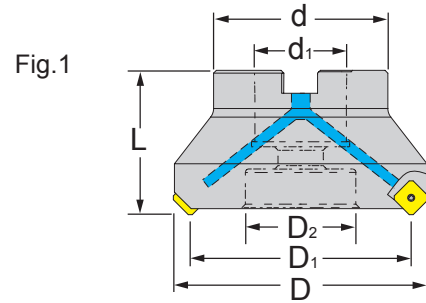
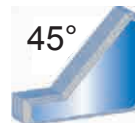
ISO 分類	P	合金鋼 Alloyed Steels	○																切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	M	不鏽鋼 Stainless Steels																	
	K	鑄鐵 Cast Iron																	
	N	鋁及鋁合金 Aluminum&Al																	
	S	高溫合金 Refractory Alloys																	
	H	高硬度材 Hard Material																	
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain	硬質合金 Carbide alloy			超微粒硬質合金 Micro grain carbide alloy			尺寸 (mm)				圖形 Drawing						
		CHF	HW			HF			Size										
		OM4025									d	i		s	r				
	ODMT040408	●																	

OD_04 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切深 Ap(mm)
P	低合金鋼 Low-Alloy Steels	OM4025	130~330	0.08~0.40	1.0~2.0
	合金鋼 Alloyed Steels	OM4025	70~160	0.08~0.20	1.0~2.0



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

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



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

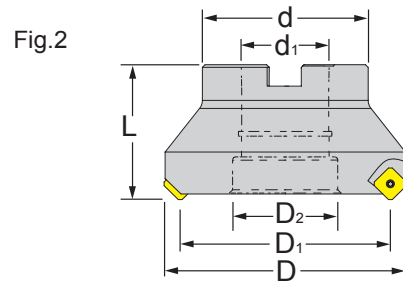
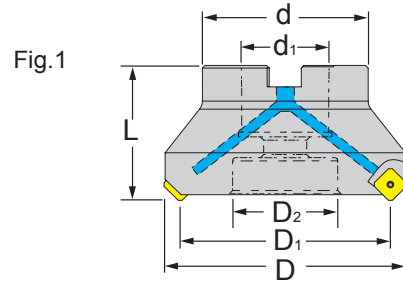
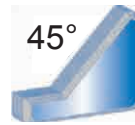
配件表 Accessories

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

•長度單位 Unit of Length (mm)

燒結式 Shrink-Fit

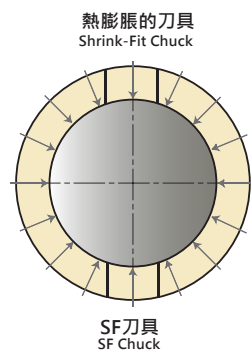
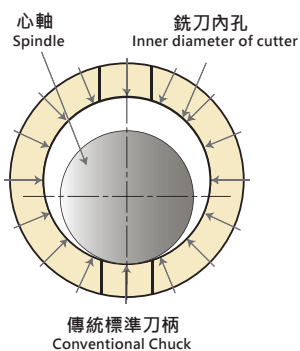
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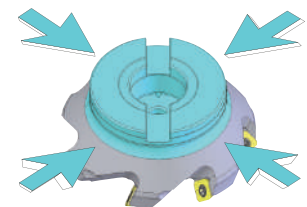
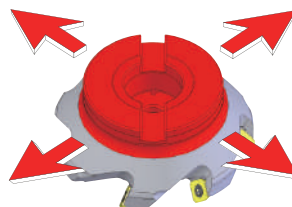
規格 Spec.	L	D	D ₁	D ₂	d	d ₁	刃數 Flutes	刀片 Insert	Fig.	重量 (KGS) Weight
SFM-50-SF-FMB22-C	40	62	50	18	48	22	4	SE..13T3	1	0.64
SFM-50-SF-FMA25.4-C	40	62	50	20	50	25.4	4	SE..13T3	1	0.54
SFM-63-SF-FMB22-C	40	75	63	18	48	22	5	SE..13T3	1	0.70
SFM-63-SF-FMA25.4-C	40	75	63	20	50	25.4	5	SE..13T3	1	0.68
SFM-80-SF-FMB27-C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

配件表 Accessories

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







SF 刀具原理 SF Tool Principle



• 長度單位 Unit of Length (mm)



ISO 分類	P	合金鋼 Alloyed Steels																			切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	M	不鏽鋼 Stainless Steels	○																		
	K	鑄鐵 Cast Iron																			
N	鋁及鋁合金 Aluminum&Al									■											
S	高溫合金 Refractory Alloys																				
H	高硬度材 Hard Material																				
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain								超微粒硬質合金 Micro grain cemented carbide				尺寸 (mm) Size				圖形 Drawing			
		CHF								HF											
		RM2140	RM4025							RM5005					d	i	s		r		
	SEET13T3AGFN-F01									●					13.4	-	3.97	2.55			
	SEMT13T3AGEN-M02	●	●												13.4	-	3.97	2.55			

SE_13T3 切削條件數據表 Cutting Parameter

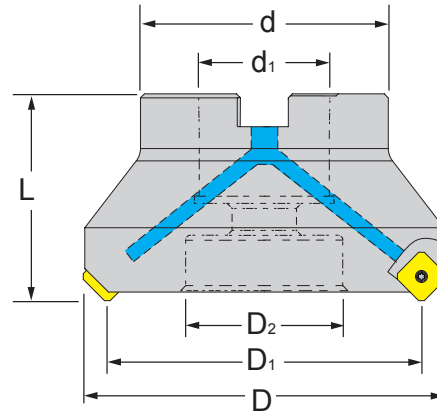
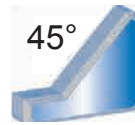
被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)
P	低合金鋼 Low-Alloy Steels	RM4025	220~260	0.20~0.45
	合金鋼 Alloyed Steels	RM4025	220~260	0.20~0.45
M	不鏽鋼 Stainless Steels	RM2140	130~250	0.20~0.35
N	鋁合金 Aluminum&Al	RM5005	500~850	0.15~0.35
S	高溫合金 Refractory Alloys	RM2140	130~250	0.20~0.35

主軸轉速 = (1000 × 切削速度) ÷ (3.14 × 刀具外徑)

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

床檯進給 (mm/min) = 每刃進給 × 刀具刃數 × 主軸轉速

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

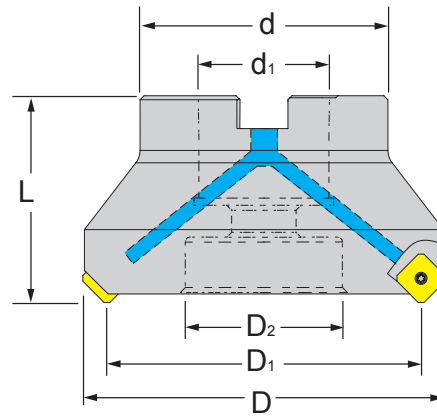
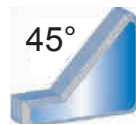


規格 Spec.	L	D	D ₁	D ₂	d	d ₁	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
KFM-50-FMB22-C	40	62	50	18	48	22	4	SE..1204	0.51
KFM-50-FMA25.4-C	40	62	50	20	50	25.4	4	SE..1204	0.51
KFM-63-FMB22-C	40	75	63	18	48	22	5	SE..1204	0.73
KFM-63-FMA25.4-C	40	75	63	32	50	25.4	5	SE..1204	0.70
KFM-80-FMB27-C	50	92	80	32	62	27	6	SE..1204	1.31
KFM-80-FMA31.75-C	50	92	80	42	62	31.75	6	SE..1204	1.21
KFM-100-FMB32-C	50	112	100	42	78	32	7	SE..1204	2.00
KFM-100-FMA31.75-C	50	112	100	42	78	31.75	7	SE..1204	2.02
KFM-125-FMB40-C	63	137	125	50	89	40	8	SE..1204	3.53
KFM-125-FMA38.1-C	63	137	125	50	80	38.1	8	SE..1204	3.25

配件表 Accessories

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

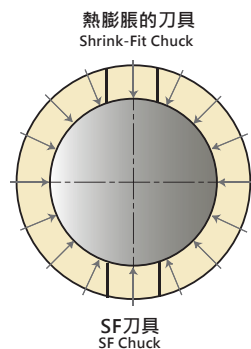
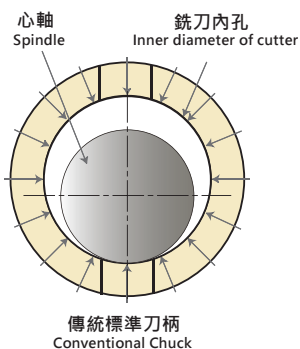
燒結式 Shrink-Fit



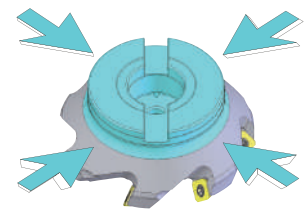
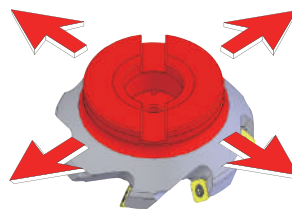
規格 Spec.	L	D	D ₁	D ₂	d	d ₁	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
KFM-50-SF-FMB22-C	40	62	50	18	48	22	4	SE..1204	0.51
KFM-50-SF-FMA25.4-C	40	62	50	20	50	25.4	4	SE..1204	0.51
KFM-63-SF-FMB22-C	40	75	63	18	48	22	5	SE..1204	0.73
KFM-63-SF-FMA25.4-C	40	75	63	32	50	25.4	5	SE..1204	0.70
KFM-80-SF-FMB27-C	50	92	80	32	62	27	6	SE..1204	1.31
KFM-80-SF-FMA31.75-C	50	92	80	42	62	31.75	6	SE..1204	1.21
KFM-100-SF-FMB32-C	50	112	100	42	78	32	7	SE..1204	2.00
KFM-100-SF-FMA31.75-C	50	112	100	42	78	31.75	7	SE..1204	2.02
KFM-125-SF-FMB40-C	63	137	125	50	89	40	8	SE..1204	3.53
KFM-125-SF-FMA38.1-C	63	137	125	50	80	38.1	8	SE..1204	3.25

配件表 Accessories

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



SF 刀具原理
SF Tool Principle



•長度單位 Unit of Length (mm)



ISO 分類	P	合金鋼 Alloyed Steels	○	○	○		●													
	M	不鏽鋼 Stainless Steels	○	○	○	○														
	K	鑄鐵 Cast Iron	○	○	○															
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain					超微粒硬質合金 Micro grain cemented carbide					尺寸 (mm) Size				圖形 Drawing				
		CHF					HF													
		OM4010	OM4025	RM4025	RM4230	OM1025	OM5060	GH1							d		i	s	r	
	★ SEHT1204AFEN-M01	●	●											12.7	-	4.76	Facet			
	SEHT1204AFEN-M02				●									12.7	-	4.76	Facet			
	SEHT1204AFEN						●	●						12.7	-	4.76	-			
	SEKT1204AFEN			●										12.7	-	4.76	-			
	SEKW1204AFEN		●			●								12.7	-	4.76	-			

★ 推薦 Recommended

SE_12 切削條件數據表 Cutting Parameter

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

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

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

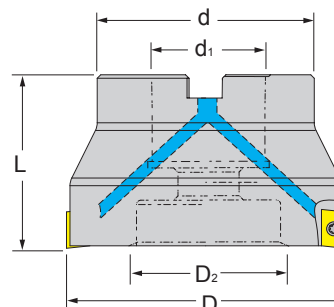
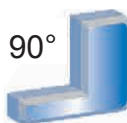
• 長度單位 Unit of Length (mm)

IFM 殼型銑刀

IFM FACE MILLING CUTTER



KOVIT



規格 Spec.	L	D	D ₂	d	d ₁	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
IFM-50-FMB22-C	40	50	18	45	22	5	AP..1604	0.43
IFM-63-FMB22-C	40	63	18	48	22	5	AP..1604	0.57
IFM-80-FMB27-C	50	80	32	62	27	6	AP..1604	1.16
IFM-100-FMB32-C	50	100	42	78	32	7	AP..1604	1.90
IFM-125-FMB40-C	63	125	50	89	40	8	AP..1604	3.41

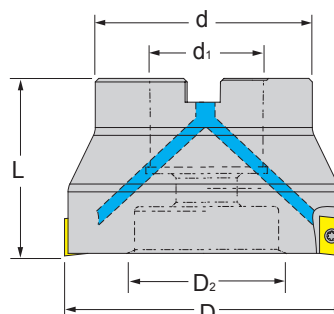
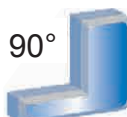
IFM 燒結式殼型銑刀

IFM SHRINK-FIT FACE MILLING CUTTER



KOVIT

燒結式 Shrink-Fit



規格 Spec.	L	D	D ₂	d	d ₁	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
IFM-50-SF-FMB22-C	40	50	18	40	22	5	AP..1604	0.43
IFM-50-SF-FMA25.4-C	40	50	20	48.5	25.4	5	AP..1604	0.42
IFM-63-SF-FMB22-C	40	63	18	48	22	5	AP..1604	0.57
IFM-63-SF-FMA25.4-C	40	63	32	50	25.4	5	AP..1604	1.20
IFM-80-SF-FMB27-C	50	80	32	62	27	6	AP..1604	1.16
IFM-80-SF-FMA31.75-C	50	80	42	62	31.75	6	AP..1604	1.04
IFM-100-SF-FMB32-C	50	100	42	78	32	7	AP..1604	1.90
IFM-100-SF-FMA31.75-C	50	100	42	78	31.75	7	AP..1604	1.91
IFM-125-SF-FMB40-C	63	125	50	89	40	8	AP..1604	3.41
IFM-125-SF-FMA38.1-C	63	125	50	80	38.1	8	AP..1604	3.23

配件表 Accessories

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



•長度單位 Unit of Length (mm)



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

★ 推薦 Recommended

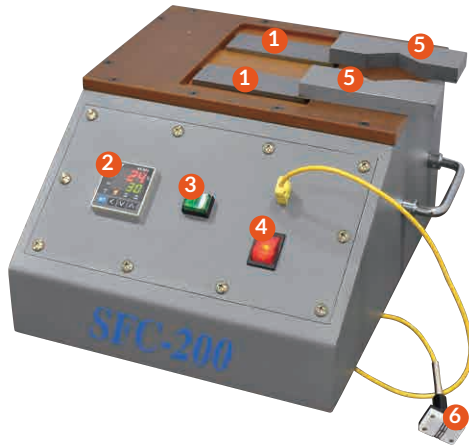
AP_16 切削條件數據表 Cutting Parameter

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

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

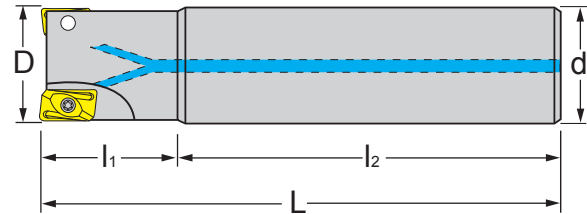
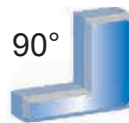
床檯進給 (mm/min) = 每刃進給 × 刀具刃數 × 主軸轉速 Feeding Speed (mm/min) = Feed per Flutes × Flutes × Spindle speed.

• 長度單位 Unit of Length (mm)



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

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



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

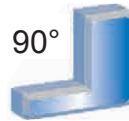
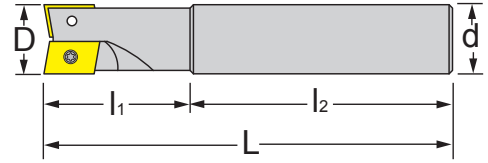
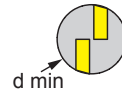
•長度單位 Unit of Length (mm)

ASSM 直角高速銑刀

ASSM INDEXABLE SQUARE SHOULDER END MILL

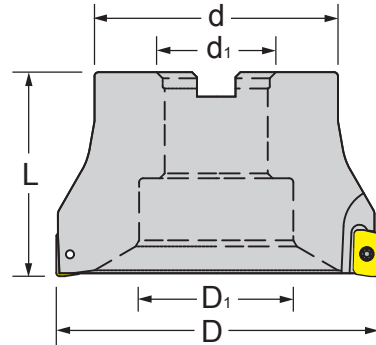


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規格 Spec.	L	l ₁	l ₂	D	d	刃數 Flutes	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
ASSM-1012-100L	100	23	75	10	12	1	AP.1135	M2.5-6.0-3.5-60	T8	1.2	0.09
ASSM-1212-100L	100	30	70	12	12	1	AP.1135	M2.5-6.0-3.5-60	T8	1.2	0.10
ASSM-1615-150L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

•長度單位 Unit of Length (mm)


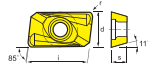


規格 Spec.	L	D	D ₁	d	d ₁	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
BAP-500-FMB22-11	40	50	18	40	22	7	AP.1135	0.40
BAP-630-FMB22-11	40	63	18	50	22	8	AP.1135	0.66
BAP-630-FMA25.4-11	40	63	19	50	25.4	8	AP.1135	0.80
BAP-800-FMB27-11	50	80	43	60	27	9	AP.1135	1.20
BAP-800-FMA31.75-11	50	80	43	60	31.75	9	AP.1135	1.20
BAP-1000-FMB32-11	50	100	43	78	32	11	AP.1135	2.08
BAP-1000-FMA31.75-11	50	100	43	78	31.75	11	AP.1135	2.09

配件表 Accessories

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



ISO 分類	P	合金鋼 Alloyed Steels	○	○													切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting	
	M	不鏽鋼 Stainless Steels	○															
	K	鑄鐵 Cast Iron																
N	鋁及鋁合金 Aluminum&Al																	
S	高溫合金 Refractory Alloys																	
H	高硬度材 Hard Material		○															
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain											尺寸 (mm)				圖形 Drawing	
		CHF											Size					
		RM4130	RM4110										d	i	s	r		
	APMT113508PDER-M04	●	●											6.35	11	3.5	0.8	
	APMT1135PDER-M04	●												6.35	11	3.5	0.4	
	APMT1604PDER-M04	●	●											9.525	16.5	4.76	0.8	

AP_11.16 切削條件數據表 Cutting Parameter

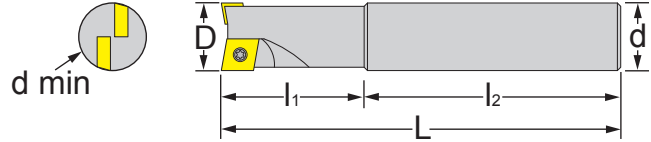
被加工材質 machining Material		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)
P	低合金鋼 Low-Alloy Steels	RM4130	80~370	0.08~0.35
	合金鋼 Alloyed Steels	RM4130	60~250	0.10~0.25
		RM4110	100~160	0.07~0.15
M	不鏽鋼 Stainless Steels	RM4130	110~180	0.10~0.25
H	高硬度材質 Hard Material	RM4110	100~150	0.05~0.15

主軸轉速 = (1000 × 切削速度) ÷ (3.14 × 刀具外徑)

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

床檯進給 (mm/min) = 每刃進給 × 刀具刃數 × 主軸轉速

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



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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

規格 Spec.	L	l ₁	l ₂	D	d	刃數 Flutes	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
C10-DDM10-130L	130	30	100	10	10	1	CC..0602	M2.5-5.5-3.35-60	T8	1.2	0.09
C12-DDM12-120L	120	30	90	12	12	1	CP..0802	M2.5-5.5-3.35-60	T8	1.2	0.11
C12-DDM12-150L	150	40	110	12	12	1	CP..0802	M2.5-5.5-3.35-60	T8	1.2	0.14
C16-DDM16-120L	120	30	90	16	16	2	CC..0602 CP..0802	M2.5-5.5-3.35-60 M2.5-6.45-3.7-43	T8	1.2	0.19
C16-DDM16-175L	175	40	135	16	16	2			T8	1.2	0.27
C20-DDM20-120L	120	30	90	20	20	2	CC..0602 CP..0902	M2.5-5.5-3.35-60 M3.5-6.0-5.0-60	T8	1.2 3.0	0.31
C20-DDM20-185L	185	50	135	20	20	2			T15		0.46
C25-DDM25-150L	150	40	110	25	25	2	CP..0903 CP..1203	M4-8.75-5.6-60	T15	3.0	0.55
C25-DDM25-220L	220	70	150	25	25	2		M4-8.75-5.6-60	T15	3.0	0.82
C25-DDM25-300L	300	170	130	25	25	2		M4-8.75-5.6-60	T15	3.0	1.14
C32-DDM25-300L	300	170	130	25	32	2		M4-8.75-5.6-60	T15	3.0	1.58
C32-DDM32-150L	150	40	110	32	32	2	CP..1204 CP..1604	M5-11-7.5-60	T20	5.0	0.86
C32-DDM32-250L	250	80	170	32	32	2		M5-11-7.5-60	T20	5.0	1.50
C32-DDM32-300L	300	80	220	32	32	2		M5-11-7.5-60	T20	5.0	1.85
C32-DDM32-350L	350	80	270	32	32	2		M5-11-7.5-60	T20	5.0	2.18
C32-DDM40-170L	170	50	120	40	32	2	CP..1604 CP..1904	M5-11-7.5-60	T20 T25	5.0 7.5	1.09
C32-DDM40-250L	250	50	200	40	32	2		M6-12-8.4-60			1.63

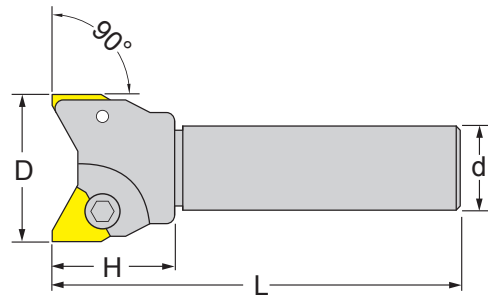
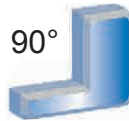
•長度單位 Unit of Length (mm)

SKE 90°捨棄式直角銑刀

SKE 90° INDEXABLE SQUARE SHOULDER MILLING CUTTER



KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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

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

配件表 Accessories

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

•長度單位 Unit of Length (mm)



ISO 分類	P	合金鋼 Alloyed Steels	○	○															切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	M	不鏽鋼 Stainless Steels																	
	K	鑄鐵 Cast Iron			○														
	N	鋁及鋁合金 Aluminum&Al																	
	S	高溫合金 Refractory Alloys																	
	H	高硬度材 Hard Material																	
形狀 Shape	規格 Spec.	硬質合金 Carbide alloy											尺寸 (mm)				圖形 Drawing		
		HW											Size						
		TSP20	TSP25	TSK10										d	i	s		r	
	TPKN1603PDR		●	●										9.525	-	3.18	-		
	TPKN2204PDR	●		●										12.7	-	4.76	-		
	TPMN160308		●	●										9.525	-	3.18	0.8		
	TPMN220412	●		●										12.7	-	4.76	1.2		

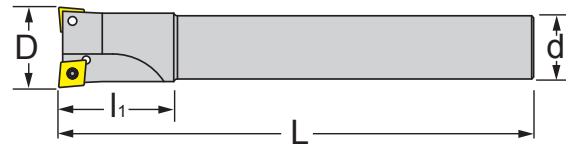
TP_16.22 切削條件數據表 Cutting Parameter

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

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

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

• 長度單位 Unit of Length (mm)



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

配件表 Accessories

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

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

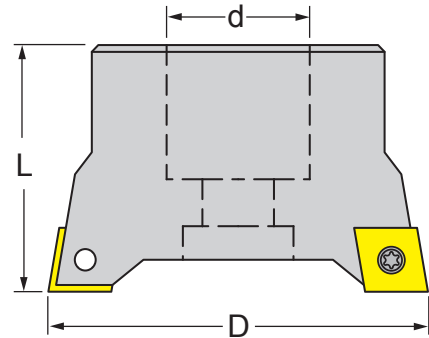
< 例 > ATB-2016-120L

D=19.7

使用刀片為 CC..060202 時 · D=19.8
04 時 · D=19.7
08 時 · D=19.5

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

• 長度單位 Unit of Length (mm)



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

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
CC..09T3	M4-10-5-7-60	T15	3.0

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

< 例 > ATB-60-FMB22

D=59.7

使用刀片為 CC..09T302 時 · D=59.7

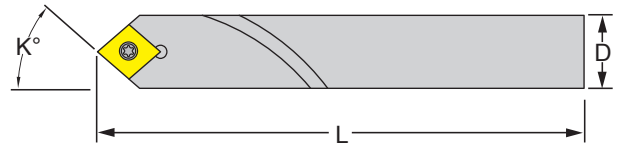
04 時 · D=59.6

08 時 · D=59.4

(Example) If using inserts with corner radius 02, D=59.7

04, D=59.6

08, D=59.4



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

左旋

Counter clockwise



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

配件表 Accessories

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

•長度單位 Unit of Length (mm)

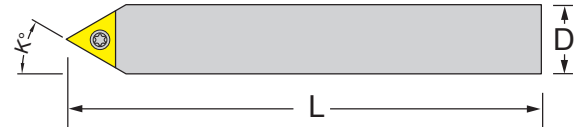


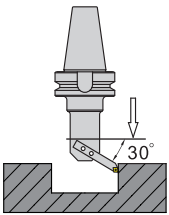
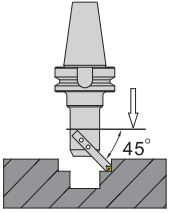
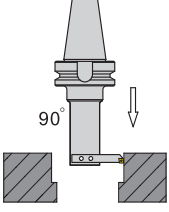
※ 不同刀片 R 角會改變尺寸 Different corner radius of inserts will change the size.

ISO 分類	P	合金鋼 Alloyed Steels	○				○							切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting		
	M	不鏽鋼 Stainless Steels	○													
	K	鑄鐵 Cast Iron														
N	鋁及鋁合金 Aluminum&Al								■							
S	高溫合金 Refractory Alloys															
H	高硬度材 Hard Material						○									
形狀 Shape	規格 Spec.	鍍層硬質合金 Carbide alloy				瓷金鍍層 Cermet coated		超微粒硬質合金 Micro grain carbide alloy				尺寸 (mm) Size				圖形 Drawing
		CVD						HF								
		RM4035				RM1205		RM5005				d	i	s	r	
	CCGT060202-NK							●			6.35	6.5	2.38	0.2		
	CCGT060204-NK							●			6.35	6.5	2.38	0.4		
	CCGT060208-NK							●			6.35	6.5	2.38	0.8		
	CCGT09T304-NK							●			9.525	9.7	3.97	0.4		
	CCGT09T308-NK							●			9.525	9.7	3.97	0.8		
	CCGT120404-NK							●			12.7	12.9	4.76	0.4		
	CCGT120408-NK							●			12.7	12.9	4.76	0.8		
	NEW CCMT060204N-M01							●			6.35	6.4	2.38	0.4		
	NEW CCMT09T304N-M01							●			9.525	9.7	3.97	0.4		
	NEW CCMT09T308N-M01							●			9.525	9.7	3.97	0.8		
	★ NEW CCMT060202N-F01	●									6.35	6.4	2.38	0.2		
	★ NEW CCMT060204N-F01	●									6.35	6.4	2.38	0.4		
	★ NEW CCMT09T304N-F01	●									9.525	9.7	3.97	0.4		
	★ NEW CCMT09T308N-F01	●									9.525	9.7	3.97	0.8		
	★ NEW CCMT120404N-F01	●									12.7	12.9	4.76	0.4		
	★ NEW CCMT120408N-F01	●									12.7	12.9	4.76	0.8		

★ 推薦 Recommended NEW 新品 New Product

• 長度單位 Unit of Length (mm)

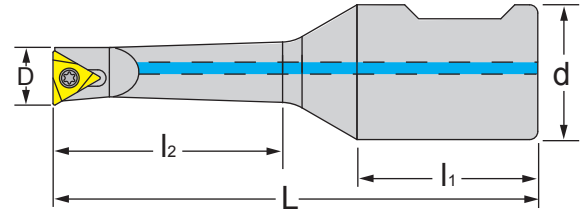


	規格 Spec.	L	D	角度 Angle	刀片 Insert	重量 (KGS) Weight
	SBS-308	55	8	30°	TP.0902	0.04
	SBS-310	65	10	30°	TP.0902	0.06
	SBS-313	80	13	30°	TP.1103	0.11
	SBS-316	120	16	30°	TP.1103	0.24
	SBS-319	140	19	30°	TP.1603	0.40
	SBS-325	150	25	30°	TP.1603	0.74
	SBS-408	55	8	45°	TP.0902	0.04
	SBS-410	65	10	45°	TP.0902	0.06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

配件表 Accessories

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

•長度單位 Unit of Length (mm)



特點 Feature

- 可使用於 HBOR 精搪孔頭上
- 附中心出水孔

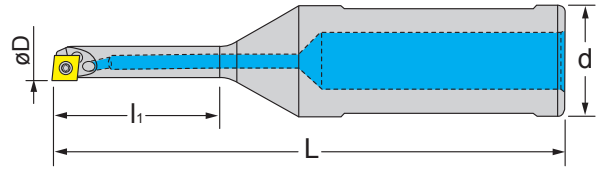
- Available to install in HBOR boring head.
- With through coolant hole.

規格 Spec.	ØD 搪孔範圍 Boring Range		L	l ₁	l ₂	D	d	刀片 Insert	重量 (KGS) Weight
	Min.	Max.							
BR1606-21-C	6	9	56	22	21	6	16	WB..0601	0.04
BR1608-28-C	8	11	58	22	28	8	16	TB..0601	0.04
BR1610-35-C	10	13	64	22	35	10	16	TB..0601	0.05
BR1612-42-C	12	15	69	22	42	12	16	TP..0902	0.06
BR1614-50-C	14	17	76	22	50	14	16	TP..0902	0.07
BR1616-60-C	16	20	87	22	60	16	16	TP..0902	0.09
BR1620-65-C	20	24	90	22	65	20	16	TP..1103	0.11
BR1624-68-C	24	28	93	22	68	24	16	TP..1103	0.12

配件表 Accessories

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

• 長度單位 Unit of Length (mm)





特點 Feature

- 可使用於 HBOR 及 SBJ16 精搪孔頭上
- 附中心出水孔

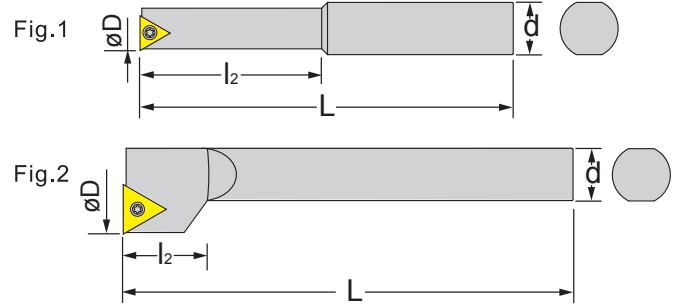
- Available to install in HBOR/SBJ boring head.
- With through coolant hole.

規格 Spec.	ØD 搪孔範圍 Boring Range		L	l ₁	d	刀片 Insert	重量 (KGS) Weight
	Min.	Max.					
CBJ-1606-24-C	6	9	73	24	16	CC..03S1	0.09
CBJ-1608-32-C	8	11	78	32	16	CC..04T0	0.09
CBJ-1610-40-C	10	13	86	40	16	CC..0602	0.10
CBJ-1612-53-C	12	17	99	53	16	CC..0602	0.10
CBJ-1616-68-C	16	21	114	68	16	CC..0602	0.15
CBJ-1620-83-C	20	26	122	83	16	CC..09T3	0.19
CBJ-1625-90-C	25	32	129	90	16	CC..09T3	0.20
CBJ-1630-90-C	30	40	129	90	16	CC..09T3	0.28
CBJ-1640-90-C	40	50	129	90	16	CC..09T3	0.40

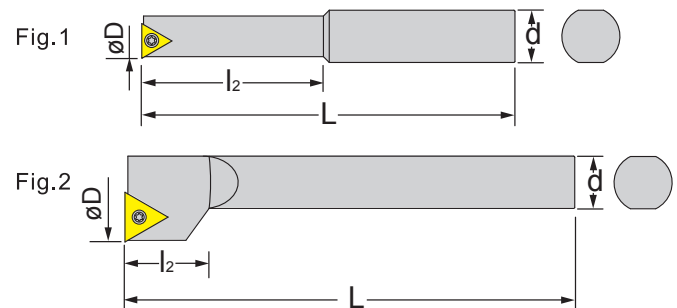
配件表 Accessories

刀片 Insert	螺絲  Screw	扳手  Wrench	扭力值 (N.m) Torque
CC..03S1	M1.8-4.2-2.5-54	T6	0.6
CC..04T0	M2.2-4.7-3.1-60	T7	0.9
CC..0602	M2.5-6.0-3.5-60	T8	1.2
CC..09T3	M4-8.0-5.7-60	T9	1.4

• 長度單位 Unit of Length (mm)



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



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

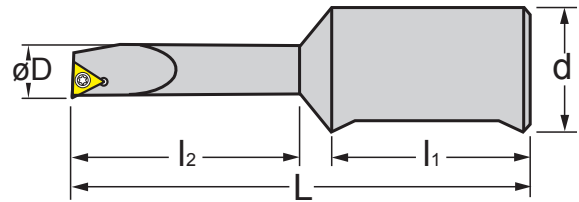
•長度單位 Unit of Length (mm)

SBJ-16 替換式搪孔刀柄

SBJ-16 INTERCHANGEABLE BORING CUTTER



KOVIT



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

SBJ-20 替換式搪孔刀柄

SBJ-20 INTERCHANGEABLE BORING CUTTER



KOVIT



Fig.1

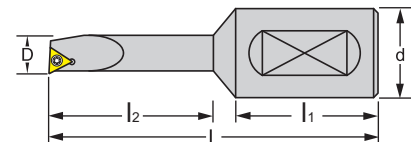
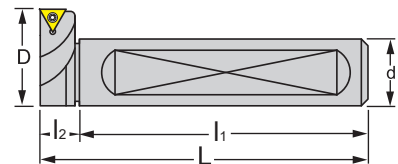


Fig.2



規格 Spec.	ϕD 搪孔範圍 Boring Range		D	d	L	l_1	l_2	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
	Min.	Max.											
SBJ-2008-32	8	11	8	20	76	32	44	TB..0601	M2-5.0-2.7-60	T6	0.6	1	0.12
SBJ-2010-40	10	13	10	20	76	32	44	TB..0601	M2-5.0-2.7-60	T6	0.6	1	0.10
SBJ-2012-53	12	17	12	20	85	32	53	TP..0902	M2.5-6.0-3.5-60	T8	1.2	1	0.13
SBJ-2016-68	16	21	16	20	100	32	68	TP..0902	M2.5-6.0-3.5-60	T8	1.2	1	0.18
SBJ-2020-83	20	26	20	20	115	32	83	TP..1103	M3-8.0-4.0-43	T9	1.4	1	0.25
SBJ-2025-96	25	32	25	20	135	32	96	TP..1103	M3-8.0-4.0-43	T9	1.4	1	0.30
SBJ-2030-115	30	40	30	20	158	32	115	TP..1103	M3-8.0-4.0-43	T9	1.4	1	0.59
SBJ-L20-20	120	280	28	20	97	83.5	13.5	TP..1103	M3-8.0-4.0-43	T9	1.4	2	0.28

•長度單位 Unit of Length (mm)



Fig.1



Fig.2



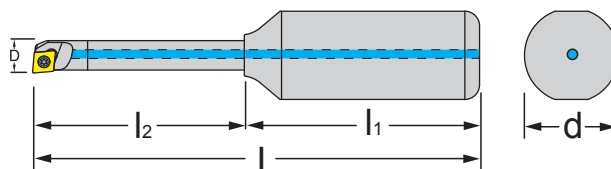
Fig.3



Fig.4

規格 Spec.	內容物 Contents						Fig.	重量 (KGS) Weight
	刀具 Tools	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	數量 Qty		
CSBJ16-C D×5-SET	CSBJ-1605-28-C	CCGT03S104L-F RM4015(10片)	M1.8-4.2-2.5-54	T6K	0.6	1	1	2.16
	CSBJ-1606-30-C							
	CSBJ-1608-40-C	TBGT060104L RM4030(10片)	M2-5.0-2.7-60	T8K	1.2			
	CSBJ-1610-50-C							
	CSBJ-1612-60-C	TPGT090204L RM4030(10片)	M2.5-6.0-3.5-60	T9K	1.4			
	CSBJ-1614-70-C							
	CSBJ-1616-80-C	TPGT110304L RM4030(10片)	M3-8.0-4.0-43					
CSBJ-1618-90-C								
規格 Spec.	內容物 Contents						Fig.	重量 (KGS) Weight
	刀具 Tools	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	數量 Qty		
CSBJ16-C D×6-SET	CSBJ-1605-34-C	CCGT03S104L-F RM4015(10片)	M1.8-4.2-2.5-54	T6K	0.6	1	2	2.16
	CSBJ-1606-36-C							
	CSBJ-1608-48-C	TBGT060104L RM4030(10片)	M2-5.0-2.7-60	T8K	1.2			
	CSBJ-1610-60-C							
	CSBJ-1612-72-C	TPGT090204L RM4030(10片)	M2.5-6.0-3.5-60	T9K	1.4			
	CSBJ-1614-84-C							
	CSBJ-1616-96-C	TPGT110304L RM4030(10片)	M3-8.0-4.0-43					
CSBJ-1618-108-C								
規格 Spec.	內容物 Contents						Fig.	重量 (KGS) Weight
	刀具 Tools	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	數量 Qty		
CCBJ16-C D×5-SET	CSBJ-1605-28-C	CCGT03S104L-F RM4015(10片)	M1.8-4.2-2.5-54	T6K	0.6	1	3	2.16
	CSBJ-1606-30-C							
	CCBJ-1608-40-C							
	CCBJ-1610-50-C	CCMT060204-M01 RM4035(10片)	M2.5-6.0-3.5-60	T8K	1.2			
	CCBJ-1612-60-C							
	CCBJ-1614-70-C	CCMT09T304-M01 RM4035(10片)	M4-8.0-5.7-60	T15K	3.0			
	CCBJ-1616-80-C							
CCBJ-1618-90-C								
規格 Spec.	內容物 Contents						Fig.	重量 (KGS) Weight
	刀具 Tools	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	數量 Qty		
CCBJ16-C D×6-SET	CSBJ-1605-34-C	CCGT03S104L-F RM4015(10片)	M1.8-4.2-2.5-54	T6K	0.6	1	4	3.2
	CSBJ-1606-36-C							
	CCBJ-1608-48-C							
	CCBJ-1610-60-C	CCMT060204-M01 RM4035(10片)	M2.5-6.0-3.5-60	T8K	1.2			
	CCBJ-1612-72-C							
	CCBJ-1614-84-C	CCMT09T304-M01 RM4035(10片)	M4-8.0-5.7-60	T15K	3.0			
	CCBJ-1616-96-C							
CCBJ-1618-108-C								

•長度單位 Unit of Length (mm)



特點 Feature

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

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

D×5

規格 Spec.	L	l ₁	l ₂	D	d	搪孔範圍 Boring Range	刀片 Insert	重量 (KGS) Weight
CSBJ-1605-28-C	68	40	28	5.6	16	5.6-8	CC..03S1	0.06
CSBJ-1606-30-C	70	40	30	6	16	6-9	CC..03S1	0.07
CCBJ-1608-40-C	80	40	40	8	16	8-11	CC..03S1	0.07
CCBJ-1610-50-C	90	40	50	10	16	10-13	CC..0602	0.10
CCBJ-1612-60-C	100	40	60	12	16	12-15	CC..0602	0.13
CCBJ-1614-70-C	110	40	70	14	16	14-17	CC..09T3	0.18
CCBJ-1616-80-C	120	40	80	16	16	16-19	CC..09T3	0.25
CCBJ-1618-90-C	130	-	-	18	16	18-21	CC..09T3	0.33

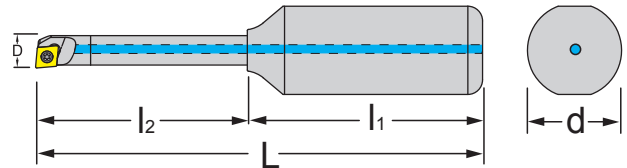
D×6

規格 Spec.	L	l ₁	l ₂	D	d	搪孔範圍 Boring Range	刀片 Insert	重量 (KGS) Weight
CSBJ-1605-34-C	74	40	34	5.6	16	5.6-8	CC..03S1	0.06
CSBJ-1606-36-C	76	40	36	6	16	6-9	CC..03S1	0.07
CCBJ-1608-48-C	88	40	48	8	16	8-11	CC..03S1	0.08
CCBJ-1610-60-C	100	40	60	10	16	10-13	CC..0602	0.10
CCBJ-1612-72-C	112	40	72	12	16	12-15	CC..0602	0.15
CCBJ-1614-84-C	124	40	84	14	16	14-17	CC..09T3	0.20
CCBJ-1616-96-C	136	40	96	16	16	16-19	CC..09T3	0.28
CCBJ-1618-108-C	148	-	-	18	16	18-21	CC..09T3	0.38

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
CC..03S1	M1.8-4.2-2.5-54	T6	0.6
CC..0602	M2.5-6.0-3.5-60	T8	1.2
CC..09T3	M4-8.0-5.7-60	T15	3.0

•長度單位 Unit of Length (mm)



特點 Feature

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

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

D×5

規格 Spec.	L	l ₁	l ₂	D	d	搪孔範圍 Boring Range	刀片 Insert	重量 (KGS) Weight
CSBJ-1605-28-C	68	40	28	5.6	16	5.6-8	CC..03S1	0.06
CSBJ-1606-30-C	70	40	30	6	16	6-9	CC..03S1	0.07
CSBJ-1608-40-C	80	40	40	8	16	8-11	TB..0601	0.07
CSBJ-1610-50-C	90	40	50	10	16	10-13	TB..0601	0.10
CSBJ-1612-60-C	100	40	60	12	16	12-15	TP..0902	0.13
CSBJ-1614-70-C	110	40	70	14	16	14-17	TP..0902	0.18
CSBJ-1616-80-C	120	40	80	16	16	16-19	TP..1103	0.25
CSBJ-1618-90-C	130	-	-	18	16	18-21	TP..1103	0.33

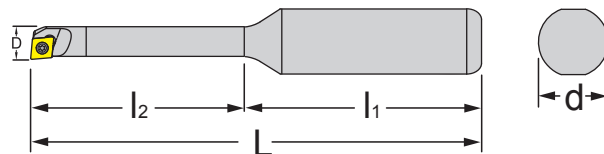
D×6

規格 Spec.	L	l ₁	l ₂	D	d	搪孔範圍 Boring Range	刀片 Insert	重量 (KGS) Weight
CSBJ-1605-34-C	74	40	34	5.6	16	5.6-8	CC..03S1	0.06
CSBJ-1606-36-C	76	40	36	6	16	6-9	CC..03S1	0.07
CSBJ-1608-48-C	88	40	48	8	16	8-11	TB..0601	0.08
CSBJ-1610-60-C	100	40	60	10	16	10-13	TB..0601	0.10
CSBJ-1612-72-C	112	40	72	12	16	12-15	TP..0902	0.15
CSBJ-1614-84-C	124	40	84	14	16	14-17	TP..0902	0.20
CSBJ-1616-96-C	136	40	96	16	16	16-19	TP..1103	0.28
CSBJ-1618-108-C	148	-	-	18	16	18-21	TP..1103	0.38

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
CC..03S1	M1.8-4.2-2.5-54	T6	0.6
TB..0601	M2-5.0-2.7-60	T6	0.6
TP..0902	M2.5-6.0-3.5-60	T8	1.2
TP..1103	M3-8.0-4.0-43	T9	1.4

•長度單位 Unit of Length (mm)



特點 Feature

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

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

D×5

規格 Spec.	L	l ₁	l ₂	D	d	搪孔範圍 Boring Range	刀片 Insert	重量 (KGS) Weight
CSBJ-2005-28	68	40	28	5.6	20	5.6-8	CC..03S1	0.12
CSBJ-2006-30	70	40	30	6	20	6-9	CC..03S1	0.13
CSBJ-2008-40	80	40	40	8	20	8-11	TB..0601	0.13
CSBJ-2010-50	90	40	50	10	20	10-13	TB..0601	0.16
CSBJ-2012-60	100	40	60	12	20	12-15	TP..0902	0.19
CSBJ-2014-70	110	40	70	14	20	14-17	TP..0902	0.24
CSBJ-2016-80	120	40	80	16	20	16-19	TP..1103	0.31
CSBJ-2018-90	130	40	90	18	20	18-21	TP..1103	0.39
CSBJ-2020-100	140	40	100	20	20	20-26	TP..1103	0.42
CSBJ-2025-125	165	-	-	25	20	25-31	TP..1103	0.72
CSBJ-2030-150	190	-	-	30	20	31-37	TP..1103	0.86

D×6

規格 Spec.	L	l ₁	l ₂	D	d	搪孔範圍 Boring Range	刀片 Insert	重量 (KGS) Weight
CSBJ-2005-34	74	40	34	5.6	20	5.6-8	CC..03S1	0.12
CSBJ-2006-36	76	40	36	6	20	6-9	CC..03S1	0.13
CSBJ-2008-48	88	40	48	8	20	8-11	TB..0601	0.13
CSBJ-2010-60	100	40	60	10	20	10-13	TB..0601	0.16
CSBJ-2012-72	112	40	72	12	20	12-15	TP..0902	0.20
CSBJ-2014-84	124	40	84	14	20	14-17	TP..0902	0.27
CSBJ-2016-96	136	40	96	16	20	16-19	TP..1103	0.35
CSBJ-2018-108	148	40	108	18	20	18-21	TP..1103	0.44
CSBJ-2020-120	160	40	120	20	20	20-26	TP..1103	0.48
CSBJ-2025-150	190	-	-	25	20	25-31	TP..1103	0.84
CSBJ-2030-180	220	-	-	30	20	31-37	TP..1103	0.99

配件表 Accessories

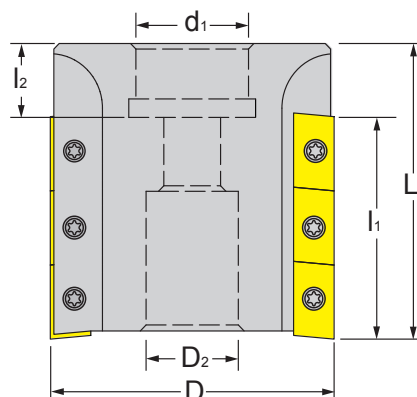
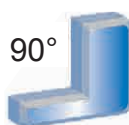
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
CC..03S1	M1.8-4.2-2.5-54	T6	0.6
TB..0601	M2-5.0-2.7-60	T6	0.6
TP..0902	M2.5-6.0-3.5-60	T8	1.2
TP..1103	M3-8.0-4.0-43	T9	1.4

• 長度單位 Unit of Length (mm)

ISO 分類	P	合金鋼 Alloyed Steels	○	○	○													切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	M	不鏽鋼 Stainless Steels	○															
	K	鑄鐵 Cast Iron																
N	鋁及鋁合金 Aluminum&Al											○						
S	高溫合金 Refractory Alloys																	
H	高硬度材 Hard Material											○						
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain				瓷金 Cermet coated				超微粒硬質合金 Micro grain carbide alloy				尺寸 (mm) Size				圖形 Drawing
		CHF				HT				HF								
		RM4015	RM4030	RM4035		RM1205				RM5005				d	i	s	r	
	CCGT03S102L-F	●											3.57	-	1.39	0.2		
	CCGT03S104L-F	●											3.57	-	1.39	0.4		
	NEW CCMT060204N-M01					●							6.35	6.4	2.38	0.4		
	NEW CCMT09T304N-M01					●							9.525	9.7	3.97	0.4		
	NEW CCMT09T308N-M01					●							9.525	9.7	3.97	0.8		
	★ NEW CCMT060202N-F01			●									6.35	6.4	2.38	0.2		
	★ NEW CCMT060204N-F01			●									6.35	6.4	2.38	0.4		
	★ NEW CCMT09T304N-F01			●									9.525	9.7	3.97	0.4		
	★ NEW CCMT09T308N-F01			●									9.525	9.7	3.97	0.8		
	★ NEW CCMT120404N-F01			●									12.7	12.9	4.76	0.4		
	★ NEW CCMT120408N-F01			●									12.7	12.9	4.76	0.8		
	TBGT060102L-F01		●			●			●				3.97	6.4	1.59	0.2		
	TBGT060104L-F01		●			●			●				3.97	6.4	1.59	0.4		
	TPGT080202L-F01		●			●			●				4.76	8.2	2.38	0.2		
	TPGT080204L-F01		●			●			●				4.76	8.2	2.38	0.4		
	TPGT090202L-F01		●			●			●				5.56	9.6	2.38	0.2		
	TPGT090204L-F01		●			●			●				5.56	9.6	2.38	0.4		
	TPGT110302L-F01		●			●			●				6.35	11	3.18	0.2		
	TPGT110304L-F01		●			●			●				6.35	11	3.18	0.4		

★ 推薦 Recommended NEW 新品 New Product

• 長度單位 Unit of Length (mm)



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

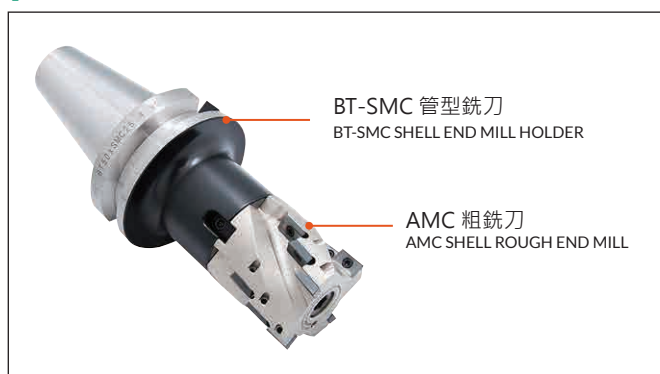
- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	l ₁	l ₂	D	D ₂	d ₁	刃數 Flutes	刀片數 Insert Qty.	刀片 Insert	重量 (KGS) Weight
AMC-50-45L-FMB22	64	45	31	50	18	22	3	9	AP..1604	0.51
AMC-63-45L-FMA25.4	64	45	-	63	19	25.4	4	12	AP..1604	1.03
AMC-63-68L-FMA25.4	90	68	42	63	19	25.4	4	20	AP..1604	1.19
AMC-63-68L-FMA31.75	90	68	-	63	26	31.75	4	20	AP..1604	0.92

配件表 Accessories

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

範例 Example



• 長度單位 Unit of Length (mm)



ISO 分類	P	合金鋼 Alloyed Steels	○	○		○											切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	M	不鏽鋼 Stainless Steels	○			○											
	K	鑄鐵 Cast Iron	○		○												
N	鋁及鋁合金 Aluminum&Al						■	■	○	○							
S	高溫合金 Refractory Alloys					○											
H	高硬度材 Hard Material																
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain					超微粒硬質合金 Micro grain carbide alloy				尺寸 (mm) Size				圖形 Drawing		
		CHF					HF				Size						
		OM4025	OM4025N	RM3130	RM4130	RM535	GH05	OM5005	OM5060	RM5005	d	i	s	r			
	★ APEX1604PDFR-F01							●	●			9.525	16.4	4.76	-		
	★ APEX160400PDFR-F01							●	●			9.525	16.4	4.76	-		
	★ APEX160404PDFR-F01							●	●			9.525	16.4	4.76	0.4		
	★ APEX160408PDFR-F01							●	●			9.525	16.4	4.76	0.8		
	APEX1604PDFR-701							●				9.525	16.4	4.76	0.2		
	APGT1604PDFR-G2									●		9.525	16.5	4.76	0.8		
	APGT160408PDFR-F02									●		9.525	16.4	4.76	0.8		
	APKT1604PDER-M05								●			9.525	16.4	4.76	0.4		
	APKT160408PDER-M02			●	●							9.525	16.4	4.76	0.8		
	★ APKT160408-M01	●	●									9.525	16.6	4.76	0.8		

★ 推薦 Recommended

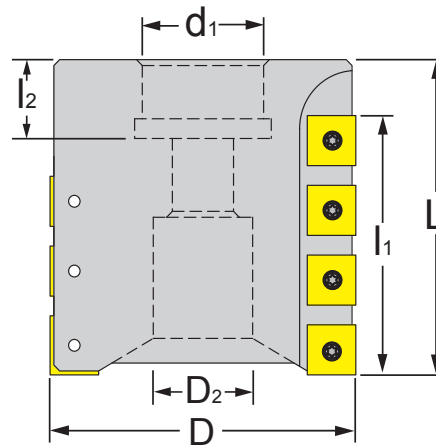
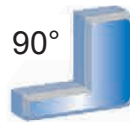
AP_16 切削條件數據表 Cutting Parameter

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

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

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

● 長度單位 Unit of Length (mm)



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

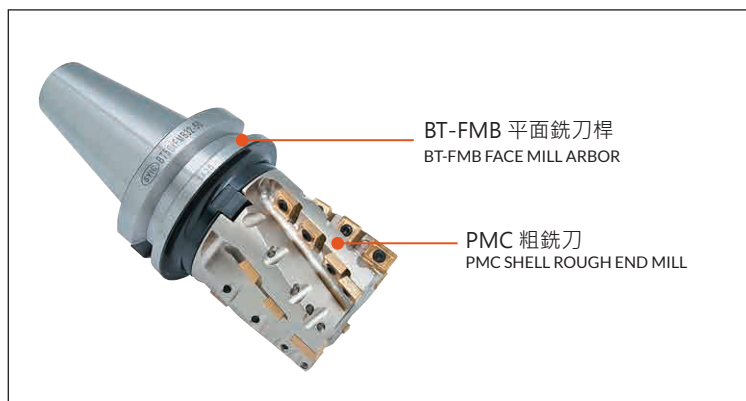
- Made of anti-vibration tool steel
- After the heat treatment, we will finish the cutter again for better accuracy.

規格 Spec.	L	l ₁	l ₂	D	D ₂	d ₁	刃數 Flutes	刀片 Insert	刀片數 Insert Qty.	刀片 Insert	刀片數 Insert	重量 (KGS) Weight
PMC-80-67L	80	67	42	80	26	31.75	6	LP..1504	3	SP..1204	18	1.92
PMC-80-67L-FMB32	80	67	42	80	26	32	6	LP..1504	3	SP..1204	18	1.92
PMC-100-77L-FMB40	100	77	-	100	48	40	8	LP..1504	4	SP..1204	28	3.82

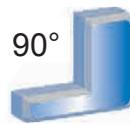
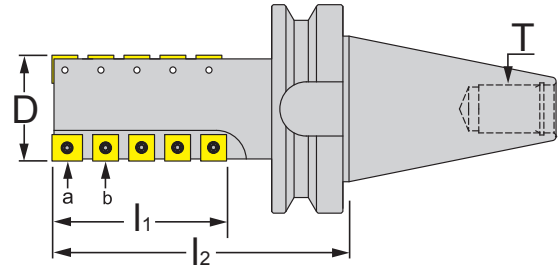
配件表 Accessories

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

範例 Example



• 長度單位 Unit of Length (mm)



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

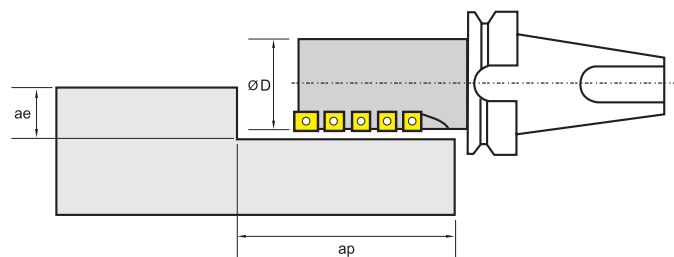
- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

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

配件表 Accessories

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

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



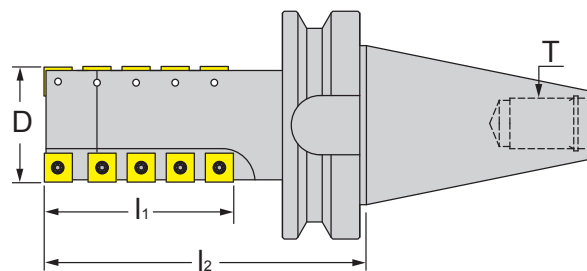
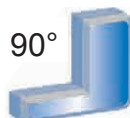
• 長度單位 Unit of Length (mm)

BT/CBMC 替換式粗切削銑刀

BT/CBMC INDEXABLE ROUGH CUTTING END MILL



KOVIT



特點 Feature

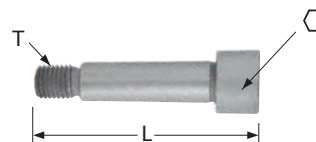
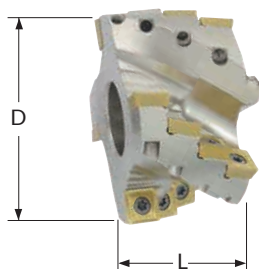
- 如切削損壞時，前端刀頭可更換粗銑刀，降低成本

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

規格 Spec.	l_1	l_2	D	T	刃數 Flutes	刀片 Insert	刀片數量 Insert Qty.	重量 (KGS) Weight
BT50-CBMC63-200L	200	285	63	M24×3.0P	3	SP.1204	57	7.40
BT50-CBMC63-260L	260	345	63	M24×3.0P	3	SP.1204	75	8.10
BT50-CBMC80-200L	200	285	80	M24×3.0P	4	SP.1204	76	10.0

配件表 Accessories

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



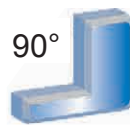
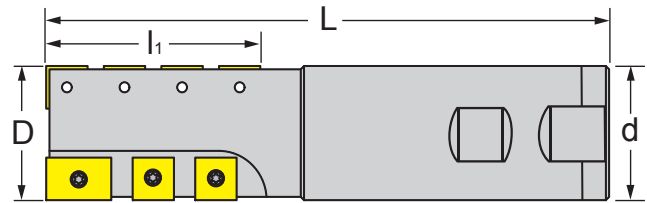
規格 Spec.	L	D	刃數 Flutes	刀片數量 Insert Qty.	重量 (KGS) Weight
CBMC63-42L	42	63	3	12	0.60
CBMC80-42L	42	80	4	16	1.00

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

範例 Example



• 長度單位 Unit of Length (mm)



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

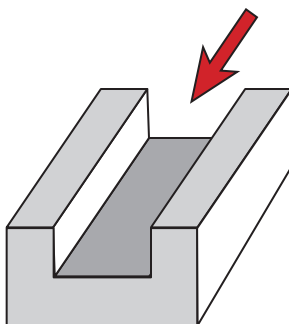
- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

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

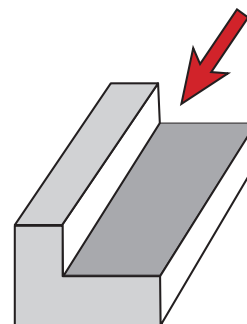
配件表 Accessories

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

最大切削深度 .12mm
Max. Ap. 12mm



開槽
Slotting



側邊加工
Shoulder milling

• 長度單位 Unit of Length (mm)



ISO 分類	P	合金鋼 Alloyed Steels	○	○	○																切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	M	不鏽鋼 Stainless Steels	○	○																	
	K	鑄鐵 Cast Iron	○																		
N	鋁及鋁合金 Aluminum&Al																				
S	高溫合金 Refractory Alloys																				
H	高硬度材 Hard Material		○																		
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain					超微粒硬質合金 Micro grain cemented carbide					尺寸 (mm) Size				圖形 Drawing					
		CHF					HF					d	i	s	r						
		OM4010	OM4025	RM4025			OM5005														
	APMT1503-R01	●	●										9.52	15	3.18	0.8					
	LPMT1504-R01		●										12.7	15.88	4.76	-					
	SDMT090308-R01	●	●										9.52	-	3.18	0.8					
	SPET120408-M02	●	●							●			12.7	-	4.76	0.8					
	SPMT120408-R01			●									12.7	-	4.76	0.8					

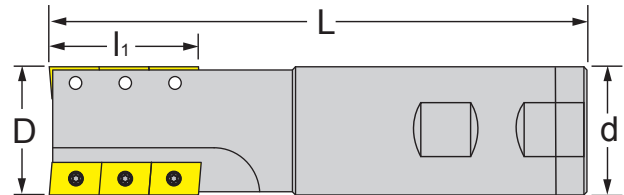
AP_15.SP_12.SD_09.LP_15 切削條件數據表 Cutting Parameter

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

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

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

• 長度單位 Unit of Length (mm)



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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

規格 Spec.	L	l ₁	D	d	刃數 Flutes	刀片數量 Insert Qty.	刀片 Insert	重量 (KGS) Weight
APE-2020-28L-2T	107	28	20	20	2	5	AP..1003	0.23
APE-2525-37L-2T	125	37	25	25	2	8	AP..1003	0.41
APE-3232-46L-3T	135	46	32	32	3	15	AP..1003	0.70

配件表 Accessories

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

側邊加工 SHOULDER MILLING

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

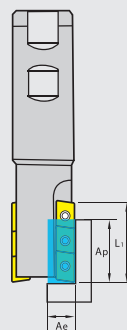
kW

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

kW

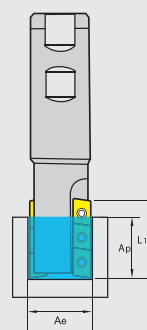
側銑加工 PROFILE MILLING

d1	ap
Ø 20	22
Ø 25	30
Ø 32	37
Ø 40	44

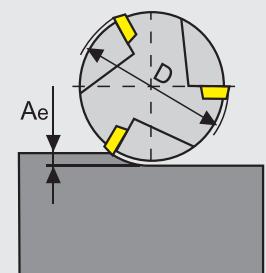


開槽加工 SLOTING

d1	ap
Ø 20	14
Ø 25	18
Ø 32	23
Ø 40	27



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



開槽加工 SLOTING

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

kW

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

kW

• 長度單位 Unit of Length (mm)



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

★ 推薦 Recommended

AP_10 切削條件數據表 Cutting Parameter

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

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

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

• 長度單位 Unit of Length (mm)

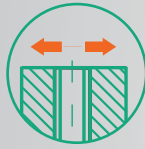
TSD多孔類型加工

TSD VARIETY OF HOLE TYPES MACHINING



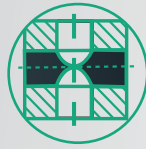
斜面孔

Oblique Face



擴孔

Enlarge Hole



交叉孔

Cross Hole



半邊孔

Half Hole



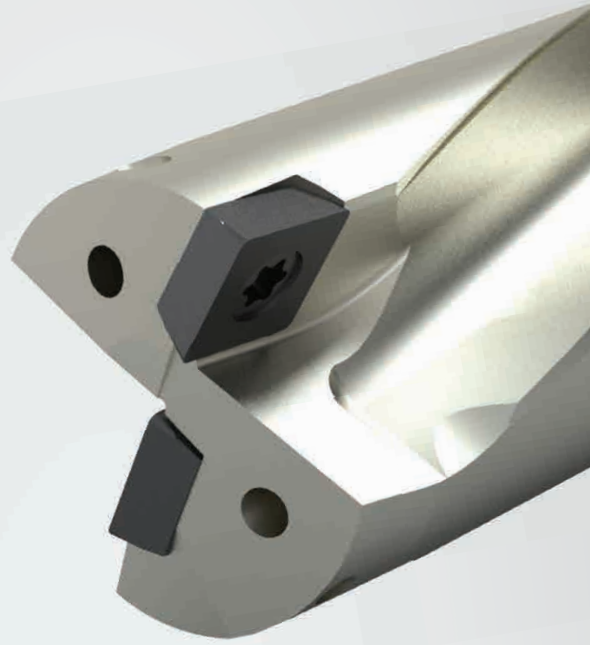
套孔

Target Drills



凹面孔

Concave Face



High Speed Drill



注意事項 Tips

可用於粗加工除料或不規則表面鑽孔，無需預加工小孔，但表面傾斜角度不超過6度

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

在進刀和退刀時，降低進給率30%~50%

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

層板堆疊加工時，間隙應小於0.2mm

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

板材有變形及彎曲時，仍可進行加工作業

Available for drilling irregular or bending plates.

正確的使用切削液的壓力值，有助於鐵屑的排出，及降低刀具振動，和提高刀具壽命

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



Feature

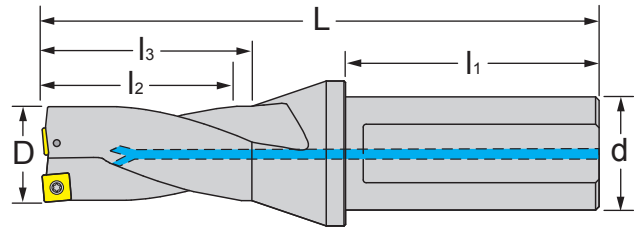
TSD 四角刀片快速鑽頭 (2 倍長)

TSD SQUARE INSERT HIGH SPEED DRILL



KOVIT

Dx2



特點 Feature

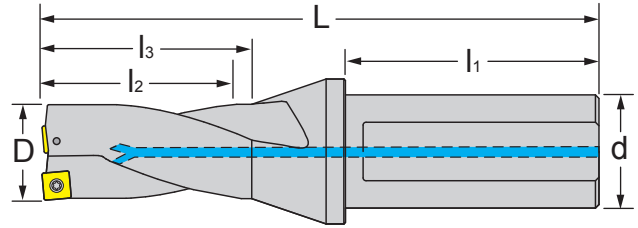
- 刀片使用四個刃口，可有效降低成本
- 刀片採四角型和內刃皆使用相同刀片，庫存容易管理，成本降低
- 同一刀片的使用可預防安裝錯誤和有效降低刀具損壞

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

規格 Spec.	L	l ₁	l ₂	l ₃	D	d	刀片 Insert	重量 (KGS) Weight
C25-TSD13-26L	106	56	26	31	13	25	SP.0502	0.32
C25-TSD14-28L	108	56	28	33	14	25	SP.0502	0.33
C25-TSD15-30L	110	56	30	35	15	25	SP.0502	0.33
C25-TSD16-32L	114	56	32	37	16	25	SP.0602	0.34
C25-TSD17-34L	116	56	34	39	17	25	SP.0602	0.35
C25-TSD18-36L	118	56	36	41	18	25	SP.0602	0.36
C25-TSD19-38L	120	56	38	43	19	25	SP.0602	0.37
C25-TSD20-40L	122	56	40	45	20	25	SP.0602	0.38
C25-TSD21-42L	124	56	42	47	21	25	SP.0602	0.39
C25-TSD22-44L	126	56	44	49	22	25	SP.07T3	0.60
C32-TSD23-46L	134	60	46	51	23	32	SP.07T3	0.61
C32-TSD24-48L	136	60	48	53	24	32	SP.07T3	0.61
C32-TSD25-50L	138	60	50	55	25	32	SP.07T3	0.64
C32-TSD26-52L	140	60	52	57	26	32	SP.07T3	0.66
C32-TSD27-54L	142	60	54	59	27	32	SP.07T3	0.67
C32-TSD28-56L	146	60	56	61	28	32	SP.0904	0.68
C32-TSD29-58L	148	60	58	63	29	32	SP.0904	0.72
C32-TSD30-60L	150	60	60	65	30	32	SP.0904	0.74
C32-TSD31-62L	152	60	62	67	31	32	SP.0904	0.76
C32-TSD32-64L	154	60	64	69	32	32	SP.0904	0.78
C32-TSD33-66L	156	60	66	71	33	32	SP.0904	0.80
C32-TSD34-68L	158	60	68	73	34	32	SP.1104	0.82
C32-TSD35-70L	160	60	70	75	35	32	SP.1104	0.84
C32-TSD36-72L	162	60	72	77	36	32	SP.1104	0.86
C32-TSD37-74L	164	60	74	79	37	32	SP.1104	0.88
C32-TSD38-76L	166	60	76	81	38	32	SP.1104	0.93
C32-TSD39-78L	168	60	78	83	39	32	SP.1104	0.94
C40-TSD40-80L	184	70	80	85	40	40	SP.1104	1.40
C40-TSD41-82L	186	70	82	87	41	40	SP.1104	1.38
C40-TSD42-84L	188	70	84	89	42	40	SP.1405	1.42
C40-TSD43-86L	190	70	86	91	43	40	SP.1405	1.44
C40-TSD44-88L	192	70	88	93	44	40	SP.1405	1.51
C40-TSD45-90L	194	70	90	95	45	40	SP.1405	1.57
C40-TSD46-92L	196	70	92	97	46	40	SP.1405	1.61
C40-TSD47-94L	198	70	94	99	47	40	SP.1405	1.66
C40-TSD48-96L	200	70	96	101	48	40	SP.1405	1.71
C40-TSD49-98L	202	70	98	103	49	40	SP.1405	1.77
C40-TSD50-100L	204	70	100	102	50	40	SP.1405	1.81

• 長度單位 Unit of Length (mm)

Dx2 0.5 Type



特點 Feature

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

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

規格 Spec.	L	l ₁	l ₂	l ₃	D	d	刀片 Insert	重量 (KGS) Weight
C25-TSD13.5-27L	107	56	27	32	13.5	25	SP..0502	0.33
C25-TSD14.5-29L	109	56	29	34	14.5	25	SP..0502	0.33
C25-TSD15.5-31L	113	56	31	36	15.5	25	SP..0602	0.34
C25-TSD16.5-33L	115	56	33	38	16.5	25	SP..0602	0.35
C25-TSD17.5-35L	117	56	35	40	17.5	25	SP..0602	0.36
C25-TSD18.5-37L	119	56	37	42	18.5	25	SP..0602	0.36
C25-TSD19.5-39L	121	56	39	44	19.5	25	SP..0602	0.37
C25-TSD20.5-41L	123	56	41	46	20.5	25	SP..0602	0.38
C25-TSD21.5-43L	125	56	43	48	21.5	25	SP..0602	0.39

配件表 Accessories

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

•長度單位 Unit of Length (mm)

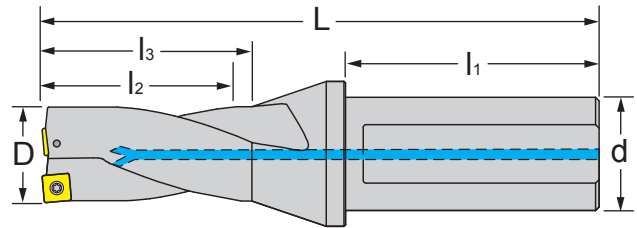
TSD 四角刀片快速鑽頭 (3 倍長)

TSD SQUARE INSERT HIGH SPEED DRILL



KOVIT

Dx3



特點 Feature

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

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

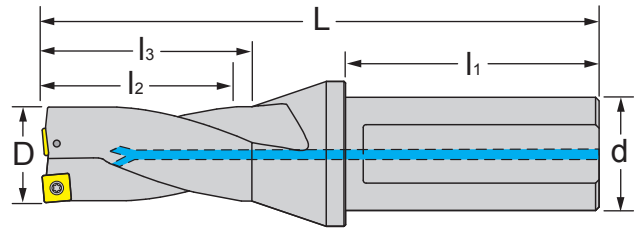
規格 Spec.	L	l ₁	l ₂	l ₃	D	d	刀片 Insert	重量 (KGS) Weight
C20-TSD13-39L	111	50	39	44	13	20	SP..0502	0.20
C20-TSD14-42L	114	50	42	47	14	20	SP..0502	0.18
C20-TSD15-45L	117	50	45	50	15	20	SP..0502	0.21
C25-TSD16-48L	130	56	48	53	16	25	SP..0602	0.31
C25-TSD17-51L	133	56	51	56	17	25	SP..0602	0.32
C25-TSD18-54L	136	56	54	59	18	25	SP..0602	0.34
C25-TSD19-57L	139	56	57	62	19	25	SP..0602	0.35
C25-TSD20-60L	142	56	60	65	20	25	SP..0602	0.37
C25-TSD21-63L	145	56	63	68	21	25	SP..0602	0.38
C25-TSD22-66L	148	56	66	71	22	25	SP..07T3	0.39
C25-TSD23-69L	157	60	69	74	23	25	SP..07T3	0.44
C25-TSD24-72L	160	60	72	77	24	25	SP..07T3	0.44
C25-TSD25-75L	163	60	75	80	25	25	SP..07T3	0.46
C32-TSD23-69L	157	60	69	74	23	32	SP..07T3	0.66
C32-TSD24-72L	160	60	72	77	24	32	SP..07T3	0.67
C32-TSD25-75L	163	60	75	80	25	32	SP..07T3	0.72
C32-TSD26-78L	166	60	78	83	26	32	SP..07T3	0.73
C32-TSD27-81L	169	60	81	86	27	32	SP..07T3	0.75
C32-TSD28-84L	174	60	84	89	28	32	SP..0904	0.78
C32-TSD29-87L	177	60	87	92	29	32	SP..0904	0.81
C32-TSD30-90L	180	60	90	95	30	32	SP..0904	0.83

配件表 Accessories

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

•長度單位 Unit of Length (mm)

Dx3



特點 Feature

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

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

規格 Spec.	L	l ₁	l ₂	l ₃	D	d	刀片 Insert	重量 (KGS) Weight
C32-TSD31-93L	183	60	93	98	31	32	SP..0904	0.88
C32-TSD32-96L	186	60	96	101	32	32	SP..0904	0.90
C32-TSD33-99L	189	60	99	104	33	32	SP..0904	0.93
C32-TSD34-102L	192	60	102	107	34	32	SP..1104	0.98
C32-TSD35-105L	195	60	105	110	35	32	SP..1104	0.99
C32-TSD36-108L	198	60	108	113	36	32	SP..1104	1.09
C32-TSD37-111L	201	60	111	116	37	32	SP..1104	1.08
C32-TSD38-114L	204	60	114	119	38	32	SP..1104	1.12
C32-TSD39-117L	207	60	117	122	39	32	SP..1104	1.22
C40-TSD40-120L	224	70	120	125	40	40	SP..1104	1.74
C40-TSD41-123L	227	70	123	128	41	40	SP..1104	1.79
C40-TSD42-126L	230	70	126	131	42	40	SP.1405	1.62
C40-TSD43-129L	233	70	129	134	43	40	SP.1405	1.70
C40-TSD44-132L	236	70	132	137	44	40	SP.1405	1.75
C40-TSD45-135L	239	70	135	140	45	40	SP.1405	1.84
C40-TSD46-138L	242	70	138	143	46	40	SP.1405	1.92
C40-TSD47-141L	245	70	141	146	47	40	SP.1405	1.97
C40-TSD48-144L	248	70	144	149	48	40	SP.1405	2.06
C40-TSD49-147L	251	70	147	152	49	40	SP.1405	2.12
C40-TSD50-150L	254	70	150	155	50	40	SP.1405	2.22

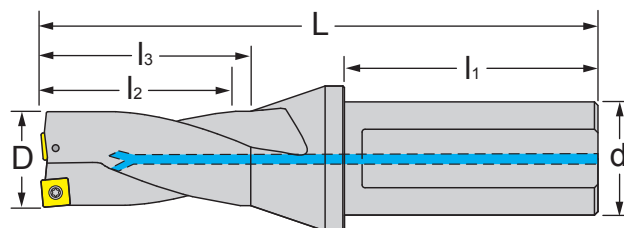
配件表 Accessories

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



•長度單位 Unit of Length (mm)

Dx3 0.5 Type



特點 Feature

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

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

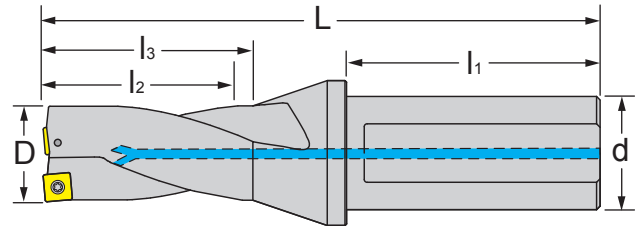
規格 Spec.	L	l ₁	l ₂	l ₃	D	d	刀片 Insert	重量 (KGS) Weight
C20-TSD13.5-40.5L	112.5	50	40.5	45.5	13.5	20	SP.0502	0.18
C20-TSD14.5-43.5L	115.5	50	43.5	48.5	14.5	20	SP.0502	0.21
C25-TSD15.5-46.5L	128.5	56	46.5	51.5	15.5	25	SP.0602	0.32
C25-TSD16.5-49.5L	131.5	56	49.5	54.5	16.5	25	SP.0602	0.33
C25-TSD17.5-52.5L	134.5	56	52.5	57.5	17.5	25	SP.0602	0.33
C25-TSD18.5-55.5L	137.5	56	55.5	60.5	18.5	25	SP.0602	0.35
C25-TSD19.5-58.5L	140.5	56	58.5	63.5	19.5	25	SP.0602	0.38
C25-TSD20.5-61.5L	143.5	56	61.5	66.5	20.5	25	SP.0602	0.38
C25-TSD21.5-64.5L	146.5	56	64.5	69.5	21.5	25	SP.0602	0.40
C32-TSD22.5-67.5L	155.5	60	67.5	72.5	22.5	32	SP.07T3	0.65
C32-TSD23.5-70.5L	158.5	60	70.5	75.5	23.5	32	SP.07T3	0.66
C32-TSD24.5-73.5L	161.5	60	73.5	78.5	24.5	32	SP.07T3	0.71
C32-TSD25.5-76.5L	164.5	60	76.5	81.5	25.5	32	SP.07T3	0.72
C32-TSD26.5-79.5L	167.5	60	79.5	84.5	26.5	32	SP.07T3	0.75
C32-TSD27.5-82.5L	170.5	60	82.5	87.5	27.5	32	SP.07T3	0.76
C32-TSD28.5-85.5L	175.5	60	85.5	90.5	28.5	32	SP.0904	0.80
C32-TSD29.5-88.5L	178.5	60	88.5	93.5	29.5	32	SP.0904	0.82
C32-TSD30.5-91.5L	181.5	60	91.5	96.5	30.5	32	SP.0904	0.87
C32-TSD31.5-94.5L	184.5	60	94.5	99.5	31.5	32	SP.0904	0.89
C32-TSD32.5-97.5L	187.5	60	97.5	102.5	32.5	32	SP.0904	0.92
C32-TSD33.5-100.5L	190.5	60	100.5	105.5	33.5	32	SP.0904	0.96

配件表 Accessories

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

• 長度單位 Unit of Length (mm)

Dx4



特點 Feature

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

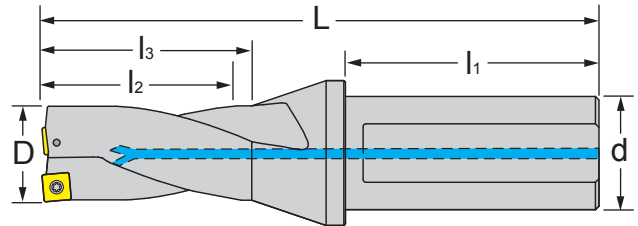
- 4 edges are usable on 1 insert, effective cost-saving.
- Both inner and outer flutes use the same type of square inserts, which is easy for stock management, prevent mis-assembly and reduce cutter damaging.

規格 Spec.	L	l ₁	l ₂	l ₃	D	d	刀片 Insert	重量 (KGS) Weight
C25-TSD13-52L	132	56	52	57	13	25	SP..0502	0.34
C25-TSD14-56L	136	56	56	61	14	25	SP..0502	0.34
C25-TSD15-60L	140	56	60	65	15	25	SP..0502	0.36
C25-TSD16-64L	146	56	64	69	16	25	SP..0602	0.37
C25-TSD17-68L	150	56	68	73	17	25	SP..0602	0.38
C25-TSD18-72L	154	56	72	77	18	25	SP..0602	0.40
C25-TSD19-76L	158	56	76	81	19	25	SP..0602	0.41
C25-TSD20-80L	162	56	80	85	20	25	SP..0602	0.43
C25-TSD21-84L	166	56	84	89	21	25	SP..0602	0.45
C25-TSD22-88L	170	56	88	93	22	25	SP..07T3	0.67
C32-TSD23-92L	180	60	92	97	23	32	SP..07T3	0.69
C32-TSD24-96L	184	60	96	101	24	32	SP..07T3	0.71
C32-TSD25-100L	188	60	100	105	25	32	SP..07T3	0.74
C32-TSD26-104L	192	60	104	109	26	32	SP..07T3	0.77
C32-TSD27-108L	196	60	108	113	27	32	SP..07T3	0.81
C32-TSD28-112L	202	60	112	117	28	32	SP..0904	0.86
C32-TSD29-116L	206	60	116	121	29	32	SP..0904	0.88
C32-TSD30-120L	210	60	120	125	30	32	SP..0904	0.94
C32-TSD31-124L	214	60	124	129	31	32	SP..0904	0.96
C32-TSD32-128L	218	60	128	133	32	32	SP..0904	1.01
C32-TSD33-132L	222	60	132	137	33	32	SP..0904	1.06
C32-TSD34-136L	226	60	136	141	34	32	SP..1104	1.07
C32-TSD35-140L	230	60	140	145	35	32	SP..1104	1.12
C32-TSD36-144L	234	60	144	149	36	32	SP..1104	1.15
C32-TSD37-148L	238	60	148	153	37	32	SP..1104	1.21
C32-TSD38-152L	242	60	152	157	38	32	SP..1104	1.24
C32-TSD39-156L	246	60	156	161	39	32	SP..1104	1.33



• 長度單位 Unit of Length (mm)

Dx4



特點 Feature

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

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

規格 Spec.	L	l ₁	l ₂	l ₃	D	d	刀片 Insert	重量 (KGS) Weight
C40-TSD40-160L	264	70	160	165	40	40	SP.1104	1.80
C40-TSD41-164L	268	70	164	169	41	40	SP.1104	1.81
C40-TSD42-168L	272	70	168	173	42	40	SP.1405	1.83
C40-TSD43-172L	276	70	172	177	43	40	SP.1405	1.93
C40-TSD44-176L	280	70	176	181	44	40	SP.1405	2.00
C40-TSD45-180L	284	70	180	185	45	40	SP.1405	2.13
C40-TSD46-184L	288	70	184	189	46	40	SP.1405	2.20
C40-TSD47-188L	292	70	188	193	47	40	SP.1405	2.28
C40-TSD48-192L	296	70	192	197	48	40	SP.1405	2.38
C40-TSD49-196L	300	70	196	201	49	40	SP.1405	2.48
C40-TSD50-200L	304	70	200	205	50	40	SP.1405	2.61

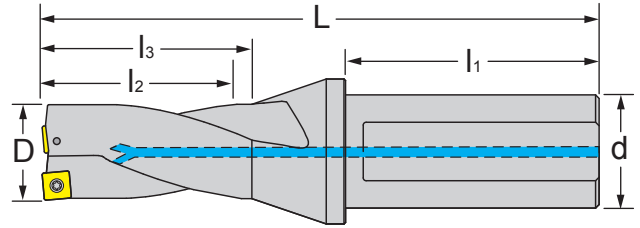
配件表 Accessories

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



•長度單位 Unit of Length (mm)

Dx5



特點 Feature

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

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

規格 Spec.	L	l ₁	l ₂	l ₃	D	d	刀片 Insert	重量 (KGS) Weight
C25-TSD16-80L	162	56	80	85	16	25	SP.0602	0.38
C25-TSD17-85L	167	56	85	90	17	25	SP.0602	0.40
C25-TSD18-90L	172	56	90	95	18	25	SP.0602	0.42
C25-TSD19-95L	177	56	95	100	19	25	SP.0602	0.44
C25-TSD20-100L	182	56	100	105	20	25	SP.0602	0.46
C25-TSD21-105L	187	56	105	110	21	25	SP.0602	0.49
C25-TSD22-110L	192	56	110	115	22	25	SP.07T3	0.50
C32-TSD23-115L	203	60	115	120	23	32	SP.07T3	0.75
C32-TSD24-120L	208	60	120	125	24	32	SP.07T3	0.77
C32-TSD25-125L	213	60	125	130	25	32	SP.07T3	0.80
C32-TSD26-130L	218	60	130	135	26	32	SP.07T3	0.83
C32-TSD27-135L	223	60	135	140	27	32	SP.07T3	0.87
C32-TSD28-140L	230	60	140	145	28	32	SP.0904	0.93
C32-TSD29-145L	235	60	145	150	29	32	SP.0904	0.97
C32-TSD30-150L	240	60	150	155	30	32	SP.0904	1.01
C32-TSD31-155L	245	60	155	160	31	32	SP.0904	1.06
C32-TSD32-160L	250	60	160	165	32	32	SP.0904	1.11
C32-TSD33-165L	255	60	165	170	33	32	SP.0904	1.17
C32-TSD34-170L	260	60	170	175	34	32	SP.1104	1.20
C32-TSD35-175L	265	60	175	180	35	32	SP.1104	1.26
C32-TSD36-180L	270	60	180	185	36	32	SP.1104	1.31
C32-TSD37-185L	275	60	185	190	37	32	SP.1104	1.36
C32-TSD38-190L	280	60	190	195	38	32	SP.1104	1.45
C32-TSD39-195L	285	60	195	200	39	32	SP.1104	1.51
C40-TSD40-200L	304	70	200	205	40	40	SP.1104	2.20
C40-TSD41-205L	309	70	205	210	41	40	SP.1104	2.40

配件表 Accessories

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

•長度單位 Unit of Length (mm)



ISO 分類	P	合金鋼 Alloyed Steels	○		○											切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting		
	M	不鏽鋼 Stainless Steels	○		○													
	K	鑄鐵 Cast Iron			○													
N	鋁及鋁合金 Aluminum&Al						■	■										
S	高溫合金 Refractory Alloys																	
H	高硬度材 Hard Material																	
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain				超微粒硬質合金 Micro grain cemented carbide				尺寸 (mm)				圖形 Drawing				
		CHF				HF				Size								
		RM4025	RM3130	RM4030		RM5005	RM5060			d	i	s	r					
	SPGT050204-M02			●						●				5	-	2.38	0.4	
	SPGT060204-M02			●						●				6	-	2.38	0.4	
	SPGT07T308-M02			●						●				7.94	-	3.97	0.8	
	SPGT090408-M02			●						●				9.8	-	4.3	0.8	
	SPGT110408-M02			●						●				11.5	-	4.76	0.8	
	SPGT140512-M02			●						●				14.3	-	5.2	1.2	
	★ SPMT050204-M03	●	●											5	-	2.38	0.4	
	★ SPMT060204-M03	●	●											6	-	2.38	0.4	
	★ SPMT07T308-M03	●	●											7.94	-	3.97	0.8	
	★ SPMT090408-M03	●	●											9.8	-	4.3	0.8	
	★ SPMT110408-M03	●	●											11.5	-	4.76	0.8	
	★ SPMT140512-M03	●	●											14.3	-	5.2	1.2	
	★ SPMT050204-MT									●	●			5	-	2.38	0.4	
	★ SPMT060204-MT									●	●			6	-	2.38	0.4	
	★ SPMT07T308-MT									●	●			7.94	-	3.97	0.8	
	★ SPMT090408-MT									●	●			9.8	-	4.3	0.8	
	★ SPMT110408-MT									●	●			11.5	-	4.76	0.8	
	★ SPMT140512-MT									●	●			14.3	-	5.2	1.2	

★ 推薦 Recommended

SP_05.06.07.09.11.14 切削條件數據表 Cutting Parameter

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

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

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

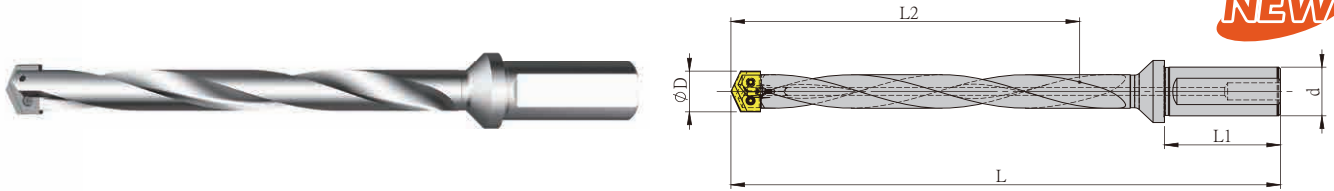
• 長度單位 Unit of Length (mm)



Dx7

KOVIT

NEW



規格 Spec.	D	d	L	L1	L2	刀片	板手	螺絲
C20-ZSD1315-105L	13-15	20		50	105	SDZ13~SDZ15	T8	M2.5-6.33-3.5-48-T8-TIN
C20-ZSD1517-120L	15-17	20		50	120	SDZ15~SDZ17	T8	M2.5-6.33-3.5-48-T8-TIN
C25-ZSD1821-150L	18-21	25	244	55	150	SDZ18~SDZ21	T9	M3-8.0-4.4-60/M3-7.5-4.2-53
C25-ZSD2224-170L	22-24	25		55	170	SDZ22~SDZ24	T9	M3-8.0-4.4-60/M3-7.5-4.2-53
C32-ZSD2529-205L	25-29	32		60	205	SDZ25~SDZ29	T15	M4-8.75-5.6-60/M4-9.5-5.5-55
C32-ZSD3034-255L	30-34	32		60	255	SDZ30~SDZ34	T15	M4-8.75-5.6-60/M4-9.5-5.5-55

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

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain				尺寸 (mm) Size				圖形 Drawing
		CHF				Size				
		OM4010	RM3125			d	i	s	r	
	NEW SDZ13003	●	●			13	-	3.18	-	
	NEW SDZ14003	●	●			14	-	3.18	-	
	NEW SDZ15003	●	●			15	-	3.18	-	
	NEW SDZ16003	●	●			16	-	3.18	-	
	NEW SDZ17003	●	●			17	-	3.18	-	
	NEW SDZ180T3	●	●			18	-	3.97	-	
	NEW SDZ190T3	●	●			19	-	3.97	-	
	NEW SDZ200T3	●	●			20	-	3.97	-	
	NEW SDZ210T3	●	●			21	-	3.97	-	
	NEW SDZ220T3	●	●			22	-	3.97	-	
	NEW SDZ230T3	●	●			23	-	3.97	-	
	NEW SDZ240T3	●	●			24	-	3.97	-	
	NEW SDZ25004	●	●			25	-	4.76	-	
	NEW SDZ26004	●	●			26	-	4.76	-	
	NEW SDZ27004	●	●			27	-	4.76	-	
	NEW SDZ28004	●	●			28	-	4.76	-	
	NEW SDZ29004	●	●			29	-	4.76	-	
	NEW SDZ30004	●	●			30	-	4.76	-	
	NEW SDZ31004	●	●			31	-	4.76	-	
	NEW SDZ32004	●	●			32	-	4.76	-	
NEW SDZ33004	●	●			33	-	4.76	-		
NEW SDZ34004	●	●			34	-	4.76	-		

NEW 新品 New Product

•長度單位 Unit of Length (mm)

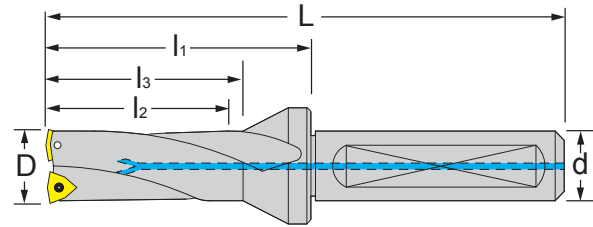
SD 捨棄式快速鑽頭 (2 倍長)

SD INDEXABLE HIGH SPEED DRILL



KOVIT

Dx2



特點 Feature

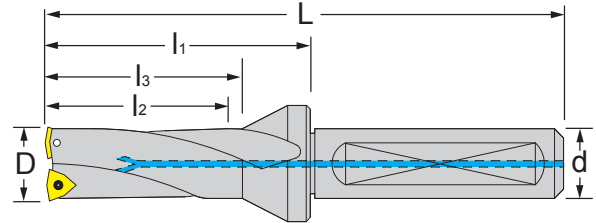
- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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

規格 Spec.	L	l ₁	l ₂	l ₃	D	d	刀片 Insert	重量 (KGS) Weight
C25-SD16-32L	119	63	32	35	16	25	WC..0302	0.38
C25-SD17-34L	120	64	34	37	17	25	WC..0302	0.38
C25-SD18-36L	122	66	36	39	18	25	WC..0302	0.39
C25-SD19-38L	124	68	38	41	19	25	WC..0302	0.40
C25-SD20-40L	126	70	40	43	20	25	WC..0302	0.41
C25-SD21-42L	128	72	42	45	21	25	WC..0402	0.43
C32-SD22-44L	136	76	44	47	22	32	WC..0402	0.62
C32-SD23-46L	138	78	46	49	23	32	WC..0402	0.64
C32-SD24-48L	141	81	48	51	24	32	WC..0402	0.66
C32-SD25-50L	142	82	50	53	25	32	WC..0402	0.66
C32-SD26-52L	144	84	52	55	26	32	WC..0503	0.68
C32-SD27-54L	146	86	54	57	27	32	WC..0503	0.69
C32-SD28-56L	148	88	56	59	28	32	WC..0503	0.72
C32-SD29-58L	150	90	58	61	29	32	WC..0503	0.73
C32-SD30-60L	152	92	60	63	30	32	WC..0503	0.75
C32-SD31-62L	154	94	62	65	31	32	WC..06T3	0.76
C32-SD32-64L	156	96	64	67	32	32	WC..06T3	0.78
C32-SD33-66L	159	99	66	70	33	32	WC..06T3	0.82
C32-SD34-68L	160	100	68	71	34	32	WC..06T3	0.83
C32-SD35-70L	162	102	70	73	35	32	WC..06T3	0.84
C32-SD36-72L	164	104	72	75	36	32	WC..06T3	0.88
C32-SD37-74L	166	106	74	77	37	32	WC..06T3	0.92
C32-SD38-76L	168	108	76	79	38	32	WC..06T3	0.94
C32-SD39-78L	170	110	78	81	39	32	WC..06T3	0.97
C40-SD40-80L	185	115	80	83	40	40	WC..06T3	1.47
C40-SD41-82L	187	117	82	85	41	40	WC..06T3	1.49
C40-SD42-84L	189	119	84	87	42	40	WC..0804	1.55
C40-SD43-86L	191	121	86	89	43	40	WC..0804	1.56
C40-SD44-88L	194	124	88	91	44	40	WC..0804	1.63
C40-SD45-90L	195	125	90	93	45	40	WC..0804	1.65
C40-SD46-92L	197	127	92	95	46	40	WC..0804	1.79
C40-SD47-94L	199	129	94	97	47	40	WC..0804	1.84
C40-SD48-96L	201	131	96	99	48	40	WC..0804	1.76
C40-SD49-98L	202	132	98	101	49	40	WC..0804	1.87
C40-SD50-100L	204	134	100	103	50	40	WC..0804	1.93
C40-SD51-102L	206	136	102	105	51	40	WC..0804	1.19
C40-SD52-104L	208	138	104	107	52	40	WC..0804	0.20
C40-SD53-106L	210	140	106	109	53	40	WC..0804	0.20
C40-SD54-108L	212	142	108	111	54	40	WC..0804	2.08
C40-SD55-110L	215	145	110	113	55	40	WC..0804	2.20
C40-SD56-112L	217	147	112	115	56	40	WC..0804	2.30
C40-SD57-114L	219	149	114	117	57	40	WC..0804	2.40
C40-SD58-116L	221	151	116	119	58	40	WC..0804	2.45
C40-SD59-118L	223	153	118	121	59	40	WC..0804	2.70

•長度單位 Unit of Length (mm)

Dx3 0.5 Type



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變
- Made of anti-vibration tool steel.
- After the heat treatment, we will finish the cutter again for better accuracy.

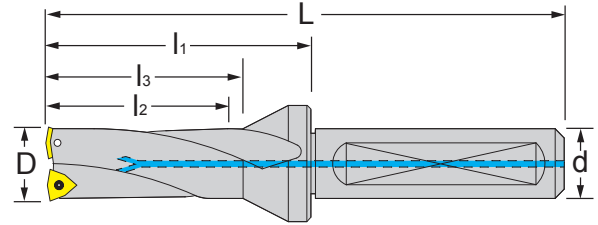
規格 Spec.	L	l ₁	l ₂	l ₃	D	d	刀片 Insert	重量 (KGS) Weight
C25-SD16.5-48L	134	78	48	51	16.5	25	WC..0302	0.39
C25-SD17.5-51L	133	77	51	54	17.5	25	WC..0302	0.41
C25-SD18.5-54L	140	84	54	57	18.5	25	WC..0302	0.42
C25-SD19.5-57L	143	87	57	60	19.5	25	WC..0302	0.43
C25-SD20.5-60L	145	89	60	63	20.5	25	WC..0302	0.45
C25-SD21.5-63L	148	92	63	66	21.5	25	WC..0402	0.46
C32-SD22.5-66L	155	95	66	69	22.5	32	WC..0402	0.66
C32-SD23.5-69L	160	100	69	72	23.5	32	WC..0402	0.66
C32-SD24.5-72L	164	104	72	75	24.5	32	WC..0402	0.70
C32-SD25.5-75L	167	107	75	78	25.5	32	WC..0402	0.73

配件表 Accessories

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

•長度單位 Unit of Length (mm)

Dx3



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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

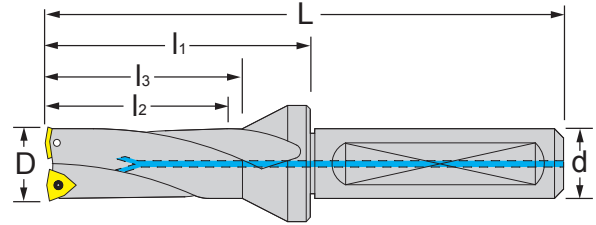
規格 Spec.	L	l ₁	l ₂	l ₃	D	d	刀片 Insert	重量 (KGS) Weight
C25-SD16-48L	134	78	48	51	16	25	WC..0302	0.39
C25-SD17-51L	137	81	51	54	17	25	WC..0302	0.40
C25-SD18-54L	140	84	54	57	18	25	WC..0302	0.41
C25-SD19-57L	143	87	57	60	19	25	WC..0302	0.43
C25-SD20-60L	146	90	60	63	20	25	WC..0302	0.44
C25-SD21-63L	149	93	63	66	21	25	WC..0402	0.45
C32-SD22-66L	158	98	66	69	22	32	WC..0402	0.66
C32-SD23-69L	161	101	69	72	23	32	WC..0402	0.69
C32-SD24-72L	164	104	72	75	24	32	WC..0402	0.69
C32-SD25-75L	167	107	75	78	25	32	WC..0402	0.72
C32-SD26-78L	170	110	78	81	26	32	WC..0503	0.73
C32-SD27-81L	173	113	81	84	27	32	WC..0503	0.76
C32-SD28-84L	176	116	84	87	28	32	WC..0503	0.79
C32-SD29-87L	179	119	87	90	29	32	WC..0503	0.81
C32-SD30-90L	182	122	90	93	30	32	WC..0503	0.82
C32-SD31-93L	185	125	93	96	31	32	WC..06T3	0.86
C32-SD32-96L	188	128	96	99	32	32	WC..06T3	0.88
C32-SD33-99L	191	131	99	102	33	32	WC..06T3	0.92
C32-SD34-102L	194	134	102	105	34	32	WC..06T3	0.95
C32-SD35-105L	197	137	105	108	35	32	WC..06T3	1.00
C32-SD36-108L	200	140	108	111	36	32	WC..06T3	1.04
C32-SD37-111L	203	143	111	114	37	32	WC..06T3	1.11
C32-SD38-114L	206	146	114	117	38	32	WC..06T3	1.12
C32-SD39-117L	209	149	117	120	39	32	WC..06T3	1.18

配件表 Accessories

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

•長度單位 Unit of Length (mm)

Dx3



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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

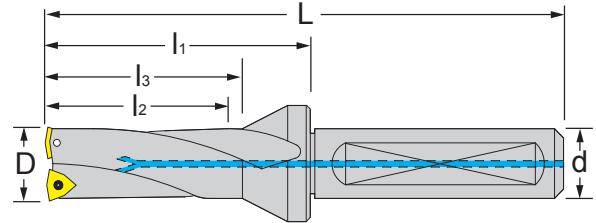
規格 Spec.	L	l ₁	l ₂	l ₃	D	d	刀片 Insert	重量 (KGS) Weight
C40-SD40-120L	225	155	120	123	40	40	WC..06T3	1.64
C40-SD41-123L	228	158	123	126	41	40	WC..06T3	1.73
C40-SD42-126L	231	161	126	129	42	40	WC..0804	1.78
C40-SD43-129L	234	164	129	132	43	40	WC..0804	1.82
C40-SD44-132L	238	168	132	135	44	40	WC..0804	1.84
C40-SD45-135L	240	170	135	138	45	40	WC..0804	1.96
C40-SD46-138L	243	173	138	141	46	40	WC..0804	1.97
C40-SD47-141L	246	176	141	144	47	40	WC..0804	2.38
C40-SD48-144L	249	179	144	147	48	40	WC..0804	2.11
C40-SD49-147L	252	182	147	150	49	40	WC..0804	2.25
C40-SD50-150L	254	184	150	153	50	40	WC..0804	2.28
C40-SD51-153L	257	187	153	156	51	40	WC..0804	2.40
C40-SD52-156L	260	190	156	159	52	40	WC..0804	2.42
C40-SD53-159L	263	193	159	162	53	40	WC..0804	2.49
C40-SD54-162L	266	196	162	165	54	40	WC..0804	2.63
C40-SD55-165L	270	200	165	168	55	40	WC..0804	2.85
C40-SD56-168L	273	203	168	171	56	40	WC..0804	2.92
C40-SD57-171L	275	205	171	174	57	40	WC..0804	3.01
C40-SD58-174L	279	209	174	177	58	40	WC..0804	3.19
C40-SD59-177L	282	212	177	180	59	40	WC..0804	3.21
C40-SD60-180L	285	215	180	183	60	40	WC..0804	3.41

配件表 Accessories

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

•長度單位 Unit of Length (mm)

Dx4



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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

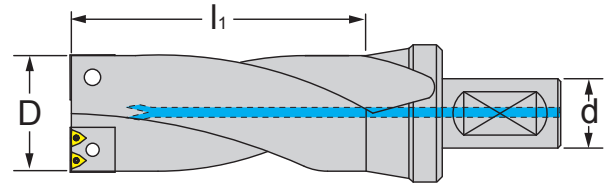
規格 Spec.	L	l ₁	l ₂	l ₃	D	d	刀片 Insert	重量 (KGS) Weight
C25-SD16-64L	150	94	64	67	16	25	WC..0302	0.39
C25-SD17-68L	154	98	68	71	17	25	WC..0302	0.42
C25-SD18-72L	158	102	72	75	18	25	WC..0302	0.44
C25-SD19-76L	162	106	76	79	19	25	WC..0302	0.44
C25-SD20-80L	166	110	80	83	20	25	WC..0302	0.47
C25-SD21-84L	170	114	84	87	21	25	WC..0402	0.48
C32-SD22-88L	180	120	88	91	22	32	WC..0402	0.69
C32-SD23-92L	184	124	92	95	23	32	WC..0402	0.71
C32-SD24-96L	188	128	96	99	24	32	WC..0402	0.74
C32-SD25-100L	192	132	100	103	25	32	WC..0402	0.78
C32-SD26-104L	196	136	104	107	26	32	WC..0503	0.80
C32-SD27-108L	200	140	108	111	27	32	WC..0503	0.82
C32-SD28-112L	204	144	112	115	28	32	WC..0503	0.84
C32-SD29-116L	208	148	116	119	29	32	WC..0503	0.89
C32-SD30-120L	212	152	120	123	30	32	WC..0503	0.94
C32-SD31-124L	216	156	124	127	31	32	WC..06T3	0.95
C32-SD32-128L	220	160	128	131	32	32	WC..06T3	1.04
C32-SD33-132L	224	164	132	135	33	32	WC..06T3	1.07
C32-SD34-136L	228	168	136	139	34	32	WC..06T3	1.08
C32-SD35-140L	232	172	140	143	35	32	WC..06T3	1.18
C32-SD39-156L	248	188	156	159	39	32	WC..06T3	1.36
C40-SD41-164L	269	199	164	167	41	40	WC..06T3	1.89
C40-SD44-176L	282	212	176	179	44	40	WC..0804	2.18
C40-SD47-188L	293	223	188	191	47	40	WC..0804	2.28
C40-SD49-196L	301	231	196	199	49	40	WC..0804	2.63
C40-SD54-216L	320	250	216	219	54	40	WC..0804	3.22
C40-SD59-236L	341	271	236	239	59	40	WC..0804	3.75

配件表 Accessories

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

•長度單位 Unit of Length (mm)

加工直徑 Cutting Dia.: Ø61~Ø80



配件表 Accessories

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

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

規格 Spec.	l ₁	D	d	內刃 Inner Edge	外刃 Outer Edge	鑽孔範圍 Range	鎖固螺絲 Lock Screw	刀片 Insert	重量 (KGS) Weight
C40-CSD6161-195L	195	61	40	ICSD6165	OCSD61	Ø 61 ~ Ø 65mm	BH-M8-20	WC..06T3	6.05
C40-CSD6162-195L	195	62	40	ICSD6165	OCSD62	Ø 61 ~ Ø 65mm	BH-M8-20	WC..06T3	6.09
C40-CSD6163-195L	195	63	40	ICSD6165	OCSD63	Ø 61 ~ Ø 65mm	BH-M8-20	WC..06T3	6.11
C40-CSD6164-195L	195	64	40	ICSD6165	OCSD64	Ø 61 ~ Ø 65mm	BH-M8-20	WC..06T3	6.13
C40-CSD6165-195L	195	65	40	ICSD6165	OCSD65	Ø 61 ~ Ø 65mm	BH-M8-20	WC..06T3	5.90
C40-CSD6666-210L	210	66	40	ICSD6670	OCSD66	Ø 66 ~ Ø 70mm	BH-M8-20	WC..06T3	7.42
C40-CSD6667-210L	210	67	40	ICSD6670	OCSD67	Ø 66 ~ Ø 70mm	BH-M8-20	WC..06T3	7.42
C40-CSD6668-210L	210	68	40	ICSD6670	OCSD68	Ø 66 ~ Ø 70mm	BH-M8-20	WC..06T3	7.44
C40-CSD6669-210L	210	69	40	ICSD6670	OCSD69	Ø 66 ~ Ø 70mm	BH-M8-20	WC..06T3	7.46
C40-CSD6670-210L	210	70	40	ICSD6670	OCSD70	Ø 66 ~ Ø 70mm	BH-M8-20	WC..06T3	7.50
C40-CSD7171-225L	225	71	40	ICSD7175	OCSD71	Ø 71 ~ Ø 75mm	BH-M8-20	WC..06T3	7.62
C40-CSD7172-225L	225	72	40	ICSD7175	OCSD72	Ø 71 ~ Ø 75mm	BH-M8-20	WC..06T3	7.62
C40-CSD7173-225L	225	73	40	ICSD7175	OCSD73	Ø 71 ~ Ø 75mm	BH-M8-20	WC..06T3	7.63
C40-CSD7174-225L	225	74	40	ICSD7175	OCSD74	Ø 71 ~ Ø 75mm	BH-M8-20	WC..06T3	7.64
C40-CSD7175-225L	225	75	40	ICSD7175	OCSD75	Ø 71 ~ Ø 75mm	BH-M8-20	WC..06T3	7.65
C40-CSD7676-240L	240	76	40	ICSD7680	OCSD76	Ø 76 ~ Ø 80mm	BH-M8-22	WC..06T3	6.49
C40-CSD7677-240L	240	77	40	ICSD7680	OCSD77	Ø 76 ~ Ø 80mm	BH-M8-22	WC..06T3	8.80
C40-CSD7678-240L	240	75	40	ICSD7680	OCSD78	Ø 76 ~ Ø 80mm	BH-M8-22	WC..06T3	8.82
C40-CSD7679-240L	240	79	40	ICSD7680	OCSD79	Ø 76 ~ Ø 80mm	BH-M8-22	WC..06T3	8.84
C40-CSD7680-240L	240	80	40	ICSD7680	OCSD80	Ø 76 ~ Ø 80mm	BH-M8-22	WC..06T3	8.84

配件表 Accessories

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



• 長度單位 Unit of Length (mm)

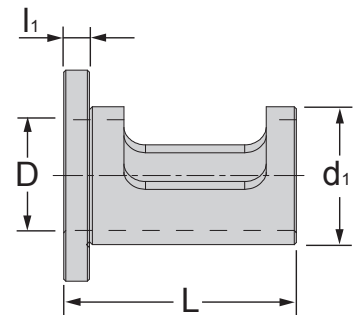
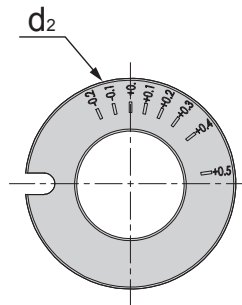


ISO 分類	P	合金鋼 Alloyed Steels		○										切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting		
	M	不鏽鋼 Stainless Steels														
	K	鑄鐵 Cast Iron														
N	鋁及鋁合金 Aluminum&Al	○														
S	高溫合金 Refractory Alloys															
H	高硬度材 Hard Material															
形狀 Shape	規格 Spec.	超微粒硬質合金 Micro grain cemented carbide										尺寸 (mm) Size				圖形 Drawing
		HF														
		GH05	PTE30									d	i	s	r	
	WCKT030208	●										5.56	3.8	2.38	0.8	
	WCKT040208	●										6.35	4.3	2.38	0.8	
	WCKT050308	●										7.94	5.4	3.18	0.8	
	WCKT06T308	●										9.525	6.5	3.97	0.8	
	WCKT080408	●										12.7	8.7	4.76	0.8	
	WCMX030208-M01		●									5.56	3.8	2.38	0.8	
	WCMT040208-M01		●									6.35	4.3	2.38	0.8	
	WCMT050308-M01		●									7.94	5.4	3.18	0.8	
	WCMT06T308-M01		●									9.525	6.5	3.97	0.8	
	WCMX080412-M01		●									12.7	8.7	4.76	1.2	

WC_03.04.05.06.08 切削條件數據表 Cutting Parameter

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

• 長度單位 Unit of Length (mm)



特點 Feature

- 通過調整直徑範圍來調整加工徑

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

規格 Spec.	L	l ₁	D	d ₁	d ₂	銑床加工徑調整可能範圍 Milling Machine Adjustment	車床中心高調整範圍 Lathe Machine Adjustment	重量 (KGS) Weight
EC-2532-48	54	6	25	32	49	-0.2~+0.5	-0.15~+0.2	0.14
EC-3240-53	59	6	32	40	58	-0.2~+0.5	-0.15~+0.2	0.20

銑床鑽孔徑尺寸調整

Adjust the drill hole diameter for milling process

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



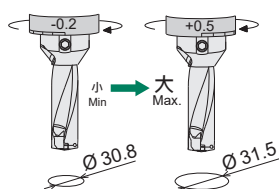
請注意 Cautions:

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

銑床加工徑調整

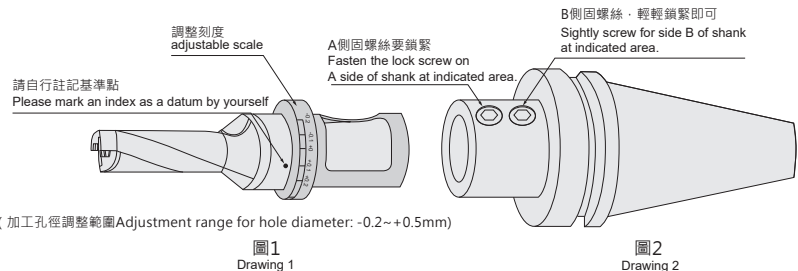
Adjust machining diameter for milling process

例：Ø31mm鑽頭 Drill head



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

調整範圍
-0.2~+0.5



車床中心高調整

Adjust center height of lathe

車床的問題，大多是由中心高偏移引起的。
若孔端面中心殘留有直徑約0.5mm的芯核，則中心高是合適的，以下情況中，有必要調整中心高：1. 沒有殘留芯核 2. 芯核直徑大於1mm。

The lathe issue mostly caused by the high offset of center height.
The center height is appropriate if there remains 0.5mm diameter of core on the end side of hole.
Required center height adjustment for the following condition:

- No core remained
- Core diameter larger than 1mm.

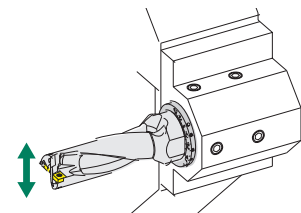
調整方法

Adjustment methods.

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

中心高調整-車床加工用

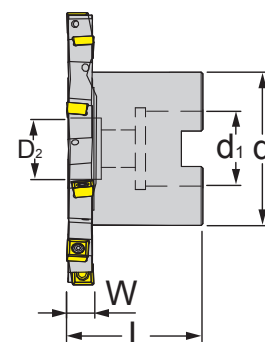
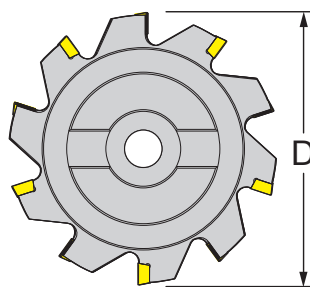
Adjust center height for lathe machining



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

調整範圍
-0.15~+0.2

•長度單位 Unit of Length (mm)



特點 Feature

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

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

規格 Spec.	L	D	D ₂	d	d ₁	W	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
FDC-80×08B22	40	80	18	45	22	8	8	SP.0602	0.73
FDC-100×08B27	40	100	19	50	27	8	10	SP.0602	0.96
FDC-100×10B27	40	100	19	50	27	10	10	SP.0602	1.03
FDC-100×14B27	40	100	19	50	27	14	10	SP.0903	1.02
FDC-125×10B32	45	125	43	70	32	10	12	SP.0602	1.70
FDC-125×12B32	45	125	43	70	32	12	12	SP.0903	1.70
FDC-160×12B40	50	160	50	80	40	12	14	SP.0903	2.70
FDC-200×12B40	50	200	50	90	40	12	16	SP.0903	4.00
FDC-125×16B32	45	125	43	70	32	16	10	SP.1204	1.80
FDC-160×16B40	50	160	50	80	40	16	12	SP.1204	2.90
FDC-160×18B40	50	160	50	80	40	18	12	SP.1204	2.90
FDC-200×16B40	50	200	50	90	40	16	14	SP.1204	4.50
FDC-200×18B40	50	200	50	90	40	18	14	SP.1204	4.90
FDC-200×20B40	50	200	50	90	40	20	14	SP.1204	5.19

配件表 Accessories

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



• 長度單位 Unit of Length (mm)

ISO 分類	P	合金鋼 Alloyed Steels	○	○	○													
	M	不鏽鋼 Stainless Steels	○	○														
	K	鑄鐵 Cast Iron	○	○		○												
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain				超微粒硬質合金 Micro grain cemented carbide				尺寸 (mm) Size				圖形 Drawing				
		CHF				HF				Size								
		OM4010	OM4025	RM4025	RM3130	OM5005					d	i	s		r			
	SPMT060204-M01			●	●									6	-	2.38	0.4	
	SPMT090308-M01			●										9.8	-	3.18	0.8	
	SPMW090304	●	●											9.525	-	3.18	0.4	
	SPET120408-M02	●	●					●						12.7	-	4.76	0.8	
	SPMT120408-R01			●										12.7	-	4.76	0.8	

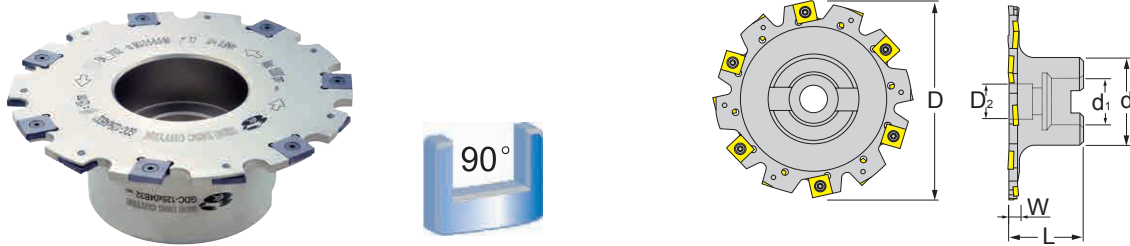
SP_06.09.12 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials	刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切深 Ap(mm)
P 低合金鋼 Low-Alloy Steels	OM4010	100~220	0.10~0.35	2.0~9.0
	OM4025	100~220	0.10~0.35	2.0~9.0
	RM4025	100~220	0.10~0.35	2.0~9.0
P 合金鋼 Alloyed Steels	OM4010	70~120	0.10~0.25	1.0~5.0
	OM4025	70~120	0.10~0.25	1.0~5.0
	RM4025	70~120	0.10~0.25	1.0~5.0
M 不鏽鋼 Stainless Steels	OM4010	130~200	0.12~0.30	3.0~8.0
	OM4025	130~200	0.12~0.30	3.0~8.0
K 鑄鐵 Cast Iron	OM4025	100~210	0.10~0.20	2.0~9.0
	RM3130	100~210	0.10~0.20	2.0~9.0
N 高溫合金 Aluminum&Al	OM5005	450(500~700)	1.2(1.2~1.8)	2.0~9.0

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



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

• 長度單位 Unit of Length (mm)



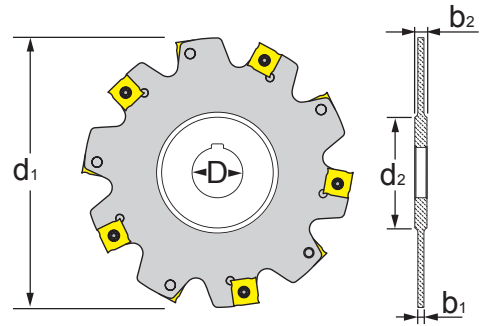
規格 Spec.	L	D	D ₂	d	d ₁	W	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
GDC-80×04B22	40	80	28	45	22	4	10	SN..1102	0.50
GDC-80×05B22	40	80	28	45	22	5	10	SN..1103	0.50
GDC-80×06B22	40	80	28	45	22	6	8	SN..1203	0.55
GDC-80×07B22	40	80	28	45	22	7	9	SN..1203	0.57
GDC-80×08B22	40	80	28	45	22	8	9	SN..1203	0.70
GDC-80×09B22	40	80	28	45	22	9	8	SN..1205	0.60
GDC-80×10B22	40	80	28	45	22	10	8	SN..1205	0.62
GDC-80×12B22	40	80	28	45	22	12	8	SN..1207	0.66
GDC-80×14B22	40	80	28	45	22	14	9	SN..1207	0.70
GDC-100×04B27	40	100	33	50	27	4	12	SN..1102	0.74
GDC-100×05B27	40	100	33	50	27	5	12	SN..1103	0.70
GDC-100×06B27	40	100	33	50	27	6	10	SN..1203	0.73
GDC-100×07B27	40	100	33	50	27	7	9	SN..1203	0.76
GDC-100×08B27	40	100	33	50	27	8	9	SN..1203	0.80
GDC-100×09B27	40	100	33	50	27	9	10	SN..1205	0.82
GDC-100×10B27	40	100	33	50	27	10	10	SN..1205	0.86
GDC-100×12B27	40	100	33	50	27	12	10	SN..1207	0.90
GDC-100×14B27	40	100	33	50	27	14	9	SN..1207	0.98
GDC-125×04B32	45	125	43	70	32	4	14	SN..1102	1.30
GDC-125×05B32	45	125	43	70	32	5	14	SN..1103	1.40
GDC-125×06B32	45	125	43	70	32	6	12	SN..1203	1.40
GDC-125×07B32	45	125	43	70	32	7	12	SN..1203	1.45
GDC-125×08B32	45	125	43	70	32	8	12	SN..1203	1.45
GDC-125×09B32	45	125	43	70	32	9	12	SN..1205	1.58
GDC-125×10B32	45	125	43	70	32	10	12	SN..1205	1.58
GDC-125×12B32	45	125	43	70	32	12	12	SN..1207	1.65
GDC-125×14B32	45	125	43	70	32	14	12	SN..1207	1.76
GDC-160×06B40	50	160	50	90	40	6	16	SN..1203	2.60
GDC-160×07B40	50	160	50	90	40	7	15	SN..1203	2.60
GDC-160×08B40	50	160	50	90	40	8	15	SN..1203	2.80
GDC-160×09B40	50	160	50	90	40	9	16	SN..1205	2.80
GDC-160×10B40	50	160	50	90	40	10	16	SN..1205	2.90
GDC-160×12B40	50	160	50	90	40	12	16	SN..1207	3.08
GDC-160×14B40	50	160	50	90	40	14	15	SN..1207	0.23

配件表 Accessories

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



•長度單位 Unit of Length (mm)



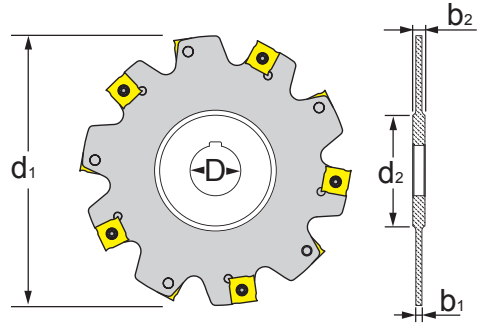
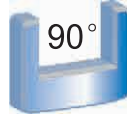
規格 Spec.	D	d ₁	d ₂	b ₁	b ₂	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
SDC-100×04A25.4	25.4	100	41	4	12	12	SN..1102	0.38
SDC-100×05A25.4	25.4	100	41	5	12	12	SN..1103	0.44
SDC-100×06A25.4	25.4	100	41	6	12	10	SN..1203	0.45
SDC-100×07A25.4	25.4	100	41	7	12	9	SN..1203	0.49
SDC-100×08A25.4	25.4	100	41	8	12	9	SN..1203	0.54
SDC-100×10A25.4	25.4	100	41	10	12	10	SN..1205	0.59
SDC-100×11A25.4	25.4	100	41	11	12	10	SN..1207	0.62
SDC-100×12A25.4	25.4	100	41	12	12	10	SN..1207	0.66
SDC-100×14A25.4	25.4	100	41	14	16	9	SN..1207	0.77
SDC-125×04A25.4	25.4	125	41	4	12	14	SN..1102	0.58
SDC-125×05A25.4	25.4	125	41	5	12	14	SN..1103	0.63
SDC-125×06A25.4	25.4	125	41	6	12	12	SN..1203	0.69
SDC-125×07A25.4	25.4	125	41	7	12	12	SN..1203	0.75
SDC-125×08A25.4	25.4	125	41	8	12	12	SN..1203	0.81
SDC-125×09A25.4	25.4	125	41	9	12	12	SN..1205	0.86
SDC-125×10A25.4	25.4	125	41	10	12	12	SN..1205	0.94
SDC-125×12A25.4	25.4	125	41	12	12	12	SN..1207	1.05
SDC-125×14A25.4	25.4	125	41	14	16	12	SN..1207	1.20
SDC-160×06A25.4	25.4	160	41	6	12	16	SN..1203	1.04
SDC-160×07A25.4	25.4	160	41	7	12	15	SN..1203	0.17
SDC-160×08A25.4	25.4	160	41	8	12	15	SN..1203	1.26
SDC-160×09A25.4	25.4	160	41	9	12	16	SN..1205	1.35
SDC-160×10A25.4	25.4	160	41	10	12	16	SN..1205	1.48
SDC-160×12A25.4	25.4	160	41	12	12	16	SN..1207	1.74
SDC-160×14A25.4	25.4	160	41	14	16	15	SN..1207	1.99

配件表 Accessories

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



•長度單位 Unit of Length (mm)



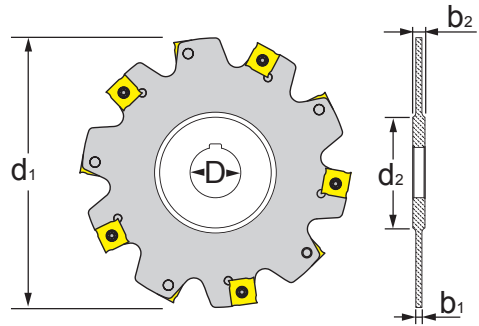
規格 Spec.	D	d ₁	d ₂	b ₁	b ₂	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
SDC-63×04B22	22	63	34	4	8	8	SN..1102	0.27
SDC-63×05B22	22	63	34	5	8	8	SN..1103	0.28
SDC-63×06B22	22	63	34	6	8	6	SN..1203	0.28
SDC-80×04B22	22	80	34	4	8	10	SN..1102	0.31
SDC-80×05B22	22	80	34	5	8	10	SN..1103	0.33
SDC-80×06B22	22	80	34	6	8	8	SN..1203	0.35
SDC-100×04B27	27	100	41	4	12	12	SN..1102	0.38
SDC-100×05B27	27	100	41	5	12	12	SN..1103	0.44
SDC-100×06B27	27	100	41	6	12	10	SN..1203	0.45
SDC-100×07B27	27	100	41	7	12	9	SN..1203	0.49
SDC-100×08B27	27	100	41	8	12	9	SN..1203	0.54
SDC-100×10B27	27	100	41	10	12	10	SN..1205	0.59
SDC-100×12B27	27	100	41	12	12	10	SN..1207	0.70
SDC-100×14B27	27	100	41	14	12	9	SN..1207	0.70
SDC-125×04B32	32	125	47	4	12	14	SN..1102	0.58
SDC-125×05B32	32	125	47	5	12	14	SN..1103	0.63
SDC-125×06B32	32	125	47	6	12	12	SN..1203	0.69
SDC-125×07B32	32	125	47	7	12	12	SN..1203	0.75
SDC-125×08B32	32	125	47	8	12	12	SN..1203	0.81
SDC-125×09B32	32	125	47	9	12	12	SN..1205	0.86
SDC-125×10B32	32	125	47	10	12	12	SN..1205	0.94
SDC-125×12B32	32	125	47	12	12	12	SN..1207	1.05
SDC-125×14B32	32	125	47	14	12	12	SN..1207	1.20

配件表 Accessories

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



•長度單位 Unit of Length (mm)

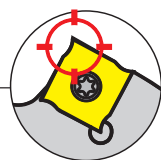
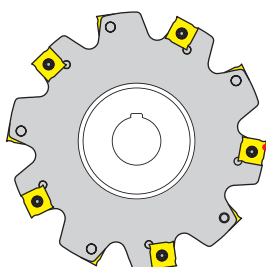


規格 Spec.	D	d ₁	d ₂	b ₁	b ₂	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
SDC-160×06B40	40	160	55	6	12	16	SN..1203	1.04
SDC-160×07B40	40	160	55	7	12	15	SN..1203	0.17
SDC-160×08B40	40	160	55	8	12	15	SN..1203	1.26
SDC-160×09B40	40	160	55	9	12	16	SN..1205	1.35
SDC-160×10B40	40	160	55	10	12	16	SN..1205	1.48
SDC-160×12B40	40	160	55	12	12	16	SN..1207	1.74
SDC-160×14B40	40	160	55	14	12	15	SN..1207	1.99
SDC-200×06B50	50	200	69	6	12	18	SN..1203	-
SDC-200×08B50	50	200	69	8	12	18	SN..1203	-
SDC-200×10B50	50	200	69	10	12	18	SN..1205	-
SDC-200×12B50	50	200	69	12	12	18	SN..1207	-
SDC-200×14B50	50	200	69	14	14	18	SN..1207	3.20
SDC-250×08B50	50	250	69	8	12	24	SN..1203	4.30
SDC-250×10B50	50	250	69	10	12	24	SN..1205	4.30
SDC-250×12B50	50	250	69	12	12	24	SN..1207	4.50
SDC-250×14B50	50	250	69	14	14	24	SN..1207	4.50

配件表 Accessories

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

⚠ 請注意! Cautions!



刀片安裝時，需留意刀尖方向
(如圖示紅色準心)

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



•長度單位 Unit of Length (mm)

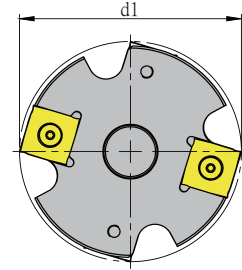
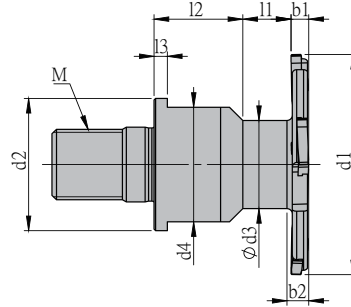
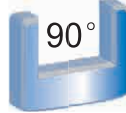
SDC 鎖牙式小徑側銑刀

SDC INDEXABLE SIDE DISC CUTTER FOR SMALL DIAMETER



KOVIT

NEW



特點 Feature

- 小徑專用 · 可搭配鑄鋼延長桿加長使用

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

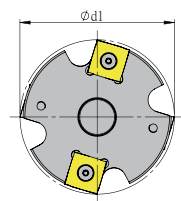
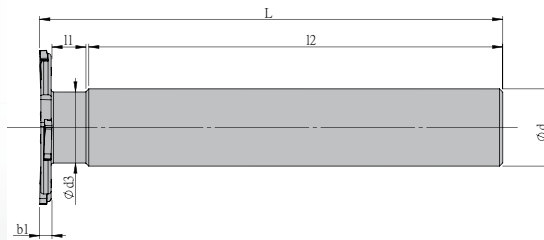
規格 Spec.	d1	d2	d3	d4	b1	b2	l1	l2	l3	M	刃數 Flutes	刀片 Insert
SDC-40-04M10	40	18.5	14	16	4	4.9	8.3	10.7	3	M10	4	SNFX1102
SDC-40-05M10	40	18.5	14	16	5	5.9	8.3	10.7	3	M10	4	SNFX1103
SDC-50-04M12	50	23	16	18	4	4.9	11	13	3	M12	6	SNFX1102
SDC-50-05M12	50	23	16	18	5	5.9	11	13	3	M12	6	SNFX1103
SDC-50-06M12	50	23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

- 搭配 SOM 鎖牙式延長桿 B000

SDC 直柄小徑側銑刀

SDC INDEXABLE SIDE DISC CUTTER FOR SMALL DIAMETER

NEW



規格 Spec.	d1	d	d3	b1	L	l1	l2	刃數 Flutes	刀片 Insert
SDC-04-5025-150	50	25	23	4	150	11	134	4	SNFX1102
SDC-05-5025-150	50	25	23	5	150	10	134	4	SNFX1103
SDC-04-6332-150	63	32	35	4	170	17	148	4	SNFX1102

配件表 Accessories

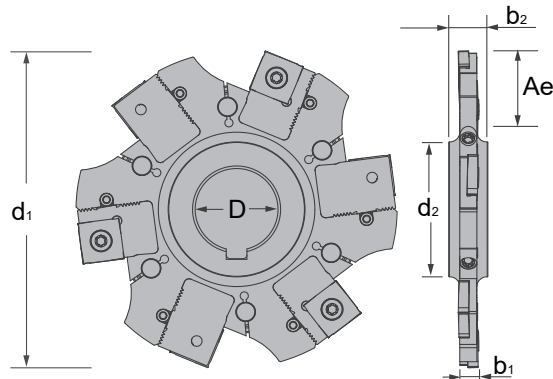
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SN..1102	M3-3.5-5.0-90	T7	0.9

• 長度單位 Unit of Length (mm)

專利號 PAT.NO M574526(TW)

專利號 PAT.NO ZL 2018 2 1953076.6(CN)

KOVIT

NEW


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

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

範例 Example



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



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



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

配件表 Accessories

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

• 長度單位 Unit of Length (mm)

ISO 分類	P	合金鋼 Alloyed Steels	○	○													切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting		
	M	不鏽鋼 Stainless Steels	○	○															
	K	鑄鐵 Cast Iron	○	○															
N	鋁及鋁合金 Aluminum&Al									■									
S	高溫合金 Refractory Alloys																		
H	高硬度材 Hard Material		○																
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain					超微粒硬質合金 Micro grain cemented carbide					尺寸 (mm) Size				圖形 Drawing			
		CHF					HF					d	i	s	r				
		OM4010	OM4025								OM5005								
	SNFX1102	●	●								●				11	-	2.3	-	
	SNFX1103	●	●								●				11	-	2.7	-	
	SNFX1203	●	●								●				12.7	-	3.2	-	
	SNFX1205	●	●								●				12.7	-	5.4	-	
	SNFX1207	●	●								●				12.7	-	7	-	
	NEW SNFX120305	●	●								●				12.7	-	3.2	0.5	
	NEW SNFX120310	●	●								●				12.7	-	3.2	1	
	NEW SNFX120315	●	●								●				12.7	-	3.2	1.5	
	NEW SNFX120505	●	●								●								
	NEW SNFX120510	●	●								●				12.7	-	5.4	1	
	NEW SNFX120515	●	●								●				12.7	-	5.4	1.5	
	NEW SNFX120516	●	●								●				12.7	-	5.4	1.6	
	NEW SNFX120705	●	●								●				12.7	-	7	0.5	
	NEW SNFX120710	●	●								●				12.7	-	7	1	
	NEW SNFX120715	●	●								●				12.7	-	7	1.5	

NEW 新品 New Product

有效屑片厚度計算公式
Formula of average chip thickness

$$f_z = \sqrt{\frac{D}{A_p}} \times f \quad 0.11 = \sqrt{\frac{D}{A_p}} \times f \quad 0.31 = f$$

D= 有效外徑 Effective outer diameter
f= 每刃進給量 Feed per flutes
A_p= 切深 Depth
h_m= 有效屑片厚度 Effective chip thickness

SN_11.12 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials	刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 (mm)
P 合金鋼 Alloyed Steels	OM4010	90~250	0.08(0.06~0.12)
	OM4025	90~230	0.08(0.06~0.12)
M 不鏽鋼 Stainless Steels	OM4010	55~110	0.06(0.06~0.12)
	OM4025	55~100	0.06(0.06~0.12)
K 鑄鐵 Cast Iron	OM4025	110~275	0.08(0.06~0.12)
N 鋁合金 Aluminum&Al	OM5005	500~700	0.15(0.15~0.17)

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

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

● 長度單位 Unit of Length (mm)



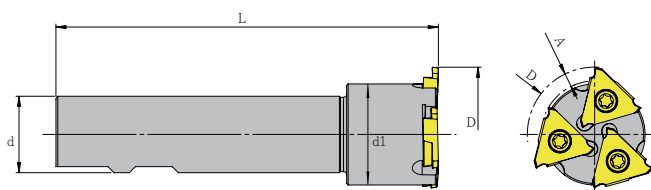
TGC 捨棄式槽銑刀 TGC INDEXABLE GROOVE MILLING CUTTER



NEW



範例 Example



特點 Feature

- 適用於槽型銑削
- 多切削刃，有效提升效率
- 適用加工 O 型環槽

- Used for groove milling applications.
- Multiple cutting edges for efficient machining.
- Suitable for processing O-ring grooves.

規格 Spec.	D	A	L	d	d ₁	刀片 Insert	重量 (KGS) Weight
TGC-4020-125	40	2	125	20	30	TGAR	0.43
TGC-4420-125	44	3	125	20	34	4125-4400	0.5

配件表 Accessories

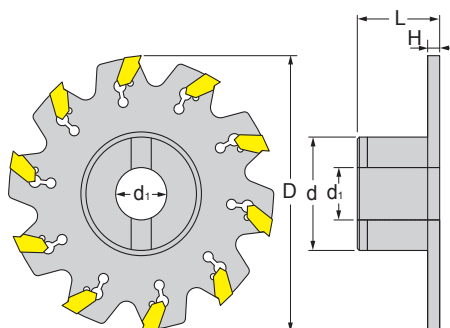
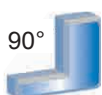
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 Torque
TGAR 4125-4400	M5-11-7.0-55	T20	6.5



TDC 捨棄式側銑刀 TDC INDEXABLE SIDE DISC CUTTER



NEW



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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

規格 Spec.	L	D	d	d ₁	H	切深 Ae	刃數 Flutes	刀片 Insert	扳手 Wrench	重量 (KGS) Weight		
TDC-75×03B22	40	75	50	22	3	12.5	8	TGTN3	DW-70	0.60		
TDC-75×04B22					4			TGTN4		0.51		
TDC-100×03B22	50	100			3	25	10	TGTN3		0.79		
TDC-100×04B22					4			TGTN4		0.81		
TDC-125×03B22					125	125	3	37.5		12	TGTN3	1.20
TDC-125×04B22							4				TGTN4	2.03

• 長度單位 Unit of Length (mm)



形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain				超微粒硬質合金 Micro grain cemented carbide				尺寸 (mm) Size						圖形 Drawing
		CHF			HF	Size										
		OM4010	OM4025	RM4025	OM5005	W	L	d	i	s	r					
	TGAR4125	●	●							1.25	1.2	12.70	17.59	4.76	0.20	
	TGAR4150	●	●							1.50	3	12.70	17.59	4.76	0.20	
	TGAR4175	●	●							1.75	3	12.70	17.59	4.76	0.20	
	TGAR4200	●	●							2.00	3	12.70	17.59	4.76	0.20	
	TGAR4235	●	●							2.35	3	12.70	17.59	4.76	0.20	
	TGAR4250	●	●							2.50	4.5	12.70	17.59	4.76	0.30	
	TGAR4300	●	●							3.00	4.5	12.70	17.59	4.76	0.30	
	TGAR4350	●	●							3.50	4.5	12.70	17.59	4.76	0.30	
	TGAR4400	●	●							4.00	4.5	12.70	17.59	4.76	0.40	
	TGTN3	●	●	●	●					-		11.3	3.1	0.2		
	TGTN4	●	●		●					-		11.3	4.1	0.25		

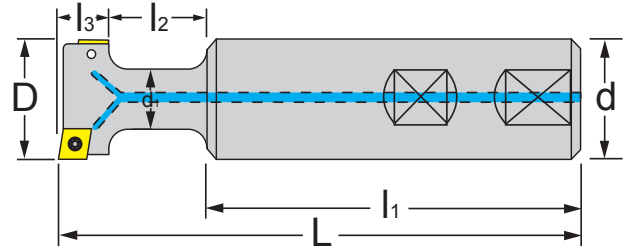
TG_41.42.43.44 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials	切削速度 Vc(m/min)	切槽每刃進給 (mm)			
		W=0.5~1.2	W=1.25~2.25	W=2.3~3.25	W=4~4.5
P 合金鋼 Alloyed Steels	80~160	0.03~0.08	0.04~0.09	0.05~0.1	0.05~0.12
M 不鏽鋼 Stainless Steels	60~130	0.03~0.07	0.04~0.08	0.05~0.09	0.05~0.1
K 鑄鐵 Cast Iron	80~300	0.03~0.08	0.04~0.09	0.05~0.1	0.05~0.12
H 高硬度材 Hard Material	80~120	-	0.02~0.05	0.03~0.07	-

TGTN_3.4 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials	刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 (mm)
P 合金鋼 Alloyed Steel	OM4010	90~250	0.08(0.06~0.12)
	OM4025	90~230	0.08(0.06~0.12)
M 不鏽鋼 Stainless Steels	OM4010	55~110	0.06(0.06~0.12)
	OM4025	55~100	0.06(0.06~0.12)
K 鑄鐵 Cast Iron	OM4025	110~275	0.08(0.06~0.12)
N 鋁合金 Aluminum&Al	OM5005	500~700	0.15(0.15~0.17)

• 長度單位 Unit of Length (mm)



特點 Feature

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

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

規格 Spec.	L	l ₁	l ₂	l ₃	D	d	d ₁	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
ATS-25-11	112	80	21	11	25	25	12.5	2	CC..0602	0.35
ATS-32-14	120	77	30	14	32	32	16	4	CC..0803	0.55
ATS-40-18	130	80	32	18	40	32	20	4	CC..09T3	0.67
ATS-50-22	140	80	39	22	50	32	26	4	CC..1204	0.77

配件表 Accessories


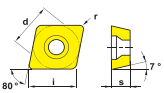
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
CC..0602	M2.5-6.0-3.5-60	T8	1.2
CC..0803	M3-8.0-4.0-43	T9	1.4
CC..09T3	M4-10-5.7-60	T15	3.0
CC..1204	M5-11-7.5-60	T20	5.0

JIS B 0952-1987
JIS B 0953-1987

公稱尺寸 Nominal Size	A				B		C		H		參考		JIS B 0953	
	基準尺寸 Basic Size	容許差 Tolerance				基準尺寸 Basic Size	容許差 Tolerance	基準尺寸 Basic Size	容許差 Tolerance	最大值 Max	最小值 Min	n 最大 Max	f 最大 Max	槽間隔 p
		1 級 H8	2 級 H12	3 級 H14	4 級									
5	5	+0.018	+0.12	-	-	10	+1 0	3	+0.5 0	10	8	1	0.6	20、25、32
6	6	0	0	-	-	11	+1.5 0	5	+1 0	13	11			25、32、40
8	8	+0.022	+0.15	-	-	14.5	+2 0	7		18	15			32、40、50
10	10	0	0	-	-	16		8		21	17			40、50、63
12	12	+0.027 0	+0.18 0	+0.43 0	+2.7 0	19	+3 0	16	+2 0	25	20	1.6	1	50、63、80
14	14					23				28	23			63、80、100
18	18	30	36	30	80、100、125									
22	22	+0.033	+0.21	+0.52	+3.3	37	+4 0	20	+2 0	45	38			2
28	28	0	0	0	0	46				56	48	125、160、200		
36	36	+0.039 0	+0.25 0	+0.62 0	+0.39 0	56	32	+3 0	71	61	160、200、250			
42	42					68				85	74	200、250、320		
48	48	+0.046 0	+0.30 0	+0.74 0	0	80	+5 0	36	+4 0	95	84	2	2	250、320、400
54	54					90				106	94			320、400、500

•長度單位 Unit of Length (mm)

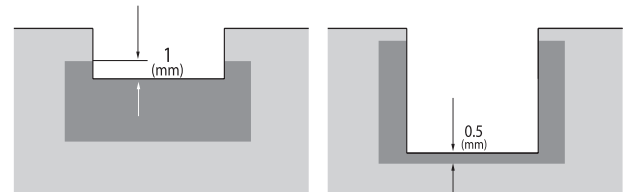


形狀 Shape	規格 Spec.	鍍層硬質合金 Carbide alloy								尺寸 (mm) Size				圖形 Drawing
		CVD								Size				
		RM4035								d	i	s	r	
	★ NEW CCMT060202N-F01	●								6.35	6.4	2.38	0.2	
	★ NEW CCMT060204N-F01	●								6.35	6.4	2.38	0.4	
	★ NEW CCMT09T304N-F01	●								9.525	9.7	3.97	0.4	
	★ NEW CCMT09T308N-F01	●		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

★ 推薦 Recommended NEW 新品 New Product

※ 注意事項 Cautions:

- 溝槽加工須注意排屑問題，必要時須以噴霧裝置排出切屑
Removing the metal chips by mist cooler if necessary.
- 本 T 型刀附出水孔易於排屑。
With coolant hole, benefit for chip release.
- 本 T 型設計為粗切削，如須要求尺寸精度，須另行精修。
Designed for roughing. Additional fine cutting is required if necessary.
- 特殊規格可接受訂製。
Customized products are available.



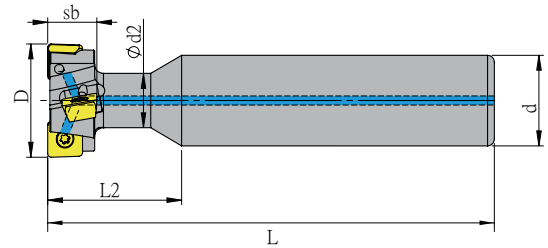
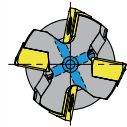
CC_06.08.09.12 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)
P 合金鋼 Alloyed Steel	180~220	0.08~0.12

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

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

• 長度單位 Unit of Length (mm)



特點 Feature

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



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

規格 Spec.	D	sb	d2	L2	L	d	t	刀片 Insert
BTS-1916-SP05-08	19	8	9.5	25	120	16	4	SP.0502
BTS-2116-SP06-09	21	9	11	27	120	16	4	SP.0602
BTS-2520-SP07-11	25	11	12	30	120	20	4	SP.07T3
BTS-3225-SP07-11	32	11	23	30	150	25	4	SP.07T3
BTS-3225-SP09-14	32	14	17	39	150	25	4	SP.0904
BTS-3525-SP09-14	35	14	20	39	150	25	4	SP.0904
BTS-4025-SP11-18	40	18	21	49	150	25	4	SP.1104
BTS-5032-SP14-22	50	22	27	61	150	32	4	SP.1405
BTS-5525-SP07-11	55	11	20	40	180	25	6	SP.07T3
BTS-6025-SP09-15	60	15	25	40	180	25	6	SP.0904
BTS-6032-SP14-15	60	25	32	55	180	32	4	SP.1405

配件表 Accessories

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

•長度單位 Unit of Length (mm)



ISO 分類	P	合金鋼 Alloyed Steels	○		○											切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	M	不鏽鋼 Stainless Steels	○		○											
	K	鑄鐵 Cast Iron			○											
N	鋁及鋁合金 Aluminum&Al							■	■							
S	高溫合金 Refractory Alloys															
H	高硬度材 Hard Material															
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain					超微粒硬質合金 Micro grain cemented carbide					尺寸 (mm)				圖形 Drawing
		CHF					HF					Size				
		RM4025	RM3130	RM4030			RM5005	RM5060					d	i	s	
	SPGT050204-M02			●				●				5	-	2.38	0.4	
	SPGT060204-M02			●				●				6	-	2.38	0.4	
	SPGT07T308-M02			●				●				7.94	-	3.97	0.8	
	SPGT090408-M02			●				●				9.8	-	4.3	0.8	
	SPGT110408-M02			●				●				11.5	-	4.76	0.8	
	SPGT140512-M02			●				●				14.3	-	5.2	1.2	
	★ SPMT050204-M03	●	●									5	-	2.38	0.4	
	★ SPMT060204-M03	●	●									6	-	2.38	0.4	
	★ SPMT07T308-M03	●	●									7.94	-	3.97	0.8	
	★ SPMT090408-M03	●	●									9.8	-	4.3	0.8	
	★ SPMT110408-M03	●	●									11.5	-	4.76	0.8	
	★ SPMT140512-M03	●	●									14.3	-	5.2	1.2	
	★ SPMT050204-MT							●	●			5	-	2.38	0.4	
	★ SPMT060204-MT							●	●			6	-	2.38	0.4	
	★ SPMT07T308-MT							●	●			7.94	-	3.97	0.8	
	★ SPMT090408-MT							●	●			9.8	-	4.3	0.8	
	★ SPMT110408-MT							●	●			11.5	-	4.76	0.8	
	★ SPMT140512-MT							●	●			14.3	-	5.2	1.2	

★ 推薦 Recommended

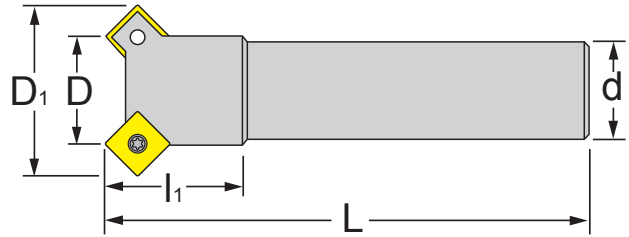
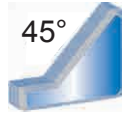
SP_05.06.07.09.11.14 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)
P 合金鋼 Alloyed Steel	130~200	0.08~0.12
K 鑄鐵 Cast Iron	110~230	0.07~0.01
N 鋁及鋁合金 Aluminum&Al	180~600	0.12~0.15

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

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

● 長度單位 Unit of Length (mm)



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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

規格 Spec.	L	l ₁	D	D ₁	d	角度 Angle	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
C20-SPK25-150L	150	38	25	37.6	20	45°	2	SP.0903	0.43
C20-SPK30-150L	150	38	30	42	20	45°	2	SP.0903	0.45

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SP.0903	M4-10-5.7-60	T15	3.0

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

切削狀態 Cutting Condition :

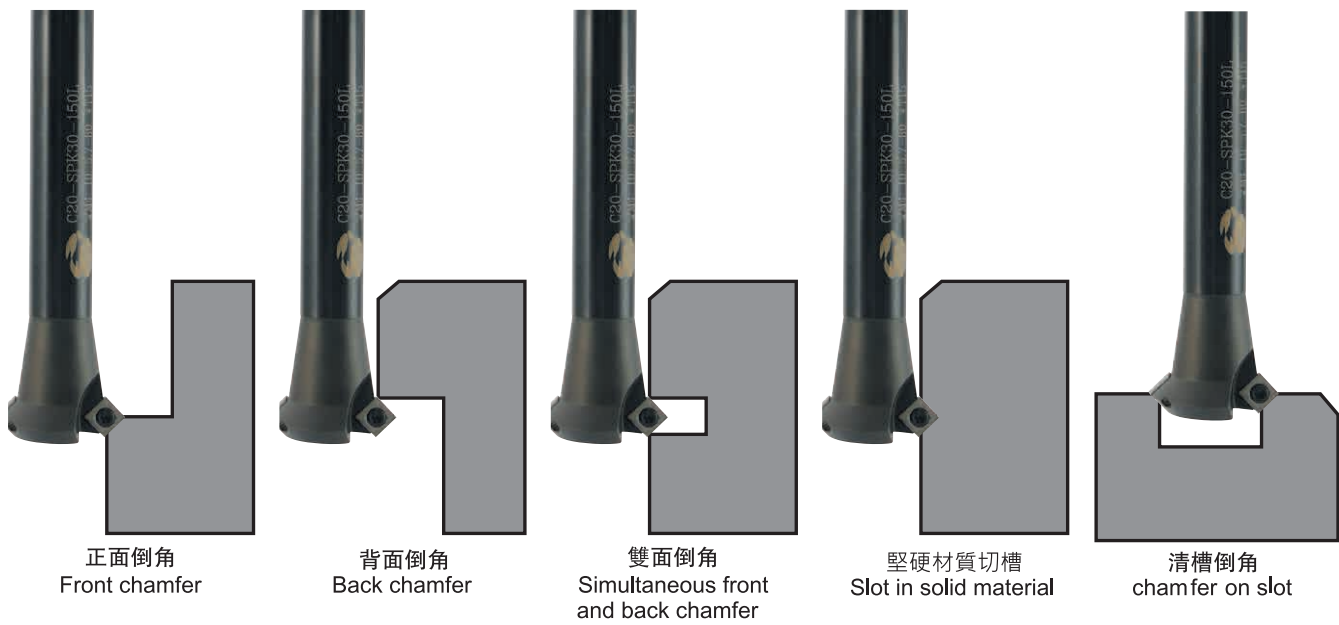
- 連續切削 Continuous Cutting
- 一般切削 General Cutting
- 斷續切削 Interrupted Cutting

形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain								尺寸 (mm) Size				圖形 Drawing			
		CHF								Size							
		OM4010	OM4025	RM4025						d	i	s	r				
	SPMT090308-M01			●									9.8	-	3.18	0.8	
	SPMW090304	●	●										9.525	-	3.18	0.4	

•長度單位 Unit of Length (mm)

倒角刀具 Chamfering Cutter: SPK

刀具柄徑 Diameter : Ø25.Ø30



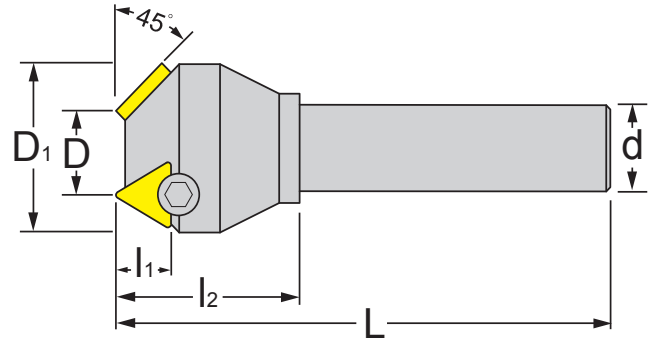
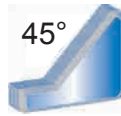
SP_09 切削條件數據表 Cutting Parameter

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

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

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

• 長度單位 Unit of Length (mm)



規格 Spec.	L	l ₁	l ₂	D	D ₁	d	刃數 Flutes	角度 Angle	刀片 Insert	重量 (KGS) Weight
45°-SSE-32	115	10	40	12.2	32	20	2	45°	TP..1603	0.36
45°-SSE-50	125	15	50	22.9	50	32	3	45°	TP..2204	0.88
45°-SSE-63	145	15	50	36.5	63	32	3	45°	TP..2204	1.32

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
TP..1603	M6-0.75P	P4	5.0
TP..2204	M8-1.0P	P5	6.0

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

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

•長度單位 Unit of Length (mm)

SSP倒角刀

- 可作倒角，V槽切削，45°定位倒角刀亦可作刻字及當定位鑽使用
- 刀具及刀片特殊設計，於定位鑽及V槽切削時刀片可避免干涉
- 使用一般銑床、CNC銑床、CNC車床
- Chamfering, v-grooving, the 45° spot drill can be used for carving and spot-drilling.
- Clearance angle negates interference between the insert/cutting tool and the workpiece during v-grooving and spot-drilling.
- Could be applied on milling machine, CNC milling machine and CNC lathe.

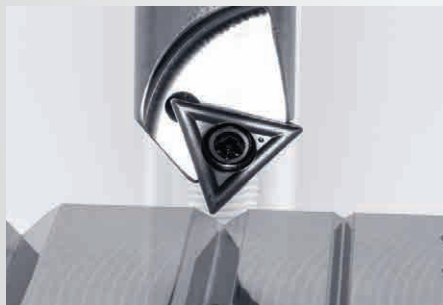


Feature

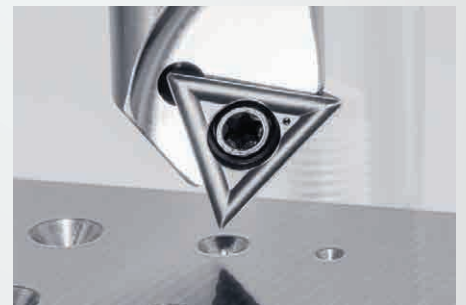
5 in 1



內孔倒角
Inner hole chamfering



V槽切削
V-grooving



定位鑽
Spotting



刻字
Carving

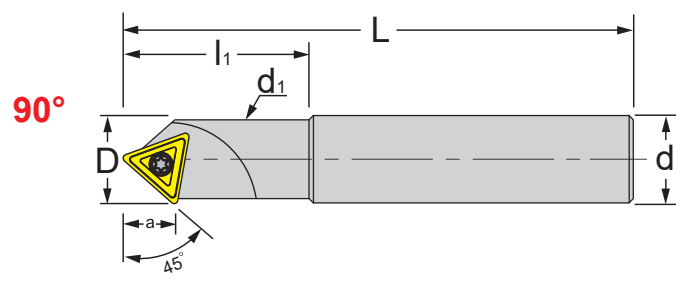


倒角
Chamfering

Chamfer Cutter



KOVIT



<p>功能 Function</p> <p>倒角 chamfering 中心鑽 center drilling V 槽 v-grooving</p>	<p>倒角角度 Chamfering Degree</p>	<p>內孔倒角範圍 Inner Chamfering Range</p> <table border="1"> <tr><td>D</td><td>TC..1003</td><td>13.4</td></tr> <tr><td>d</td><td>TC..13T3</td><td>19.2</td></tr> <tr><td>d</td><td>TC..16T3</td><td>22.5</td></tr> </table>	D	TC..1003	13.4	d	TC..13T3	19.2	d	TC..16T3	22.5	<p>外倒角距離 Outer Chamfering Range</p> <table border="1"> <tr><td>Z Max.</td><td>TC..1003</td><td>Max. 6.3mm</td></tr> <tr><td>Z Max.</td><td>TC..13T3</td><td>Max. 9.7mm</td></tr> <tr><td>Z Max.</td><td>TC..16T3</td><td>Max. 11.3mm</td></tr> </table>	Z Max.	TC..1003	Max. 6.3mm	Z Max.	TC..13T3	Max. 9.7mm	Z Max.	TC..16T3	Max. 11.3mm
D	TC..1003	13.4																			
d	TC..13T3	19.2																			
d	TC..16T3	22.5																			
Z Max.	TC..1003	Max. 6.3mm																			
Z Max.	TC..13T3	Max. 9.7mm																			
Z Max.	TC..16T3	Max. 11.3mm																			

規格 Spec.	L	l ₁	D	d	d ₁	a	功能 Function	刀片 Insert	重量 (KGS) Weight
SSP-1212-105L	105	26	13.4	12	11.8	6.05	倒角 / 定位 (04R 角) Chamfering/Spotting	TC..1003	0.12
SSP-1616-110L	110	30	19.2	16	14	9.7	倒角 / 定位 (04R 角) Chamfering/Spotting	TC..13T3	0.18
SSP-2012-100L	100	35	22.5	12	19	11.3	倒角 / 定位 (04R 角) Chamfering/Spotting	TC..16T3	0.16
SSP-2020-130L	130	50	22.5	20	19	11.3	倒角 / 定位 (04R 角) Chamfering/Spotting	TC..16T3	0.31

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
TC..1003	M2.5-5.0-3.7-43	T8	1.2
TC..13T3	M3.5-8.0-5.0-60	T15	3.0
TC..16T3	M4-10-5.0-43	T15	3.0

※ 定位鑽使用注意事項 Cautions of spot drilling:

- 銑床加工：刀具偏擺精度不能過大 (0.02mm 以內) Milling: runout must be within 0.02mm.
- 車床加工：刀片須與刀塔上下進給平行 Turning: Insert must be parallel to turret when vertical feeding.

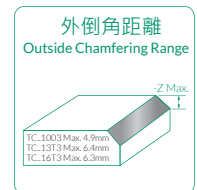
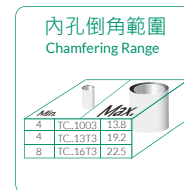
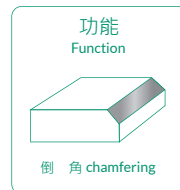
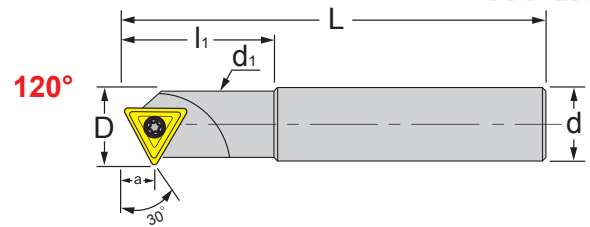


• 長度單位 Unit of Length (mm)



SSP 30° 倒角刀

SSP 30°INDEXABLE CHAMFER MILLING CUTTER

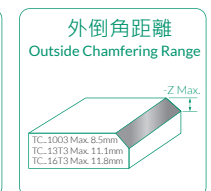
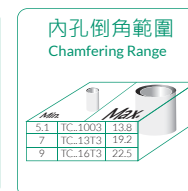
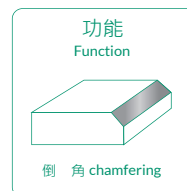
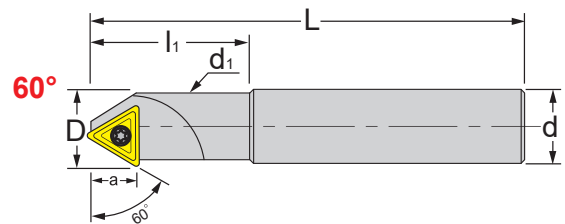


規格 Spec.	L	l ₁	D	d	d ₁	a	功能 Function	刀片 Insert	重量 (KGS) Weight
SSP-1212-105L-TC10-30	105	26	13.8	12	11.8	4.6	倒角 Chamfering	TC..1003	0.12
SSP-1616-110L-TC13-30	110	30	19.2	16	14	6.5	倒角 Chamfering	TC..13T3	0.18
SSP-2020-130L-TC16-30	130	50	22.5	20	19	7.6	倒角 Chamfering	TC..16T3	0.32



SSP 60° 倒角刀

SSP 60°INDEXABLE CHAMFER MILLING CUTTER



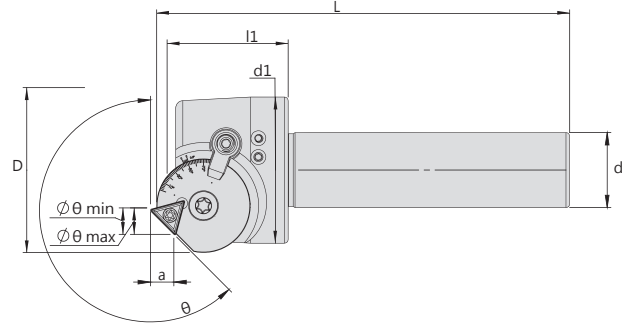
規格 Spec.	L	l ₁	D	d	d ₁	a	功能 Function	刀片 Insert	重量 (KGS) Weight
SSP-1212-105L-TC10-60	105	26	13.8	12	11.8	8.5	倒角 Chamfering	TC..1003	0.12
SSP-1616-110L-TC13-60	110	30	19.2	16	14	11.16	倒角 Chamfering	TC..13T3	0.18
SSP-2020-130L-TC16-60	130	50	22.5	20	19	11.83	倒角 Chamfering	TC..16T3	0.32

配件表 Accessories

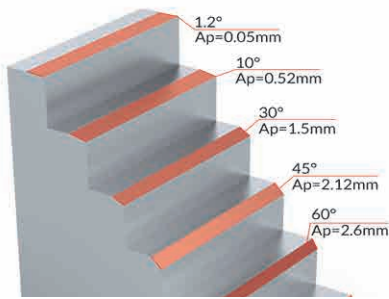
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
TC..1003	M2.5-5.0-3.7-43	T8	1.2
TC..13T3	M3.5-8.0-5.0-60	T15	3.0
TC..16T3	M4-10-5.0-43	T15	3.0



•長度單位 Unit of Length (mm)



範例 Example



- * 刀桿 Tool holder : BT40-LHC20-58
- * 刀具 Cutter Tool : AAC-4020-110L-TC10
- * 刀片 Insert : TCEX100304E-AR OM4025(1pcs)
- * 工件材質 Material : S50C
- * (V):100m/min
- * (S) : 1600rpm
- * (f) : 150mm/rev
- * (F) : 0.06mm/min
- * (Ap) : 3mm
- * (Ae) : 2.12mm

規格 Spec.	L	l1	D	d	d1	a	θ	刀片座 Insert Seat	刀片 Insert	重量 (KGS) Weight
AAC-4020-110L-TC10	105	30	41	20	39	0.005~9.29	0.1°~89.9°	AAC-TC10	TC..1003	0.36

配件表 Accessories

壓塊 Clamp	壓塊螺絲 Clamp Screw	扳手 Wrench	扭力值 Torque	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 Torque
MC515	MS520	PL2.5	5.0	TC..1003	M2.5-5.0-3.7-43	T8	1.2

圖示 Fig.					
名稱 Name	壓塊螺絲 Clamp Screw	壓塊 Clamp	微調渦桿 Adjustable Screw	固定螺絲 Fixed Screw	止付螺絲 Screw
規格 Spec.	MS520	MC515	AAC-M5-28L	AAC-M6-5L	M3-5L
功能 Function	固定刀片座 Fix The Insert Seat	固定刀片座 Fix The Insert Seat	調整刀片座 Adjust The Insert Seat	鎖固渦桿 Lock The Worm Gear	固定微調渦桿 Fix The Adjustable Worm Gear

圖示 Fig.					
名稱 Name	圓柱梢 Cylindrical pin	螺絲 Screw	螺絲 Screw	扳手 Wrench	扳手 Wrench
規格 Spec.	AAC-2.5-4.5L	M5-12.5-7.5(BR8)	M2.5-5.0-3.7-43	T8、T10、T20	PL2.5
功能 Function	固定微調渦桿 Fix The Adjustable Screw	固定刀片座 Fix The Insert Seat	固定刀片 Fix The Insert	鎖固刀片 & 刀片座 Lock The Insert & Insert Seat	調整尺寸精度 Adjust The Size Accuracy

•長度單位 Unit of Length (mm)

AAC 可調式倒角刀 (套裝一支組)

AAC ADJUSTABLE ANGLE CHAMFERING CUTTER SET (1PC/SET)



KOVIT




範例 Example



規格 Spec.	內容物 Contents							重量 (KGS) Weight
	刀具 Tools	刀片座 Insert seat	刀片 Insert	螺絲 Screw	扳手 Wrench	數位角度規 Digital Protractor	數量 Qty	
AAC-4020-110L-TC10-SET	AAC-4020-110L	AAC-TC10	TCEX100304E-AR OM4025(1pcs)	1. MS520 壓塊螺絲 *1pcs (clamp screw) 2. AAC-M6-5L 固定螺絲 *1pcs (fixed screw) 3. AAC-M5-28L 微調渦桿 *1pcs (adjustable worm gear) 4. M5-12.5-7.5(BR8) 螺絲 *1pcs (screw) 5. M2.5-5.0-3.7-43 刀片螺絲 *1pcs (insert screw) 6. M3-5L 止付螺絲 *2pcs (set screw) 7. AAC-2.5-4.5L 圓柱梢 *2pcs (Cylindrical pin) 8. MC515 壓塊 *1pcs (clamp)	T8 T10 T20 PL2.5	LM-DP60	1	-

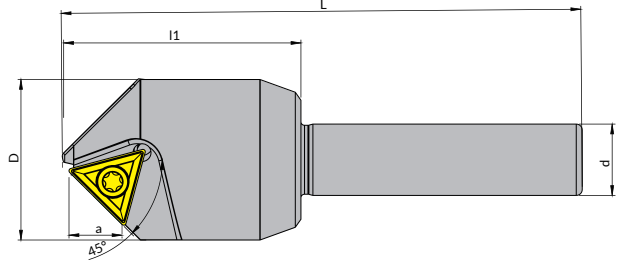
•長度單位 Unit of Length (mm)



內孔倒角範圍 Chamfer Range $\varnothing 4.5 - \varnothing 21$

KOVIT

NEW



特點 Feature

- 適用機台：鑽床、CNC 銑床、旋臂鑽床、傳統銑床、電（氣）動工具
- 萬用夾持柄徑 $\varnothing 12$
- 刀片可提供出色的倒角表面
- Suitable Machines: Drilling Machine, CNC Milling Machine, Conventional Milling Machine, and Electric/Pneumatic Tool
- Shank diameter $\varnothing 12$.
- Excellent chamfering surface.

規格 Spec.	L	l1	D	d	d1	a	內孔倒角範圍 Inner Chamfer Range	功能 Features	刀片 Insert	重量 (KGS) Weight
MDC-2212-85L-TC13	85	38	22	12	27	8	$\varnothing 4.5 - \varnothing 21$	倒角 Chamfering	TC..13T3..-CR	0.36

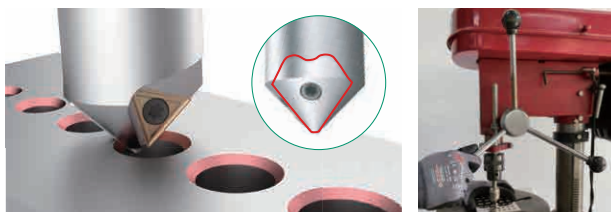
規格 Spec.	內容物 Contents			
	刀具 Tool	刀片 Insert	螺絲 Screw	扳手 Wrench
MDC-2212-85L-TC13-SET	MDC-2212-85L-TC13	TC..13T3..-CR RM535(2pcs)	M3.5-6.2-5.0-60 M4-8.0-5.0-43	T15

配件表 Accessories

圖示 Fig.					
名稱 Name	刀片 Insert	支撐導塊 Support Guide Pad	螺絲 Screw	螺絲 Screw	扳手 Wrench
規格 Spec.	TC..13T3..-CR	MDC-SGP	M3.5-6.2-5.0-60	M4-8.0-5.0-43	T15
功能 Function	切削 Cutting	引導加工 Guide The Cutter	鎖固刀片 Lock Insret	鎖固支撐導塊 Lock Support Guide Pad	鎖固螺絲 Fasten Screws

下孔徑 Hole Diameter Size	轉速 n(rpm)			
	鋼 Steel	不鏽鋼 Stainless Steel	鑄鐵 Cast Iron	鋁合金 Aluminum Alloy
$\varnothing 4.5$	600	550	850	1150
$\varnothing 12$	450	350	550	750
$\varnothing 16$	350	250	450	550
$\varnothing 18$	250	250	450	450

範例 Example



- 支撐導塊消除了顫動，易於操作
- Support guide pad eliminates chatter, enables easy operation.

• 長度單位 Unit of Length (mm)

ISO 分類	P	合金鋼 Alloyed Steels	○	○																	切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	M	不鏽鋼 Stainless Steels	○	○	○																
	K	鑄鐵 Cast Iron	○	○																	
	N	鋁及鋁合金 Aluminum&Al							■	■											
S	高溫合金 Refractory Alloys			○																	
H	高硬度材 Hard Material	○																			
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain					超微粒硬質合金 Micro grain cemented carbide					尺寸 (mm) Size				圖形 Drawing					
		CHF					HF														
		OM4010	OM4025	RM535			OM5005	OM5060				d	i	s	r						
	TCEX100302E-FR	●	●				●	●				5.8	10	3.18	0.2						
	★ TCEX100304E-FR	●	●				●	●				5.8	10	3.18	0.4						
	TCEX100302E-AR	●	●									5.8	10	3.18	0.2						
	TCEX100304E-AR	●	●									5.8	10	3.18	0.4						
	NEW TCEX100304E-MR			●								5.8	10	3.18	0.4						
	TCEX13T302E-FR	●	●				●	●				7.94	13.4	3.97	0.2						
	★ TCEX13T304E-FR	●	●				●	●				7.94	13.4	3.97	0.4						
	TCEX13T302E-AR	●	●									7.94	13.4	3.97	0.2						
	TCEX13T304E-AR	●	●									7.94	13.4	3.97	0.4						
	NEW TCEX13T304E-MR			●								7.94	13.4	3.97	0.4						
	NEW TCEX13T304E-CR			●								7.94	13.4	3.97	0.4						
	TCEX16T304E-FR	●	●				●	●				9.52	16.5	3.97	0.4						
	★ TCEX16T308E-FR	●	●				●	●				9.52	16.5	3.97	0.8						
	TCMX16T304E-AR	●	●									9.52	16.5	3.97	0.4						
	TCMX16T308E-AR	●	●									9.52	16.5	3.97	0.8						
	NEW TCEX16T308E-MR			●								9.52	16.5	3.97	0.8						

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

★ 推薦 Recommended NEW 新品 New Product

-TC..10/TC..13 · 02R 角刀片為「倒角功能」專用

- TC..10/TC..13 → 02 radius can only use for chamfering.

-TC..16 · 04 刀片為「倒角功能」專用

- TC..16 → 04 radius can only use for chamfering.

- 規格末編碼帶 FR 刀片為銳角刀片 Suffix FR model designates a sharp cutting edge.insert.

•長度單位 Unit of Length (mm)

TC_10.13.16 切削條件數據表 Cutting Parameter

加工型態 Processing Type	被加工材質 Machining Materials	刀片材質 Materials	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切深 Ap(mm)
	P 低合金鋼 Low-Alloy Steels	OM4010	220~290	0.05~0.12	1.0~11.0
		OM4025	220~260	0.03~0.06	0.5~3.0
	M 合金鋼 Alloy Steels	OM4010	80~150	0.05~0.12	1.0~11.0
		OM4025	100~150	0.03~0.06	0.5~3.0
	M 不鏽鋼 Stainless Steels	OM4010	90~200	0.05~0.12	1.0~11.0
		OM4025	90~180	0.01~0.05	0.5~3.0
K 鑄鐵 Cast Iron	OM4025	70~130	0.05~0.12	1.0~11.0	
N 鋁合金 Aluminum&Al	OM5005	400~2000	0.06~0.08	0.5~3.0	

加工型態 Processing Type	被加工材質 Machining Materials	刀片材質 Materials	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切深 Ap(mm)
	P 低合金鋼 Low-Alloy Steels	OM4010	220~290	0.01~0.03	0.05~1.0
		OM4025	220~260	0.01~0.03	0.05~1.0
	M 合金鋼 Alloy Steels	OM4010	80~150	0.01~0.03	0.05~1.0
		OM4025	100~150	0.01~0.03	0.05~1.0
	M 不鏽鋼 Stainless Steels	OM4010	90~200	0.01~0.03	0.05~1.0
		OM4025	90~180	0.01~0.03	0.05~1.0
K 鑄鐵 Cast Iron	OM4025	70~130	0.03~0.06	0.05~2.0	
N 鋁合金 Aluminum&Al	OM5005	400~2000	0.03~0.06	0.05~3.0	

加工型態 Processing Type	被加工材質 Machining Materials	刀片材質 Materials	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切深 Ap(mm)
	P 低合金鋼 Low-Alloy Steels	OM4010	220~290	0.03~0.06	1.3~3.0
		OM4025	220~290	0.03~0.06	0.1~3.0
	M 合金鋼 Alloy Steels	OM4010	100~120	0.03~0.06	0.1~3.0
		OM4025	100~150	0.03~0.06	1.3~3.0
	M 不鏽鋼 Stainless Steels	OM4010	90~160	0.03~0.06	0.1~3.0
		OM4025	140~160	0.03~0.06	0.1~3.0
K 鑄鐵 Cast Iron	OM4025	70~160	0.05~0.08	0.1~5.0	
N 鋁合金 Aluminum&Al	OM5005	400~1200	0.05~0.1	0.1~6.0	

加工型態 Processing Type	被加工材質 Machining Materials	刀片材質 Materials	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切深 Ap(mm)
	P 低合金鋼 Low-Alloy Steels	OM4010	220~290	0.05~0.12	1.0~11.0
		OM4025	220~260	0.05~0.12	0.5~3.0
	M 合金鋼 Alloy Steels	OM4010	100~150	0.03~0.1	1.0~11.0
		OM4025	100~150	0.03~0.1	0.5~3.0
	M 不鏽鋼 Stainless Steels	OM4010	90~180	0.05~0.12	1.0~11.0
		OM4025	140~180	0.03~0.06	0.5~3.0
K 鑄鐵 Cast Iron	OM4025	70~120	0.05~0.12	1.0~11.0	
N 鋁合金 Aluminum&Al	OM5005	400~750	0.05~0.12	0.5~3.0	

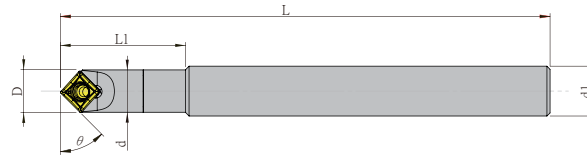
•長度單位 Unit of Length (mm)

MSP 小徑倒角刀

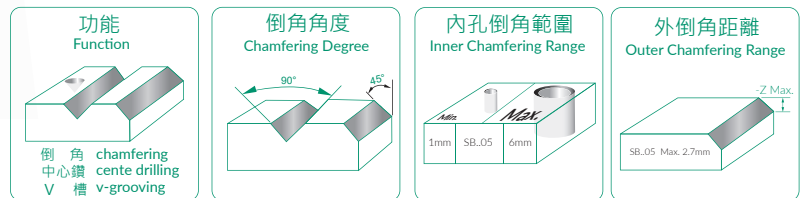
MSP MINI-CHAMFERING END MILL



KOVIT



NEW



特點 Feature

- 尺寸小 · 減少干涉

- The slim design reduces interference while machining.

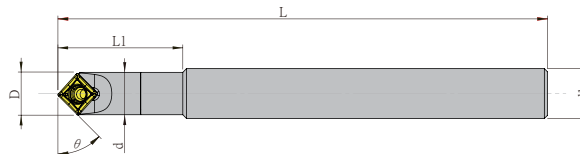
規格 Spec.	D	d1	d	L1	L	θ	刃數 T	刀片 Insert	螺絲 Screw	扳手 Wrench
MSP-0708-80L-SB05	7.2	8	6.8	20	80	45	1	SBG050202	M2-4.3-2.7-60-T6-TIN	T6

CMSP 碳化鎢鋼小徑倒角刀

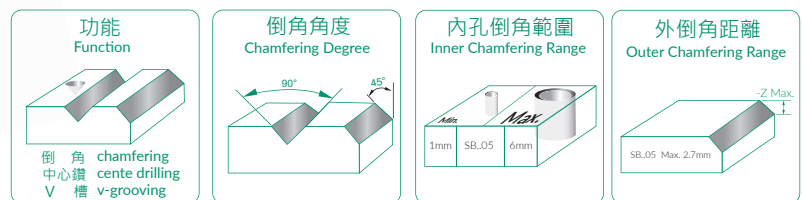
CMSP CARBIDE STEEL MINI-CHAMFERING END MILL



KOVIT



NEW



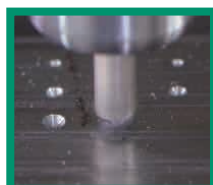
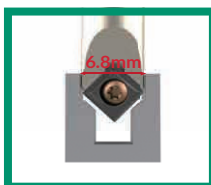
特點 Feature

- 尺寸小 · 減少干涉
 - 使用碳化鎢鋼材質 · 增加剛性

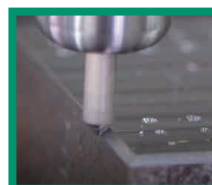
- The slim design reduces interference while machining.
 - Made of tungsten carbide material for higher rigidity.

規格 Spec.	D	d1	d	L1	L	θ	刃數 T	刀片 Insert	螺絲 Screw	扳手 Wrench
CMSP-0708-100L-SB05	7.2	8	6.8	20	100	45	1	SBG050202	M2-4.3-2.7-60-T6-TIN	T6

範例 Example



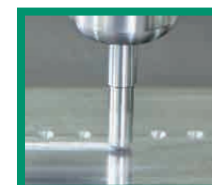
定位鑽
Spot Drilling



倒角
Chamfering



刻字
Caring/Engraving



V槽切削
V-Grooving

• 長度單位 Unit of Length (mm)

ISO 分類	P	合金鋼 Alloyed Steels	○	○											切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting	
	M	不鏽鋼 Stainless Steels		○												
	K	鑄鐵 Cast Iron		○												
	N	鋁及鋁合金 Aluminum&Al							■							
	S	高溫合金 Refractory Alloys														
	H	高硬度材 Hard Material														
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain					超微粒硬質合金 Micro grain cemented carbide				尺寸 (mm)				圖形 Drawing	
			CHF				HF				Size					
			OM4025	OM4125					OM5005					d		i
	NEW SBGT050202-F01		●	●				●				4.85	-	2	2.0	

NEW 新品 New Product

SP_05 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	進給率 (mm/rev) ø13-ø15
P	低合金鋼 Low-Alloy Steels	OM4025	100~150	0.03~0.06
	合金鋼 Alloyed Steels	RM4125	100~150	0.03~0.06
M	不鏽鋼 Stainless Steels	OM4125	90~150	0.01~0.05
K	鑄鐵 Cast Iron	OM4025	70~130	0.05~0.10
		OM4125	70~130	0.05~0.10

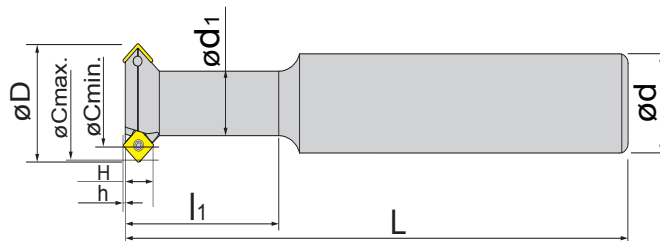
主軸轉速 = (1000 × 切削速度) ÷ (3.14 × 刀具外徑)

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

床檯進給 (mm/min) = 每刃進給 × 刀具刃數 × 主軸轉速

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

• 長度單位 Unit of Length (mm)



特點 Feature

- 多刃數的設計可增加進給率
- 倒角時，較不易起毛邊，並可作上下倒角加工

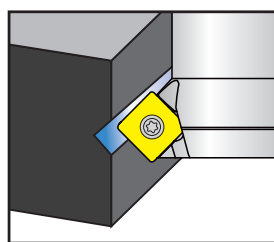
- Multi edges for high feeding speed and extended insert life.
- Free of burrs when chamfering. Available for inner and outer chamfering.

規格 Spec.	L	l ₁	ØD	Ød	Ød ₁	ØC		H	h	角度 Angle	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
						Min.	Max.						
M405SP0545-091512-120-2T	120	20	15.7	12	8	9.9	15.3	6.57	0.12	45°	2	SP.0502	0.14
M405SP0545-131916-150-3T	150	30	19.7	16	12.8	13.6	19.3	6.66	0.12	45°	3	SP.0502	0.26
M405SP0545-172320-150-4T	150	35	23.7	20	13	17.7	23.3	5.98	0.12	45°	4	SP.0502	0.36
M405SP0745-202920-150-3T	150	40	29.9	20	17.2	20.3	29.6	10.4	0.15	45°	3	SP.07T3	0.38
M405SP0745-273625-150-3T	150	40	36.9	25	20	27.5	36.3	10.1	0.2	45°	3	SP.07T3	0.58
M405SP0745-344325-150-4T	150	40	43.9	25	20	34.5	43.5	10.1	0.2	45°	4	SP.07T3	0.60
M405SP0745-415025-150-4T	150	40	50.9	25	20	41.2	50.3	10.4	0.12	45°	4	SP.07T3	0.66

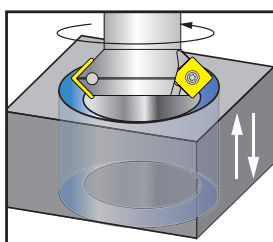
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SP.0502	M2-4.3-2.7-60-T6-TIN	T6	0.6
SP.07T3	M2.5-6.33-3.5-48-T8-TIN	T8	1.2

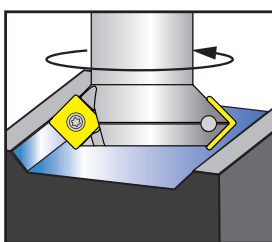
範例 Example



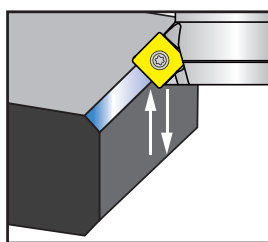
V 槽加工
V-Grooving



上下孔倒角加工
Hole Chamfering



凹槽加工
Pocket Machining



上下外邊倒角加工
Inner Chamfering



• 長度單位 Unit of Length (mm)

ISO 分類	P	合金鋼 Alloyed Steels	○													切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting	
	M	不鏽鋼 Stainless Steels	○														
	K	鑄鐵 Cast Iron	○	○	○												
N	鋁及鋁合金 Aluminum&Al							■	■								
S	高溫合金 Refractory Alloys																
H	高硬度材 Hard Material																
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain	CHF				HF				尺寸 (mm) Size				圖形 Drawing		
			RM4025	RM4125	RM3130	RM4030	RM5060	OM5005	d	i	s	r					
													超微粒硬質合金 Micro grain cemented carbide				
	SPGT050204-M02				●					●			5	-	2.38	0.4	
	SPGT07T308-M02				●					●			7.94	-	3.97	0.8	
	★ SPMT050204-M03	●		●									5	-	2.38	0.4	
	★ SPMT07T308-M03	●		●									7.94	-	3.97	0.8	

★ 推薦 Recommended NEW 新品 New Product

SP_05.07 切削條件數據表 Cutting Parameter

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

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

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

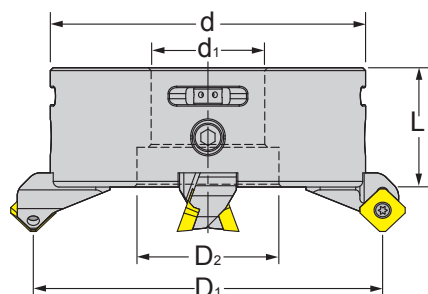
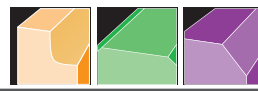
• 長度單位 Unit of Length (mm)



ACM 鋁合金替換式刀頭

ACM ALUMINUM CHANGEABLE MILLING CUTTER

PAT.NO: M373784
ZL 200920267811.2



特點 Feature

- 刀具結合方式採取內包覆式，可降低切削高速迴轉所產生的風阻現象，進而提高切削效率
- 刀具與刀頭定位方式為方型緊配，利於刀具定位
- 利用精密電腦程式計算使其輕量化，減少刀具與刀頭重量
- 刀頭材料採用特殊鋁合金，可提高剛性

- Insert-embedded design reduce wind resistance, improve cutting efficiency.
- Close fit between insert holder and cutter. Insert holder can be well positioned.
- Light weight, reduced weight on insert holder and cutter.
- Made of specific aluminum alloy, enhanced high rigidity.

規格 Spec.	L	D ₁	D ₂	d	d ₁	刃數 Flutes		刀座 Insert Seat	螺絲 Screw	淨量 (KGS) Weight	重量 (KGS) Weight
						標準 Standard	選配 Option				
ACM-80-FMB22-S	42	80	18	66	22	4	-	ACM-SE12	SH-M6-20	0.62	2.60
ACM-80-FMA25.4-S	42	80	20	66	25.4	4	-		SH-M6-20	0.64	2.90
ACM-100-FMB22-S	42	100	18	86	22	4	-	ACM-AP16	SH-M6-25	-	2.86
ACM-100-FMA25.4-S	42	100	20	86	25.4	4	-		SH-M6-25	0.90	2.80
ACM-125-FMB32-S	42	125	42	111	32	4	-	ACM-SE12T3	SH-M6-25	-	3.62
ACM-125-FMA31.75-S	42	125	42	111	31.75	4	-		SH-M6-25	1.16	3.15
ACM-160-FMB40-S	42	160	50	146	40	4	4	ACM-AP16	SH-M6-25	1.74	3.79
ACM-160-FMA38.1-S	42	160	46	146	38.1	4	4		SH-M6-25	1.76	3.60
ACM-200-FS60F-S	45	200	60	186	60	4	4	ACM-AP16	SH-M6-25	2.52	6.62
ACM-200-FMA38.1-S	45	200	48	186	38.1	4	4		SH-M6-25	2.50	7.03
ACM-200-FMA47.625-S	45	200	47.625	186	47.625	4	4	ACM-SE12T3	SH-M6-25	2.56	6.44
ACM-250-FS60F-S	47	250	60	236	60	4	8		SH-M6-25	3.86	8.40
ACM-250-FMA38.1-S	47	250	48	236	38.1	4	8	ACM-SE12T3	SH-M6-25	4.06	8.26
ACM-250-FMA47.625-S	47	250	47.625	236	47.625	4	8		SH-M6-25	4.00	7.92
ACM-315-FS60F-S	47	315	60	301	60	4	12	ACM-SE12T3	SH-M6-25	6.32	10.35
ACM-315-FMA38.1-S	47	315	48	301	38.1	4	12		SH-M6-25	-	10.24
ACM-315-FMA47.625-S	47	315	47.625	301	47.62	4	12	ACM-SE12T3	SH-M6-25	6.32	10.80
ACM-400-FMA47.625	47	400	47.625	386	47.625	4	12		SH-M6-25	10.10	21.76

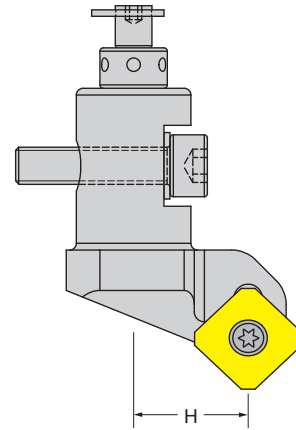
● S- 為雙微調 S: dual micro-adjustment

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SE..1204 SE..12T3 AP..1604 RP..1204	SH-M6-20	P5	6.0
	SH-M6-25	P5	6.0



• 長度單位 Unit of Length (mm)



卡式刀座 Cartridges

規格 Spec.	H	刀片 Insert	重量 (KGS) Weight
ACM-SE12-S	-	SE..1204	0.11
ACM-SE12-A-S	-3	SE..1204	0.11
ACM-SE12-B-S	+3	SE..1204	0.11
ACM-SE12-C-S	-2	SE..1204	0.11
ACM-SE12-D-S	+2	SE..1204	0.11
ACM-SE12-E-S	-1	SE..1204	0.11
ACM-SE12-F-S	+1	SE..1204	0.11
ACM-SE12-L-S(左旋)	-	SE..1204	0.11
ACM-AP16-S	-	AP..1604	0.13
ACM-RP12-S	-	RP..1204	0.13
ACM-SE12T3-S	-	SE..12T3	-

配件表 Accessories

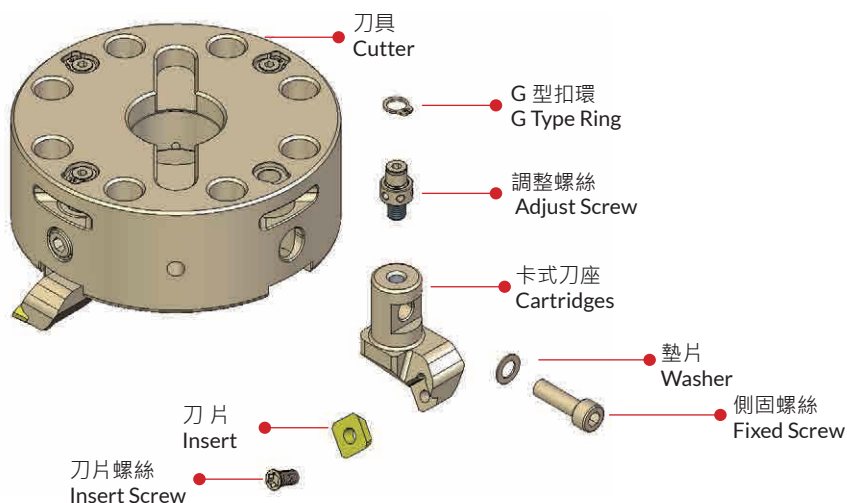
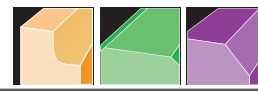
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SE..1204	M5-11-7.0-55	T20	5.0
AP..1604	M4-10-5.7-60	T15	3.0
RP..1204	M4-10-5.0-43	T15	3.0
SE..12T3	M3.5-11.7-5.3-60	T15	3.0

標準配件 Standard package

選配特別附件 Optional

圖示 Fig.								圖示 Fig.	
名稱 Name	調整螺絲 Adjust Screw	側固螺絲 Fixed Screw	G 型扣環 G-Type Ring	墊片 Shim	調整扳手 Adjust Wrench	PL 型扳手 PL-Type Wrench	PL 型扳手 PL-Type Wrench	名稱 Name	彈簧鉗 Spring Pliers
規格 Spec.	AD-M6	M6x20	GTW-6.7	W-0.5	ADW-2	PL3	PL5	規格 Spec.	F-26
功能 Function	調整刀具高度 Adjust cutter height	鎖固卡式刀座 Fix cartridge	固定調整螺絲 Fix adjust screw	迫緊螺絲 Fasten screw	調整卡式刀座 Adjust cartridge	調整卡式刀座 Adjust cartridge	鎖固扳手 Fasten	功能 Function	安裝 G 型扣環 Assemble G Type Ring

•長度單位 Unit of Length (mm)

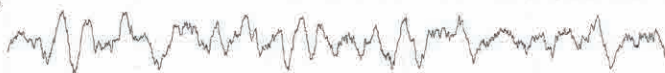


範例 Example

加工型態:	精加工切削
加工機械:	立式 M/C
銼度種類:	BT40
加工材料:	si10~si12% 鋁合金
刀具規格:	ACM125-FMA31.75
刀片材質:	SEET1204AFFN-F01 PMG
線速度:	V=1500m/min
轉速:	S=3800rpm
床檯進給:	F=4000mm/min
每刃進給:	f=0.25rev
切深:	Ap=0.1mm
冷卻方式:	Water

Perthometer M1
Object Name
Lt 1.750 mm
Ls Standard 0.250 mm
Lc 0.164 mm
Rc 0.164 mm
Rmax 0.170 mm
RPa(0.5,-0.5) 0.0 / C
R Profile 0.250 mm
VER 0.500 mm

Rz(Max):0.61um Ra0.10um



調整使用說明 Alignment Operation:

以最高刃為基準，將其餘刃微調高度同最高刃，可使切削加工表面粗糙度符合需求。步驟如下：

To let the roughness of machined surface meet the requirement, make a micro-adjustment for each blade at same height. Each step as follows:



1. 用量錶量測每刃高度，以最高刃為基準，將量錶歸零。Use dial indicator to measure each insert height. Zero the dial indicator at 12 on the basis of the highest insert.



2. 使用 P5 扳手，鬆開其他刃固定螺絲。Use the spanner of P5 to loosen the fixed screw for other insert.



3. 使用調整扳手往 ⊕ 的方向微調高度，若調整刃高高，則使用調整扳手往 ⊖ 的方向微調高度。Use the spanner to make a micro-adjustment at the direction of ⊕. If adjust the insert height over then, please adjust at the direction of ⊖.



4. 待其刃高同最高刃，使用 P5 扳手鎖緊調整螺絲，須再量測一次刃高，查看量錶指針是否指向零，若指針沒有指向零，則重覆上述動作。When all inserts are at the same height, use the spanner of P5 to lock tightly the screws. After that, measure again each insert height. And check if the dial indicator is zero. If no, please repeat above action.

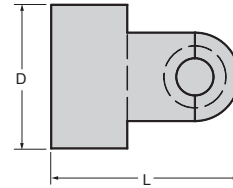


5. 待刃高皆同高時，則調整完畢。Each blade at the same height represents the alignment is ok.



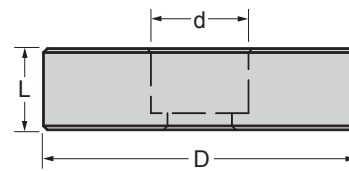
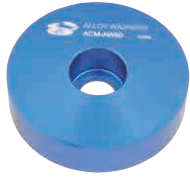
▲ 鋁合金替換式刀頭除了側邊調整外，也可在上面進行調整，若刀具已上主軸，可不用將刀具從主軸拆卸，即可檢測調整。Except for side-alignment, you can also adjust from the top. No need to disassemble the cutter head from the machine spindle, just check the each insert.

• 長度單位 Unit of Length (mm)



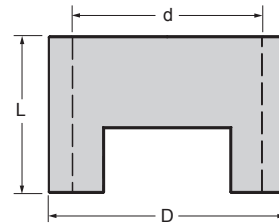
ACM 轉換鍵 Conversion Key

規格 Spec.	L	D	重量 (KGS) Weight
ACM-16.1-25.4	33.35	25.4	0.11



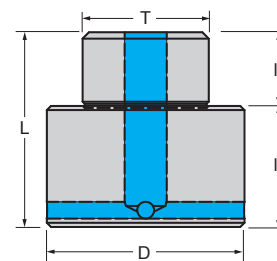
ACM 鋁合金墊圈 Aluminum Washers

規格 Spec.	L	D	d	重量 (KGS) Weight
ACM-AW80	20.5	80	25	0.25



ACM 轉換套 Conversion Kits

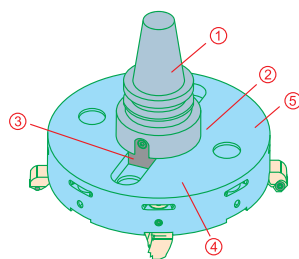
規格 Spec.	L	D	d	重量 (KGS) Weight
ACM-38.1-47.625	31.5	47.625	38.1	0.04



ACM 給水螺帽 Water Screw

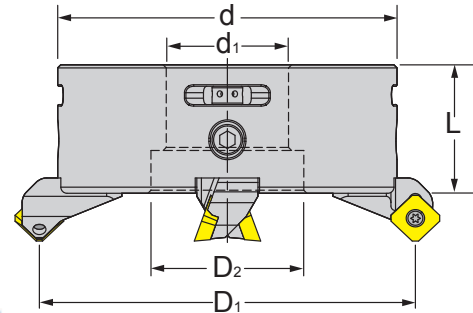
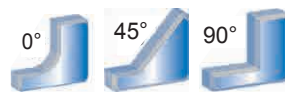
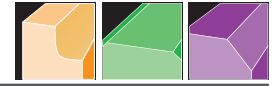
規格 Spec.	L	l ₁	l ₂	D	T	重量 (KGS) Weight
ACM-WS47	46.4	18	29	47	M24×2.0	0.3

ACM 組合圖 Assembly Drawing



NO	零件 Part
1	BT40-FMA38.10-60
2	ACM-38.1-47.625
3	ACM-16.1-25.4
4	ACM-AW80
5	ACM-250-FMA47.625

•長度單位 Unit of Length (mm)



特點 Feature

- 刀具結合方式採取內包覆式，可降低切削高速迴轉所產生的風阻現象，進而提高切削效率
- 刀具與刀頭定位方式為方型緊配，利於刀具定位
- 利用精密電腦程式計算，減少刀具與刀頭重量輕量化
- 刀頭材料採用特殊合金鋼，可提高剛性
- Insert-embedded design, wind resistance can be reduced.
- Close fit between cartridge and cutter. Cartridge can be well positioned.
- Light weight, reduced weight on cartridge and cutter.
- Cutters are made of specific alloy steel, high rigidity.

規格 Spec.	L	D ₁	D ₂	d	d ₁	刃數 Flutes		刀座 Insert Seat	螺絲 Screw	淨量 (KGS) Weight	重量 (KGS) Weight
						標準 Standard	選配 Option				
SCM-80-FMB22-S	42	80	18	66	22	4	-	ACM-SE12 ACM-AP16 ACM-RP12	SH-M6-20	1.06	2.96
SCM-80-FMA25.4-S	42	80	20	66	25.4	4	-		SH-M6-20	1.02	3.00
SCM-100-FMB22-S	42	100	18	86	22	4	-		SH-M6-25	1.76	3.72
SCM-100-FMA25.4-S	42	100	20	86	25.4	4	-		SH-M6-25	1.74	4.15
SCM-125-FMB32-S	42	125	42	111	32	4	-		SH-M6-25	2.60	4.56
SCM-125-FMA31.75-S	42	125	42	111	31.75	4	-		SH-M6-25	2.52	4.86
SCM-160-FMB40-S	42	160	50	146	40	4	4		SH-M6-25	4.12	6.09
SCM-160-FMA38.1-S	42	160	46	146	38.1	4	4		SH-M6-25	4.20	6.45
SCM-200-FS60F-S	45	200	60	186	60	4	4		SH-M6-25	6.06	10.50
SCM-200-FMA38.1-S	45	200	48	186	38.1	4	4		SH-M6-25	6.46	10.40
SCM-200-FMA47.625-S	45	200	47.625	186	47.625	4	4		SH-M6-25	6.43	14.60
SCM-250-FS60F-S	47	250	60	236	60	4	8		SH-M6-25	10.54	14.50
SCM-250-FMA38.1-S	47	250	48	236	38.1	4	8		SH-M6-25	10.98	14.70
SCM-250-FMA47.625-S	47	250	47.625	236	47.625	4	8		SH-M6-25	10.70	14.66

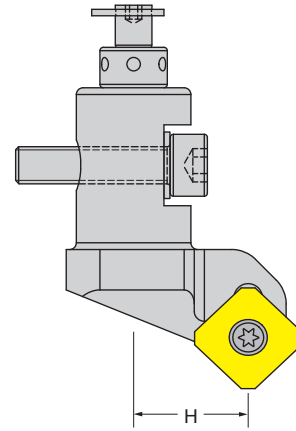
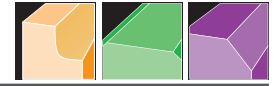
● S- 為雙微調 S: dual micro-adjustment

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SE..1204 SE..12T3 AP..1604 RP..1204	SH-M6-20	P5	6.0
	SH-M6-25	P5	6.0



● 長度單位 Unit of Length (mm)



卡式刀座 Cartridges

規格 Spec.	H	刀片 Insert	重量 (KGS) Weight
ACM-SE12-S	-	SE..1204	0.11
● ACM-SE12-A-S	-3	SE..1204	0.11
● ACM-SE12-B-S	+3	SE..1204	0.11
● ACM-SE12-C-S	-2	SE..1204	0.11
● ACM-SE12-D-S	+2	SE..1204	0.11
● ACM-SE12-E-S	-1	SE..1204	0.11
● ACM-SE12-F-S	+1	SE..1204	0.11
ACM-SE12-L-S(左旋)	-	SE..1204	0.11
ACM-AP16-S	-	AP..1604	0.13
ACM-RP12-S	-	RP..1204	0.13
● ACM-SE12T3-S	-	SE..12T3	-

● - 按訂單生產 - produced order by order.

配件表 Accessories

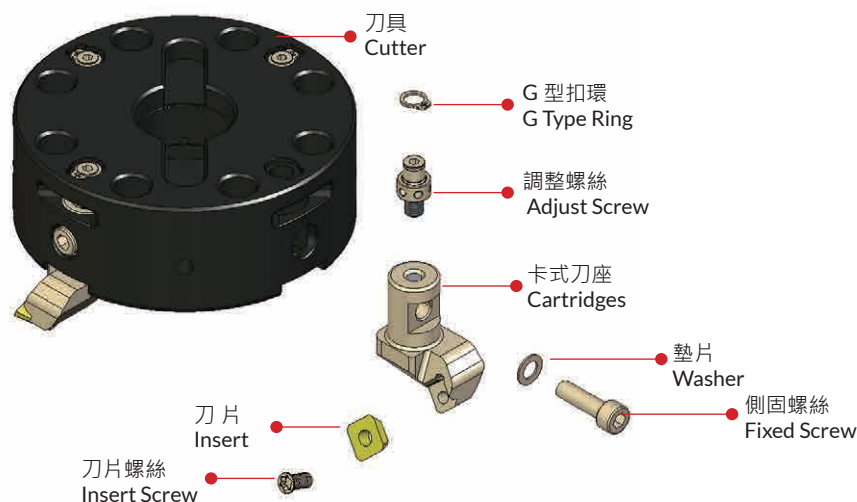
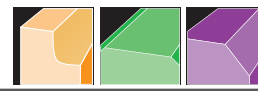
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SE..1204	M5-11-7.0-55	T20	5.0
AP..1604	M4-10-5.7-60	T15	3.0
RP..1204	M4-10-5.0-43	T15	3.0
SE..12T3	M3.5-11.7-5.3-60	T15	3.0

標準配件 Standard package

選配特別附件 Optional

圖示 Fig.	調整螺絲 Adjust Screw	側固螺絲 Fixed Screw	G型扣環 G-Type Ring	墊片 Shim	調整扳手 Adjust Wrench	PL型扳手 PL-Type Wrench	PL型扳手 PL-Type Wrench	圖示 Fig.	彈簧鉗 Spring Pliers
名稱 Name	調整螺絲 Adjust Screw	側固螺絲 Fixed Screw	G型扣環 G-Type Ring	墊片 Shim	調整扳手 Adjust Wrench	PL型扳手 PL-Type Wrench	PL型扳手 PL-Type Wrench	名稱 Name	彈簧鉗 Spring Pliers
規格 Spec.	AD-M6	M6x20	GTW-6.7	W-0.5	ADW-2	PL3	PL5	規格 Spec.	F-26
功能 Function	調整刀具高度 Adjust cutter height	鎖固卡式刀座 Fix cartridge	固定調整螺絲 Fix adjust screw	迫緊螺絲 Fasten screw	調整卡式刀座 Adjust cartridge	調整卡式刀座 Adjust cartridge	鎖固扳手 Fasten	功能 Function	安裝 G 型扣環 Assemble G Type Ring

• 長度單位 Unit of Length (mm)



調整使用說明 Alignment Operation:

以最高刃為基準，將其餘刃微調高度同最高刃，可使切削加工表面粗糙度符合需求。步驟如下：

To let the roughness of machined surface meet the requirement, make a micro-adjustment for each blade at same height. Each step as follows:



1. 用量錶量測每刃高度，以最高刃為基準，將量錶歸零。Use dial indicator to measure each insert height. Zero the dial indicator at 12 on the basis of the highest insert.



2. 使用 P5 扳手，鬆開其他刃固定螺絲。Use the spanner of P5 to loosen the fixed screw for other insert.



3. 使用調整扳手往 ⊕ 的方向微調高度，若調整刃高過高，則使用調整扳手往 ⊖ 的方向微調高度。Use the spanner to make a micro-adjustment at the direction of ⊕. If adjust the insert height over then, please adjust at the direction of ⊖.



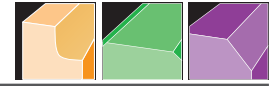
4. 待其刃高同最高刃，使用 P5 扳手鎖緊調整螺絲，須再量測一次刃高，查看量錶指針是否指向零，若指針沒有指向零，則重覆上述動作。When all inserts are at the same height, use the spanner of P5 to lock tightly the screws. After that, measure again each insert height. And check if the dial indicator is zero. If no, please repeat above action.



5. 待刃高皆同高時，則調整完畢。Each blade at the same height represents the alignment is ok.

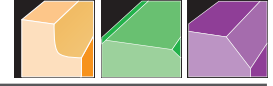


▲ 合金鋼替換式刀頭除了在側邊調整外，也可在上面進行調整，若刀具已上主軸，可不用將刀具從主軸拆卸，即可檢測調整。Except for side-alignment you can also adjust from the top. No need to disassemble the cutter head from the machine spindle, just check the each insert.



ISO 分類	P	合金鋼 Alloyed Steels												切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting		
	M	不鏽鋼 Stainless Steels														
	K	鑄鐵 Cast Iron														
N	鋁及鋁合金 Aluminum&Al	○	●	■		■	■	■	○	■						
S	高溫合金 Refractory Alloys															
H	高硬度材 Hard Material															
形狀 Shape	規格 Spec.	聚晶鑽石 Polycrystalline diamond				超硬微粒 Ultra-hard microprogram					尺寸 (mm)				圖形 Drawing	
		DP				HF					Size					
		PCD	PCD020	PCD100		GH1	GH05	OM5005	OM5060	RM5005		d	i	s		r
	APEX1604PDFR-701						●					9.525	16.4	4.76	0.2	
	APEX1604PDFR-F01							●	●			9.525	16.4	4.76	-	
	APEX160400PDFR-F01							●	●			9.525	16.4	4.76	-	
	APEX160404PDFR-F01							●	●			9.525	16.4	4.76	0.4	
	APEX160408PDFR-F01							●	●			9.525	16.4	4.76	0.8	
	APGW160404PDFR-F01		●	●								9.525	16.5	4.76	-	
	APGW1604PDFR-F01		●	●								9.525	16.5	4.76	-	
	SEET13T3AGFN-F01									●		13.4	-	3.97	2.55	
	SEHT1204AFFN						●		●			12.7	-	4.76	-	
	SEGW120404AFFN-F01		●	●								12.7	-	4.76	-	
	SEGW1204AFFN-F01		●	●								12.7	-	4.76	-	
	RPET1204MOE-M01							●				12	-	4.76	6	

•長度單位 Unit of Length (mm)



ISO 分類	P	合金鋼 Alloyed Steels			○	○	○	○	○	●	切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting			
	M	不鏽鋼 Stainless Steels			○	○	○	○	○					
	K	鑄鐵 Cast Iron		○	○	○		○						
	N	鋁及鋁合金 Aluminum&Al												
S	高溫合金 Refractory Alloys													
H	高硬度材 Hard Material	●		○										
形狀 Shape	規格 Spec.	氮化硼 BN		鍍層超微粒 Layer coating ultra-micro					瓷金 Cermet	尺寸 (mm)				圖形 Drawing
		BN		CHF					HF	Size				
		CBN250	CBN500	OM4010	OM4025	RM2140	RM4125	RM4130	OM1205	d	i	s	r	
	APGW1604PDER	●								9.525	16.5	4.76	-	
	APGW1604PDFR	●								9.525	16.5	4.76	-	
	APGW1604PDTR	●								9.525	16.5	4.76	-	
	APGW1604PDSR	●								9.525	16.5	4.76	-	
	SEGW1204AFSN	●								12.7	-	4.76	-	
	SEGW1204AFTN	●								12.7	-	4.76	-	
	SEGW1204AFEN	●								12.7	-	4.76	-	
	SEGW1204AFFN	●								12.7	-	4.76	-	
	★ SEHT1204AFEN-M01			●	●					12.7	-	4.76	Facet	
	SEKW1204AFN				●				●	12.7	-	4.76	-	
	SEMT13T3AGEN-M02					●	●							
	RPET1204MOE-M01			●	●					12	-	4.76	6	
	RPMT1204MON								●	12	-	4.76	6	

★ 推薦 Recommended

• 長度單位 Unit of Length (mm)



AP_16 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切深 Ap(mm)
P	低合金鋼 Low-Alloy Steels	OM4025	120~300	0.15~0.40	3.0~8.0
		OM4025N	120~300	0.15~0.40	3.0~8.0
		RM4130	60~300	0.10~0.25	3.0~8.0
	合金鋼 Alloyed Steels	OM4025	80~180	0.15~0.35	3.0~8.0
		RM4130	60~300	0.10~0.25	3.0~8.0
M	不鏽鋼 Stainless Steels	OM4025	120~160	0.15~0.35	3.0~8.0
K	鑄鐵 Cast Iron	OM4025	160~250	0.15~0.30	3.0~8.0
		RM3130	160~250	0.15~0.30	3.0~8.0
N	鋁合金 Aluminum&Al	OM5005	400~1000	0.04~0.20	3.0~8.0
		OM5060	400~1000	0.04~0.20	3.0~8.0
		RM5005	400~1000	0.04~0.20	3.0~8.0
		GH05	300~800	0.04~0.20	3.0~8.0
		PCD100	1200~2000	0.04~0.20	0.5~1.0
S	高溫合金 Refractory Alloys	RM535	20~40	0.10~0.20	1.0~3.0

SE_12 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials		刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切深 Ap(mm)
P	低合金鋼 Low-Alloy Steels	OM4010	260~320	0.20~0.45	1.0~3.0
		OM4025	220~260	0.20~0.45	1.0~3.0
		RM4025	220~260	0.20~0.45	1.0~3.0
	合金鋼 Alloyed Steels	OM1205	100~195	0.05~0.15	1.0~2.0
		OM4010	130~250	0.20~0.35	1.0~3.0
		OM4025	100~195	0.20~0.35	1.0~3.0
M	不鏽鋼 Stainless Steels	OM4010	180~220	0.10~0.30	1.0~2.0
		OM4025	140~180	0.10~0.30	1.0~2.0
		析出硬化系 Precipitation-Hardening	OM4010	90~120	0.15~0.20
OM4025	70~85		0.15~0.20	0.2~1.0	
K	鑄鐵 Cast Iron	OM4010	160~300	0.12~0.35	1.0~3.0
		OM4025	180~300	0.15~0.35	1.0~3.0
		CBN500	700~1500	0.06~0.10	0.1~0.2
N	鋁合金 Aluminum&Al	OM5060	500~850	0.15~0.35	3.6~6.0
		GH1	275~450	0.15~0.35	3.0~6.0
		PCD100	1000~2000	0.06~0.10	0.05~0.1
S	高溫合金 Refractory Alloys	CBN250	700~1500	0.05~0.10	0.10~0.50



RP_12 切削條件數據表 Cutting Parameter

被加工材質 Machining Materials	刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 fz(mm/rev)	切深 Ap(mm)
P 低合金鋼 Low-Alloy Steels	OM4010	220~300	0.08~0.16	0.1~6.0
	OM4025	180~220	0.08~0.16	0.1~6.0
	RM4130	200~240	0.08~0.16	0.1~6.0
P 合金鋼 Alloyed Steel	OM4010	100~200	0.08~0.16	0.1~6.0
	OM4025	120~140	0.08~0.16	0.1~6.0
	RM4130	140~160	0.08~0.16	0.1~6.0
M 不鏽鋼 Stainless Steels	OM4010	80~140	0.08~0.14	0.1~3.0
	RM4130	100~140	0.08~0.14	0.1~3.0
K 鑄鐵 Cast Iron	OM4025	220~350	0.08~0.25	0.1~6.0
N 鋁合金 Aluminum&Al	OM5005	700~1000	0.06~0.12	0.1~6.0

主軸轉速 = (1000 × 切削速度) ÷ (3.14 × 刀具外徑)

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

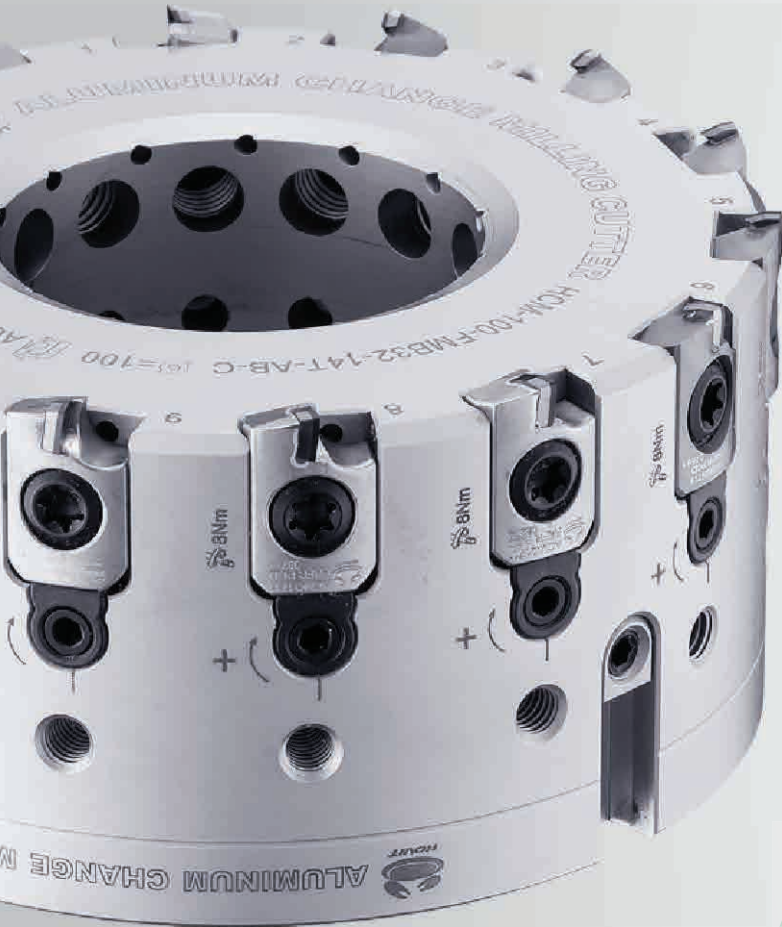
床檯進給 (mm/min) = 每刃進給 × 刀具刃數 × 主軸轉速

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

HCMII 鋁合金密齒型銑刀頭

HCMII ALUMINUM CHANGEABLE MILLING CUTTER

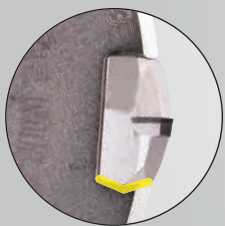
Feature



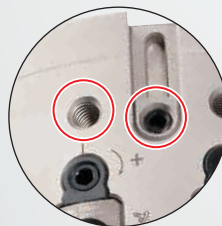
台灣精品 2018
TAIWAN EXCELLENCE

- 輕量化鋁合金本體
Light-weight aluminum body.
- 刀座V槽定位設計，讓加工更穩定
V-groove positioning for superior stability.
- 軸向動平衡及出水結構設計
Axial dynamic balance and through-hole coolant system.
- 可進行 μ 級調整
Adjustable for micrometer.

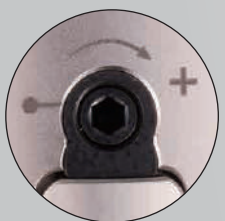
Aluminum



刀座V槽定位設計，可避免高速切削下所產生的震動，讓加工更穩定
V-groove positioning provide superior stability.



利用移動槽中的質量以改變質量所在的平面，藉以減少刀桿與刀頭結合處的力矩，提升刀頭動平衡等級
Special radial and axial dynamic balance adjustments for improving the cutter's dynamic balance.



利用雙圓形的設計，有效吸收刀具切削時所產生的後推力，讓加工表面粗糙度更加細緻
Adjustable wedge with circular arc design provide better surface finish.



免研磨 達鏡面 重環保 愛地球

Grind free Reach mirror Environmental & earth protection

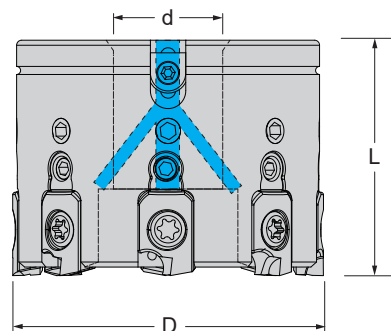
Milling Cutter



HCM 鋁合金密齒型替換式刀頭

HCM ALUMINUM CHANGEABLE MILLING CUTTER

TW PAT. NO: I573644



特點 Feature

- 輕量化鋁合金本體
- 刀座 V 槽定位設計，讓加工更穩定
- 可進行 μ 級調整
- 軸向動平衡及出水結構設計

- Lightweight aluminum body.
- V-groove positioning design and results to stable process.
- μ grade can be adjusted.
- Axial dynamic balance and through-tool coolant system.

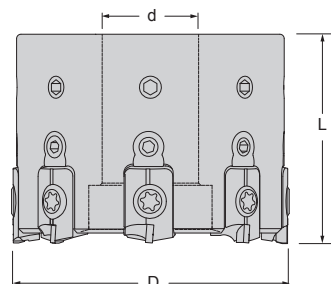
規格 Spec.	D	L	d	刀數 T	建議最高轉速 Spindle speed n max	淨重 (KGS) Weight	重量 (KGS) Weight
HCM-50-FMB16-6T-AB-C	50	48	16	6	max. 33000rpm	0.20	1.26
HCM-63-FMB22-8T-AB-C	63	48	22	8	max. 33000rpm	0.30	1.40
HCM-80-FMB27-10T-AB-C	80	50	27	10	max. 33000rpm	0.48	1.60
HCM-100-FMB32-14T-AB-C	100	50	32	14	max. 29500rpm	0.81	2.02
HCM-125-FMB40-18T-AB-C	125	63	40	18	max. 25500rpm	1.88	3.68



HCM 鋁合金密齒型替換式刀頭

HCM ALUMINUM CHANGEABLE MILLING CUTTER

TW PAT. NO: M502518
 TW PAT. NO: M502519
 CN PAT. NO: ZL 2015 2 012 5603.4
 CN PAT. NO: ZL 2015 2 012 5605.3
 DE PAT. NO: Nr.20 2015 102 712
 DE PAT. NO: Nr.20 2015 102 713



特點 Feature

- 輕量化鋁合金本體
- 刀座 V 槽定位設計，讓加工更穩定
- 可進行 μ 級調整

- Lightweight aluminum body.
- V-groove positioning design and results to stable process.
- μ grade can be adjusted.

規格 Spec.	D	L	d	刀數 T	建議最高轉速 Spindle speed n max	淨重 (KGS) Weight	重量 (KGS) Weight
HCM-160-FMB40-24T	160	63	40	24	max. 22200rpm	2.48	6.65
HCM-200-FS60F-28T	200	63	60	28	max. 18100rpm	3.42	7.56
HCM-250-FS60F-36T	250	63	60	36	max. 14500rpm	6.50	10.58
HCM-315-FS60F-46T	315	80	60	46	max. 11500rpm	12.44	16.60
HCM-400-FS60F-58T	400	80	60	58	max. 9000rpm	20.76	28.22



• 長度單位 Unit of Length (mm)

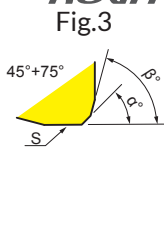
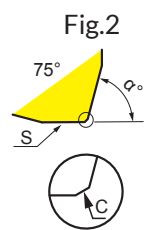
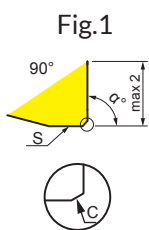
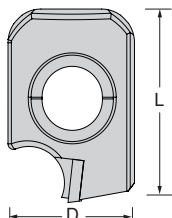


HCM 刀片座 HCM INSERT SEAT



聚晶
PCD

立方
氮化硼
CBN

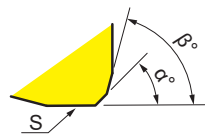
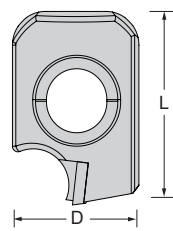


適合刀具 Cutting Tool	規格 Spec.	聚晶鑽石 Polycrystalline Diamond		立方氮化硼 CBN		尺寸 (mm)						最大切深 Cutting Max.	Fig.
		DP		CBN		Size						mm	
		PCD		CBN250		L	D	α°	β°	S	C	AP	
HCM	ACMQ1711PAFR	●		●		17	11	90°	-	1.2	0.15	2	1
	ACMQ1711EAFR	●		●		17	11	75°	-	1.2	0.15	2	2
	ACMQ1711AAFR	●		●		17	11	45°	75°	1.2	-	1.13	3

※ 如有特殊角度需求，請與我司聯繫 If have the special angle need, please contact us.

聚晶
PCD

立方
氮化硼
CBN

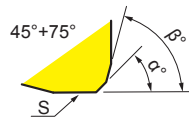
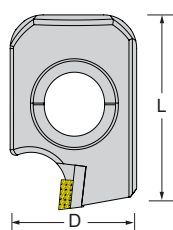


修光刀刀片 Wiper inserts:

適合刀具 Cutting Tool	規格 Spec.	聚晶鑽石 Polycrystalline Diamond		立方氮化硼 CBN		尺寸 (mm)						最大切深 Cutting Max.
		DP		CBN		Size						mm
		PCD		CBN250		L	D	α°	β°	r	C	AP
HCM	ACMQ1711AAFR-R300	●		●		17	11	45°	75°	300	-	2
	ACMQ1711AAFR-R500	●		●		17	11	45°	75°	500	-	1.13

※ 如有特殊角度需求，請與我司聯繫 If have the special angle need, please contact us.

單晶
MD



單晶刀片 Single crystal diamond:

適合刀具 Cutting Tool	規格 Spec.	單晶鑽石 Single crystal diamond				尺寸 (mm)						最大切深 Cutting Max.
		MD				Size						mm
		MD100				L	D	α°	β°	S	C	AP
HCM	ACMQ1711ACFR	●				17	11	45°	75°	1.2	-	1.13

• 長度單位 Unit of Length (mm)

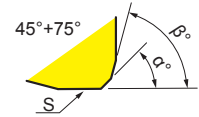
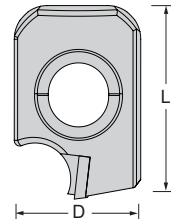


HCM 鎢鋼刀片座

HCM TUNGSTEN STEEL INSERT SEAT



KOVIT

鎢鋼
WC

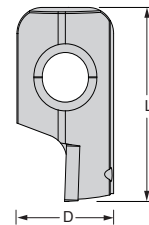
規格 Spec.	L	D	α°	β°	S	重量 (KGS) Weight
ACMQ1711AAFR-WC	17	11	45°	75°	1.2	0.02



HCM 捨棄式刀片座

HCM INDEXABLE INSERT SEAT

KOVIT



規格 Spec.	L	D	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
ACMQ1711-TB06	22.13	11	TB.0601	M2-5.0-2.7-60	T6	0.6	0.02

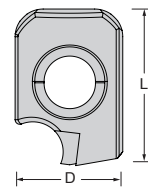
※ 可自行搭配刀片材質 Can collocation insert material.



HCM 刀片基座

HCM INSERT BASE SEAT

KOVIT



規格 Spec.	L	D	重量 (KGS) Weight
ACMQ1711-AS	17	11	0.02

※ 可用於刀頭配重或自行焊接各項材質 Can be used for weight or self-welding head of the material.

標準配件 Standard Accessories:

圖示 Fig.					
規格 Spec.	HCM-AW-8L	M8-1.25P-M5-0.8P-10L	M5-13.3-7.0-60-T25	M5-0.5P-LH-RH-17-P2.5	M5-0.8P-10L
名稱 Name	調整楔塊 wedge adjustment	牙套 Flutes sleeve	刀片座螺絲 insert holder screw	雙頭螺絲 both headed screw	動平衡螺絲 balance screw
功能 Function	調整尺寸精度 Dimension accuracy adjustment	調整尺寸精度 Dimension accuracy adjustment	鎖回刀座 fix the holder	固定調整楔塊 fix the wedge	平衡配重 mass-balance weight
圖示 Fig.					
規格 Spec.	TW-80-SB	BIT-T25-50L	PT2.5	T25	
名稱 Name	TW 扭力起子 TW torque driver	50mm 起子頭 50mm bits torx	T 型扳手 T-type wrench	L 型星型扳手 L-type wrench	
功能 Function			鎖固螺絲 lock screws		

• 長度單位 Unit of Length (mm)



1 依工件寬度搭配面銑刀具直徑
According to the width of the workpiece with the face milling cutter diameter

形式 Form				
說明 Description				
零件材質 Part material	刀具直徑 Cutter Diameter		選擇適當刃數 Choice suitable Flutes	
	E 建議的切入角 E The Recommended cut-in angle	建議刀具直徑與工件寬度比 Recommended tool diameter to workpiece width ratio	按直徑 (mm) 計算 Calculated by diameter (mm)	結果 result
鋁合金 Aluminum	+40°以上	5:3	$\left(\frac{4}{100} \sim \frac{6}{100}\right) \times \varnothing D$	多則易變形；少則易起毛邊 More easily deformed; from less easy to flash

2 咬合角和刀具壽命
Bite angle and tool life

形式 Form		
<p>咬合角與銑刀尺寸的關係 Relation to Cutter Diameter</p> <p>銑刀直徑 (大)</p> <p>銑刀直徑 (小)</p>	<p>咬合角與銑刀位置的關係 Relation to Cutter Position</p>	<p>與刀具壽命的關係 Relation to Tool Life</p>
說明 Description		
<p>咬合角是銑刀中心與刀切進點的連線與進給方向所成的夾角。 E 越大刀具壽命越短。改變 E 的方法有：1. 加大銑刀直徑 2. 錯開位置 Engage angle denotes the angle by which the full length of the cutting edge comes in contact with the work material, with reference to the feed direction. The large E is, the shorter the tool life. To change the value of E: 1. increase the cutter size. 2. shift the position of the cutter.</p>		

•長度單位 Unit of Length (mm)

3 切削的刃數與切削力變動的關係

Relation between the number of simultaneously engaged cutting edges and cutting force

形式 Form										
A	B	C	D	E						
同時參與切削刃數為 0 或者 1 時 0 or 1 edge in contact at same time.	常態為 1 片切削時 Only 1 edge in contact at any time.	1 片或 2 片切削時 1 or 2 edges in contact.	2 片切削時 2 edge in contact at any time.	2~3 片切削時 2 to 3 edge in contact.						
說明 Description										
<p>通常切削寬度如 D 的狀態，銑刀直徑在 70%~80% 較為適當，但由於受機台和工件的剛性、機台馬力的影響，無法一概而論 Normally, cutting width is considered to be appropriate with 70 to 80% of the cutter diameter engaged as shown in example D. However, this may not apply due to the actual rigidity of the machine or work piece, and machine horsepower.</p>										
建議使用刀具尺寸規格 Suggest used the cutter spec.										
規格 Spec.	HCM50	HCM63	HCM80	HCM100	HCM125	HCM160	HCM200	HCM250	HCM315	HCM400
工件寬度範圍 Workpiece width range	30~40mm	37~50mm	48~64mm	60~80mm	70~95mm	96~128mm	120~160mm	150~200mm	189~252mm	240~320mm

4 選擇刀片座種類

Choice the insert seat type

形式 Form				
90°	75°	45°	12°	$D_c=100 \quad f=0.05 \quad A_p=0.2$
適用： 1. 加工壁薄件 2. 加工夾持剛性差工件 3. 大切削 General: 1. Processing pi thin pieces. 2. Processing clamping rigid workpiece. 3. Large cutting.	適用： 1. 加工粗胚 2. 中大切削工件 General: 1. Processing rough embryos. 2. Large cutting parts.	適用： 1. 加工深腔體工件 2. 中切深 General: 1. Processing of deep cavity workpiece. 2. In the depth of cut.	適用： 1. 加工大量粗切削 2. 小切深、大進給 General: 1. Processing a large number of rough cutting. 2. Small depth of cut, large feed.	範例 Example: $h = \frac{\sqrt{0.2 \times (100 - 0.2)}}{100} \times 0.05$ $h = 2.23$
說明 Description				
<p>外周切削刃角（主偏角的餘角）越大，則切屑厚度越大，切削阻力增加，刃口強度降低；反之則切屑厚度越薄，切削阻力減少，加工餘量受限。 一般加工選用切削力，切屑厚度適中的 45°角。 The larger the chip angle is, the greater the chip thickness is, and the cutting resistance is increased. The cutting edge strength is reduced. General processing selection of cutting force, chip thickness of moderate 45° angle.</p>				

•長度單位 Unit of Length (mm)



5 外周切削刃角與切削刃的關係
Relationship between cutting edge angle and cutting edge

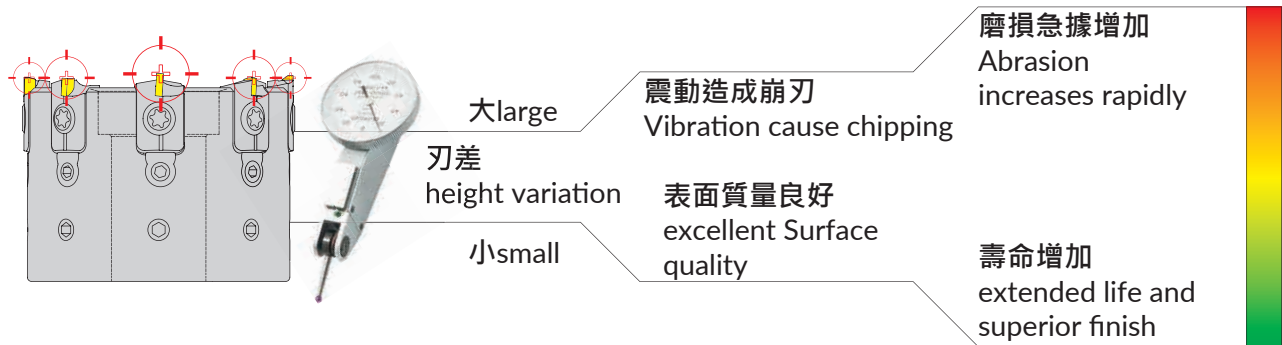
形式 Form	
<p>90°</p>	<p>主偏角 外周切削刃角</p>
<p>Fa: 切削力的軸向分力 Fr: 切削力的徑向分力</p> <p>Fa: Axial component of cutting force. Fr: Radial component of cutting force.</p>	
說明 Description	
<p>刀具外徑切削刃角越大·徑向分力越大；軸向分力越小·適合加工薄壁件·軸向剛性較差的零件加工。 刀具外徑切削刃角越小·軸向分力越大；徑向分力越小·適應於大懸長加工。 The greater the peripheral cutting edge angle, the greater the radial component; axial component of the smaller, to adapt to thin-walled parts, poor rigidity of the axial processing of parts. The smaller the peripheral cutting edge angle, the greater the axial component; radial component of the smaller, adapted to large long-length processing.</p>	

6 如何正確搭配刀片座類型
How to properly match the insert seat type

形式 Form	
<p>Ha: 不使用修光刀刀片的粗糙度 Ha: Don't used wiper insert</p>	<p>Hb: 使用修光刀刀片的粗糙度 Hb: Used wiper insert</p>
<p>切削數據: ◆工件: Al7075 ◆刀頭 HCM-63 ◆Vc=700m/min ◆fz=0.1mm/t ◆Ap=0.1mm</p>	
<p>h: 修光刀刀片突出量 鋁合金(Al): 0.03mm</p>	<p>f: 每刃進給(mm/rev) Ha: 普通刀片的精加工粗糙度 Hb: 修光刀刀片的精加工粗糙度</p>
<p>一般捨棄式刀片</p>	<p>修光刀刀片</p>
說明 Description	
<p>- 帶修光刃的刀片: 所有刀片帶有修光刃·相對刀片的跳動高度·利用高度最突出的刀片修光刃刮光表面的方法。 - With wiper insert: All insert have a wiper edge, relative to the beating height of the insert, using the most prominent insert to wiper the surface of the wiper. - 加入修光刀刀片的方式: 在一般刀片中·加入 1~2 片呈圓滑線型的修光刀刀片比其它刀片稍突出。 - Wiper insert to join the way: in the general insert, add 1 to 2 was rounded linear wiper insert than other edge insert slightly prominent.</p>	

•長度單位 Unit of Length (mm)

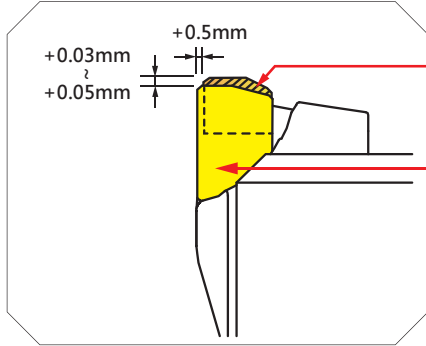
7 調整刀刃的差異性 Adjust the difference between the insert edge



8 切削數據 Cutting Parameter

	材料 Materials	材料編號 Materials examples	抗拉強度 Strength(N/mm ²)	線速度 Vc(m/min)	每刃進給量 f(mm/rev)	
					Ap<1mm	Ap:1~2mm
N	鋁合金 (Aluminium)	鋁合金 (Al99)		max.6000	0.1~0.2mm/rev	0.05~0.1mm/rev
	鋁合金 (Aluminium) 7% 矽 (Si)	鑄造鋁合金 (AlSi7)				
	鋁合金 (Aluminium) 7-12% 矽 (Si)	鋁合金 (AlSi9) 鋁合金 (AlSi9Cu)				
	鋁合金 (Aluminium) 12% 矽 (Si)	鋁合金 (AlSi12) 鋁合金 (AlSi17)		max.2000		
	銅 (Copper) 非合金銅 (unalloyed)	銅合金 (SE-Cu)	< 300	max.6000		
	銅 (Copper)	銅錫合金 (CuSn6)	> 300	max.2000		
	黃銅 (Brass) 青銅 (bronze) 紅銅 (red brass)	銅錫合金 (CuZn33) 銅合金 (CuAl9Mn3)	< 1.200			
	石墨 (Graphite)	-				
	塑料 (Plastic) 熱可塑性樹脂 (Thermoplastics)	尼龍 (PA), 塑膠 (PE), 聚碳酸酯 (PC), 聚苯乙烯 (PS), 聚氯乙烯 (PVC), 聚丙烯 (PP), 聚四氟乙烯 (PTFE), 聚甲醛 (POM), 聚甲基丙烯酸甲酯 PMMA				
	塑料 (Plastic) 熱固性塑膠 (Thermoset plastics)	聚氨酯 (PU), 電木粉 (PF), 環氧樹脂 (EP), 聚酯樹脂 (UP), 塑膠 (VE), 氯丁橡膠 (CR)				
C	塑料 (Plastic matrix) 碳纖維複合材料 (CFRP/GFRP)	聚酯 (IMS), 高溫合金 (HTA)		Max.100~500	0.1~0.4mm/rev	0.1~0.2mm/rev
	塑料 (Plastic matrix) 碳纖維複合材料 (CFRP/GFRP)	玻璃纖維 (GMT-PP), 聚醚醚酮 (PEEK)				
	碳纖維複合材料 Carbon matrix 碳纖維強化碳基複合材料 carbon fibre reinforced (CFC)	碳纖維 (CF222, CF225, CF226, CF227, CF260)		Max. 100~300	0.1~0.2mm/rev	0.05~0.1mm/rev

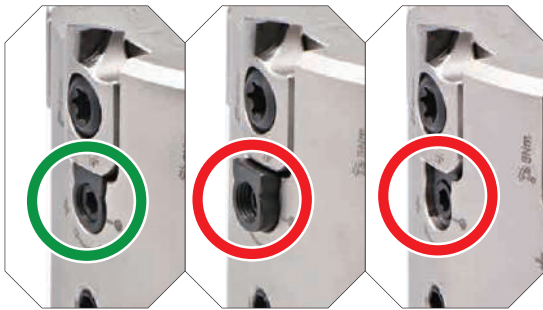
• 長度單位 Unit of Length (mm)



修光刃刀片座 Wiper insert

PCD刀片座 PCD insert

⚠️ 安裝修光刃刀片(R300、R500)時，應比PCD刀片高出+0.03mm~+0.05mm
 When installing wiper inserts (R300 or R500) be sure they are 0.03 ~ 0.05mm higher than the PCD insert.



請務必使調整楔塊與刀頭外徑平行
 Make sure the wedge and the insert are parallel.

一般精度：0.01mm
 精密精度：0.003mm ~ 0.005mm
 General accuracy: 0.01mm
 Precision accuracy: 0.003mm 0.005mm



每刃皆有一顆動平衡螺絲，可調整每刃不平衡量
 Each insert seat has a dedicated dynamic balance adjustment

轉速(min^{-1})	JIS等級 ISO 1940-1/8821 (JIS B0905)
~20,000	G16
~30,000	G6.3
30,000~	G2.5

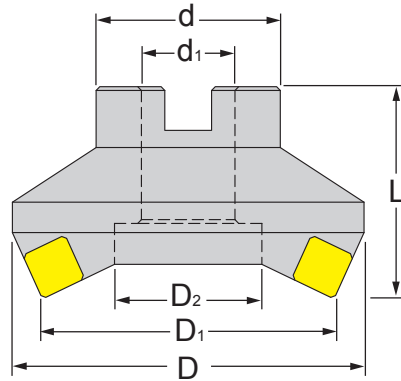
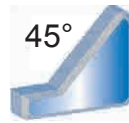


在高速旋轉 (10,000 min^{-1} 以上) 使用時，刀具本體與刀桿的組合，請參考以下數值進行選配

When operating at high rotation speeds (10,000 min^{-1} or more), perform balancing of the tool body and arbor combination according to the reference values listed here.

⚠️ 請不要超過建議的最高轉速加工數據，避免造成離心力影響而使刀片或零件的飛散，導致刀頭受損
 Do not use at rotation speeds exceeding the maximum rotation speed stated. Inserts and other parts may fly apart and cause bodily harm due to the high velocity of centrifugal force.

445



規格 Spec.	L	D	D ₁	D ₂	d	d ₁	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
ASP-445-3	55	104	80	36	68	25.4	5	SE..1203	2.21
ASP-445-4	55	128	100	45	85	31.75	5	SE..1203	3.34
ASP-445-5	60	156	125	60	106	38.1	6	SE..1203	5.33
ASP-445-6	60	182	160	72	132	50.8	8	SE..1203	7.31
ASP-445-8	60	228	200	130	128	47.625	10	SE..1203	8.81
ASP-445-10	60	284	250	140	160	47.625	12	SE..1203	16.0
ASP-445-12	60	327	300	140	210	47.625	14	SE..1203	26.0
ASP-445-8-L	60	228	200	130	128	47.625	10	SE..1203	8.81
ASP-445-10-L	60	284	250	140	160	47.625	12	SE..1203	16.0

- L : 左撇 Left-handed

配件表 Accessories

刀片 Insert	雙頭螺絲 Screw	墊片螺絲 Shim Screw	壓板 Clamp	墊片 Shim	扳手 Wrench	扭力值 (N.m) Torque
SE..1203	ASP1	ASP2	ASP3	ASP4	PT4	5.0

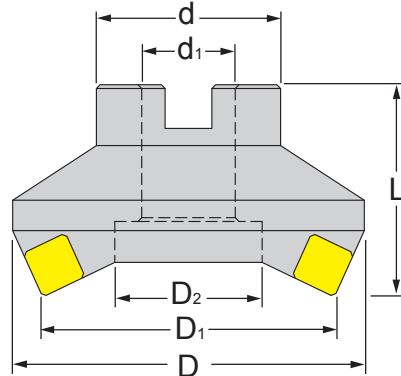
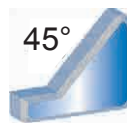
- 左旋用壓板 Left-handed clamp : ASP3-L 左旋用墊片 Left-handed Shim : ASP4-L

ISO 分類	P	合金鋼 Alloyed Steels	○										切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting					
	M	不鏽鋼 Stainless Steels																
	K	鑄鐵 Cast Iron	○															
	N	鋁及鋁合金 Aluminum&Al																
	S	高溫合金 Refractory Alloys																
	H	高硬度材 Hard Material																
形狀 Shape	規格 Spec.	硬質合金 Hard alloy										尺寸 (mm) Size				圖形 Drawing		
		HW										d	i	s	r			
		TSP25	TSK10															
	SEKN1203AFR	●	●											12.7	-	3.18	-	

•長度單位 Unit of Length (mm)



545



規格 Spec.	L	D	D ₁	D ₂	d	d ₁	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
ASP-545-3	55	104	80	36	68	25.4	5	SE..1504	2.20
ASP-545-4	55	128	100	45	85	31.75	5	SE..1504	3.33
ASP-545-5	60	156	125	60	106	38.1	6	SE..1504	5.32
ASP-545-6	60	182	160	72	132	50.8	8	SE..1504	7.30
ASP-545-8	60	228	200	130	128	47.625	10	SE..1504	8.69
ASP-545-10	60	284	250	140	160	47.625	12	SE..1504	16.38
ASP-545-12	60	327	300	140	210	47.625	14	SE..1504	26.38

配件表 Accessories

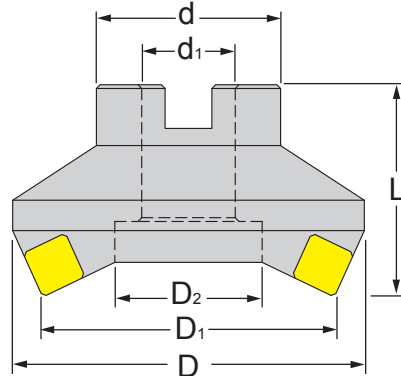
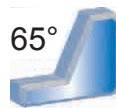
刀片 Insert	雙頭螺絲 Screw	墊片螺絲 Shim Screw	壓板 Clamp	墊片 Shim	扳手 Wrench	扭力值 (N.m) Torque
SE..1504	ASP1	ASP2	ASP3	ASP4	PT4	5.0

ISO 分類	P	合金鋼 Alloyed Steels	○												切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting		
	M	不鏽鋼 Stainless Steels															
	K	鑄鐵 Cast Iron	○														
形狀 Shape	N	鋁及鋁合金 Aluminum&Al													圖形 Drawing 		
	S	高溫合金 Refractory Alloys															
	H	高硬度材 Hard Material															
規格 Spec.	硬質合金 Hard alloy												尺寸 (mm) Size				
	HW												d	i	s	r	
		TSP20	TSK10														
	SEKN1504AFR	●	●											15.875	-	4.76	-

•長度單位 Unit of Length (mm)



435



規格 Spec.	L	D	D ₁	D ₂	d	d ₁	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
ASP-435-3	55	96	80	36	70	25.4	5	SPKN1204 (ISO) SPK43C2SR (英制)	2.16
ASP-435-4	55	118	100	45	80	31.75	5		2.96
ASP-435-5	60	142	125	55	96	38.1	6		4.80
ASP-435-6	60	177	160	72	128	50.8	8		7.24
ASP-435-8	60	218	200	130	128	47.625	10		8.90
ASP-435-10	60	273	250	130	200	47.625	12		19.0
ASP-435-12	60	320	300	130	210	47.625	14		25.0

配件表 Accessories

刀片 Insert	雙頭螺絲 Screw	墊片螺絲 Shim Screw	壓板 Clamp	墊片 Shim	扳手 Wrench	扭力值 (N.m) Torque
SPK43C2SR	ASP1	ASP2	ASP3	ASP4	PT4	5.0

ISO 分類	合金鋼 Alloyed Steels										切削狀態 Cutting Condition: ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting				
	不鏽鋼 Stainless Steels														
	鑄鐵 Cast Iron														
形狀 Shape	鋁及鋁合金 Aluminum&Al										尺寸 (mm) Size	圖形 Drawing			
	高溫合金 Refractory Alloys														
	高硬度材 Hard Material														
規格 Spec.		硬質合金 Hard alloy HW								尺寸 (mm) Size		圖形 Drawing			
		TSP20	TSK10							d	i		s	r	
	SPK43C2SR	●	●								12.7	-	4.76	-	

•長度單位 Unit of Length (mm)

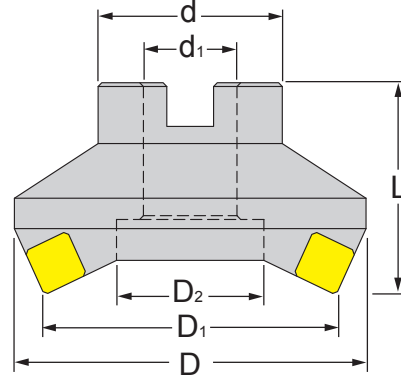
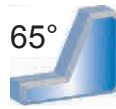
ASP 65° 捨棄式平面銑刀

ASP 65°INDEXABLE FACE MILLING CUTTER



KOVIT

535



規格 Spec.	L	D	D ₁	D ₂	d	d ₁	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
ASP-535-3	55	96	80	36	70	25.4	5	SPKN1504 (ISO) SPK53C2SR (英制)	2.05
ASP-535-4	55	118	100	45	80	31.75	5		2.90
ASP-535-5	60	142	125	55	96	38.1	6		4.64
ASP-535-6	60	177	160	72	128	50.8	8		7.14
ASP-535-8	60	218	200	130	128	47.625	10		8.87
ASP-535-10	60	273	250	130	200	47.625	12		18.4
ASP-535-12	60	320	300	130	210	47.625	14		26.9

配件表 Accessories

刀片 Insert	雙頭螺絲 Screw	墊片螺絲 Shim Screw	壓板 Clamp	墊片 Shim	扳手 Wrench	扭力值 (N.m) Torque
SPK53C2SR	ASP1	ASP2	ASP3	ASP4	PT4	5.0

ISO 分類	P 合金鋼 Alloyed Steels	M 不鏽鋼 Stainless Steels	K 鑄鐵 Cast Iron	N 鋁及鋁合金 Aluminum&Al	S 高溫合金 Refractory Alloys	H 高硬度材 Hard Material	切削狀態 Cutting Condition :								
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	● 連續切削 Continuous Cutting	○ 一般切削 General Cutting	■ 斷續切削 Interrupted Cutting						
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>									
形狀 Shape	規格 Spec.	硬質合金 Hard alloy								尺寸 (mm) Size				圖形 Drawing	
		HW								Size					
		TSP20	TSK10								d	i	s	r	
	SPK53C2SR	●	●								15.88	-	4.76	-	

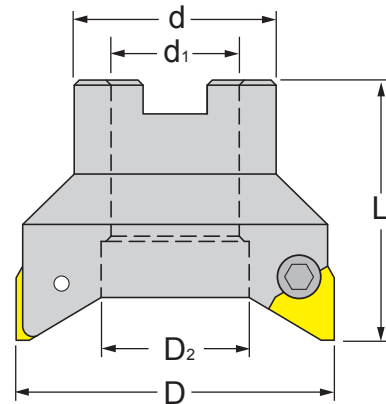
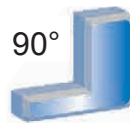
•長度單位 Unit of Length (mm)

TAP 90° 捨棄式平面銑刀

TAP 90° INDEXABLE FACE MILLING CUTTER



KOVIT



規格 Spec.	L	D	D ₂	d	d ₁	刃數 Flutes	刀片 Insert	重量 (KGS) Weight
TAP-63	50	63	18.5	48	25.4	3	TP..2204	0.56
TAP-80	55	80	36	60	25.4	4	TP..2204	1.02
TAP-100	55	100	45	78	31.75	5	TP..2204	1.80
TAP-125	60	125	55	90	38.1	6	TP..2204	3.21
TAP-150	60	150	72	118	50.8	7	TP..2204	4.76
TAP-200	60	200	60	165	47.625	8	TP..2204	8.69
TAP-250	60	250	162	214	47.625	9	TP..2204	15.03
TAP-300	60	300	162	214	47.625	10	TP..2204	22.48

配件表 Accessories

刀片 Insert	傘型螺絲 Screw	墊片螺絲 Shim Screw	墊片 Shim	扳手 Wrench	扭力值 (N.m) Torque
TP..2204	M8-U5/16-24P	TAP2	TAP3	PT5	6.0

ISO 分類	<p>P 合金鋼 Alloyed Steels</p> <p>M 不鏽鋼 Stainless Steels</p> <p>K 鑄鐵 Cast Iron</p> <p>N 鋁及鋁合金 Aluminum&Al</p> <p>S 高溫合金 Refractory Alloys</p> <p>H 高硬度材 Hard Material</p>	硬質合金 Hard alloy										尺寸 (mm) Size				圖形 Drawing		
		HW										Size						
		TSP20	TSK10									d	i	s	r			
	TPKN2204PDR	●	●											12.7	-	4.76	-	
	TPMN220412	●	●											12.7	-	4.76	1.2	

•長度單位 Unit of Length (mm)



SP_12.43.53 切削條件數據表 Cutting Parameter

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

SE_12.15 切削條件數據表 Cutting Parameter

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

TP_22 切削條件數據表 Cutting Parameter

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

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

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

S	T	F	C	R	12	C	A	-	16
①	②	③	④	⑤	⑥	⑦	⑧		⑨

① STFCR12CA - 16		
鎖固方式 Method of Mounting Insert		
Top Clamping C	Hole clamping P	Screw on S

② STFCR12CA - 16		
刀片形狀 Insert Shape		
C	S	T

③ STFCR12CA - 16		
進刀角度 Holder Style		
L	S	F
R	K	G
W	T	

④ STFCR12CA - 16		
離隙角 Relief Angle of Insert		
C	P	N

⑤ STFCR12CA - 16	
進刀方向 Hand of Tool	
R	L

⑥ STFCR12CA - 16
切削刃高度 Height of Cutting Edge

⑦ STFCR12CA - 16
刀具類型 Cartridge Code
C (Cartridge)

⑧ STFCR12CA - 16
設計類型 Type of Cartridge
A (ISO5611)

⑨ STFCR12CA - 16	
切削刃長度 Length of Cutting Edge	

•長度單位 Unit of Length (mm)



STFCR

STFPR

SCFCR

STSPR

STSCR

範例 Example



圖形 Drawing	規格 Spec.	L ₁	L ₂	L ₈	F	H	D _{min}	R _e	刀片 Insert
STFCR 	STFCR-08CA-09	32	-	15	10	8	25	0.4	TC..0902
	STFCR-10CA-11	50	-	30	14	10	40	0.4	TC..1102
	STFCR-12CA-16	55	-	35	20	12	50	0.8	TC..16T3
STFPR 	STFPR-08CA-09	32	-	15	10	8	25	0.4	TP..0902
	STFPR-10CA-11	50	-	30	14	10	40	0.4	TP..1103
	STFPR-12CA-16	55	-	35	20	12	50	0.8	TP..1603
SCFCR 	SCFCR-08CA-06	32	-	15	10	8	25	0.4	CC..0602
	SCFCR-10CA-09	50	-	30	14	10	40	0.4	CC..09T3
STSPR 	STSPR-08CA-09	28	34.1	11	10	8	25	0.4	TP..0902
	STSPR-10CA-11	44	51.0	24	14	10	40	0.4	TP..1103
	STSPR-12CA-16	47	57.0	27	20	12	50	0.8	TP..1603
STSCR 	STSCR-08CA-09	28	34.1	11	10	8	25	0.4	TC..0902
	STSCR-10CA-11	44	51.0	24	14	10	40	0.4	TC..1102
	STSCR-12CA-16	47	57.0	27	20	12	50	0.8	TC..16T3

•長度單位 Unit of Length (mm)

DR 碳化鎢鋼出水鑽頭

DR TUNGSTEN CARBIDE DRILL

Feature

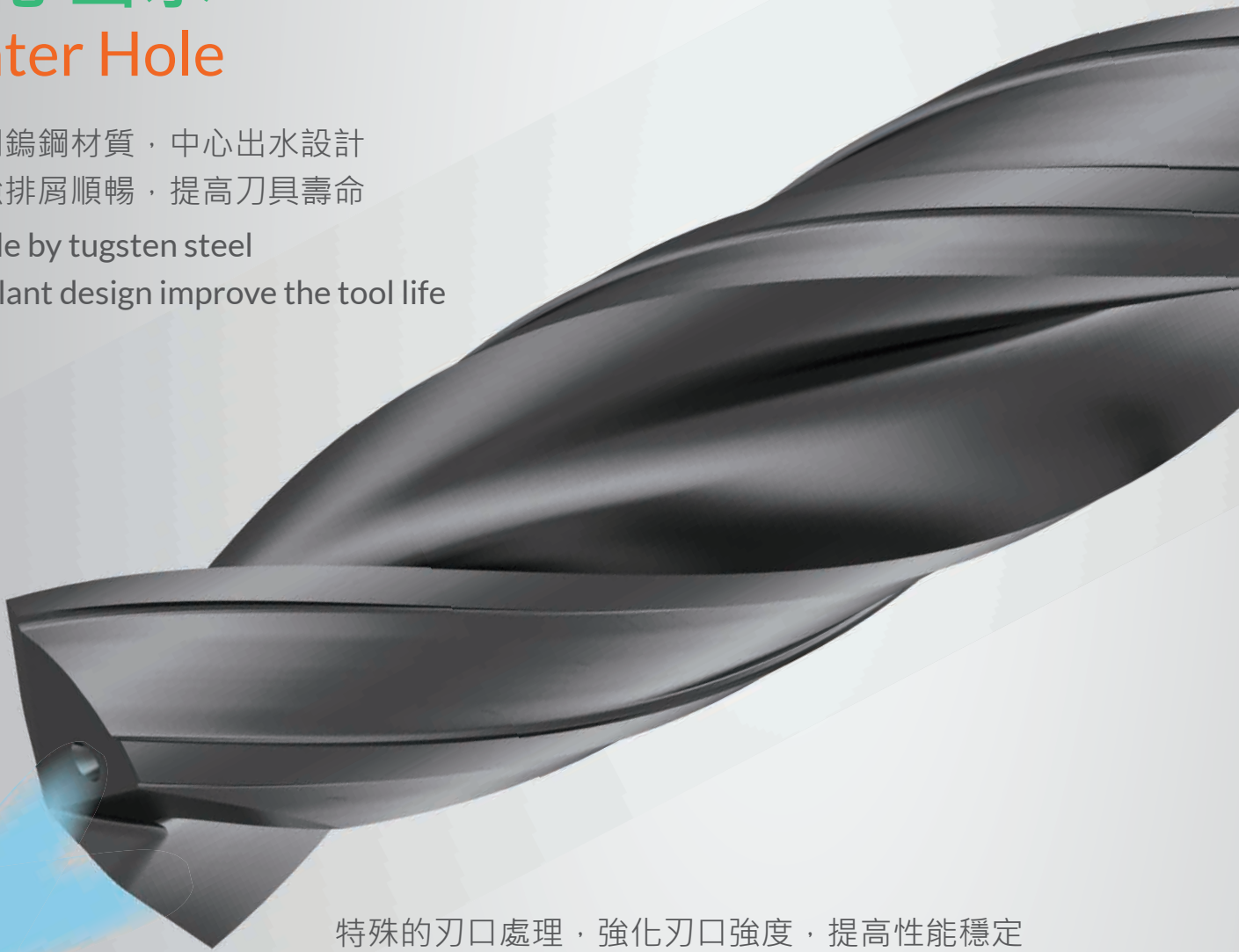
中心出水

Water Hole

採用鎢鋼材質，中心出水設計
加強排屑順暢，提高刀具壽命

Made by tungsten steel

Coolant design improve the tool life



特殊的刃口處理，強化刃口強度，提高性能穩定
Special treated drill edge has high strength and stability.

採用TiAlN塗層，具有良好的抗氧化性，耐磨性高
TiAlN coating prevent rust and act as a wear resistance.

獨特槽型設計，具有優良的排屑效果
Unique design with excellent chip removal effect.

Carbide Drill

記號 Symbol	被加工材質 Machining Material
DR20P	一般鋼 P-Alloyed Steels
DR30M	不鏽鋼 M-Stainless Steels
DR40K	鑄鐵 K-Cast Iron
DR50N	非鐵合金 N-Aluminum &Al
DR60S	高溫合金 S-Refractory Alloys
DR70H	高硬度 H-Hard Material

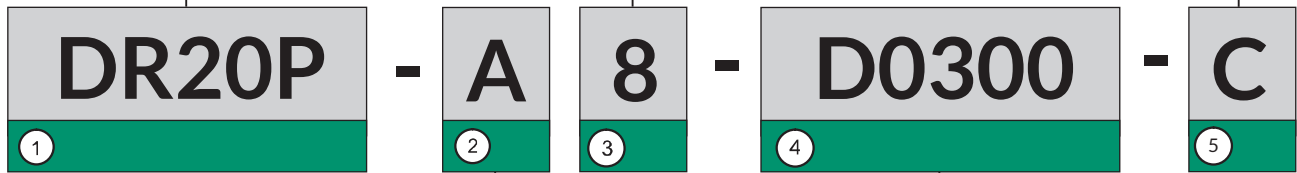
① 類別
Category

記號 Symbol	深度 Depth
3	≤ 3xD
5	≤ 5xD
8	≤ 8xD
12	≤ 12xD
15	≤ 15xD

③ 鑽孔深度
Drilling Depth

記號 Symbol	功能 Function
C	內部給水 Internal Coolant
N	外部給水 External Coolant

⑤ 冷卻方式
Coolant Way



② 柄徑形式 Shank Style	
記號 Symbol	形式 STYLE
A	直柄 DIN-6535HA Straight Shank DIN-6535HA
B	削平柄 DIN-6535HB Flatted Shank DIN-6535HB
E	斜削柄 DIN-6535HE Bevel Shank DIN-6535HE
M	莫氏錐度 MT Morse MT

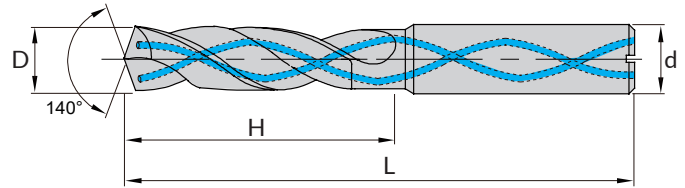
④ 刃徑 EDGE DIAMETER	
記號 Symbol	刃徑 EDGE DIAMETER
D	

DR20P-A5-C 碳化鎢鋼出水鑽頭 (DX5)

DR SOLID CARBIDE DRILL WITH INTERNAL COOLANT



KOVIT



先端角

140°

Spiral Pointed Angle

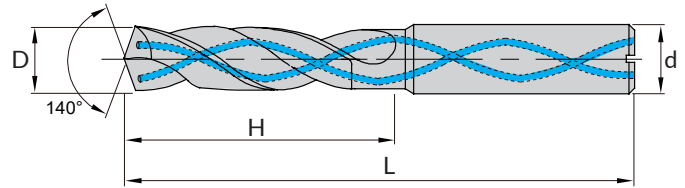
加工類型



Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR20P-A5-D0300-C	66	3	6	28	2	-
DR20P-A5-D0310-C	66	3.1	6	28	2	-
DR20P-A5-D0320-C	66	3.2	6	28	2	-
DR20P-A5-D0330-C	66	3.3	6	28	2	-
DR20P-A5-D0340-C	66	3.4	6	28	2	0.02
DR20P-A5-D0350-C	66	3.5	6	28	2	0.02
DR20P-A5-D0360-C	66	3.6	6	28	2	0.02
DR20P-A5-D0370-C	66	3.7	6	28	2	0.02
DR20P-A5-D0380-C	74	3.8	6	36	2	0.02
DR20P-A5-D0390-C	74	3.9	6	36	2	0.02
DR20P-A5-D0400-C	74	4	6	36	2	0.02
DR20P-A5-D0410-C	74	4.1	6	36	2	0.02
DR20P-A5-D0420-C	74	4.2	6	36	2	0.02
DR20P-A5-D0430-C	74	4.3	6	36	2	0.02
DR20P-A5-D0440-C	74	4.4	6	36	2	0.02
DR20P-A5-D0450-C	74	4.5	6	36	2	0.02
DR20P-A5-D0460-C	74	4.6	6	36	2	0.02
DR20P-A5-D0465-C	74	4.65	6	36	2	0.02
DR20P-A5-D0470-C	74	4.7	6	36	2	0.02
DR20P-A5-D0480-C	82	4.8	6	44	2	0.03
DR20P-A5-D0490-C	82	4.9	6	44	2	0.03
DR20P-A5-D0500-C	82	5	6	44	2	0.03
DR20P-A5-D0510-C	82	5.1	6	44	2	0.03
DR20P-A5-D0520-C	82	5.2	6	44	2	0.03
DR20P-A5-D0530-C	82	5.3	6	44	2	0.03
DR20P-A5-D0540-C	82	5.4	6	44	2	0.03
DR20P-A5-D0550-C	82	5.5	6	44	2	0.03
DR20P-A5-D0555-C	82	5.55	6	44	2	0.03
DR20P-A5-D0560-C	82	5.6	6	44	2	0.03
DR20P-A5-D0570-C	82	5.7	6	44	2	0.03
DR20P-A5-D0580-C	82	5.8	6	44	2	0.03
DR20P-A5-D0590-C	82	5.9	6	44	2	0.03
DR20P-A5-D0600-C	82	6	6	44	2	0.03
DR20P-A5-D0610-C	91	6.1	6	53	2	-
DR20P-A5-D0620-C	91	6.2	8	53	2	0.04

•長度單位 Unit of Length (mm)

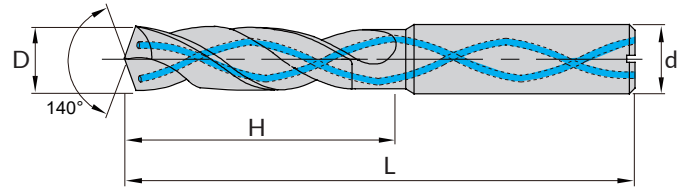


先端角
140°
Spiral Pointed Angle

加工類型
P M K
Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR20P-A5-D0630-C	91	6.3	8	53	2	0.04
DR20P-A5-D0640-C	91	6.4	8	53	2	0.04
DR20P-A5-D0650-C	91	6.5	8	53	2	0.04
DR20P-A5-D0660-C	91	6.6	8	53	2	-
DR20P-A5-D0670-C	91	6.7	8	53	2	-
DR20P-A5-D0680-C	91	6.8	8	53	2	0.05
DR20P-A5-D0690-C	91	6.9	8	53	2	0.05
DR20P-A5-D0700-C	91	7	8	53	2	0.05
DR20P-A5-D0710-C	91	7.1	8	53	2	0.05
DR20P-A5-D0720-C	91	7.2	8	53	2	0.05
DR20P-A5-D0730-C	91	7.3	8	53	2	0.05
DR20P-A5-D0740-C	91	7.4	8	53	2	0.05
DR20P-A5-D0745-C	91	7.45	8	53	2	0.05
DR20P-A5-D0750-C	91	7.5	8	53	2	0.05
DR20P-A5-D0760-C	91	7.6	8	53	2	0.05
DR20P-A5-D0770-C	91	7.7	8	53	2	0.05
DR20P-A5-D0780-C	91	7.8	8	53	2	0.05
DR20P-A5-D0790-C	91	7.9	8	53	2	0.05
DR20P-A5-D0800-C	91	8	8	53	2	0.05
DR20P-A5-D0810-C	103	8.1	10	61	2	0.08
DR20P-A5-D0820-C	103	8.2	10	61	2	0.08
DR20P-A5-D0830-C	103	8.3	10	61	2	0.08
DR20P-A5-D0840-C	103	8.4	10	61	2	0.08
DR20P-A5-D0850-C	103	8.5	10	61	2	0.08
DR20P-A5-D0860-C	103	8.6	10	61	2	0.08
DR20P-A5-D0870-C	103	8.7	10	61	2	0.08
DR20P-A5-D0880-C	103	8.8	10	61	2	0.08
DR20P-A5-D0890-C	103	8.9	10	61	2	0.08
DR20P-A5-D0900-C	103	9	10	61	2	0.08
DR20P-A5-D0910-C	103	9.1	10	61	2	0.08
DR20P-A5-D0920-C	103	9.2	10	61	2	0.08
DR20P-A5-D0930-C	103	9.3	10	61	2	0.08
DR20P-A5-D0935-C	103	9.35	10	61	2	0.08
DR20P-A5-D0940-C	103	9.4	10	61	2	0.09

•長度單位 Unit of Length (mm)



先端角

140°

Spiral Pointed Angle

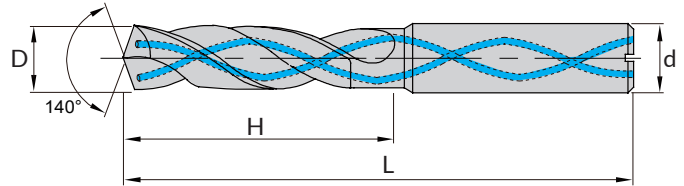
加工類型



Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR20P-A5-D0950-C	103	9.5	10	61	2	0.09
DR20P-A5-D0960-C	103	9.6	10	61	2	0.09
DR20P-A5-D0970-C	103	9.7	10	61	2	0.09
DR20P-A5-D0980-C	103	9.8	10	61	2	0.09
DR20P-A5-D0990-C	103	9.9	10	61	2	0.09
DR20P-A5-D1000-C	103	10	10	61	2	0.09
DR20P-A5-D1010-C	118	10.1	12	71	2	-
DR20P-A5-D1020-C	118	10.2	12	71	2	0.13
DR20P-A5-D1030-C	118	10.3	12	71	2	0.13
DR20P-A5-D1040-C	118	10.4	12	71	2	0.13
DR20P-A5-D1050-C	118	10.5	12	71	2	0.13
DR20P-A5-D1060-C	118	10.6	12	71	2	0.13
DR20P-A5-D1070-C	118	10.7	12	71	2	0.13
DR20P-A5-D1080-C	118	10.8	12	71	2	0.13
DR20P-A5-D1090-C	118	10.9	12	71	2	0.13
DR20P-A5-D1100-C	118	11	12	71	2	0.13
DR20P-A5-D1110-C	118	11.1	12	71	2	0.13
DR20P-A5-D1120-C	118	11.2	12	71	2	0.14
DR20P-A5-D1130-C	118	11.3	12	71	2	0.14
DR20P-A5-D1140-C	118	11.4	12	71	2	0.14
DR20P-A5-D1150-C	118	11.5	12	71	2	0.14
DR20P-A5-D1160-C	118	11.6	12	71	2	0.14
DR20P-A5-D1170-C	118	11.7	12	71	2	0.14
DR20P-A5-D1180-C	118	11.8	12	71	2	0.14
DR20P-A5-D1190-C	118	11.9	12	71	2	0.14
DR20P-A5-D1200-C	118	12	12	71	2	-
DR20P-A5-D1250-C	124	12.5	14	77	2	0.18
DR20P-A5-D1300-C	124	13	14	77	2	0.19
DR20P-A5-D1350-C	124	13.5	14	77	2	0.2
DR20P-A5-D1400-C	124	14	14	77	2	0.2
DR20P-A5-D1450-C	133	14.5	16	83	2	-
DR20P-A5-D1500-C	133	15	16	83	2	-
DR20P-A5-D1550-C	133	15.5	16	83	2	-

•長度單位 Unit of Length (mm)

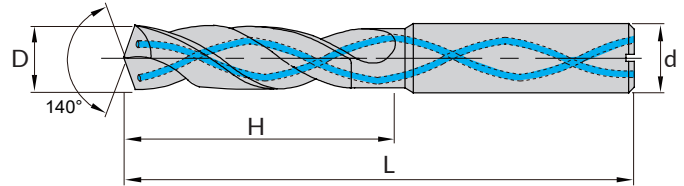


先端角
140°
Spiral Pointed Angle

加工類型
P M K
Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR20P-A8-D0300-C	72	3	6	34	2	-
DR20P-A8-D0310-C	72	3.1	6	34	2	-
DR20P-A8-D0320-C	72	3.2	6	34	2	-
DR20P-A8-D0330-C	72	3.3	6	34	2	-
DR20P-A8-D0340-C	72	3.4	6	34	2	0.02
DR20P-A8-D0350-C	72	3.5	6	34	2	0.02
DR20P-A8-D0360-C	72	3.6	6	34	2	0.02
DR20P-A8-D0370-C	72	3.7	6	34	2	0.02
DR20P-A8-D0380-C	81	3.8	6	43	2	0.02
DR20P-A8-D0390-C	81	3.9	6	43	2	0.02
DR20P-A8-D0400-C	81	4	6	43	2	0.02
DR20P-A8-D0410-C	81	4.1	6	43	2	0.02
DR20P-A8-D0420-C	81	4.2	6	43	2	0.02
DR20P-A8-D0430-C	81	4.3	6	43	2	0.02
DR20P-A8-D0440-C	81	4.4	6	43	2	-
DR20P-A8-D0450-C	81	4.5	6	43	2	-
DR20P-A8-D0460-C	81	4.6	6	43	2	-
DR20P-A8-D0470-C	81	4.7	6	43	2	-
DR20P-A8-D0480-C	95	4.8	6	57	2	-
DR20P-A8-D0490-C	95	4.9	6	57	2	-
DR20P-A8-D0500-C	95	5	6	57	2	0.03
DR20P-A8-D0510-C	95	5.1	6	57	2	-
DR20P-A8-D0520-C	95	5.2	6	57	2	-
DR20P-A8-D0530-C	95	5.3	6	57	2	-
DR20P-A8-D0540-C	95	5.4	6	57	2	-
DR20P-A8-D0550-C	95	5.5	6	57	2	-
DR20P-A8-D0560-C	95	5.6	6	57	2	-
DR20P-A8-D0570-C	95	5.7	6	57	2	-
DR20P-A8-D0580-C	95	5.8	6	57	2	-
DR20P-A8-D0590-C	95	5.9	6	57	2	-
DR20P-A8-D0600-C	95	6	6	57	2	-
DR20P-A8-D0610-C	114	6.1	8	76	2	-
DR20P-A8-D0620-C	114	6.2	8	76	2	-

•長度單位 Unit of Length (mm)



先端角

140°

Spiral Pointed Angle

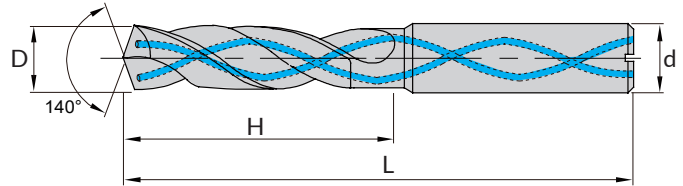
加工類型



Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR20P-A8-D0630-C	114	6.3	8	76	2	-
DR20P-A8-D0640-C	114	6.4	8	76	2	-
DR20P-A8-D0650-C	114	6.5	8	76	2	-
DR20P-A8-D0660-C	114	6.6	8	76	2	-
DR20P-A8-D0670-C	114	6.7	8	76	2	-
DR20P-A8-D0680-C	114	6.8	8	76	2	-
DR20P-A8-D0690-C	114	6.9	8	76	2	-
DR20P-A8-D0700-C	114	7	8	76	2	-
DR20P-A8-D0710-C	114	7.1	8	76	2	-
DR20P-A8-D0720-C	114	7.2	8	76	2	-
DR20P-A8-D0730-C	114	7.3	8	76	2	-
DR20P-A8-D0740-C	114	7.4	8	76	2	-
DR20P-A8-D0750-C	114	7.5	8	76	2	-
DR20P-A8-D0760-C	114	7.6	8	76	2	-
DR20P-A8-D0770-C	114	7.7	8	76	2	-
DR20P-A8-D0780-C	114	7.8	8	76	2	-
DR20P-A8-D0790-C	114	7.9	8	76	2	-
DR20P-A8-D0800-C	114	8	8	76	2	-
DR20P-A8-D0810-C	142	8.1	10	95	2	-
DR20P-A8-D0820-C	142	8.2	10	95	2	-
DR20P-A8-D0830-C	142	8.3	10	95	2	0.09
DR20P-A8-D0840-C	142	8.4	10	95	2	-
DR20P-A8-D0850-C	142	8.5	10	95	2	-
DR20P-A8-D0860-C	142	8.6	10	95	2	-
DR20P-A8-D0870-C	142	8.7	10	95	2	-
DR20P-A8-D0880-C	142	8.8	10	95	2	-
DR20P-A8-D0890-C	142	8.9	10	95	2	-
DR20P-A8-D0900-C	142	9	10	95	2	-
DR20P-A8-D0910-C	142	9.1	10	95	2	-
DR20P-A8-D0920-C	142	9.2	10	95	2	-
DR20P-A8-D0930-C	142	9.3	10	95	2	-
DR20P-A8-D0935-C	142	9.35	10	95	2	-
DR20P-A8-D0940-C	142	9.4	10	95	2	-

•長度單位 Unit of Length (mm)



先端角
140°
Spiral Pointed Angle

加工類型
P M K
Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR20P-A8-D0950-C	142	9.5	10	95	2	0.1
DR20P-A8-D0960-C	142	9.6	10	95	2	0.1
DR20P-A8-D0970-C	142	9.7	10	95	2	0.1
DR20P-A8-D0980-C	142	9.8	10	95	2	-
DR20P-A8-D0990-C	142	9.9	10	95	2	-
DR20P-A8-D1000-C	142	10	10	95	2	-
DR20P-A8-D1010-C	162	10.1	12	114	2	-
DR20P-A8-D1020-C	162	10.2	12	114	2	-
DR20P-A8-D1030-C	162	10.3	12	114	2	-
DR20P-A8-D1050-C	162	10.5	12	114	2	-
DR20P-A8-D1080-C	162	10.8	12	114	2	-
DR20P-A8-D1100-C	162	11	12	114	2	-
DR20P-A8-D1120-C	162	11.2	12	114	2	-
DR20P-A8-D1150-C	162	11.5	12	114	2	-
DR20P-A8-D1160-C	162	11.6	12	114	2	-
DR20P-A8-D1180-C	162	11.8	12	114	2	-
DR20P-A8-D1200-C	162	12	12	114	2	-
DR20P-A8-D1250-C	182	12.5	14	133	2	-
DR20P-A8-D1300-C	182	13	14	133	2	-
DR20P-A8-D1350-C	182	13.5	14	133	2	-
DR20P-A8-D1400-C	182	14	14	133	2	-
DR20P-A8-D1450-C	203	14.5	16	152	2	-
DR20P-A8-D1500-C	203	15	16	152	2	-
DR20P-A8-D1550-C	203	15.5	16	152	2	-
DR20P-A8-D1600-C	203	16	16	152	2	-

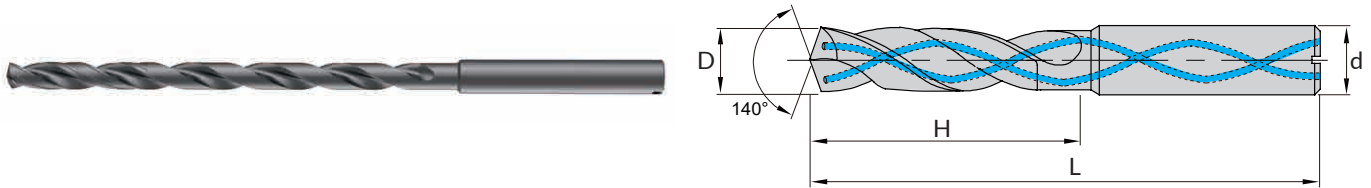
•長度單位 Unit of Length (mm)

DR20P-A12-C 碳化鎢鋼出水鑽頭 (DX12)

DR SOLID CARBIDE DRILL WITH INTERNAL COOLANT



KOVIT



先端角

135°

Spiral Pointed Angle

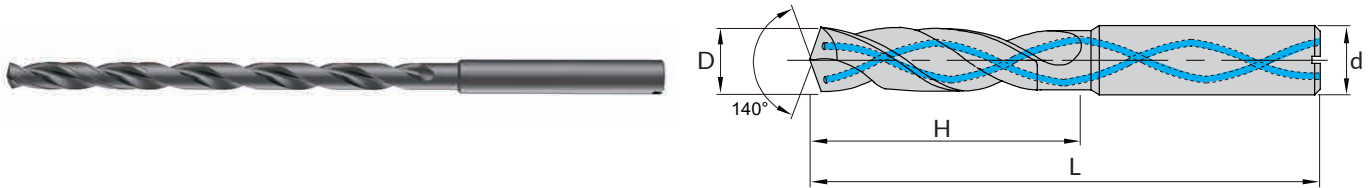
加工類型

P M K

Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR20P-A12-D0300-C	90	3	6	50	2	-
DR20P-A12-D0350-C	92	3.5	6	54	2	-
DR20P-A12-D0400-C	102	4	6	64	2	-
DR20P-A12-D0450-C	102	4.5	6	64	2	-
DR20P-A12-D0500-C	121	5	6	83	2	0.03
DR20P-A12-D0550-C	121	5.5	6	83	2	-
DR20P-A12-D0600-C	121	6	6	83	2	0.04
DR20P-A12-D0620-C	148	6.2	8	110	2	-
DR20P-A12-D0650-C	148	6.5	8	110	2	-
DR20P-A12-D0700-C	148	7	8	110	2	-
DR20P-A12-D0750-C	148	7.5	8	110	2	-
DR20P-A12-D0800-C	148	8	8	110	2	-
DR20P-A12-D0830-C	180	8.3	10	138	2	-
DR20P-A12-D0850-C	180	8.5	10	138	2	-
DR20P-A12-D0900-C	180	9	10	138	2	-
DR20P-A12-D0950-C	180	9.5	10	138	2	-
DR20P-A12-D1000-C	180	10	10	138	2	-
DR20P-A12-D1100-C	206	11	12	158	2	-
DR20P-A12-D1200-C	206	12	12	158	2	-

•長度單位 Unit of Length (mm)

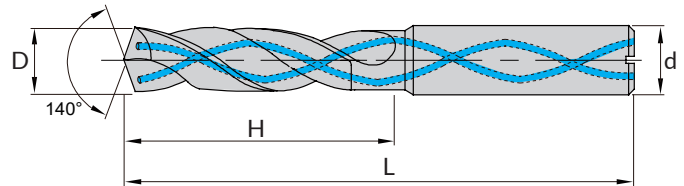


先端角
140°
Spiral Pointed Angle

加工類型
P M K
Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR20P-A15-D0300-C	95	3	6	55	2	-
DR20P-A15-D0350-C	116	3.5	6	76	2	-
DR20P-A15-D0400-C	116	4	6	76	2	-
DR20P-A15-D0450-C	133	4.5	6	93	2	-
DR20P-A15-D0500-C	133	5	6	93	2	-
DR20P-A15-D0550-C	150	5.5	6	110	2	-
DR20P-A15-D0600-C	150	6	6	110	2	-
DR20P-A15-D0620-C	167	6.2	8	127	2	-
DR20P-A15-D0650-C	167	6.5	8	127	2	-
DR20P-A15-D0700-C	167	7	8	127	2	-
DR20P-A15-D0750-C	183	7.5	8	143	2	-
DR20P-A15-D0800-C	183	8	8	143	2	-
DR20P-A15-D0830-C	204	8.3	10	160	2	-
DR20P-A15-D0850-C	204	8.5	10	160	2	-
DR20P-A15-D0900-C	204	9	10	160	2	-
DR20P-A15-D0950-C	221	9.5	10	177	2	-
DR20P-A15-D1000-C	221	10	10	177	2	-
DR20P-A15-D1100-C	247	11	12	198	2	-
DR20P-A15-D1200-C	263	12	12	214	2	-

•長度單位 Unit of Length (mm)



先端角

140°

Spiral Pointed Angle

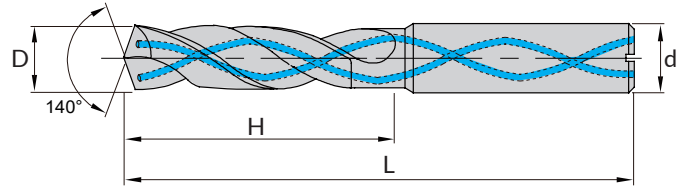
加工類型

M S

Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR30M-A5-D0500-C	82	5	6	44	2	-
DR30M-A5-D0510-C	82	5.1	6	44	2	-
DR30M-A5-D0520-C	82	5.2	6	44	2	-
DR30M-A5-D0550-C	82	5.5	6	44	2	-
DR30M-A5-D0555-C	82	5.55	6	44	2	-
DR30M-A5-D0580-C	82	5.8	6	44	2	-
DR30M-A5-D0600-C	82	6	6	44	2	-
DR30M-A5-D0610-C	91	6.1	6	53	2	-
DR30M-A5-D0620-C	91	6.2	8	53	2	-
DR30M-A5-D0630-C	91	6.3	8	53	2	-
DR30M-A5-D0650-C	91	6.5	8	53	2	-
DR30M-A5-D0660-C	91	6.6	8	53	2	-
DR30M-A5-D0680-C	91	6.8	8	53	2	-
DR30M-A5-D0690-C	91	6.9	8	53	2	-
DR30M-A5-D0700-C	91	7	8	53	2	-
DR30M-A5-D0710-C	91	7.1	8	53	2	-
DR30M-A5-D0740-C	91	7.4	8	53	2	-
DR30M-A5-D0750-C	91	7.5	8	53	2	-
DR30M-A5-D0780-C	91	7.8	8	53	2	-
DR30M-A5-D0800-C	91	8	8	53	2	-
DR30M-A5-D0810-C	103	8.1	10	61	2	-
DR30M-A5-D0840-C	103	8.4	10	61	2	-
DR30M-A5-D0850-C	103	8.5	10	61	2	-
DR30M-A5-D0860-C	103	8.6	10	61	2	-
DR30M-A5-D0870-C	103	8.7	10	61	2	-
DR30M-A5-D0880-C	103	8.8	10	61	2	-
DR30M-A5-D0900-C	103	9	10	61	2	-

•長度單位 Unit of Length (mm)



先端角
140°
Spiral Pointed Angle

加工類型
M S
Cutting Material

規格 Spec.	L	D	d	H	T	重量 (KGS) Weight
DR30M-A5-D0930-C	103	9.3	10	61	2	-
DR30M-A5-D0950-C	103	9.5	10	61	2	-
DR30M-A5-D0960-C	103	9.6	10	61	2	-
DR30M-A5-D0980-C	103	9.8	10	61	2	-
DR30M-A5-D1000-C	103	10	10	61	2	-
DR30M-A5-D1025-C	118	10.25	12	71	2	-
DR30M-A5-D1050-C	118	10.5	12	71	2	-
DR30M-A5-D1060-C	118	10.6	12	71	2	-
DR30M-A5-D1080-C	118	10.8	12	71	2	-
DR30M-A5-D1100-C	118	11	12	71	2	-
DR30M-A5-D1120-C	118	11.2	12	71	2	-
DR30M-A5-D1150-C	118	11.5	12	71	2	-
DR30M-A5-D1180-C	118	11.8	12	71	2	-
DR30M-A5-D1190-C	118	11.9	12	71	2	-
DR30M-A5-D1200-C	118	12	12	71	2	-
DR30M-A5-D1250-C	124	12.5	14	77	2	-
DR30M-A5-D1300-C	124	13	14	77	2	-
DR30M-A5-D1350-C	124	13.5	14	77	2	-
DR30M-A5-D1400-C	124	14	14	77	2	-
DR30M-A5-D1450-C	133	14.5	16	83	2	-
DR30M-A5-D1500-C	133	15	16	83	2	-
DR30M-A5-D1550-C	133	15.5	16	83	2	-

•長度單位 Unit of Length (mm)



DR20P-A5C

	被加工材質 Machining Materials	切削速度 Speed V _C (m/min)	進給率 (mm/rev)						
			Ø3	Ø4	Ø6	Ø8	Ø10	Ø12	Ø16
P	合金鋼 Alloyed Steels	80 (60~110)	0.13 (0.09-0.16)	0.17 (0.12-0.23)	0.20 (0.14-0.28)	0.20 (0.14-0.28)	0.20 (0.14-0.30)	0.23 (0.15-0.32)	0.25 (0.18-0.35)
M	不鏽鋼 Stainless Steels	50 (40~60)	0.06 (0.04-0.08)	0.06 (0.04-0.08)	0.08 (0.06-0.10)	0.08 (0.06-0.10)	0.10 (0.08-0.12)	0.10 (0.08-0.12)	0.12 (0.10-0.14)
K	鑄鐵 Cast Iron	100 (60~140)	0.15 (0.11-0.18)	0.17 (0.13-0.20)	0.20 (0.15-0.25)	0.25 (0.17-0.32)	0.28 (0.20-0.36)	0.30 (0.22-0.42)	0.35 (0.25-0.45)

DR20P-A8C

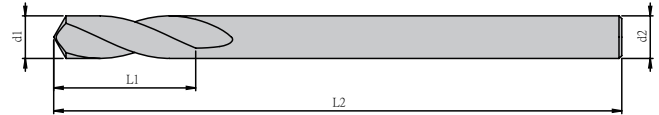
	被加工材質 Machining Materials	切削速度 Speed V _C (m/min)	進給率 (mm/rev)						
			Ø3	Ø4	Ø6	Ø8	Ø10	Ø12	Ø16
P	合金鋼 Alloyed Steels	80 (60~110)	0.13 (0.09-0.16)	0.17(0.12- 0.23)	0.20 (0.14-0.28)	0.20 (0.14-0.28)	0.20 (0.14-0.30)	0.23 (0.15-0.32)	0.25 (0.18-0.35)
M	不鏽鋼 Stainless Steels	50 (40~60)	0.06 (0.04-0.08)	0.06(0.04- 0.08)	0.08 (0.06-0.10)	0.08 (0.06-0.10)	0.10 (0.08-0.12)	0.10 (0.08-0.12)	0.12 (0.10-0.14)
K	鑄鐵 Cast Iron	100 (60~140)	0.15 (0.11-0.18)	0.17(0.13- 0.20)	0.20 (0.15-0.25)	0.25 (0.17-0.32)	0.28 (0.20-0.36)	0.30 (0.22-0.42)	0.35 (0.25-0.45)

DR20P-A12C/15C

	被加工材質 Machining Materials	切削速度 Speed V _C (m/min)	進給率 (mm/rev)						
			Ø3	Ø4	Ø6	Ø8	Ø10	Ø12	Ø16
P	合金鋼 Alloyed Steels	80 (60~110)	0.13 (0.09-0.16)	0.17 (0.12-0.23)	0.20 (0.14-0.28)	0.20 (0.14-0.28)	0.20 (0.14-0.30)	0.23 (0.15-0.32)	0.25 (0.18-0.35)
M	不鏽鋼 Stainless Steels	50 (40~60)	0.06 (0.04-0.08)	0.06 (0.04-0.08)	0.08 (0.06-0.10)	0.08 (0.06-0.10)	0.10 (0.08-0.12)	0.10 (0.08-0.12)	0.12 (0.10-0.14)
K	鑄鐵 Cast Iron	100 (60~140)	0.15 (0.11-0.18)	0.17 (0.13-0.20)	0.20 (0.15-0.25)	0.25 (0.17-0.32)	0.28 (0.20-0.36)	0.30 (0.22-0.42)	0.35 (0.25-0.45)

DR30M-A5C

	被加工材質 Machining Materials	切削速度 Speed V _C (m/min)	進給率 (mm/rev)						
			Ø3	Ø4	Ø6	Ø8	Ø10	Ø12	Ø16
M	不鏽鋼 Stainless Steels	60 (40~80)	0.08 (0.04-0.10)	0.08 (0.06-0.10)	0.08 (0.06-0.12)	0.10 (0.08-0.14)	0.12 (0.10-0.18)	0.14 (0.10-0.18)	0.25 (0.18-0.35)
S	高溫合金 Refractory Alloys	35 (20~50)	0.06 (0.04-0.08)	0.08 (0.05-0.10)	0.09 (0.06-0.12)	0.10 (0.08-0.12)	0.12 (0.10-0.16)	0.14 (0.10-0.18)	0.12 (0.10-0.14)



特點 Feature

- 工件導引孔定位用，兼具倒角功能
- 適用在車床、銑床
- 提供60度、90度、120度，不同選擇

- Ideal for spotting and chamfering.
- Applicable for lathe and milling machines.
- Offer 60°, 90° and 120°.

規格 Spec.	D	L1	L2	柄徑 d	角度 Angle	加工材質 Materials
DR10U-D030-90	3	10	40	3	90	泛用型
DR10U-D040-90	4	12	50	4	90	
DR10U-D050-90	5	15	50	5	90	
DR10U-D060-90	6	20	50	6	90	
DR10U-D080-90	8	25	60	8	90	
DR10U-D100-90	10	25	75	10	90	
DR10U-D120-90	12	30	75	12	90	
DR10U-D030-120	3	10	40	3	120	
DR10U-D040-120	4	12	50	4	120	
DR10U-D050-120	5	15	50	5	120	
DR10U-D060-120	6	20	50	6	120	
DR10U-D080-120	8	25	60	8	120	
DR10U-D100-120	10	25	750	10	120	
DR10U-D120-120	12	30	75	12	120	
DR10U-D030-60	3	10	40	3	60	
DR10U-D040-60	4	12	50	4	60	
DR10U-D050-60	5	15	50	5	60	
DR10U-D060-60	6	20	50	6	60	
DR10U-D080-60	8	25	60	8	60	
DR10U-D100-60	10	25	750	10	60	
DR10U-D120-60	12	30	75	12	60	

被加工材質 Machining Materials		切削速度 Speed V _C (m/min)	進給率 (mm/rev)					
			ψ3	ψ4	ψ6	ψ8	ψ10	ψ12
P	合金鋼 Alloyed Steels	40-85	0.04~0.08	0.05~0.12	0.06~0.13	0.08~0.16	0.1~0.2	0.15~0.25
K	鑄鐵 Cast Iron	65-100	0.05~0.09	0.07~0.15	0.12~0.2	0.15~0.2	0.10~0.25	0.20~0.30
H (HRC38-48)	高硬度材 Hard Material	15-25	0.04~0.08	0.05~0.12	0.06~0.13	0.08~0.16	0.1~0.2	0.15~0.25

•長度單位 Unit of Length (mm)

STM

抑震錐固型鎖牙系列



錐型鎖固
無空隙、精度高
Perfect fit, high precision with the tapered locking

T型牙鎖固
鎖固力好
T-type locking strengthens the locking force

制震環支撐
穩定性好
Shock ring support increases the stability.



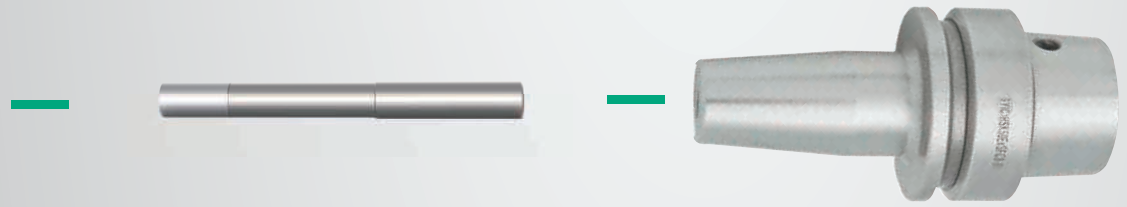
雙面搨束、錐度貼合、軸徑向精度提升
Double-sided truss, taper fit, better Axial and radial direction accuracy



牙底圓弧設計 降低集中應力
Bottom arc design reduces concentrated stress



柔性支撐貼合、有效吸震
Flexible support fit, effective shock absorption



C/TM錐固型鎖牙式鎢鋼延長桿
C/tm Straight Shank Tungsten Carbide Extension Shank

SFC燒結式刀桿
Sintered Shank



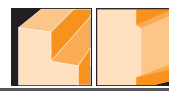
SFS後拉式鎖牙延長桿
Rear Pull Lock Cylinder Extension Shank

SFS後拉式刀桿
Rear Pull shank chuck

Shock Absorption
Tapered Locking System

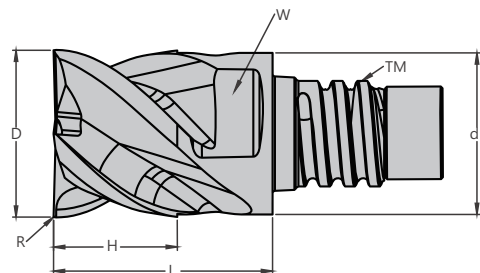


STM 抑震錐固型鎖牙式銑刀 STM INTERCHANGEABLE SOLID CARBIDE ENDMILL HEAD



KOVIT

NEW



規格 Spec.	L	D	d	H	r	T	θ	TM	W	重量 (KGS) Weight
STM45-10-STM6-13L	13	10	9.6	7	0	4	45°	TM6	TM6-W	0.01

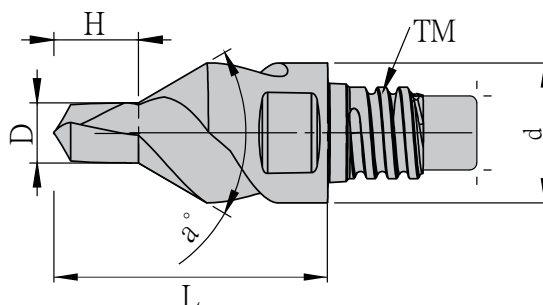
	被加工材質 Machining Materials	切削速度 Speed	每刃進給
		V_C (m/min)	F_z (m/rev)
P	合金鋼 Alloyed Steels	50~140	0.05~0.2
M	不鏽鋼 Stainless Steels	80~120	0.05~0.1
K	鑄鐵 Cast Iron	80~250	0.1~0.2



STM 抑震錐固型鎖牙式中心鑽 STM INTERCHANGEABLE SOLID CARBIDE CENTER DRILL

KOVIT

NEW



規格 Spec.	D	d	H	L	TM	ϕ°
STM60-41-STM6-19L	4.1	10	5.9	19	TM6	60

	被加工材質 Machining Materials	切削速度 Speed	每刃進給
		V_C (m/min)	F_z (m/rev)
P	合金鋼 Alloyed Steels	50~140	0.05~0.12
M	不鏽鋼 Stainless Steels	80~120	0.05~0.08
K	鑄鐵 Cast Iron	80~250	0.1~0.15

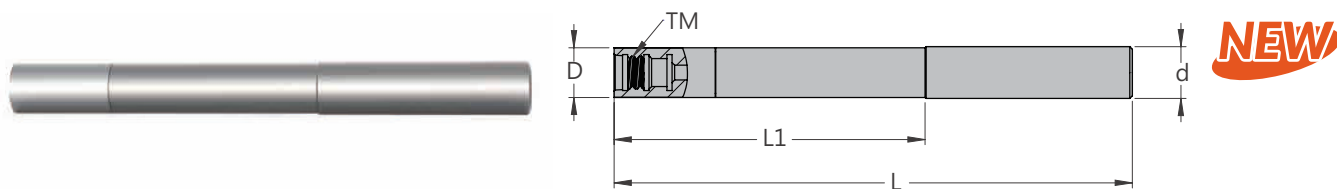
•長度單位 Unit of Length (mm)



C/STM 錐固型鎖牙式鎢鋼延長桿

C/TM STRAIGHT SOILD CARBIDE EXTENSION SHANK

KOVIT



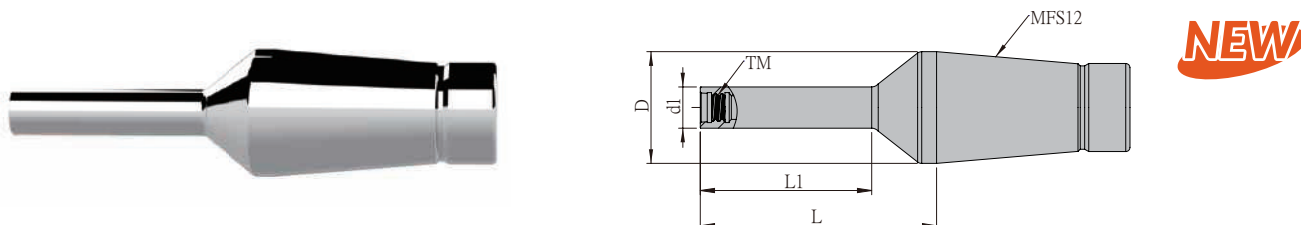
規格 Spec.	L	D	d	L1	TM	重量 (KGS) Weight
C10-STM6-100	100	10	9.6	7	TM6	0.1



SFS 後拉式鎖牙延長桿

SFS REAR PULL LOCK THREADED EXTENSION SHANK

KOVIT



特點 Feature

- 材質：合金鋼
- 需搭配 SFS 後拉式立銼刀夾頭做使用

- Material: SNCM220
- Need to be used with SFS slim-fit collet chuck.

規格 Spec.	L	D	d	L1	TM	重量 (KGS) Weight
SFS12-STM6-55	55	26	9.6	40	TM6	0.18

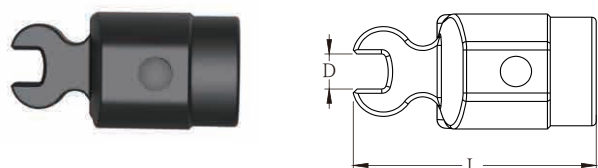


STM6 開口型扭力扳手頭

STM6 SPANNER HEAD

KOVIT

NEW



規格 Spec.	L	D	扭力值 (N.m) Torque	重量 (KGS) Weight
STM6-LH	55	8	10	0.12

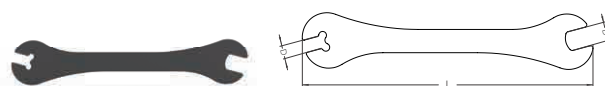


TM6 開口扳手

TM6 SPANNER

KOVIT

NEW



規格 Spec.	L	D	重量 (KGS) Weight
TM6-W	125	8	0.03

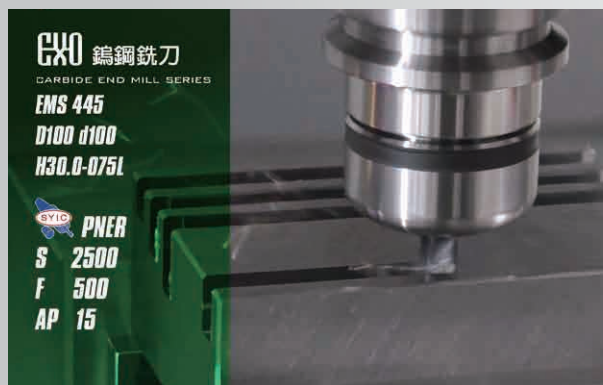
•長度單位 Unit of Length (mm)



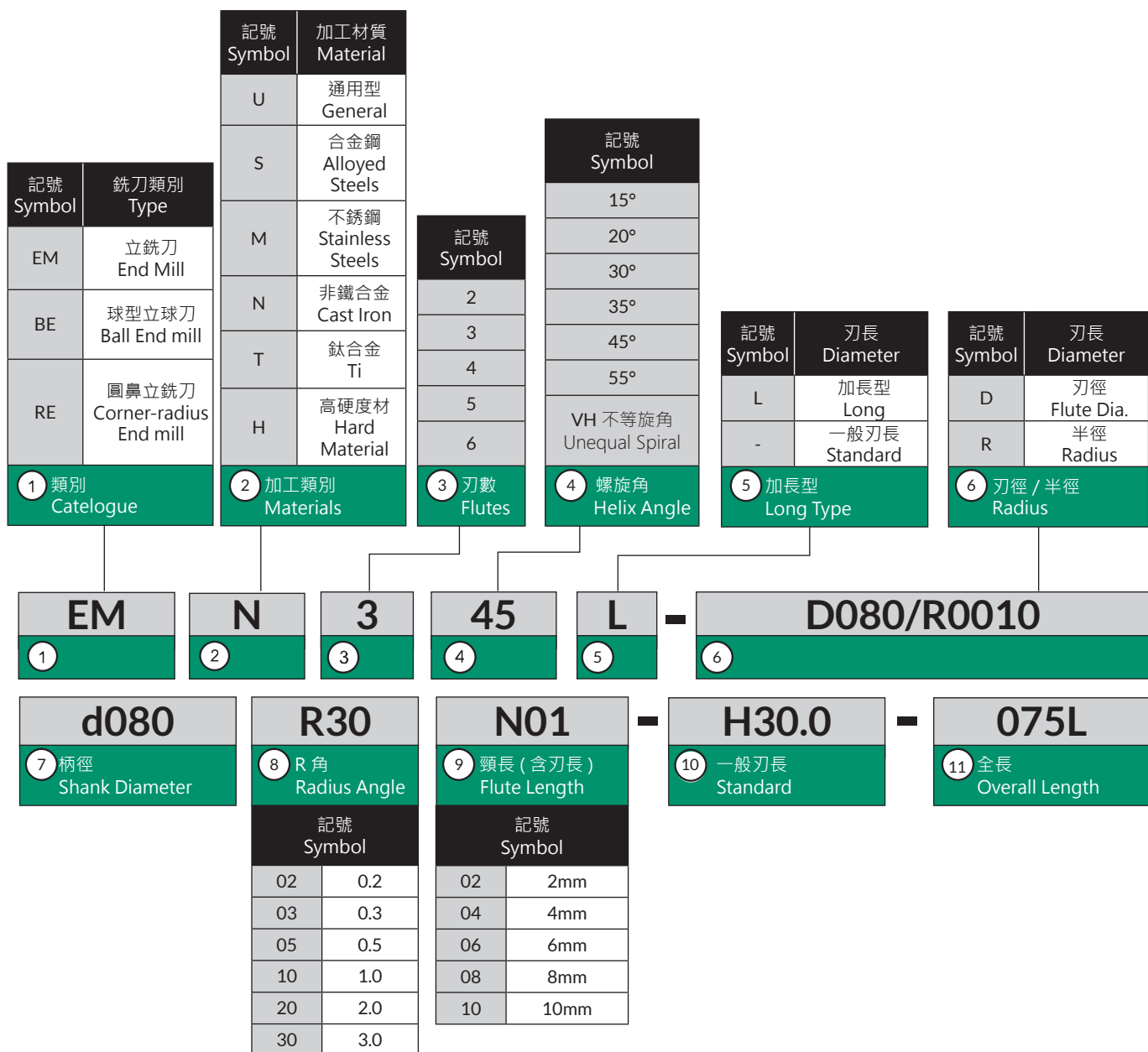
鎢鋼銑刀系列一

Feature

- 原料採用德國進口碳化鎢材料
German strength
- 對特定材料粗加工效率高
精加工表面品質高
Clean finishing
- 穩定的性能加工
Stable processing



Carbide End Mills



銑刀材質

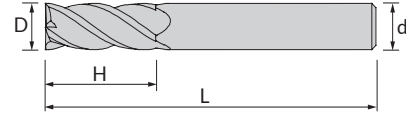
End Mills Material

項目 Item	ISO 範圍 ISO Range	含鈷量 % Cobalt Content	鎢鋼種類 Tungsten Steel Type	顆粒大小 Size of Granular	適用範圍 Scope of Application
EMH、BEH、REH 高硬度專用系列銑刀 Specialize for Hard Material End Mills	K20-K30	9%	粉末微粒 Nano Micro Grain	<0.5μ	高硬度材質 Hard Material 合金鋼 Alloy Steels 鑄鐵 Cast Iron
EMS、BES、RES EMN、BEN、EMM 系列銑刀 End Mills Series	K40-K50	12%	超微粒 Ultra-micro	0.5μ	合金鋼 Alloyed Steel 不銹鋼 Stainless Steels 鑄鐵 Cast Iron 非鐵合金 Non-ferrous Alloy
EMT 抗震型系列 Anti Vibration Series	K40-K50	12~13%	超微粒 Ultra-micro	0.5-0.6μ	不銹鋼 Stainless Steels 鈦合金 Titanium Alloy 非鐵合金 Non-ferrous Alloy

• 長度單位 Unit of Length (mm)



EMH235 高硬度專用 2 刃



規格 Spec.	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
EMH235-D002d030-H0.5-038L	38	0.2	3	0.5	2	35	-	<p>P : ++</p> <p>M : +</p> <p>K : ++</p> <p>H : ++</p> <p>HRC45°~62°</p>	
EMH235-D003d030-H0.6-038L	38	0.3	3	0.6	2	35	-		
EMH235-D004d030-H0.8-038L	38	0.4	3	0.8	2	35	-		
EMH235-D005d030-H1.0-038L	38	0.5	3	1.0	2	35	-		
EMH235-D006d030-H1.2-038L	38	0.6	3	1.2	2	35	-		
EMH235-D007d030-H1.4-038L	38	0.7	3	1.4	2	35	-		
EMH235-D008d030-H1.6-038L	38	0.8	3	1.6	2	35	-		
EMH235-D009d030-H1.8-038L	38	0.9	3	1.8	2	35	-		
EMH235-D010d030-H2.0-038L	38	1.0	3	2.0	2	35	-		
EMH235-D011d030-H2.0-038L	38	1.1	3	2.0	2	35	-		
EMH235-D012d030-H2.5-038L	38	1.2	3	2.5	2	35	-		
EMH235-D013d030-H2.5-038L	38	1.3	3	2.5	2	35	-		
EMH235-D014d030-H3.0-038L	38	1.4	3	3.0	2	35	-		
EMH235-D015d030-H3.0-038L	38	1.5	3	3.0	2	35	-		
EMH235-D016d030-H3.5-038L	38	1.6	3	3.5	2	35	-		
EMH235-D017d030-H3.5-038L	38	1.7	3	3.5	2	35	-		
EMH235-D018d030-H4.0-038L	38	1.8	3	4.0	2	35	-		
EMH235-D019d030-H4.0-038L	38	1.9	3	4.0	2	35	-		
EMH235-D020d030-H4.0-038L	38	2.0	3	4.0	2	35	-		
EMH235-D021d030-H4.0-038L	38	2.1	3	4.0	2	35	-		
EMH235-D022d030-H4.5-038L	38	2.2	3	4.5	2	35	-		
EMH235-D023d030-H4.5-038L	38	2.3	3	4.5	2	35	-		
EMH235-D024d030-H5.0-038L	38	2.4	3	5.0	2	35	-		
EMH235-D025d030-H5.0-038L	38	2.5	3	5.0	2	35	-		
EMH235-D026d030-H5.0-038L	38	2.6	3	5.0	2	35	-		
EMH235-D027d030-H5.5-038L	38	2.7	3	5.5	2	35	-		
EMH235-D028d030-H5.5-038L	38	2.8	3	5.5	2	35	-		
EMH235-D029d030-H6.0-038L	38	2.9	3	6.0	2	35	-		
EMH235-D030d030-H6.0-038L	38	3.0	3	6.0	2	35	-		

•長度單位 Unit of Length (mm)



EMH 碳化鎢鋼立銑刀高硬度專用

EMH SOLID CARBIDE END MILL FOR HARDENED STEEL

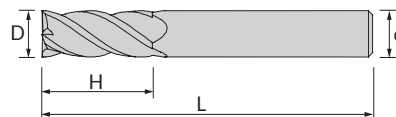


KOVIT

EMH445

高硬度專用

4 刃



規格 Spec.	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
EMH445-D030d040-H7.5-050L	50	3	4	7.5	4	45	-	P : ++ M : + K : ++ H : ++	HRC45°~62°
EMH445-D040d040-H10.0-050L	50	4	4	10	4	45	-		
EMH445-D050d060-H12.0-050L	50	5	6	12	4	45	-		
EMH445-D060d060-H15.0-060L	60	6	6	15	4	45	-		
EMH445-D080d080-H20.0-060L	60	8	8	20	4	45	-		
EMH445-D100d100-H25.0-075L	75	10	10	25	4	45	-		
EMH445-D120d120-H30.0-075L	75	12	12	30	4	45	-		



EMS 碳化鎢鋼微小徑立銑刀

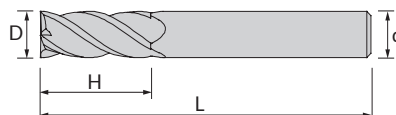
EMS SOLID CARBIDE MINI END MILL



KOVIT

EMS235

2 刃



規格 Spec.	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
EMS235-D002d030-H0.6-038L	38	0.2	3	0.6	2	35	-	P : ++ M : + K : ++	HRC15°~45°
EMS235-D003d030-H1.0-038L	38	0.3	3	1.0	2	35	-		
EMS235-D004d030-H1.0-038L	38	0.4	3	1.0	2	35	-		
EMS235-D005d030-H1.5-038L	38	0.5	3	1.5	2	35	-		
EMS235-D006d030-H1.5-038L	38	0.6	3	1.5	2	35	-		
EMS235-D007d030-H2.0-038L	38	0.7	3	2.0	2	35	-		
EMS235-D008d030-H2.0-038L	38	0.8	3	2.0	2	35	-		
EMS235-D009d030-H2.5-038L	38	0.9	3	2.5	2	35	-		

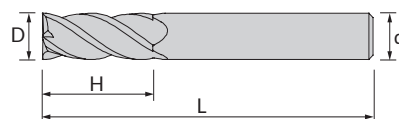
•長度單位 Unit of Length (mm)



EMS 碳化鎢鋼立銑刀 EMS SOLID CARBIDE END MILL



EMS445 4 刃



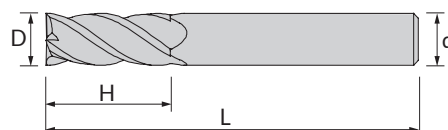
規格 Spec.	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
EMS445-D010d040-H3.0-050L	50	1	4	3	4	45	-	P : ++ M : + K : ++	HRC15°~45°
EMS445-D020d040-H5.0-050L	50	2	4	5	4	45	-		
EMS445-D030d040-H7.5-050L	50	3	4	7.5	4	45	-		
EMS445-D040d040-H10.0-050L	50	4	4	10	4	45	-		
EMS445-D050d060-H12.0-050L	50	5	6	12	4	45	-		
EMS445-D060d060-H15.0-060L	60	6	6	15	4	45	-		
EMS445-D080d080-H20.0-060L	60	8	8	20	4	45	-		
EMS445-D100d100-H30.0-075L	75	10	10	30	4	45	-		
EMS445-D120d120-H30.0-075L	75	12	12	30	4	45	-		



EMN 碳化鎢鋼立銑刀鋁合金專用 EMN SOLID CARBIDE MINI END MILL FOR ALUMINUM



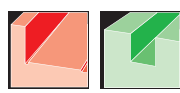
EMN245 鋁合金專用 2 刃



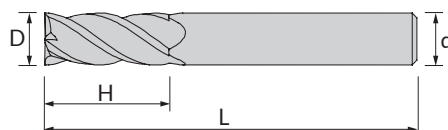
規格 Spec.	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
EMN245-D010d040-H3.0-050L	50	1	4	3	2	45	-	N : ++	HRC15°~45°
EMN245-D020d040-H6.0-050L	50	2	4	6	2	45	-		
EMN245-D030d040-H9.0-050L	50	3	4	9	2	45	-		
EMN245L-D010d040-H4.0-050L	50	1	4	4	2	45	-		
EMN245L-D020d040-H8.0-050L	50	2	4	8	2	45	-		
EMN245L-D030d040-H12.0-050L	50	3	4	12	2	45	-		



EMN 碳化鎢鋼立銑刀鋁合金專用 EMN SOLID CARBIDE MINI END MILL FOR ALUMINUM



EMN345 鋁合金專用 3 刃



規格 Spec.	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
EMN345-D040d040-H12.0-050L	50	4	4	12	3	45	-	N : ++	HRC15°~45°
EMN345-D050d060-H15.0-050L	50	5	6	15	3	45	-		
EMN345-D060d060-H18.0-060L	60	6	6	18	3	45	-		
EMN345-D080d080-H20.0-060L	60	8	8	20	3	45	-		
EMN345-D100d100-H26.0-075L	75	10	10	26	3	45	-		
EMN345-D120d120-H30.0-075L	75	12	12	30	3	45	-		
EMN345L-D040d040-H16.0-050L	50	4	4	16	3	45	-		
EMN345L-D050d060-H20.0-060L	60	5	6	20	3	45	-		
EMN345L-D060d060-H24.0-075L	75	6	6	24	3	45	-		
EMN345L-D080d080-H30.0-075L	75	8	8	30	3	45	-		
EMN345L-D100d100-H40.0-100L	100	10	10	40	3	45	-		
EMN345L-D120d120-H45.0-100L	100	12	12	45	3	45	-		

•長度單位 Unit of Length (mm)



EMM 碳化鎢鋼立銑刀不銹鋼專用

EMM SOLID CARBIDE END MILL FOR STAINLESS STEEL

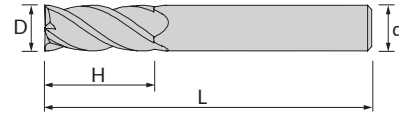


EMM445

不銹鋼專用

4 刃

KOVIT



規格 Spec.	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
EMM445-D040d040-L10.0-050L	50	4	4	10	4	45	-	P : + M : ++ K : +	HRC25°~42°
EMM445-D060d060-H15.0-060L	60	6	6	15	4	45	-		
EMM445-D080d080-H20.0-060L	60	8	8	20	4	45	-		
EMM445-D100d100-H30.0-075L	75	10	10	30	4	45	-		
EMM445-D120d120-H30.0-075L	75	12	12	30	4	45	-		



EMT4VH 碳化鎢鋼立銑刀高溫合金專用

EMT4VH SOLID CARBIDE END MILL FOR REFRACTORY ALLOY



EMT4VH

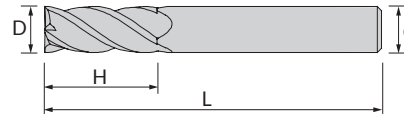
高溫合金專用

不等分割系列

抗震型

4 刃

KOVIT



規格 Spec.	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
EMT4VH-D030d060-H8.0-050L	50	3	6	8	4	38/41	-	P : + M : ++ K : + H : ++ S : ++	<HRC60°
EMT4VH-D040d060-H11.0-050L	50	4	6	11	4	38/41	-		
EMT4VH-D050d060-H14.0-050L	50	5	6	14	4	38/41	-		
EMT4VH-D060d060-H16.0-050L	50	6	6	16	4	38/41	-		
EMT4VH-D080d060-H20.0-060L	60	8	8	20	4	38/41	-		
EMT4VH-D100d100-H25.0-075L	75	10	10	25	4	38/41	-		
EMT4VH-D120d120-H30.0-075L	75	12	12	30	4	38/41	-		



EMT3VH 碳化鎢鋼立銑刀鋁合金專用

EMT3VH SOLID CARBIDE END MILL FOR ALUMINUM



EMT3VH

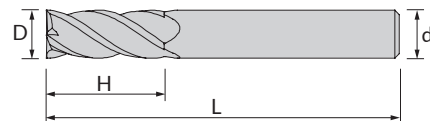
鋁合金專用

不等分割系列

抗震型

3 刃

KOVIT



規格 Spec.	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
EMN3VH-D030d060-H9.0-050L	50	3	6	9	3	38/41	-	N : ++	-
EMN3VH-D040d060-H12.0-050L	50	4	6	12	3	38/41	-		
EMN3VH-D050d060-H14.0-050L	50	5	6	14	3	38/41	-		
EMN3VH-D060d060-H16.0-050L	50	6	6	16	3	38/41	-		
EMN3VH-D080d060-H20.0-060L	60	8	8	20	3	38/41	-		
EMN3VH-D100d100-H25.0-075L	75	10	10	25	3	38/41	-		
EMN3VH-D120d120-H30.0-075L	75	12	12	30	3	38/41	-		

•長度單位 Unit of Length (mm)



EMU 碳化鎢鋼立銑刀

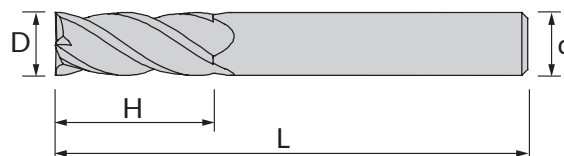
EMU SOLID CARBIDE END MILL



4 刃

KOVIT

NEW



規格 Spec.	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
EMU-0150	50	1	4	3	4	45	-	P : ++ M : + K : ++	<HRC50°
EMU-0250	50	2	4	6	4	45	-		
EMU-0350	50	3	3	8	4	45	-		
EMU-0375	75	3	3	8	4	45	-		
EMU-0450	50	4	4	11	4	45	-		
EMU-0475	75	4	4	11	4	45	-		
EMU-0650	50	6	6	15	4	45	-		
EMU-0675	75	6	6	15	4	45	-		
EMU-0860	60	8	8	20	4	45	-		
EMU-0875	75	8	8	20	4	45	-		
EMU-1075	75	10	10	30	4	45	-		
EMU-10100	100	10	10	30	4	45	-		
EMU-1275	75	12	12	30	4	45	-		
EMU-12100	100	12	12	30	4	45	-		



EUN 碳化鎢鋼立銑刀鋁合金專用

EUN SOLID CARBIDE END MILL FOR ALUMINUM

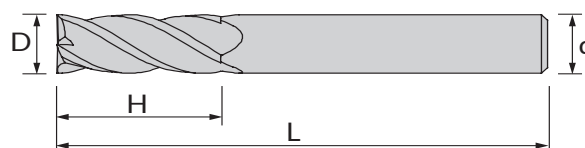


鋁合金專用

3 刃

KOVIT

NEW



規格 Spec.	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
EUN-0150	50	1	4	3	3	50	-	N : ++	-
EUN-0250	50	2	4	6	3	50	-		
EUN-0350	50	3	4	9	3	50	-		
EUN-0450	50	4	4	12	3	50	-		
EUN-0650	50	6	6	18	3	50	-		
EUN-0860	60	8	8	24	3	50	-		
EUN-1075	75	10	10	30	3	50	-		
EUN-1275	75	12	12	36	3	50	-		

•長度單位 Unit of Length (mm)



BMU 碳化鎢鋼球型立銑刀

BMU SOLID CARBIDE BALL NOSE END MILL



2 刃

KOVIT

NEW



規格 Spec.	R	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
BMU-0150	0.5R	50	1	4	2	2	30	-	<p>P : ++</p> <p>M : +</p> <p>K : ++</p>	<HRC50°
BMU-0250	1R	50	2	4	4	2	30	-		
BMU-0350	1.5R	50	3	3	6	2	30	-		
BMU-0375	1.5R	75	3	3	6	2	30	-		
BMU-0450	2R	50	4	4	8	2	30	-		
BMU-0475	2R	75	4	4	8	2	30	-		
BMU-0650	3R	50	6	6	12	2	30	-		
BMU-0675	3R	75	6	6	12	2	30	-		
BMU-0860	4R	60	8	8	16	2	30	-		
BMU-0875	4R	75	8	8	16	2	30	-		
BMU-1075	5R	75	10	10	20	2	30	-		
BMU-10100	5R	100	10	10	20	2	30	-		
BMU-1275	6R	75	12	12	24	2	30	-		
BMU-12100	6R	100	12	12	24	2	30	-		



RMU 碳化鎢鋼圓鼻立銑刀

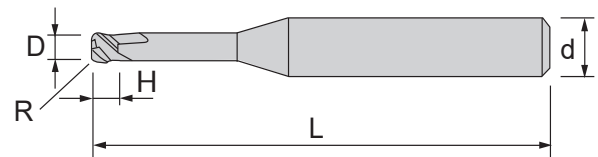
RMU SOLID CARBIDE CORNER RADIUS END MILL



4 刃

KOVIT

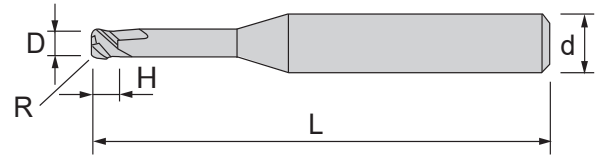
NEW



規格 Spec.	R	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
RMU-015002	0.2	50	1	4	2	4	45	-	<p>P : ++</p> <p>M : +</p> <p>K : ++</p>	<HRC50°
RMU-025002	0.2	50	2	4	4	4	45	-		
RMU-025005	0.5	50	2	4	4	4	45	-		
RMU-035002	0.2	50	3	3	6	4	45	-		
RMU-035005	0.5	50	3	3	6	4	45	-		
RMU-035010	1	50	3	3	6	4	45	-		
RMU-037502	0.2	75	3	3	6	4	45	-		
RMU-037505	0.5	75	3	3	6	4	45	-		
RMU-045002	0.2	50	4	4	8	4	45	-		
RMU-045005	0.5	50	4	4	8	4	45	-		
RMU-045010	1	50	4	4	8	4	45	-		
RMU-047502	0.2	75	4	4	8	4	45	-		
RMU-047505	0.5	75	4	4	8	4	45	-		
RMU-047510	1	75	4	4	8	4	45	-		

•長度單位 Unit of Length (mm)

4 刃

NEW


規格 Spec.	R	L	D	d	H	刃數 T	螺旋角 Angle	重量 (KGS) Weight	工件材質 Workpiece Material	切削硬度 Cutting HRC
RMU-065002	0.2	50	6	6	12	4	45	-	P : ++ M : + K : ++	<HRC50°
RMU-065005	0.5	50	6	6	12	4	45	-		
RMU-065010	1	50	6	6	12	4	45	-		
RMU-065015	1.5	50	6	6	12	4	45	-		
RMU-067502	0.2	75	6	6	12	4	45	-		
RMU-067505	0.5	75	6	6	12	4	45	-		
RMU-067510	1	75	6	6	12	4	45	-		
RMU-086002	0.2	60	8	8	16	4	45	-		
RMU-086005	0.5	60	8	8	16	4	45	-		
RMU-086010	1	60	8	8	16	4	45	-		
RMU-086020	2	60	8	8	16	4	45	-		
RMU-087502	0.2	75	8	8	16	4	45	-		
RMU-087505	0.5	75	8	8	16	4	45	-		
RMU-087510	1	75	8	8	16	4	45	-		
RMU-107505	0.5	75	10	10	20	4	45	-		
RMU-107510	1	75	10	10	20	4	45	-		
RMU-107520	2	75	10	10	20	4	45	-		
RMU-1010005	0.5	100	10	10	20	4	45	-		
RMU-1010010	1	100	10	10	20	4	45	-		
RMU-1010020	2	100	10	10	20	4	45	-		
RMU-127505	0.5	75	12	12	24	4	45	-		
RMU-127510	1	75	12	12	24	4	45	-		
RMU-127520	2	75	12	12	24	4	45	-		
RMU-127530	3	75	12	12	24	4	45	-		
RMU-1210005	0.5	100	12	12	24	4	45	-		
RMU-1210010	1	100	12	12	24	4	45	-		
RMU-1210020	2	100	12	12	24	4	45	-		
RMU-1210030	3	100	12	12	24	4	45	-		

•長度單位 Unit of Length (mm)

立銑刀側銑 End Mill Side Milling:

立銑刀系列 End mill	材料硬度 Material hardness	切削速度 Speed (m/min)	加工深度 Ap (mm)	切寬 Ae (mm)	每刃進給 (mm/rev)
EMS、EMN、EMM EMU、EUN	HRC<10	VC=150-360	D*0.5~D*2.5	D*0.01~D*0.10	D*0.01~0.02
	HRC10-25	VC=120-210	D*0.5~D*2.0	D*0.01~D*0.05	D*0.01~0.02
	HRC25-40	VC=90-180	D*0.5~D*1.5	D*0.01~D*0.025	D*0.01~0.02
EMH 系列	HRC30-40	VC=120~210	D*0.5~D*1.5	D*0.01~D*0.025	D*0.01~0.02
	HRC40-50	VC=120-180	D*0.5~D*1.0	D*0.005~D*0.015	D*0.01~0.02
	HRC50-62	VC=120~150	D*0.5~D*1.0	D*0.005~D*0.01	D*0.01~0.02
EMT 系列	HRC30-50	VC=120~200	D*0.1~D*2.5	D*0.01~D*0.02	D*0.01~0.02
EMT 系列	HRC>50	VC=100~120	D*0.1~D*1.0	D*0.01~D*0.02	D*0.01~0.02

球型立銑刀 Ball End Mill:

球型立銑刀系列 Ball End Mill	材料硬度 Material hardness	切削速度 Speed (m/min)	加工深度 Ap (mm)	切寬 Ae (mm)	每刃進給 (mm/rev)
BES、BEN BMU	HRC<10	VC=150-390	D*0.01~D*0.20	D*0.01~D*0.03	D*0.01~0.02
	HRC10-25	VC=120-240	D*0.01~D*0.05	D*0.01~D*0.03	D*0.01~0.02
	HRC25-40	VC=90-210	D*0.01~D*0.03	D*0.01~D*0.025	D*0.01~0.02
BEH 系列	HRC30-40	VC=120~240	D*0.01~D*0.03	D*0.01~D*0.025	D*0.01~0.02
	HRC40-50	VC=120~210	D*0.01~D*0.02	D*0.005~D*0.02	D*0.01~0.02
	HRC50-62	VC=120~180	D*0.005~D*0.01	D*0.005~D*0.01	D*0.01~0.02

圓鼻立銑刀 Corner-Radius End Mill:

圓鼻立銑刀系列 Corner-Radius End Mill	材料硬度 Material Hardness	切削速度 Speed (m/min)	加工深度 Ap (mm)	底面修平加工深度 Depth	每刃進給 (mm/rev)
RES、RMU	HRC<10	VC=150-390	D*0.50	視實際加工調整	D*0.01~0.02
	HRC10-25	VC=120-240	D*0.05~D*1.0	<R 角	D*0.01~0.02
	HRC25-40	VC=90-210	D*0.03~D*0.06	<R 角	D*0.01~0.02
REH	HRC30-40	VC=120~240	D*0.03~D*0.06	<R 角	D*0.01~0.02
	HRC40-50	VC=120~210	D*0.02~D*0.04	<R 角	D*0.01~0.02
	HRC50-62	VC=120~180	D*0.01~D*0.02	<R 角	D*0.01~0.02

※ 以上建議參數，尚需配合實際加工條件與環境，視工件需求而有所調整。

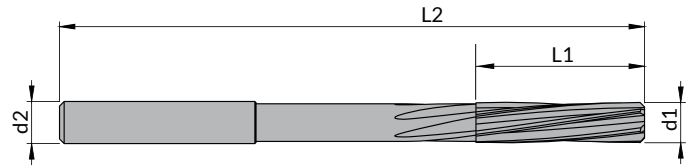


MRU 超微粒鎢鋼機械鉸刀

MRU CARBIDE MACHINE REAMER

KOVIT

NEW



特點 Feature

-歐洲鎢鋼材料、瑞士生產設備，品質把關
-柄徑公差h6，刃徑公差H7

-Europe top tungsten steel materials, produced by the Swiss Machine.
-Shank diameter tolerance h6, edge diameter H7.

規格 Spec.	刃徑 d1	刃長 L1	全長 L2	柄徑 d2	刃數 Flutes	螺旋角 Angle	工件材質 Workpiece Material
MRU607-020030	2	11	49	3	6	7度	<div style="display: flex; flex-direction: column; align-items: center; gap: 5px;"> <div style="background-color: #0056b3; color: white; padding: 2px 5px;">P</div> <div style="background-color: #d4c03e; color: white; padding: 2px 5px;">M</div> <div style="background-color: #d62728; color: white; padding: 2px 5px;">K</div> <div style="background-color: #2ca02c; color: white; padding: 2px 5px;">N</div> <div style="background-color: #696969; color: white; padding: 2px 5px;">H</div> </div>
MRU607-025030	2.5	14	57	3	6	7度	
MRU607-030030	3	15	61	3	6	7度	
MRU607-035035	3.5	18	70	3.5	6	7度	
MRU607-040040	4	19	75	4	6	7度	
MRU607-045045	4.5	21	80	4.5	6	7度	
MRU607-050050	5	23	86	5	6	7度	
MRU607-055055	5.5	26	93	5.5	6	7度	
MRU607-060060	6	26	93	6	6	7度	
MRU607-065065	6.5	28	101	6.5	6	7度	
MRU607-070070	7	31	109	7	6	7度	
MRU607-075075	7.5	31	109	7.5	6	7度	
MRU607-080080	8	33	117	8	6	7度	
MRU607-085085	8.5	33	117	8.5	6	7度	
MRU607-090090	9	36	125	9	6	7度	
MRU607-095095	9.5	36	125	9.5	6	7度	
MRU607-100100	10	38	133	10	6	7度	
MRU607-105105	10.5	38	133	10.5	6	7度	
MRU607-110110	11	41	142	11	6	7度	
MRU607-115115	11.5	41	142	11.5	6	7度	
MRU607-120120	12	44	151	12	6	7度	

•長度單位 Unit of Length (mm)

適用加工數據 Applicable Parameter

被加工材質 Machining Materials	切削速度 Vc(m/min)	f 每刃進給率 (mm/min)						
		Ø3	Ø4	Ø5	Ø6	Ø8	Ø10	Ø12
P 低合金鋼 Low-Alloy Steels	Vc=10~12	0.02~0.03	0.025~0.045	0.04~0.06	0.05~0.09	0.06~0.15	0.07~0.13	0.08~0.15
	高合金鋼 High-Alloyed Steels	Vc=8~15	0.02~0.03	0.025~0.045	0.04~0.06	0.05~0.09	0.06~0.15	0.07~0.13
M 不鏽鋼 Stainless Steels	Vc=10~20	0.018~0.03	0.028~0.045	0.04~0.06	0.05~0.09	0.06~0.12	0.06~0.12	0.08~0.15
K 鑄鐵 Cast Iron	Vc=8~15	0.008~0.015	0.028~0.045	0.04~0.06	0.05~0.09	0.06~0.12	0.07~0.13	0.08~0.15
N 鋁合金 Aluminum&Al	Vc=5~10	0.018~0.03	0.028~0.045	0.04~0.06	0.06~0.09	0.07~0.12	0.08~0.17	0.08~0.18
	銅 Copper	Vc=4~10	0.018~0.03	0.028~0.045	0.04~0.06	0.05~0.09	0.07~0.13	0.08~0.15
H 硬化鋼 HRC(30~38) Hardened Steel	Vc=5~10	0.02~0.03	0.025~0.045	0.04~0.06	0.05~0.09	0.06~0.15	0.07~0.13	0.08~0.15
	硬化鋼 HRC(38~48) Hardened Steel	Vc=4~10	0.01~0.02	0.012~0.03	0.015~0.035	0.02~0.05	0.025~0.055	0.025~0.06

被加工材質 Machining Materials	切削速度 Vc(m/min)	切削餘量 (mm)						
		Ø3	Ø4	Ø5	Ø6	Ø8	Ø10	Ø12
P 低合金鋼 Low-Alloy Steels	Vc=10~12	0.05~0.15	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2
	高合金鋼 High-Alloyed Steels	Vc=8~15	0.05~0.15	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2
M 不鏽鋼 Stainless Steels	Vc=10~20	0.05~0.15	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2
K 鑄鐵 Cast Iron	Vc=8~15	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1
N 鋁合金 Aluminum&Al	Vc=5~10	0.05~0.15	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2
	銅 Copper	Vc=4~10	0.05~0.15	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2
H 硬化鋼 HRC(30~38) Hardened Steel	Vc=5~10	0.05~0.15	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2
	硬化鋼 HRC(38~48) Hardened Steel	Vc=4~10	0.03~0.08	0.03~0.08	0.03~0.08	0.03~0.08	0.03~0.08	0.03~0.08

鉸刀的保存 Care of Reamers

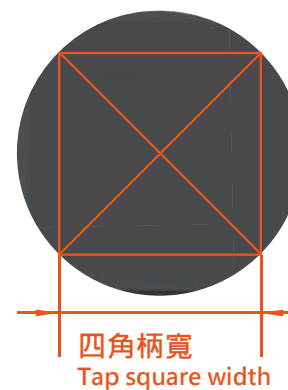
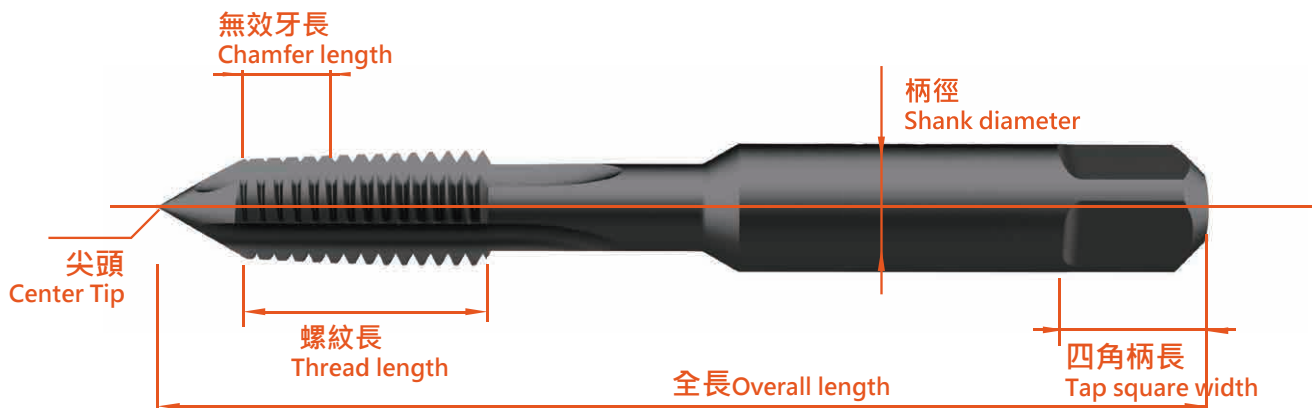
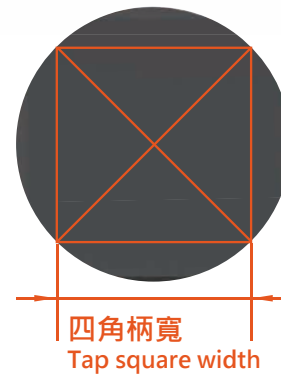
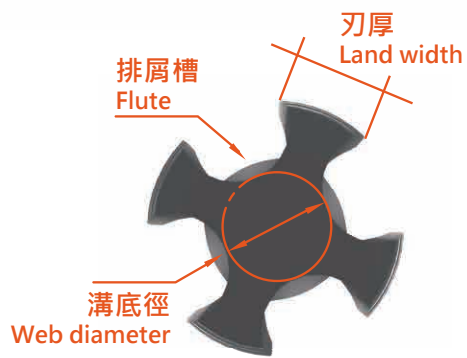
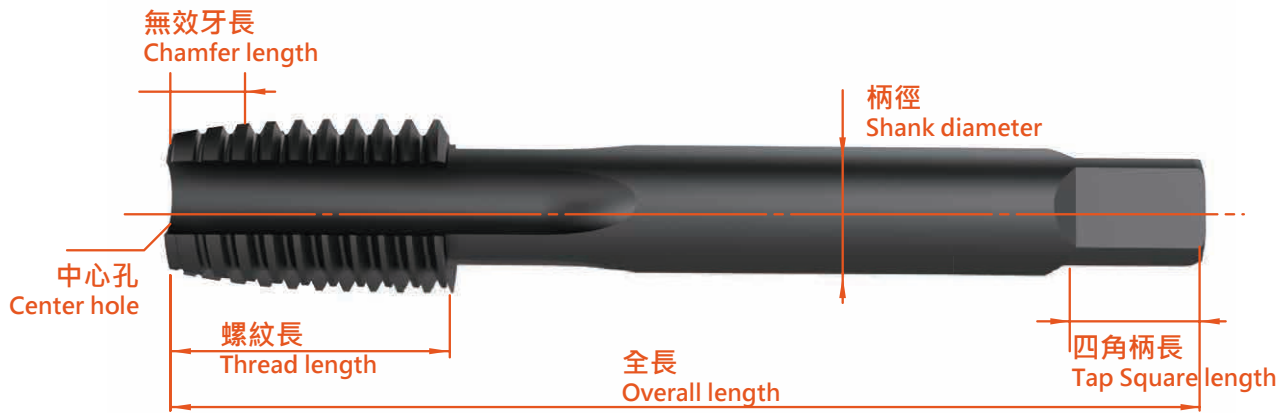
鉸刀是表面鉸光的工具，容易受損，為防受損應個別置於塑膠套中以利儲存及運送。
良好的保存刀具有利於後續生產的穩定性以及延長刀具壽命。

The reamer is a surface reaming tool that is easily damaged. To prevent from the damage, it should be stored with plastic sleeve while delivery.
Storing the reamer well is beneficial to the stable production and extended tool life.

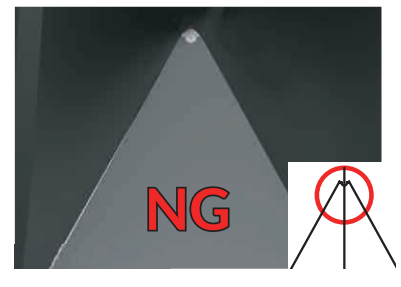
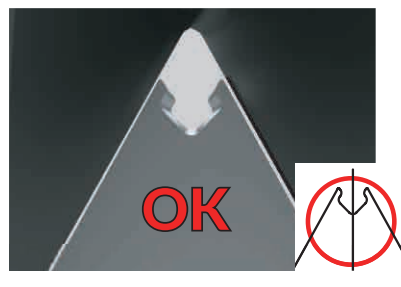
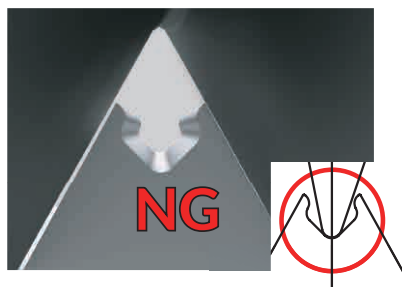
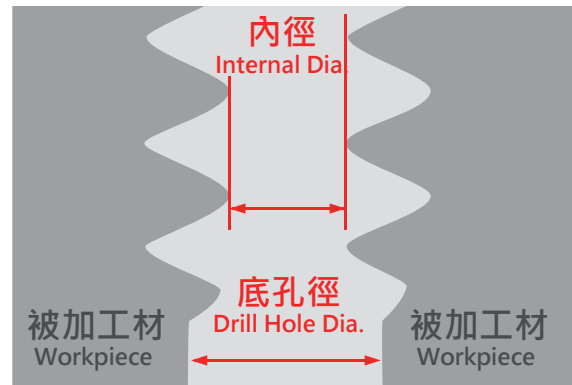
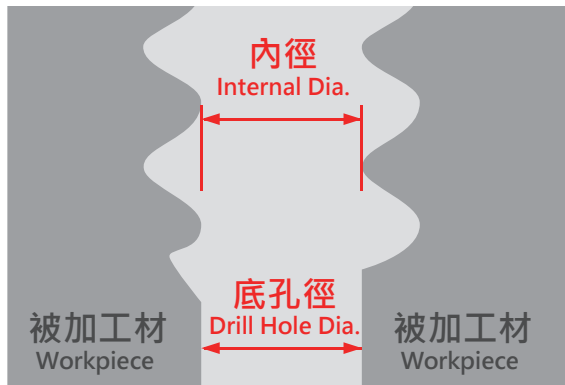
• 長度單位 Unit of Length (mm)

TP	100	A	POT	M3	0.5P	
絲攻材質 Tap Material	絲攻類型 Tap Type	塗層方式 Coating Method	絲攻牙型 Tap Type	螺牙類型 Thread Type	牙距 Pitch	其他備註 Other
TP 高速鋼 High Speed Steel	100: 標準型 Standard Type	A: 氧化 Oxidation	POT: 先端絲攻 Spiral Point Taps	M : 公制螺紋 M Metric Thread M		空白: 無備註
TC 粉末高速鋼 Powder Metallurgy High Speed Steel	200: 短牙型 Short Thread	B:TIN	SFT: 螺旋絲攻 Spiral Flute Taps	W : 英制螺紋 (惠式)W Inch Thread W		
	300: 長牙型 Long Thread	C:TICN	NRT: 擠壓 / 無屑絲攻 NRT: Forming Taps	U : 美制螺紋 UNC.UN		
TW 鎢鋼 Tungsten Carbide	400: 尺寸調整 Customized Size	D: 無塗層 No Coating	HT: 手絞絲攻 HT: Hand Taps	PT : 管用錐度螺紋 R.Rc.PT		
		E: 其他 Others	PT: 管用絲攻 PT: Pipe Thread Taps	RS : 管用錐度平行螺紋 Rp(RS)		
			NT: 螺帽絲攻 NT: Nut Taps	NPT : 美制管用錐度螺紋 NPT		

•長度單位 Unit of Length (mm)



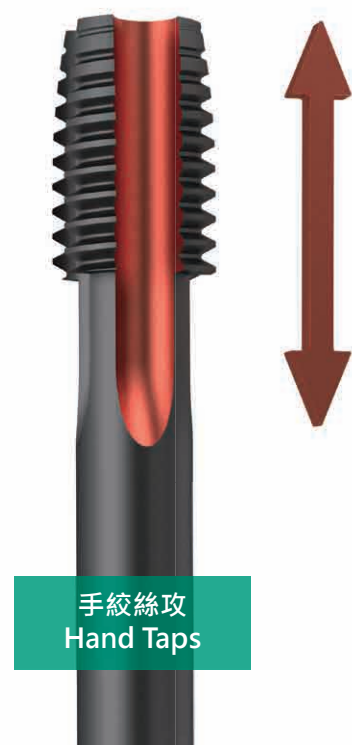
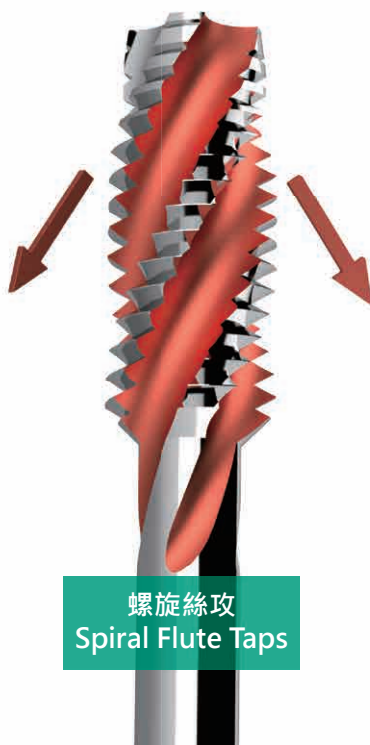
• 長度單位 Unit of Length (mm)



底孔徑大於建議值，
擠壓量不足
Drill Hole Dia. > Suggested Values
Insufficient Forming

螺紋牙行正確
The Correct Form of Thread

底孔徑小於建議值，
擠壓量過多，牙山過飽
Drill Hole Dia. < Suggested Values
Values Over forming



• 長度單位 Unit of Length (mm)

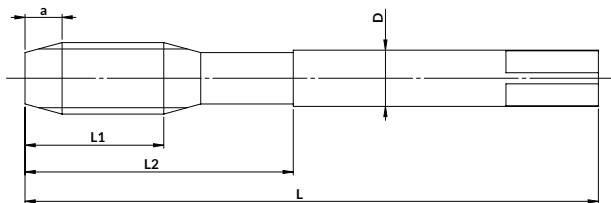


TP100 系列 POT 先端絲攻 -HSS

TP100 SERIES POT SPIRAL POINT TAP - HSS

KOVIT

NEW



規格 Spec.	加工材質 Workpiece Material	表面處理 Surface Treatment	精度 Accuracy	a	全長 L	螺紋長 L1	柄徑 D	溝數 Flutes	重量 (KGS) Weight
TP100A-POT-M3-0.5P	合金鋼 Alloy Steels 不鏽鋼 Stainless Steels	氧化 TiCN	6H	4P	46	11	4	3	0.005
TP100A-POT-M4-0.7P			6H	4P	52	13	5	3	0.008
TP100A-POT-M5-0.8P			6H	4P	60	16	5.5	3	0.01
TP100A-POT-M6-1.0P			6H	4P	62	19	6	3	0.013
TP100A-POT-M8-1.25P			6H	4P	70	22	6.2	3	0.019
TP100A-POT-M10-1.5P			6H	4P	75	24	7	3	0.027
TP100A-POT-M12-1.75P			6H	4P	82	29	8.5	3	0.043

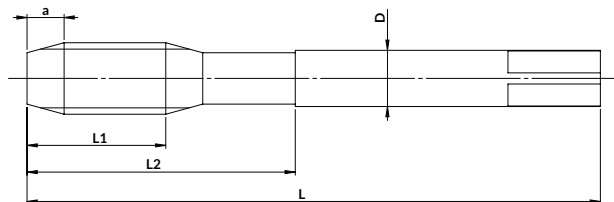


TP100 系列 SFT 螺旋絲攻 -HSS

TP100 SERIES SFT SPIRAL FLUTE TAP - HSS

KOVIT

NEW



規格 Spec.	加工材質 Workpiece Material	表面處理 Surface Treatment	精度 Accuracy	a	全長 L	螺紋長 L1	柄徑 D	溝數 Flutes	重量 (KGS) Weight
TP100A-SFT-M3-0.5P	合金鋼 Alloy Steels 不鏽鋼 Stainless Steels	氧化 TiCN	6H	2.5P	46	11	4	3	0.004
TP100A-SFT-M4-0.7P			6H	2.5P	52	13	5	3	0.007
TP100A-SFT-M5-0.8P			6H	2.5P	60	16	5.5	3	0.01
TP100A-SFT-M6-1.0P			6H	2.5P	62	19	6	3	0.012
TP100A-SFT-M8-1.25P			6H	2.5P	70	22	6.2	3	0.018
TP100A-SFT-M10-1.5P			6H	2.5P	75	24	7	3	0.025
TP100A-SFT-M12-1.75P			6H	2.5P	82	29	8.5	3	0.039

•長度單位 Unit of Length (mm)

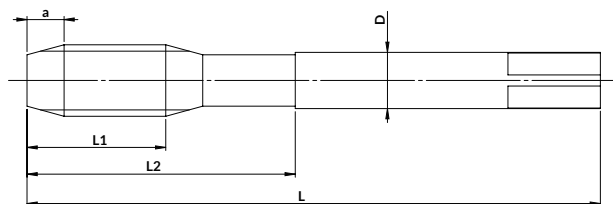


TP200 系列 POT- 短牙型先端絲攻 -HSS

TP200 SERIES POT SPIRAL POINT TAP (SHORT THREAD) - HSS

KOVIT

NEW



規格 Spec.	加工材質 Workpiece Material	塗層 Surface Treatment	精度 Accuracy	a	全長 L	螺紋長 L1	柄徑 D	溝數 Flutes	重量 (KGS) Weight
TP200A-POT-M3-0.5P	合金鋼 Alloy Steels 不鏽鋼 Stainless Steels	氧化 TiCN	6H	4P	46	9	4	3	0.004
TP200A-POT-M4-0.7P			6H	4P	52	10	5	3	0.008
TP200A-POT-M5-0.8P			6H	4P	60	11	5.5	3	0.01
TP200A-POT-M6-1.0P			6H	4P	62	12	6	3	0.013
TP200A-POT-M8-1.25P			6H	4P	70	13	6.2	3	0.019
TP200A-POT-M10-1.5P			6H	4P	75	15	7	3	0.027
TP200A-POT-M12-1.75P			6H	4P	82	18	8.5	3	0.042

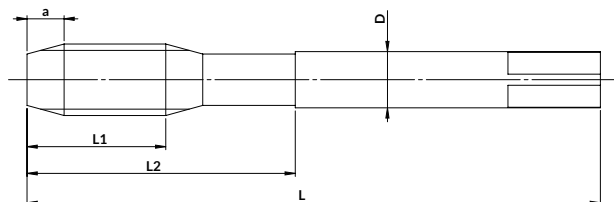


TP200 系列 SFT 短牙型螺旋絲攻 -HSS

TP200 SERIES SFT SPIRAL FLUTE TAP (SHORT THREAD) - HSS

KOVIT

NEW



規格 Spec.	加工材質 Workpiece Material	塗層 Surface Treatment	精度 Accuracy	a	全長 L	螺紋長 L1	柄徑 D	溝數 Flutes	重量 (KGS) Weight
TP200A-SFT-M3-0.5P	合金鋼 Alloy Steels 不鏽鋼 Stainless Steels	氧化 TiCN	6H	2.5P	46	5	4	3	0.004
TP200A-SFT-M4-0.7P			6H	2.5P	52	7	5	3	0.007
TP200A-SFT-M5-0.8P			6H	2.5P	60	8	5.5	3	0.01
TP200A-SFT-M6-1.0P			6H	2.5P	62	10	6	3	0.012
TP200A-SFT-M8-1.25P			6H	2.5P	70	13	6.2	3	0.018
TP200A-SFT-M10-1.5P			6H	2.5P	75	15	7	3	0.025
TP200A-SFT-M12-1.75P			6H	2.5P	82	18	8.5	3	0.039

•長度單位 Unit of Length (mm)

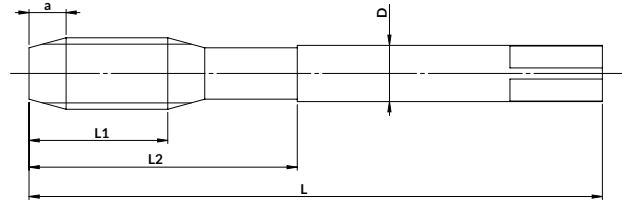


TC100 系列 POT 先端絲攻 -PM

TC100 SERIES POT POINT TAP - PM

KOVIT

NEW



規格 Spec.	加工材質 Workpiece Material	塗層 Surface Treatment	精度 Accuracy	a	全長 L	螺紋長 L1	柄徑 D	溝數 Flutes	重量 (KGS) Weight
TC100C-POT-M3-0.5P	合金鋼 Alloy Steels 不鏽鋼 Stainless Steels	TiCN	6H	5P	46	11	4	3	0.005
TC100C-POT-M4-0.7P			6H	5P	52	13	5	3	0.008
TC100C-POT-M5-0.8P			6H	5P	60	16	5.5	3	0.01
TC100C-POT-M6-1.0P			6H	5P	62	19	6	3	0.013
TC100C-POT-M8-1.25P			6H	5P	70	22	6.2	3	0.019
TC100C-POT-M10-1.5P			6H	5P	75	24	7	3	0.027
TC100C-POT-M12-1.75P			6H	5P	82	29	8.5	3	0.043

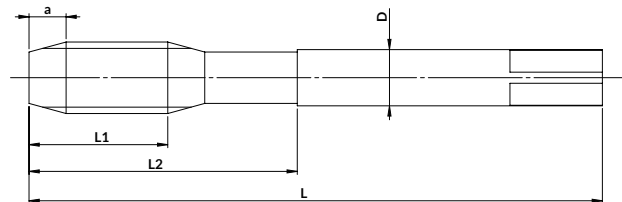


TC100 系列 SFT 螺旋絲攻 -PM

TC100 SERIES SFT SPIRAL FLUTE TAP - PM

KOVIT

NEW



規格 Spec.	加工材質 Workpiece Material	塗層 Surface Treatment	精度 Accuracy	a	全長 L	螺紋長 L1	柄徑 D	溝數 Flutes	重量 (KGS) Weight
TC100C-SFT-M3-0.5P	合金鋼 Alloy Steels 不鏽鋼 Stainless Steels	TiCN	6H	5P	46	11	4	3	0.005
TC100C-SFT-M4-0.7P			6H	5P	52	13	5	3	0.008
TC100C-SFT-M5-0.8P			6H	5P	60	16	5.5	3	0.01
TC100C-SFT-M6-1.0P			6H	5P	62	19	6	3	0.013
TC100C-SFT-M8-1.25P			6H	5P	70	22	6.2	3	0.019
TC100C-SFT-M10-1.5P			6H	5P	75	24	7	3	0.027
TC100C-SFT-M12-1.75P			6H	5P	82	29	8.5	3	0.043

•長度單位 Unit of Length (mm)

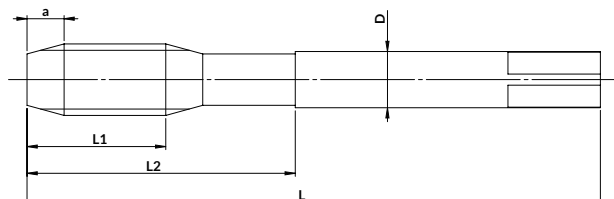


TC200 系列 POT 短牙型先端絲攻 -PM

TC200 SERIES POT POINT TAP(SHORT THREAD) - PM

KOVIT

NEW



規格 Spec.	加工材質 Workpiece Material	塗層 Surface Treatment	精度 Accuracy	a	全長 L	螺紋長 L1	柄徑 D	溝數 Flutes	重量 (KGS) Weight
TC200C-POT-M3-0.5P	合金鋼 Alloy Steels 不鏽鋼 Stainless Steels	TiCN	6H	4P	46	9	4	3	0.004
TC200C-POT-M4-0.7P			6H	4P	52	10	5	3	0.008
TC200C-POT-M5-0.8P			6H	4P	60	11	5.5	3	0.01
TC200C-POT-M6-1.0P			6H	4P	62	12	6	3	0.013
TC200C-POT-M8-1.25P			6H	4P	70	13	6.2	3	0.019
TC200C-POT-M10-1.5P			6H	4P	75	15	7	3	0.027
TC200C-POT-M12-1.75P			6H	4P	82	18	8.5	3	0.042

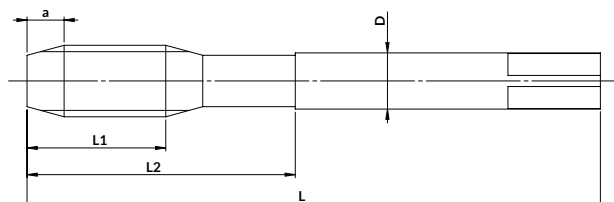


TC200 系列 SFT 短牙型螺旋絲攻 -PM

TC200 SERIES SFT SPIRAL FLUTE TAP (SHORT THREAD) - PM

KOVIT

NEW



規格 Spec.	加工材質 Workpiece Material	塗層 Surface Treatment	精度 Accuracy	a	全長 L	螺紋長 L1	柄徑 D	溝數 Flutes	重量 (KGS) Weight
TC200C-SFT-M3-0.5P	合金鋼 Alloy Steels 不鏽鋼 Stainless Steels	TiCN	6H	2.5P	46	5	4	3	0.004
TC200C-SFT-M4-0.7P			6H	2.5P	52	7	5	3	0.007
TC200C-SFT-M5-0.8P			6H	2.5P	60	8	5.5	3	0.01
TC200C-SFT-M6-1.0P			6H	2.5P	62	10	6	3	0.012
TC200C-SFT-M8-1.25P			6H	2.5P	70	13	6.2	3	0.018
TC200C-SFT-M10-1.5P			6H	2.5P	75	15	7	3	0.025
TC200C-SFT-M12-1.75P			6H	2.5P	82	18	8.5	3	0.039

•長度單位 Unit of Length (mm)

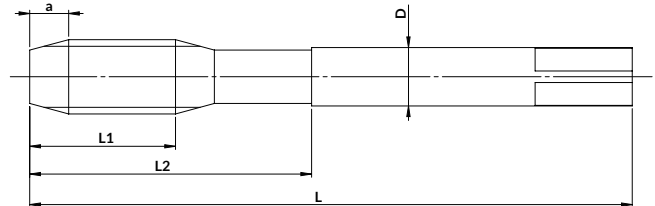


TP100 系列 NRT 擠壓絲攻 -HSS

TP100 SERIES NRT FORMING TAP - HSS

KOVIT

NEW



規格 Spec.	加工材質 Workpiece Material	塗層 Surface Treatment	a	全長 L	螺紋長 L1	柄徑 D	溝數 Flutes	重量 (KGS) Weight
TP100C-NRT-M3-0.5P	不鏽鋼 Stainless	TiCN	2P/4P	46	9	4	-	0.005
TP100C-NRT-M4-0.7P			2P/4P	52	10	5	-	0.008
TP100C-NRT-M5-0.8P			2P/4P	60	11	5.5	-	0.011
TP100C-NRT-M6-1.0P			2P/4P	62	12	6	-	0.013
TP100C-NRT-M8-1.25P			2P/4P	70	18	-	-	0.02
TP100C-NRT-M10-1.5P			2P/4P	75	19	-	-	0.03
TP100C-NRT-M12-1.75P			2P/4P	82	23	8.5	-	0.049

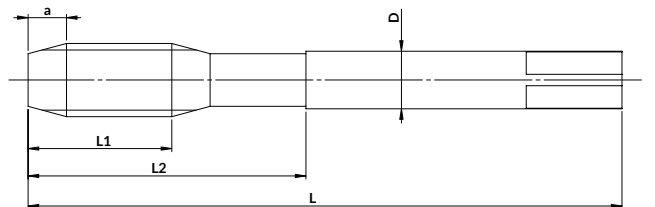


TC100 系列 NRT 擠壓絲攻 -PM

TC100 SERIES NRT FORMING TAP -PM

KOVIT

NEW



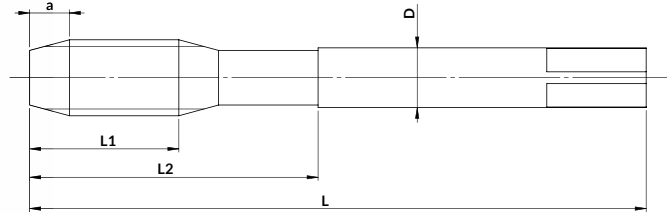
規格 Spec.	加工材質 Workpiece Material	塗層 Surface Treatment	a	全長 L	螺紋長 L1	柄徑 D	溝數 Flutes	重量 (KGS) Weight
TC100C-NRT-M3-0.5P	不鏽鋼 Stainless	TiCN	2P/4P	46	9	4	-	0.005
TC100C-NRT-M4-0.7P			2P/4P	52	10	5	-	0.008
TC100C-NRT-M5-0.8P			2P/4P	60	11	5.5	-	0.011
TC100C-NRT-M6-1.0P			2P/4P	62	12	6	-	0.013
TC100C-NRT-M8-1.25P			2P/4P	70	18	-	-	0.02
TC100C-NRT-M10-1.5P			2P/4P	75	19	-	-	0.03
TC100C-NRT-M12-1.75P			2P/4P	82	23	8.5	-	0.049

•長度單位 Unit of Length (mm)

被加工材質 Machining Materials		切削速度 Vc(m/min)		
		SFT	POT	NRT
P	低碳鋼 Low Carbon Steel	7-12	10-15	5-8
	中碳鋼 Medium Carbon Steel	6-9	7-10	-
	合金鋼 Alloy Steels	5-8	8-13	5-10
	工具鋼 Tool Steel	8-13	15-25	8-13
M	不鏽鋼 Stainless Steel	7-12	10-15	7-10

被加工材質 Machining Materials		切削油劑 Cutting Fluids	
		不水溶性 Water Insoluble	水溶性 Water Soluble
P	低碳鋼 Low Carbon Steel	◎	△
	中碳鋼 Medium Carbon Steel	◎	-
	合金鋼 Alloy Steels	◎	○
	工具鋼 Tool Steel	◎	○
M	不鏽鋼 Stainless Steel	◎	○

◎ 最適用 Excellent ○ 適用 Good △ 可以使用 Applicable - 不可使用 Not Applicable



規格 Spec.	加工材質 Workpiece material	表面處理 Surface Treatment	精度 Accuracy	a	全長 L	螺紋長 L1	柄徑 D	溝數	重量 (KGS) Weight
TC102C-POT-M1.8-0.35P	高硬度 High hardness <HRC50° 不鏽鋼 Stainless	TiCN	6H	3~5P	42	9	2.5		0.01
TC102C-POT-M2-0.4P			6H		42	9.5	3		0.016
TC102C-POT-M2.2-0.45P			6H		-	-	-		-
TC102C-POT-M2.5-0.45P			6H		46	9.5	3		0.0205
TC102C-POT-M3-0.5P			6H		46	11	4		0.025
TC102C-POT-M3.5-0.6P			6H		-	-	-		-
TC102C-POT-M4-0.7P			6H		52	13	5		0.033
TC102C-POT-M5-0.8P			6H		60	16	5.5		0.042
TC102C-POT-M6-1.0P			6H		62	19	6		0.05

高硬度材適用加工數據 Applicable Parameter

材料 Material	高硬度 <HRC50° High Hardness <HRC50	熱處理鋼 Heat Treated Steel	工具鋼 Tool Steel	氮化鋼 Nitrided Steel	不鏽鋼 Stainless	鑄鋼 Cast Iron
Vc [m/min]	4-5	5-10	10-15	5-8	5-8	5-8

標稱直徑 Nominal/ Diameter	RPM [1/min]												
	切削速度 Vc Cutting speed V [m/min]												
	4	5	6	8	10	12	15	20	22	25	28	30	32
M3	425	530	635	850	1060	1270	1590	2120	2330	2650	2965	3180	3390
M4	319	398	480	635	795	955	1190	1590	1750	1990	2230	2390	2550
M5	255	318	382	510	635	765	955	1270	1400	1590	1785	1910	2040
M6	212	265	318	425	530	635	795	1060	1170	1325	1485	1590	1700
M8	159	198	238	318	398	478	598	795	875	995	1115	1195	1275
M10	127	159	191	255	318	382	478	636	700	795	892	955	1020
M12	106	133	159	212	265	318	398	531	584	664	744	795	850

下孔徑尺寸公差表請至B848參照
Hole diameter tolerance table refer to B848.

•長度單位 Unit of Length (mm)

C	上壓式 Clamp	
M	螺銷 上壓式 Pin/ Clamp	
W	楔鉤式 Clamp	
S	壓孔式 Screw	
P	側推式 Pin	
D	雙重 夾緊式 Rigid Clamp	
記號 Symbol	名稱 Name	圖形 Shape

1 壓板鎖固方式
Clamp Locking Type

A		G		P	
B		J		Q	
C		J2		S	
D		K		V	
E		L		U	
F		L2		X	
G		N		Y	
		N3		Z	
記號 Symbol	圖形 Shape	記號 Symbol	圖形 Shape	記號 Symbol	圖形 Shape

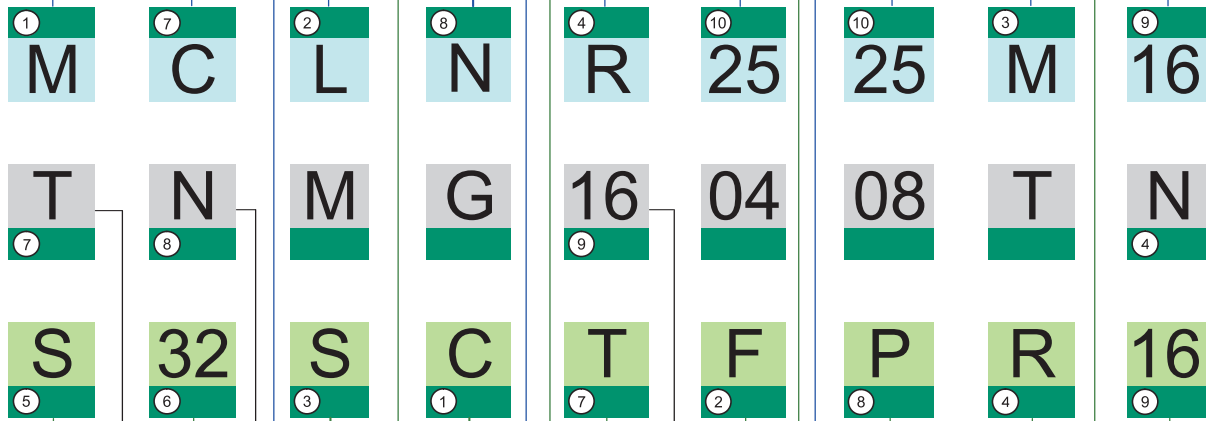
2 進刀角度
Angle

A	32			
B	40	N	160	
C	50	P	170	
D	60	Q	180	
E	70	R	200	
F	80	S	250	
G	90	T	300	
H	100	U	350	
J	110	V	400	
K	125	W	450	
L	140	Y	500	
M	150	X	特殊	
記號 Symbol	長度 Length	記號 Symbol	長度 Length	

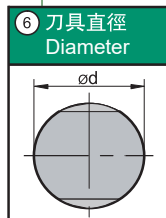
3 長度記號(mm)
Length

L	
N	
R	
記號 Symbol	圖形 Shape

4 切削方向
Direction



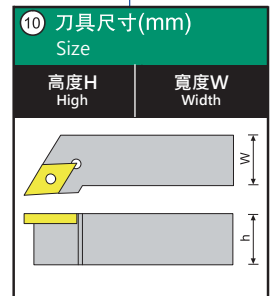
5 刀具材質記號 Flutes Material	
記號 Symbol	說明 Description
S	鋼柄 Steel shank
A	鋼柄+中心水孔 Steel shank +coolant hole
C	鑄鋼柄 Cemented carbide shank with steel head
E	鑄鋼柄+中心水孔 Cemented carbide shank with steel head +coolant hole
H	重金屬 Heavy metal shank



7 刀片形狀 Shape			
記號 Symbol	形狀 Shape	角度 Angle	圖形 Shape
C	菱形 Rhombic	80°	
D		55°	
E		75°	
V	35°	平行四邊形 Rhombic	
K	55°		
R	圓形 Round	—	
S	正方形 Square	90°	
T	正三角形 Triangular	60°	
W	六角形 Hexagonal	80°	

8 離隙角 Relief Angle	
記號 Symbol	離隙角 Relief Angle
B	5°
C	7°
N	0°
P	11°

9 刀片邊寬 Width	
記號 Symbol	圖形 Shape
S	
T	
R	
L	
C D	
E V	
A B K	



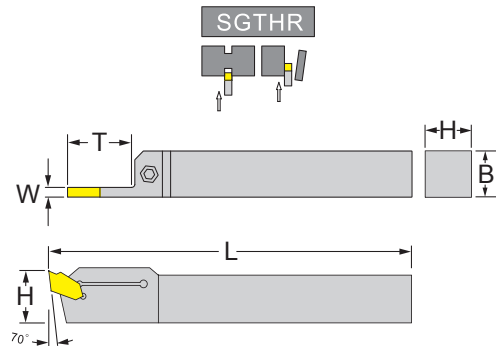
•長度單位 Unit of Length (mm)



SGTHR 切斷刀架

SGTHR CUTTING BLOCK

KOVIT



規格 Spec.	H	B	L	W	T	刀片 Insert	重量 (KGS) Weight
SGTHR-1616-2	16	16	110	2	16	TGTN2	0.24
SGTHR-2020-2	20	20	125	2	18	TGTN2	0.41
SGTHR-2020-3	20	20	125	3	20	TGTN3	0.41
SGTHR-2525-3	25	25	150	3	25	TGTN3	0.67
SGTHR-2525-4	25	25	150	4	30	TGTN4	0.67

配件表 Accessories

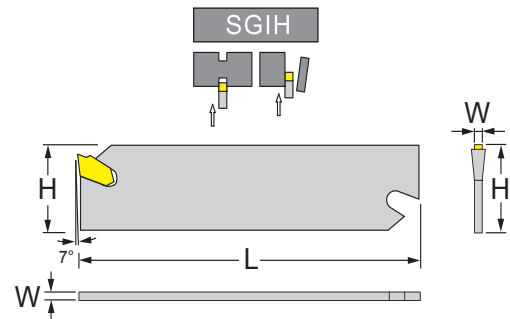
刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
TGTN2	SH-M5-21	PL4	5.0
TGTN3	SH-M6-25	PL5	6.0
TGTN4	SH-M6-25	PL5	6.0



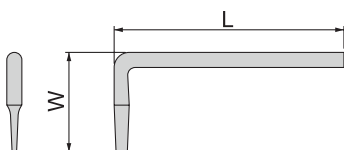
SGIH 切斷刀板

SGIH CUTTING BLOCK

KOVIT

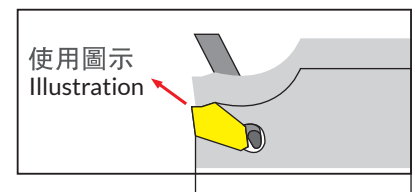


規格 Spec.	L	W	H	刀片 Insert	重量 (KGS) Weight
SGIH-26.3PS-HD	110	2.5	26	TGTN3	0.08
SGIH-32.3PS-HD	150	2.5	32	TGTN3	0.12

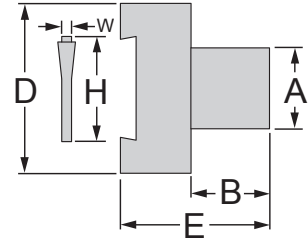
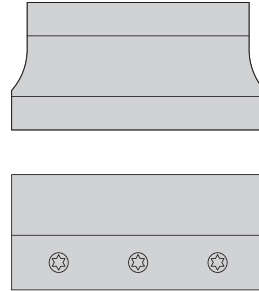


規格 Spec.	L	W	重量 (KGS) Weight
DW-70	70	27	0.02

使用方式：使用拆卸扳手卸下刀片，以免損壞切斷刀具
Instruction: Dismantle insert with a spanner to protect cutters.



•長度單位 Unit of Length (mm)



規格 Spec.	A	B	D	E	H	W	適用刀板	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
COH-26×20	20	20	42	38	26	-	SGIH-26.3PS-HD SGIH-26.4PS-HD	PL5	6.0	0.66
COH-32×20	20	25	48	42	32	-	SGIH-32.3PS-HD	PL5	6.0	0.99
COH-32×25	25	25	48	42	32	-	SGIH-32.4PS-HD	PL5	6.0	1.06

ISO 分類	P	合金鋼 Alloyed Steels	○	○	○										切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting
	M	不鏽鋼 Stainless Steels	○	○											
	K	鑄鐵 Cast Iron	○	○											
N	鋁及鋁合金 Aluminum&Al														
S	高溫合金 Refractory Alloys														
H	高硬度材 Hard Material	○													
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coted micro grain				超硬微粒 Carbide alloy				尺寸 (mm) Size				圖形 Drawing	
		CHF				HF									
		OM4010	OM4025	RM4025		OM5005				d	i	s	r		
	TGTN3	●	●	●		●				-	11.3	3.1	0.2		
	TGTN4	●	●	●		●				-	11.3	4.1	0.25		

TGTN_3.4 切削條件數據表 Cutting Parameter

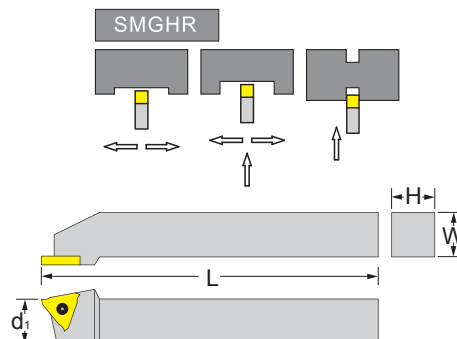
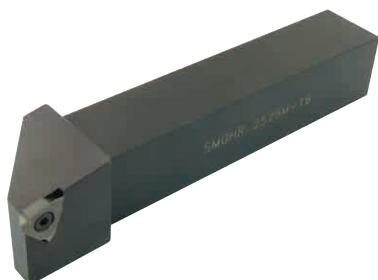
被加工材質 Machining Materials	刀片材質 Grade	切削速度 Vc(m/min)	每刃進給 (mm)
P 合金鋼 Alloyed Steel	OM4010	90~250	0.08(0.06~0.12)
	OM4025	90~230	0.08(0.06~0.12)
	RM4025	90~230	0.08(0.06~0.12)
M 不鏽鋼 Stainless Steels	OM4010	55~110	0.06(0.06~0.12)
	OM4025	55~100	0.06(0.06~0.12)
K 鑄鐵 Cast Iron	OM4025	110~275	0.08(0.06~0.12)
N 鋁合金 Aluminum&Al	OM5005	500~700	0.15(0.15~0.17)

•長度單位 Unit of Length (mm)

SMGHR 截溝車牙刀架

SMGHR THREADING TOOL

KOVIT



特點 Feature

- 採用抗震性工具鋼材質
- 整體預硬後，再行精修，避免二次處理所產生應變

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

規格 Spec.	L	d ₁	W	H	刀片 Insert	重量 (KGS) Weight
SMGHR 2020K16	125	20	20	20	SMGTR16X2 (截溝 Grooving)	0.43
SMGHR 2525M16	150	25	25	25	SMTTR160360 (車牙 Threading)	0.74

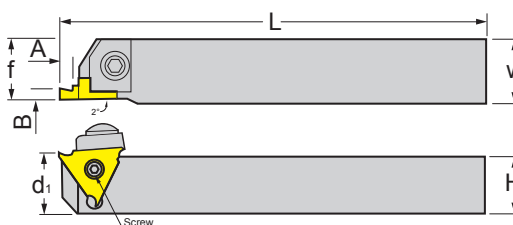
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
SMGTR16X2 (截溝 Grooving)	M4-8.2-6.2-90	T15	3.0
SMTTR160360 (車牙 Threading)	M4-8.2-6.2-90	T15	3.0

WGHR 外徑開槽刀架

WGHR EXTERNAL GROOVING TOOL

KOVIT



規格 Spec.	H	W	L	f	d ₁	A	B	刀片 Insert	重量 (KGS) Weight
WGHR-1616K-4125	16	16	125	20	16	3	1.25~2.3	TGAR 4125 4400	0.29
WGHR-1616K-4235	16	16	125	20	16	4.5	2.3~3.3		0.29
WGHR-1616K-4300	16	16	125	20	16	4.5	3.3~4.7		0.29
WGHR-1616K-4125	20	20	125	25	20	3	1.25~2.3		0.45
WGHR-2020K-4235	20	20	125	25	20	4.5	2.3~3.3		0.45
WGHR-2020K-4300	20	20	125	25	20	4.5	3.3~4.7		0.45
WGHR-2525M-4125	25	25	150	32	25	3	1.25~2.3		0.84
WGHR-2525M-4235	25	25	150	32	25	4.5	2.3~3.3		0.84
WGHR-2525M-4300	25	25	150	32	25	4.5	3.3~4.7		0.84

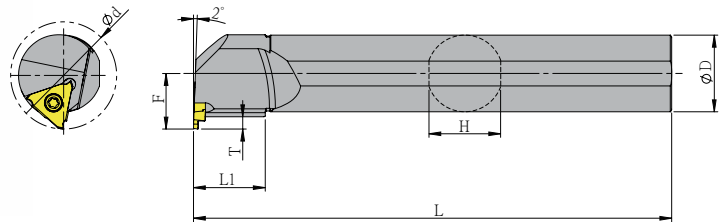
配件表 Accessories

刀片 Insert	彈簧 Spring	壓板 Clamp	壓板螺絲 Clamp Screw	扳手 Wrench	扭力值 (N.m) Torque
TGAR 4125 4400	MES3	MTK1R	HTR623	PL4	5.0

※ 可適用刀片：TGAR/TGER/GB43R ※ Application inserts: TGAR/TGER/GB43R

• 長度單位 Unit of Length (mm)

NEW



規格 Spec.	D	d	L	L2	刀片 Insert	重量 (KGS) Weight
S32S-SGHR-43	40	32	250	30	TGAR 4125 I 4400	0.43

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque
TGAR 4125 I 4400	M5-11-7.0-55	TL20	5



範例 Example

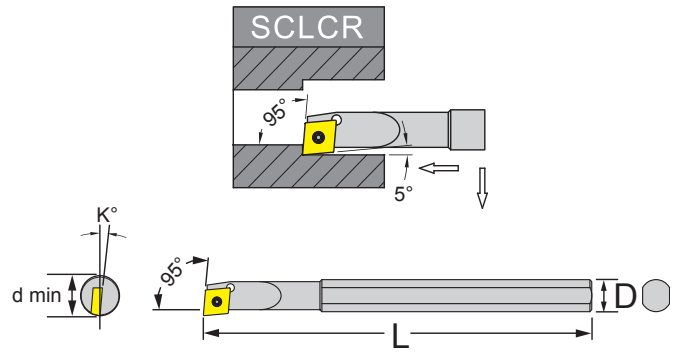
適用加工 O 型環槽
Suitable for processing O-ring grooves.

•長度單位 Unit of Length (mm)

SCLCR 內徑車刀架

SCLCR INTERNAL TURNING TOOL

KOVIT

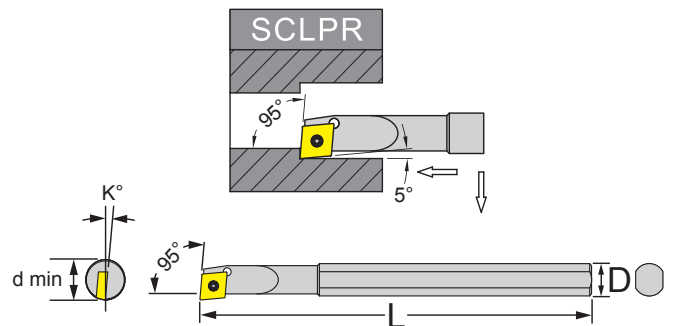


規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S08K-SCLCR-06	125	8	10	CC..0602	M2.5-6.0-3.5-60	T8	1.2	0.06
S10K-SCLCR-06	125	10	12	CC..0602	M2.5-6.0-3.5-60	T8	1.2	0.09
S12M-SCLCR-06	150	12	16	CC..0602	M2.5-6.0-3.5-60	T8	1.2	0.14
S16Q-SCLCR-09T	180	16	20	CC..09T3	M4-8.0-5.7-60	T15	3.0	0.30
S20R-SCLCR-09T	200	20	25	CC..09T3	M4-10-5.7-60	T15	3.0	0.50
S25S-SCLCR-09T	250	25	32	CC..09T3	M4-10-5.7-60	T15	3.0	0.86

SCLPR 內徑車刀架

SCLPR INTERNAL TURNING TOOL

KOVIT



規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S08H-SCLPR-06	100	8	10	CP..0602	M2.5-6.0-3.5-60	T8	1.2	0.06
S10K-SCLPR-06	125	10	12	CP..0602	M2.5-6.0-3.5-60	T8	1.2	0.09
S12M-SCLPR-06	150	12	16	CP..0602	M2.5-6.0-3.5-60	T8	1.2	0.15
S16Q-SCLPR-09	180	16	20	CP..0903	M4-10-5.7-60	T15	3.0	0.30
S20R-SCLPR-09	200	20	25	CP..0903	M4-10-5.7-60	T15	3.0	0.49
S25R-SCLPR-09	200	25	30	CP..0903	M4-10-5.7-60	T15	3.0	0.93

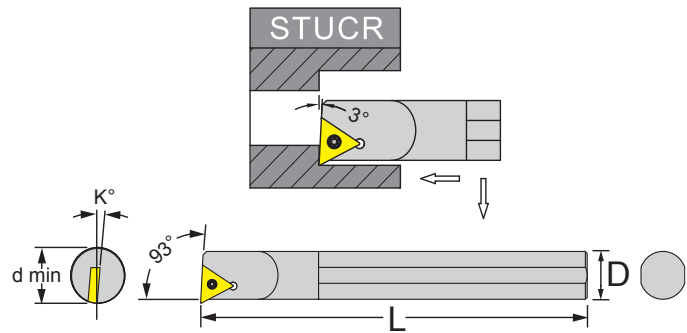
•長度單位 Unit of Length (mm)



STUCR 內徑車刀架

STUCR INTERNAL TURNING TOOL

KOVIT



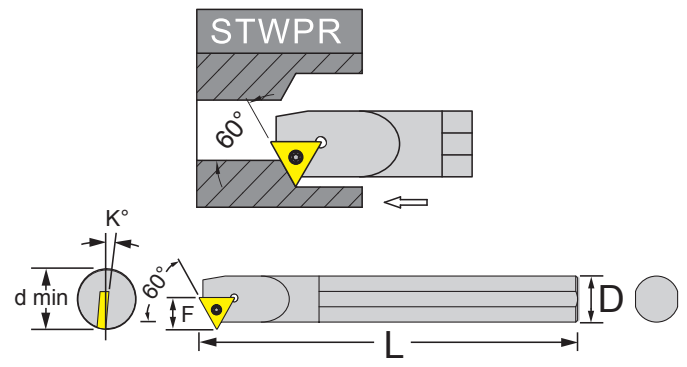
規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S08H-STUCR-09	100	8	10	TC..0902	M2.2-5.5-3.4-60	T7	0.9	0.05
S10K-STUCR-11	125	10	12	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.09
S12M-STUCR-11	150	12	16	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.14
S16Q-STUCR-11	180	16	20	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.28
S20R-STUCR-16	200	20	25	TC..16T3	M4-10-5.0-43	T15	3.0	0.48
S25R-STUCR-16	200	25	30	TC..16T3	M4-10-5.0-43	T15	3.0	0.86



STWPR/STWCR 內徑車刀架

STWPR/STWCR INTERNAL TURNING TOOL

KOVIT



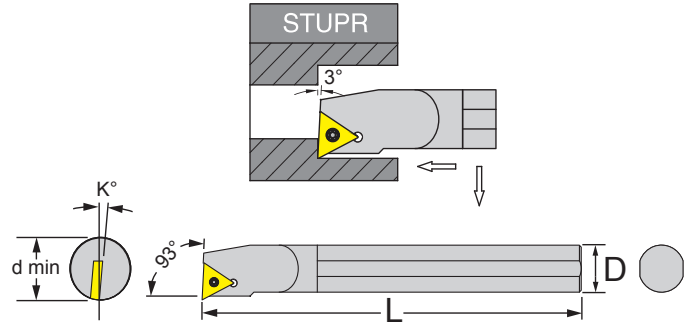
規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S08K-STWPR-09	125	8	11	TP.0902	M2.5-6.0-3.5-60	T8	1.2	0.06
S10K-STWCR-09	125	10	10	TC..0902	M2.2-5.5-3.4-60	T7	0.9	0.08
S10K-STWCR-11	125	10	13	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.09
S12M-STWCR-11	150	12	16	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.12
S16M-STWPR-09	150	16	16	TP.0902	M2.5-6.0-3.5-60	T8	1.2	0.22
S16Q-STWCR-11	180	16	20	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.29
S20R-STWCR-11	200	20	25	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.47

•長度單位 Unit of Length (mm)

STUBR/STUPR 內徑車刀架

STUBR/STUPR INTERNAL TURNING TOOL

KOVIT

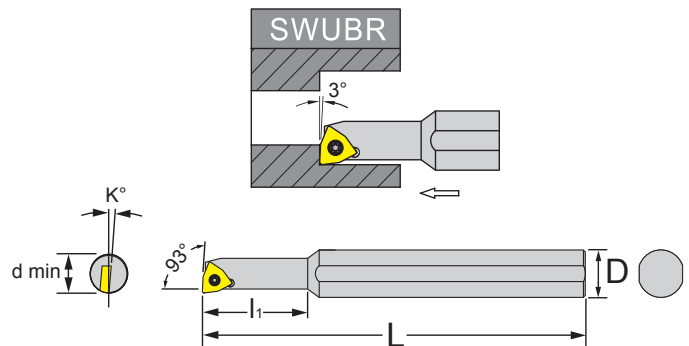


規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S0806H-STUBR-06	100	8	8	TB..0601	M2-3.8-2.68-43	T6	0.6	0.05
S08H-STUPR-09	100	8	10	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.05
S10K-STUPR-09	125	10	12	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.11
S10K-STUPR-11	125	10	12	TP..1103	M3-8.0-4.0-43	T9	1.4	0.09
S12M-STUPR-11	150	12	16	TP..1103	M3-8.0-4.0-43	T9	1.4	0.14
S16Q-STUPR-11	180	16	20	TP..1103	M3-8.0-4.0-43	T9	1.4	0.30
S20R-STUPR-11	200	20	25	TP..1103	M3-8.0-4.0-43	T9	1.4	0.49
S20R-STUPR-1603	200	20	25	TP..1603	M4-10-5.7-60	T15	3.0	0.48
S25S-STUPR-1603	250	25	32	TP..1603	M4-10-5.7-60	T15	3.0	0.85

SWUBR 內徑車刀架

SWUBR INTERNAL TURNING TOOL

KOVIT



規格 Spec.	L	l ₁	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S1005H-SWUBR-06	100	15	10	6	WB..0601	M2-3.8-2.68-43	T6	0.6	0.08
S1006H-SWUBR-06	100	18	10	7	WB..0601	M2-3.8-2.68-43	T6	0.6	0.09

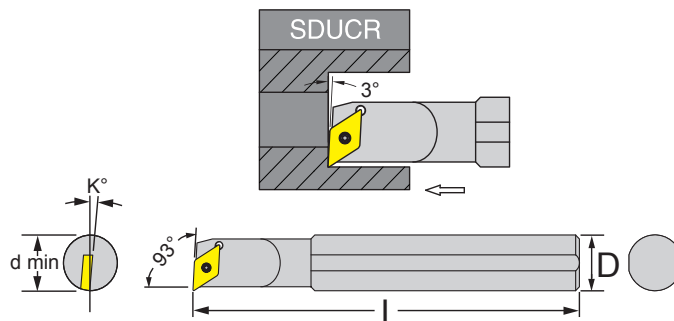
•長度單位 Unit of Length (mm)



SDUCR 內徑車刀架

SDUCR INTERNAL TURNING TOOL

KOVIT



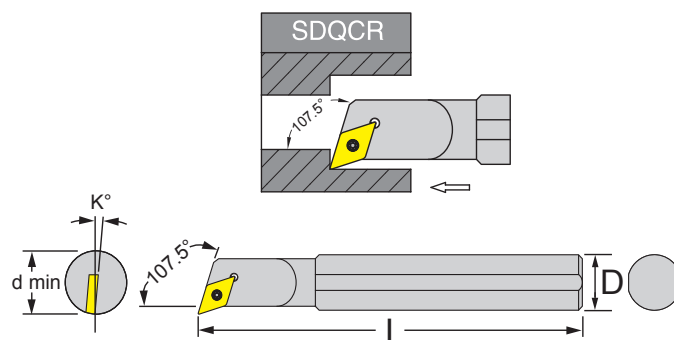
規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S10K-SDUCR-07	125	10	13	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.09
S12M-SDUCR-07	150	12	16	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.15
S16Q-SDUCR-11	180	16	20	DC..11T3	M4-10-5.7-60	T15	3.0	0.30
S20R-SDUCR-11	200	20	25	DC..11T3	M4-10-5.7-60	T15	3.0	0.49
S25R-SDUCR-11	200	25	32	DC..11T3	M4-10-5.7-60	T15	3.0	0.87



SDQCR 內徑車刀架

SDQCR INTERNAL TURNING TOOL

KOVIT



規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S10K-SDQCR-07	125	10	13	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.09
S12M-SDQCR-07	150	12	16	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.14
S16Q-SDQCR-07	180	16	20	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.28
S20R-SDQCR-11	200	20	25	DC..11T3	M4-10-5.7-60	T15	3.0	0.48
S25R-SDQCR-11	200	25	32	DC..11T3	M4-10-5.7-60	T15	3.0	0.84

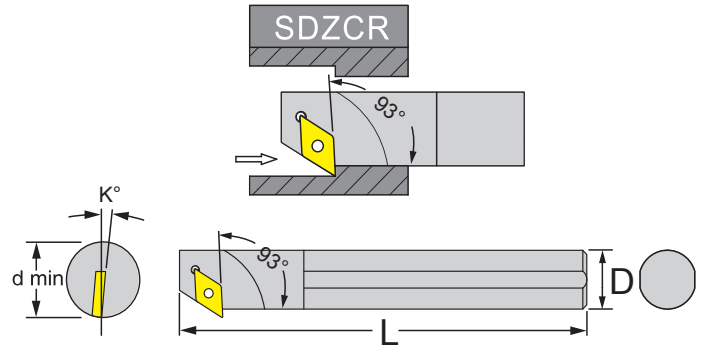
•長度單位 Unit of Length (mm)



SDZCR 內徑車刀架

SDZCR INTERNAL TURNING TOOL

KOVIT



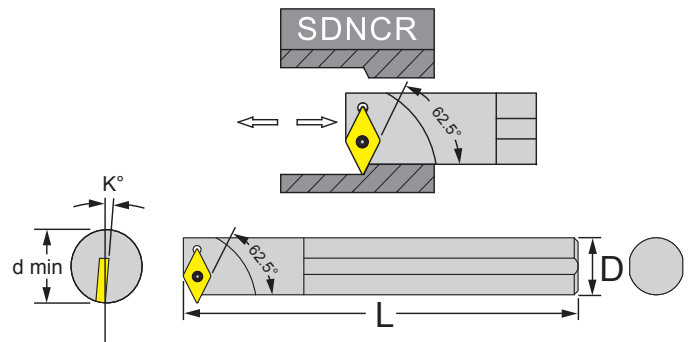
規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S10M-SDZCR-07	150	10	14	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.10
S12M-SDZCR-07	150	12	17	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.15
S16Q-SDZCR-07	180	16	21	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.29
S20R-SDZCR-11	200	20	26	DC..11T3	M4-10-5.7-60	T15	3.0	0.48
S25R-SDZCR-11	200	25	33	DC..11T3	M4-10-5.7-60	T15	3.0	0.74



SDNCR 內徑車刀架

SDNCR INTERNAL TURNING TOOL

KOVIT



規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S16Q-SDNCR-07	180	16	20	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.28
S20R-SDNCR-11	200	20	25	DC..11T3	M4-10-5.7-60	T15	3.0	0.49
S25R-SDNCR-11	200	25	32	DC..11T3	M4-10-5.7-60	T15	3.0	0.86

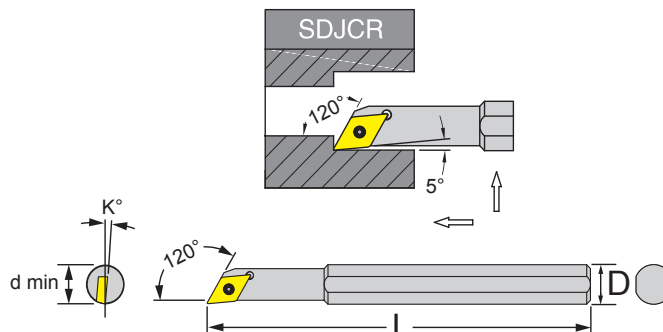
•長度單位 Unit of Length (mm)



SDJCR 內徑車刀架

SDJCR INTERNAL TURNING TOOL

KOVIT



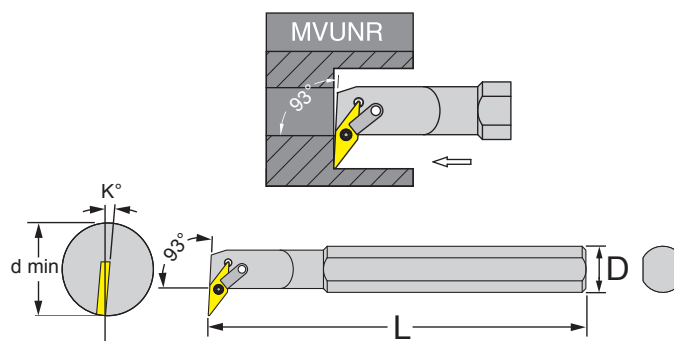
規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S08H-SDJCR-07	100	8	10	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.07
S10K-SDJCR-07	125	10	12	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.10
S12M-SDJCR-07	150	12	14	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.15
S16Q-SDJCR-07	180	16	19	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.28
S16Q-SDJCR-11	180	16	19	DC..11T3	M4-10-5.7-60	T15	3.0	0.29
S20R-SDJCR-11	200	20	23	DC..11T3	M4-10-5.7-60	T15	3.0	0.48
S25R-SDJCR-11	200	25	28	DC..11T3	M4-10-5.7-60	T15	3.0	0.85



MVUNR 內徑車刀架

MVUNR INTERNAL TURNING TOOL

KOVIT



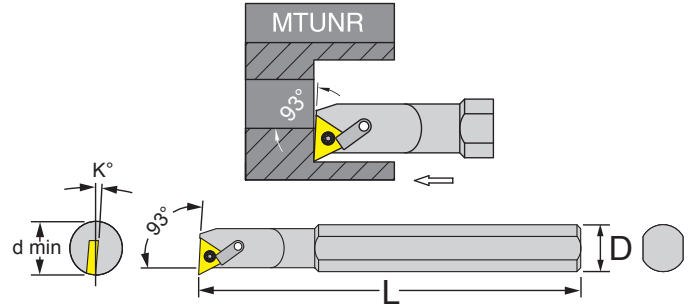
規格 Spec.	L	D	d	刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S25R-MVUNR-16	200	25	32	VN..1604	-	MLP33L	PL2	3.0	MC515	MS520	PL2.5	5.0	0.86
S32S-MVUNR-16	250	32	40		VMS322	MLP34L			MC620	MS625	PL3		1.56

•長度單位 Unit of Length (mm)

MTUNR 內徑車刀架

MTUNR INTERNAL TURNING TOOL

KOVIT

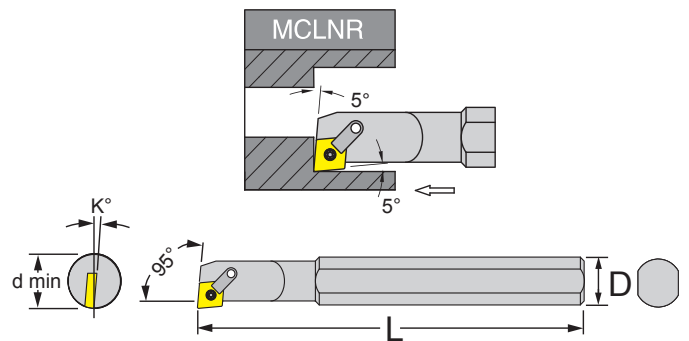


規格 Spec.	L	D	d	刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20R-MTUNR-16	200	20	25	TN..1604	-	MLP33L	PL2	3.0	MC515	MS520	PL2.5	5.0	0.48
S25R-MTUNR-16	200	25	30	TN..1604	-	MLP33L	PL2	3.0	MC515	MS520	PL2.5	5.0	0.94
S32S-MTUNR-16	250	32	40	TN..1604	TMS322	MLP34L	PL2	3.0	MC620	MS625	PL3	5.0	1.56

MCLNR 內徑車刀架

MCLNR INTERNAL TURNING TOOL

KOVIT



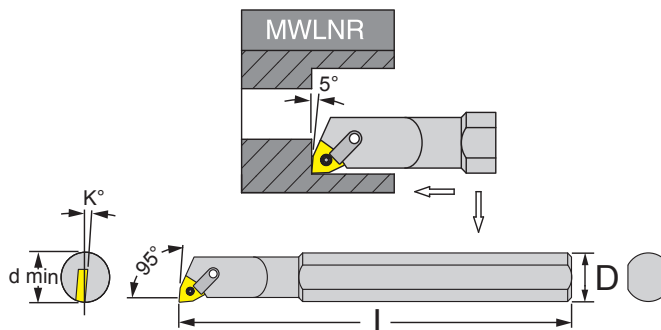
規格 Spec.	L	D	d	刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20R-MCLNR-12	200	20	25	CN..1204	-	MLP44	PL2.5	5.0	MC620	MS620	PL3	5.0	0.48
S25R-MCLNR-12	200	25	30	CN..1204	-	MLP44	PL2.5	5.0	MC620	MS620	PL3	5.0	0.94
S32S-MCLNR-12	250	32	40	CN..1204	CMS432	MLP46	PL2.5	5.0	MC620	MS625	PL3	5.0	1.56

•長度單位 Unit of Length (mm)



MWLNR 內徑車刀架 MWLNR INTERNAL TURNING TOOL

KOVIT

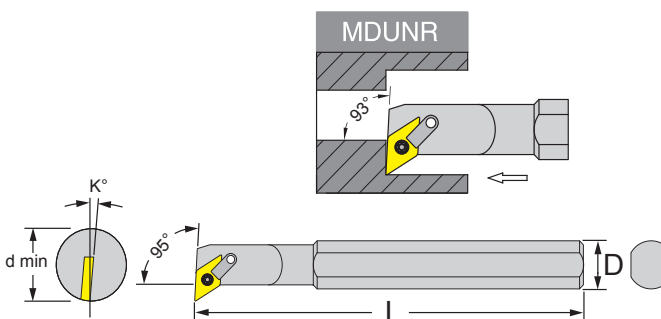


規格 Spec.	L	D	d	刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20R-MWLNR-08	200	20	25	WN..0804	-	MLP44	PL2.5	5.0	MC515	MS520	PL2.5	5.0	0.47
S25R-MWLNR-08	200	25	30	WN..0804	-	MLP44	PL2.5	5.0	MC515	MS520	PL2.5	5.0	0.85
S32S-MWLNR-08	250	32	40	WN..0804	WMS432	MLP46	PL2.5	5.0	MC515	MS520	PL2.5	5.0	1.54



MDUNR 內徑車刀架 MDUNR INTERNAL TURNING TOOL

KOVIT



規格 Spec.	L	D	d	刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S25R-MDUNR-15	200	25	32	DN..1504	-	MLP44	PL2.5	5.0	MC620	MS620	PL3	5.0	0.86
S32S-MDUNR-15	250	32	40	DN..1504	-	MLP46	PL2.5	5.0	MC620	MS625	PL3	5.0	1.6

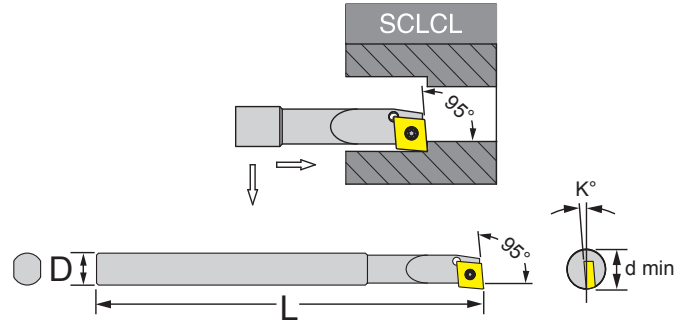
•長度單位 Unit of Length (mm)

SCLCL 內徑車刀架

SCLCL INTERNAL TURNING TOOL

KOVIT

左旋
Counterclockwise



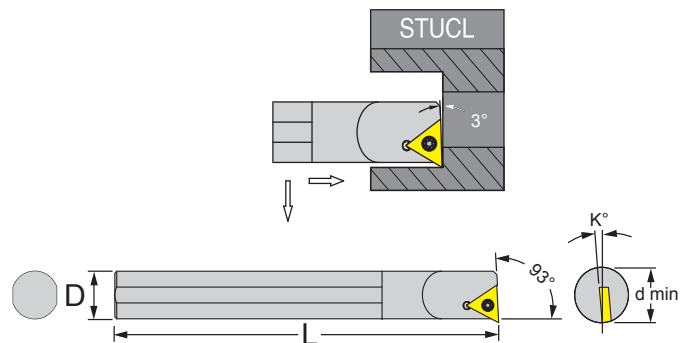
規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S08K-SCLCL-06	100	8	10	CC..0602	M2.5-6.0-3.5-60	T8	1.2	0.07
S10K-SCLCL-06	125	10	12	CC..0602	M2.5-6.0-3.5-60	T8	1.2	0.01
S12M-SCLCL-06	150	12	16	CC..0602	M2.5-6.0-3.5-60	T8	1.2	0.14
S16Q-SCLCL-09T	180	16	20	CC..09T3	M4-10-5.7-60	T15	3.0	0.30
S20R-SCLCL-09T	200	20	25	CC..09T3	M4-10-5.7-60	T15	3.0	0.49
S25R-SCLCL-09T	200	25	30	CC..09T3	M4-10-5.7-60	T15	3.0	0.77

STUCL 內徑車刀架

STUCL INTERNAL TURNING TOOL

KOVIT

左旋
Counterclockwise



規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S08H-STUCL-09	100	8	10	TC..0902	M2.5-6.0-3.5-60	T8	1.2	0.07
S10K-STUCL-11	125	10	12	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.09
S12M-STUCL-11	150	12	16	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.15
S16Q-STUCL-11	180	16	20	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.29
S20R-STUCL-16	200	20	25	TC..16T3	M4-10-5.0-43	T15	3.0	0.49
S25R-STUCL-16	200	25	30	TC..16T3	M4-10-5.0-43	T15	3.0	0.95

•長度單位 Unit of Length (mm)

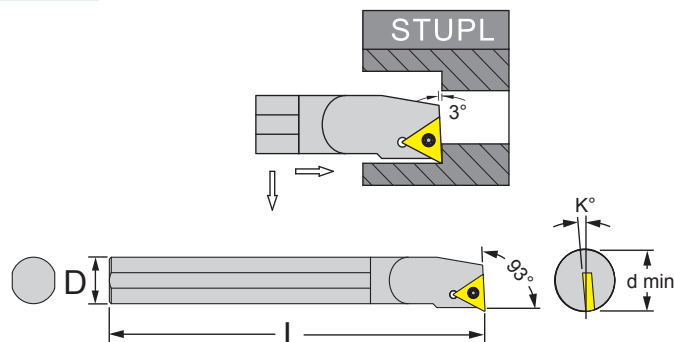


STUBL/STUPL 內徑車刀架

STUBL/STUPL INTERNAL TURNING TOOL

KOVIT

左旋
Counterclockwise



規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S0806H-STUBL-06	100	8	8	TB..0601	M2-3.8-2.68-43	T6	0.6	0.06
S08H-STUPL-09	125	8	10	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.06
S10K-STUPL-09	125	10	12	TP..0902	M2.5-6.0-3.5-60	T8	1.2	0.06
S10K-STUPL-11	125	10	12	TP..1103	M3-8.0-4.0-43	T9	1.4	0.10
S12M-STUPL-11	150	12	16	TP..1103	M3-8.0-4.0-43	T9	1.4	0.14
S16Q-STUPL-11	180	16	20	TP..1103	M3-8.0-4.0-43	T9	1.4	0.28
S20R-STUPL-11	200	20	25	TP..1103	M3-8.0-4.0-43	T9	1.4	0.50
S20R-STUPL-1603	200	20	25	TP..1603	M4-10-5.7-60	T15	3.0	0.48
S25R-STUPL-1603	200	25	30	TP..1603	M4-10-5.7-60	T15	3.0	0.86

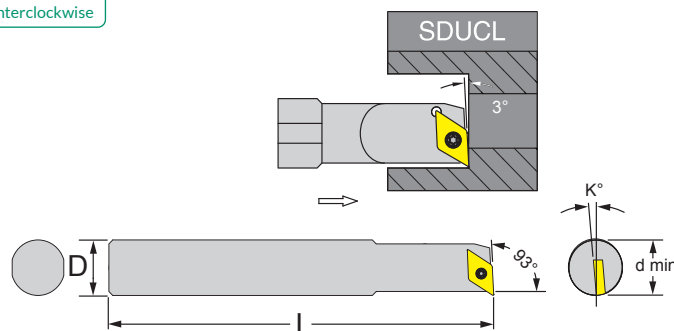


SDUCL 內徑車刀架

SDUCL INTERNAL TURNING TOOL

KOVIT

左旋
Counterclockwise



規格 Spec.	L	D	有效孔徑 d	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S10K-SDUCL-07	125	10	13	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.09
S12M-SDUCL-07	150	12	16	DC..0702	M2.5-6.0-3.5-60	T8	1.2	0.09
S16Q-SDUCL-11	180	16	20	DC..11T3	M4-10-5.7-60	T15	3.0	0.30
S20R-SDUCL-11	200	20	25	DC..11T3	M4-10-5.7-60	T15	3.0	0.48
S25R-SDUCL-11	200	25	32	DC..11T3	M4-10-5.7-60	T15	3.0	0.75

•長度單位 Unit of Length (mm)

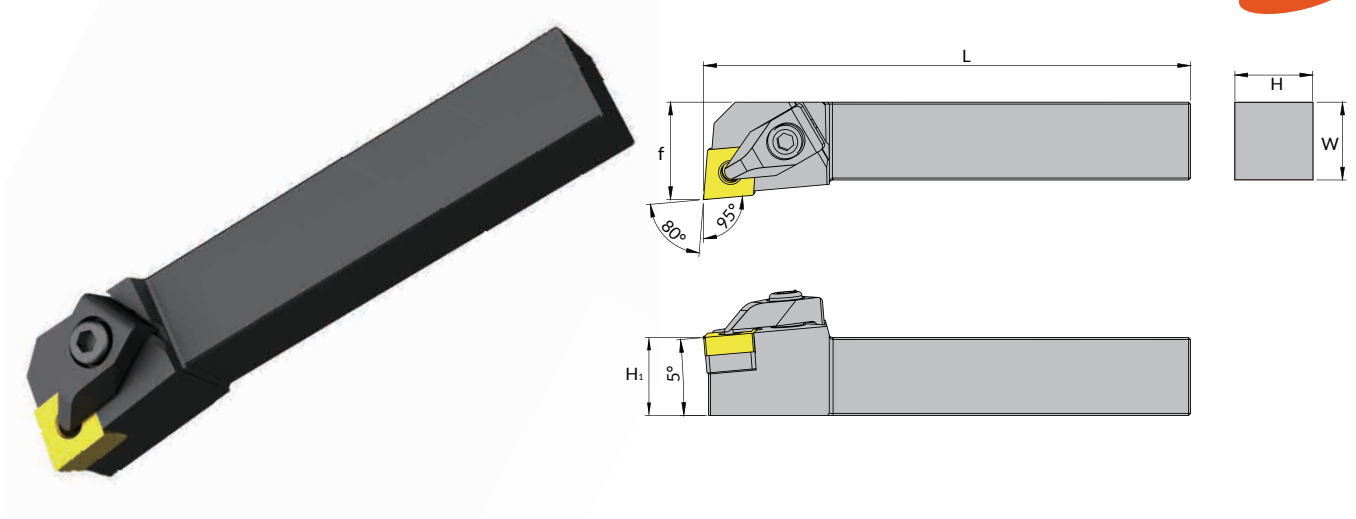
DCLNR 外徑車刀

DCLNR EXTERNAL TURNING TOOL

D 型壓板設計 Type D Clamp Design

KOVIT

NEW



特點 Feature

- 刀片鎖固定位性佳
- 剛性夾持·強力鎖固
- 輕鬆轉位
- 減少換刀校刀時間

- The blade lock has good fixation.
- Rigid clamping and strong locking.
- Easy transposition.
- Reduce tool change and calibration time.

規格 Spec.	L	H	W	H1	f	刀片 insert	重量 (KGS) Weight
DCLNR-2020K-12	125	20	20	20	25	CN..1204	0.45
DCLNR-2525M-12	150	25	25	25	32	CN..1204	0.8

配件表 Accessories

規格 Spec.	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	彈簧 Spring	扳手 Wrench	扭力值 (N.m) Torque
DCLNR-2020K-12	CNS1204	M4-10-5.7-60	T15	3	DCP-2	M5-20-4.9	DCS-2	PL4	5
DCLNR-2525M-12									

•長度單位 Unit of Length (mm)

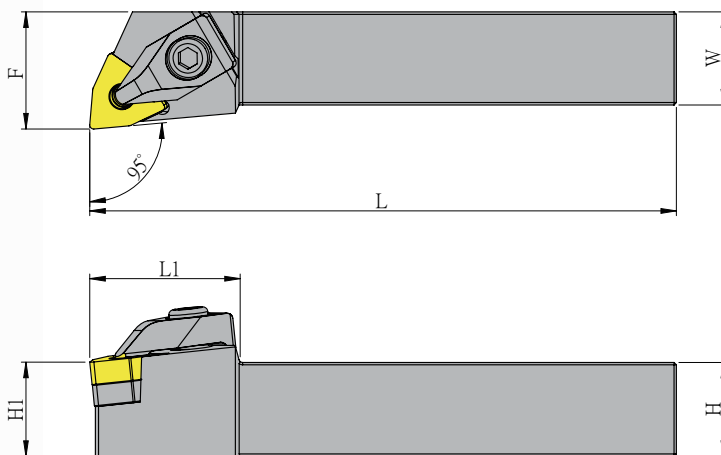


DWLNR 外徑車刀 DWLNR EXTERNAL TURNING TOOL

D 型壓板設計 Type D Clamp Design

KOVIT

NEW



特點 Feature

- 刀片鎖固定位性佳
- 剛性夾持·強力鎖固
- 輕鬆轉位
- 減少換刀校刀時間

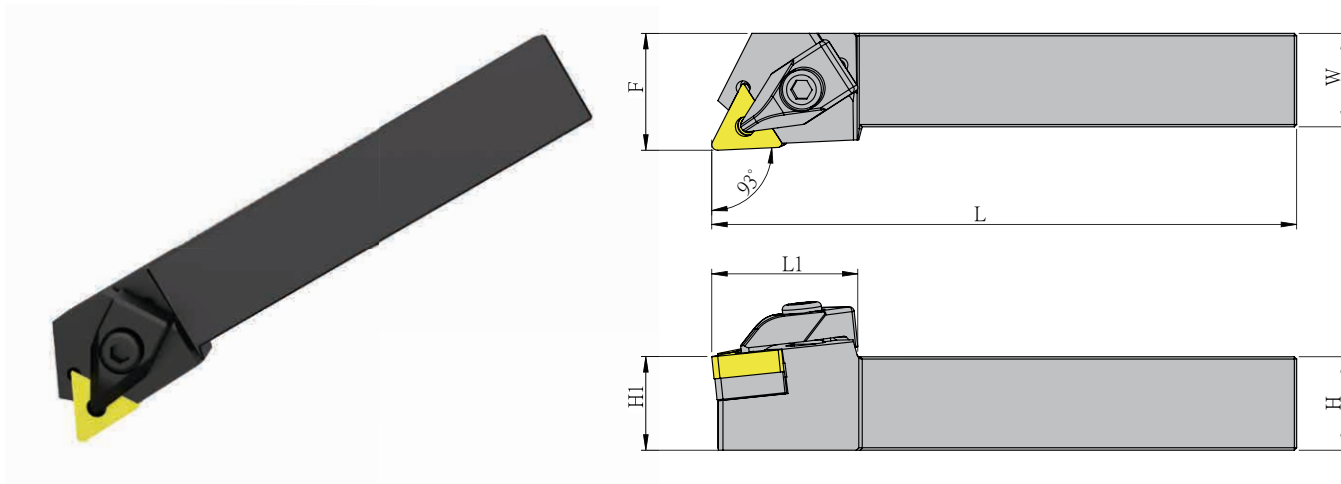
- The blade lock has good fixation.
- Rigid clamping and strong locking.
- Easy transposition.
- Reduce tool change and calibration time.

規格 Spec.	L	H	W	H1	f	刀片 insert	重量 (KGS) Weight
DWLNR-2020K-08	125	20	20	20	25	WN..0804	0.45
DWLNR-2525M-08	150	25	25	25	32	WN..0804	0.8

配件表 Accessories

規格 Spec.	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	彈簧 Spring	扳手 Wrench	扭力值 (N.m) Torque
DWLNR-2020K-08	WNS0804	M5-12-7.1-70	T20	3	DCP-2	M5-20-4.9	DCS-2	PL4	5
DWLNR-2525M-08									

•長度單位 Unit of Length (mm)



特點 Feature

- 刀片鎖固定位性佳
- 剛性夾持·強力鎖固
- 輕鬆轉位
- 減少換刀校刀時間

- The blade lock has good fixation.
- Rigid clamping and strong locking.
- Easy transposition.
- Reduce tool change and calibration time.

規格 Spec.	L	H	W	H1	f	刀片 insert	重量 (KGS) Weight
DTJNR-2020K-16	125	20	20	20	25	TN..1604	0.45
DTJNR-2525M-16	150	25	25	25	32	TN..1604	0.8

配件表 Accessories

規格 Spec.	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	彈簧 Spring	扳手 Wrench	扭力值 (N.m) Torque
DTJNR-2020K-16	TNS1604	M4-9-5.15-47	T15	3	DCP-1	M5-20-4.9	DCS-2	PL4	5
DTJNR-2525M-16									

•長度單位 Unit of Length (mm)



WTJNR/WTJNL 外徑車刀架

WTJNR/WTJNL EXTERNAL TURNING TOOL

KOVIT

Fig.1

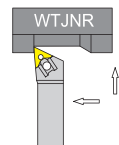


Fig.2



Fig.1

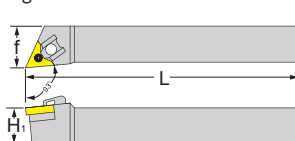
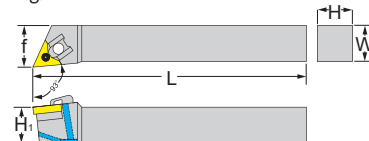


Fig.2



規格 Spec.	L	H	W	H ₁	f	刀片 Insert	Fig.	重量 (KGS) Weight
WTJNR-1616K-16	125	16	16	16	21	TN..1604	1	0.31
WTJNL-1616K-16	125	16	16	16	21	TN..1604	1	0.25
WTJNR-2020K-16	125	20	20	20	25	TN..1604	1	0.44
WTJNL-2020K-16	125	20	20	20	25	TN..1604	1	0.45
WTJNR-2525M-16	150	25	25	25	32	TN..1604	1	0.78
WTJNL-2525M-16	150	25	25	25	32	TN..1604	1	0.77
WTJNR-A2020K-16JET	125	20	20	20	25	TN..1604	2	0.44
WTJNR-A2525M-16JET	150	25	25	25	32	TN..1604	2	0.78

• 出水型 Coolant Type

配件表 Accessories

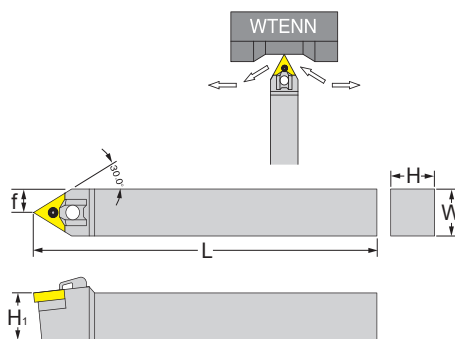
規格 Spec.	螺絲 Screw	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque	C扣 C Ring	墊圈 Shim
WTJNR/L-1616K-16	MCS3S-11	TWS322	MCP3	PL3	5.0	MCW3	MCS3	PL4	5.0	E4	E5
WTJNR/L-2020K-16											
WTJNR/L-2525M-16											
WTJNR-A2020K-16JET											
WTJNR-A2525M-16JET											



WTENN 外徑車刀架

WTENN EXTERNAL TURNING TOOL

KOVIT



規格 Spec..	L	H	W	H ₁	f	刀片 Insert	重量 (KGS) Weight
WTENN-2020K-16	125	20	20	20	10	TN..1604	0.42
WTENN-2525M-16	150	25	25	25	12.5	TN..1604	0.75

配件表 Accessories

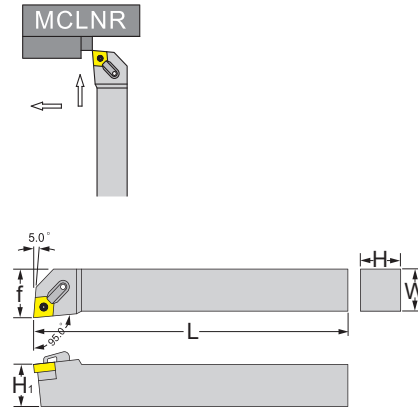
規格 Spec..	螺絲 Screw	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque	C扣 C Ring	墊圈 Shim
WTENN-2020K-16	MCS3S-09	TWS322	MCP3	PL3	5.0	MCW3	MCS3	PL4	5.0	E4	E5
WTENN-2525M-16											

• 長度單位 Unit of Length (mm)

MCLNR/MCLNL 外徑車刀架

MCLNR/MCLNL EXTERNAL TURNING TOOL

KOVIT



規格 Spec.	L	H	W	H ₁	f	刀片 Insert	Fig.	重量 (KGS) Weight
MCLNR-2020K-12	125	20	20	20	25	CN..1204	1	0.45
MCLNL-2020K-12	125	20	20	20	25	CN..1204	1	0.44
MCLNR-2525M-12	150	25	25	25	32	CN..1204	1	0.82
MCLNL-2525M-12	150	25	25	25	32	CN..1204	1	0.79

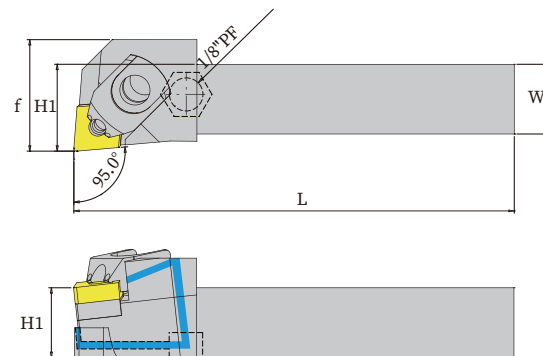
配件表 Accessories

規格 Spec.	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
MCLNR/L-2020K-12	CMS432	MLP46	PL2.5	5.0	MC620	MS625	PL3	5.0
MCLNR/L-2525M-12	CMS432	MLP46	PL2.5	5.0	MC620	MS630	PL3	5.0

WCLNR 出水外徑車刀架

WCLNR EXTERNAL TURNING TOOL

KOVIT



規格 Spec.	L	H	W	H ₁	f	刀片 Insert	Fig.	重量 (KGS) Weight
WCLNR-A2020K-12JET	125	20	20	20	25	CN..1204	2	0.45
WCLNR-A2525M-12JET	150	25	25	25	32	CN..1204	2	0.82

配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
WCLNR-A2020K-12JET	CMS432	MLP46	PL2.5	5.0	MC620	MS625	PL3	5.0
WCLNR-A2525M-12JET								

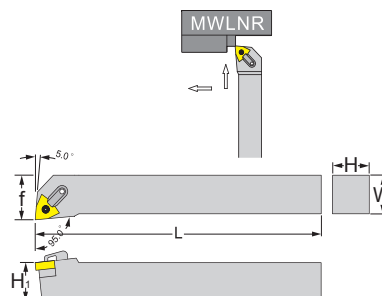
•長度單位 Unit of Length (mm)



MWLNR/MWLNL 外徑車刀架

MWLNR/MWLNL EXTERNAL TURNING TOOL

KOVIT



規格 Spec.	L	H	W	H ₁	f	刀片 Insert	重量 (KGS) Weight
MWLNR-2020K-08	125	20	20	20	25	WN..0804	0.45
MWLNL-2020K-08	125	20	20	20	25	WN..0804	0.44
MWLNR-2525M-08	150	25	25	25	32	WN..0804	0.80
MWLNL-2525M-08	150	25	25	25	32	WN..0804	0.79

配件表 Accessories

規格 Spec.	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
MWLNR/L-2020K-08	WMS432	MLP46	PL2.5	5.0	MC620	MS625	PL3	5.0
MWLNR/L-2525M-08						MS630		

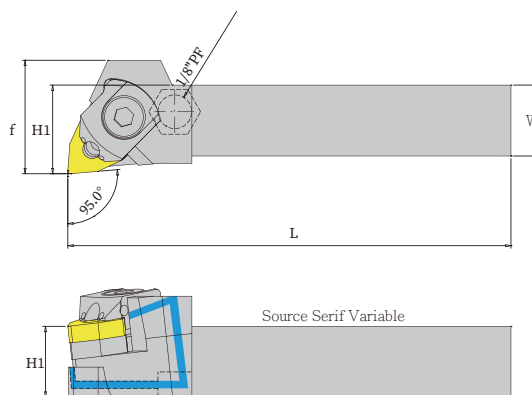


WWLNR 出水外徑車刀架

WWLNR EXTERNAL TURNING TOOL

KOVIT

NEW



規格 Spec.	L	H	W	H ₁	f	刀片 Insert	重量 (KGS) Weight
WWLNR-A2020K-08JET	125	20	20	20	25	WN..0804	-
WWLNR-A2525M-08JET	150	25	25	25	32	WN..0804	-

配件表 Accessories

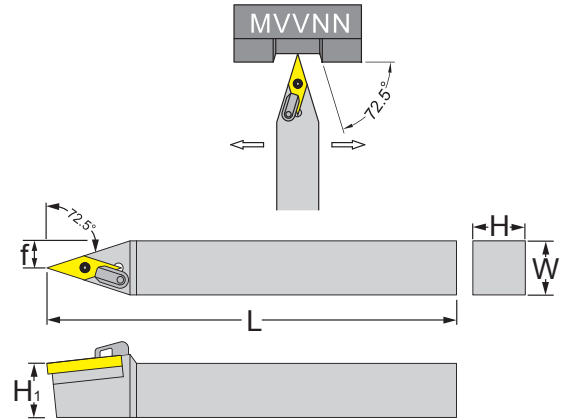
規格 Spec.	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
WWLNR-A2020K-08JET	WMS432	MLP46	PL2.5	5.0	MC620	MS625	PL3	5.0
WWLNR-A2525M-08JET								

•長度單位 Unit of Length (mm)

MVVNN 外徑車刀架

MVVNN EXTERNAL TURNING TOOL

KOVIT



規格 Spec.	L	H	W	H ₁	f	刀片 Insert	重量 (KGS) Weight
MVVNN-2020K-16	125	20	20	20	10	VN..1604	0.43
MVVNN-2525M-16	150	25	25	25	12.5	VN..1604	0.75

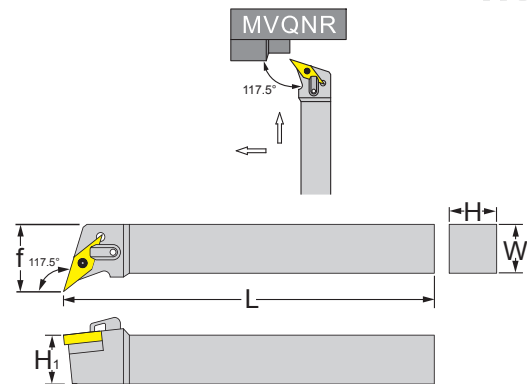
配件表 Accessories

規格 Spec.	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
MVVNN-2020K-16	VMS322	MLP34L	PL2	3.0	MC622	MS625	PL3	5.0
MVVNN-2525M-16						MS630		

MVQNR 外徑車刀架

MVQNR EXTERNAL TURNING TOOL

KOVIT



規格 Spec.	L	H	W	H ₁	f	刀片 Insert	重量 (KGS) Weight
MVQNR-2020K-16	125	20	20	20	25	VN..1604	0.45
MVQNR-2525M-16	150	25	25	25	32	VN..1604	0.79

配件表 Accessories

規格 Spec.	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
MVQNR-2020K-16	VMS322	MLP34L	PL2	3.0	MC622	MS625	PL3	5.0
MVQNR-2525M-16						MS625		

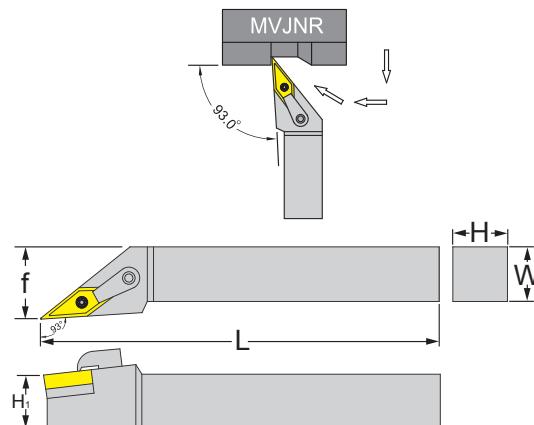
•長度單位 Unit of Length (mm)



MVJNR 外徑車刀架

MVJNR EXTERNAL TURNING TOOL

KOVIT



規格 Spec.	L	H	W	H ₁	f	刀片 Insert	重量 (KGS) Weight
MVJNR-2020K-16	125	20	20	20	25	VN..1604	0.44
MVJNR-2525M-16	150	25	25	25	32	VN..1604	0.76

配件表 Accessories

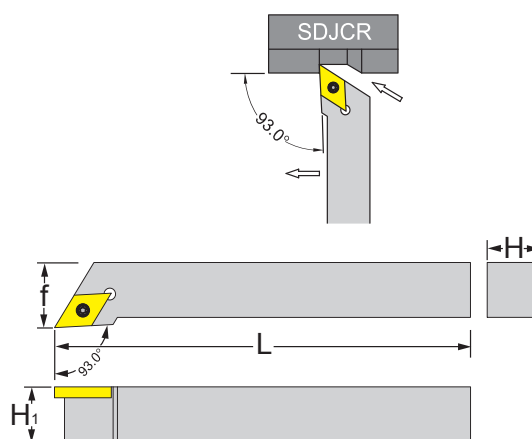
刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque
MVJNR-2020K-16	VMS322	MLP34L	PL2	3.0	MC622	MS625	PL3	5.0
MVJNR-2525M-16						MS630		



SDJCR 外徑車刀架

SDJCR EXTERNAL TURNING TOOL

KOVIT



規格 Spec.	L	H	H ₁	f	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
SDJCR-1616K-11	120	16	16	20	DC..11T3	M4-10-5.7-60	T15	3.0	0.28
SDJCR-2020K-11	125	20	20	25	DC..11T3	M4-10-5.7-60	T15	3.0	0.41

•長度單位 Unit of Length (mm)



SDJ2CR 外徑車刀架

SDJ2CR EXTERNAL TURNING TOOL

KOVIT

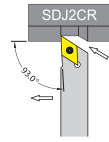


Fig.1

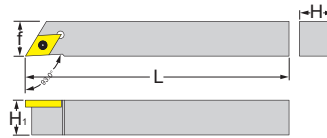
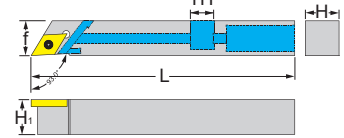


Fig.2



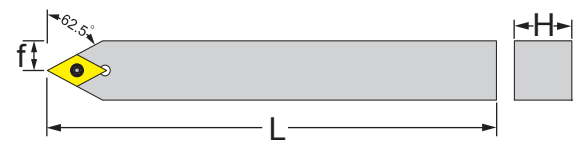
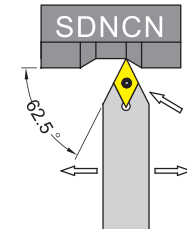
規格 Spec.	L	H	H ₁	f	TH	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
SDJ2CR-1212H-11	100	12	12	12	-	DC..11T3	M4-10-5.7-60	T15	3.0	1	0.13
SDJ2CR-1616K-11	125	16	16	16	-	DC..11T3	M4-10-5.7-60	T15	3.0	1	0.26
ZSDJ2CR-A1212K-11	125	12	12	10	1/8"	DC..11T3	M2.5-6.0-3.5-60	T8	3.0	2	0.13
ZSDJ2CR-A1616K-11	125	16	16	14	1/8"	DC..11T3	M2.5-6.0-3.5-60	T8	3.0	2	0.26



SDNCN 外徑車刀架

SDNCN EXTERNAL TURNING TOOL

KOVIT



規格 Spec.	L	H	H ₁	f	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
SDNCN-1212H-11	100	12	12	6	DC..11T3	M4-10-5.7-60	T15	3.0	0.12
SDNCN-1616K-11	125	16	16	8	DC..11T3	M4-10-5.7-60	T15	3.0	0.25
SDNCN-2020K-11	125	20	20	10	DC..11T3	M4-10-5.7-60	T15	3.0	0.40
SDNCN-2525M-11	150	25	25	12.5	DC..11T3	M4-10-5.7-60	T15	3.0	0.72

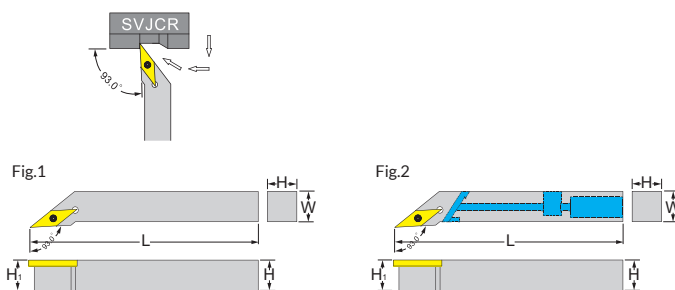
•長度單位 Unit of Length (mm)



SVJCR 外徑車刀架

SVJCR EXTERNAL TURNING TOOL

KOVIT



規格 Spec.	L	H	H ₁	W	刀片 Insert	刀片螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
ZSVJ2CR-A1212K-11	125	12	12	12	VC..1103	M2.5-6.0-3.5-60	T8	1.2	-
ZSVJ2CR-A1616K-11	125	16	16	16	VC..1103	M2.5-6.0-3.5-60	T8	1.2	-
SVJCR-2020K-16	125	20	20	20	VC..1604	M3.5-11.7-5.3-60	-	3.0	0.40
SVJCR-2525M-16	150	25	25	25	VC..1604	M3.5-11.7-5.3-60	-	3.0	0.70

配件表 Accessories

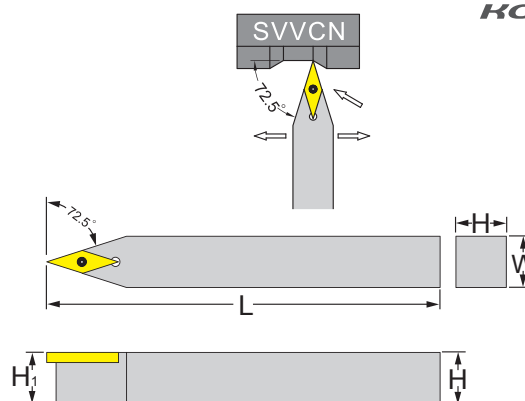
刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	墊片扳手 Shim Wrench	扭力值 (N.m) Torque
VC..1604	VSS322	M3.5-11.7-5.3-60	PL3.5	5.0



SVVCN 外徑車刀架

SVVCN EXTERNAL TURNING TOOL

KOVIT



規格 Spec.	L	H	H ₁	W	刀片 Insert	重量 (KGS) Weight
SVVCN-2020K-16	125	20	20	20	VC..1604	0.39
SVVCN-2525M-16	150	25	25	25	VC..1604	0.69

配件表 Accessories

刀片 Insert	墊片 Shim	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	壓板螺絲 Clamp Screw	墊片扳手 Shim Wrench
VC..1604	VSS322	M3.5-11.7-5.3-60	T15	3.0	MDS05035	PL3.5

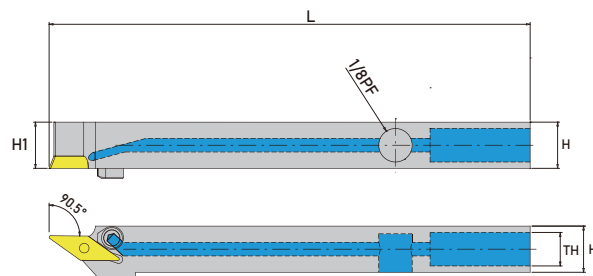
•長度單位 Unit of Length (mm)



ZSVK2CR 走心出水車刀

ZSVK2CR EXTERNAL TURNING TOOL FOR SWISS-TYPE LATHE

NEW



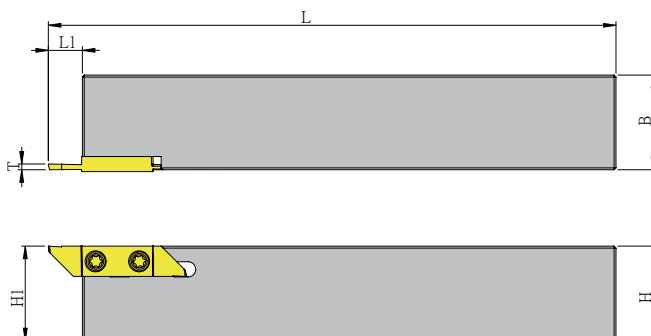
規格 Spec.	L	H	H ₁	f	TH	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
ZSVK2CR-A1212K-11	125	12	12	10	1/8"	VC..1103	M2.5-6.0-3.5-60	T8	3.0	-



SCCI 走心式車刀架

SCCI EXTERNAL TURNING TOOL FOR SWISS-TYPE LATHE

NEW



規格 Spec.	B	H (H ₁)	L	L ₁	T
SCCIR-1010K-375	10	10	125	9	4
SCCIR-1212K-375	12	12	125	9	4
SCCIR-1212M-375	12	12	150	9	4
SCCIR-1616M-375	16	16	150	9	4
SCCIR-2020K-375	20	20	125	9	4

SCCI_375 切削條件數據表 Cutting Parameter

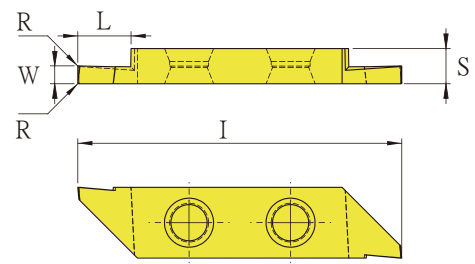
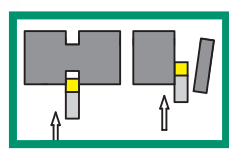
被加工材質 Machining Materials	材質 Grade	切削速度 Speed V _c (m/min)	車削 / 開槽 Slotting			材質 Grade	切削速度 Speed V _c (m/min)	掃刀 Plunging	
			每刃進給 Feed		開槽			每刃進給 Feed	橫向進給
			h _m (mm)						
			開槽	橫向進給					
P 低合金鋼 Low-Alloy Steels	OM4025	100-190	0.01-0.03	0.02-0.15	OM4025	80-180	0.02	0.02-0.07	
	OM4025	90-140	0.01-0.03	0.02-0.15	OM4025	80-140	0.02	0.02-0.07	
M 不鏽鋼 Stainless Steels	OM5035	70-140	0.01-0.02	0.01-0.1	OM4035	40-130	0.02	0.02-0.05	
K 鑄鐵 Cast Iron	OM4025	90-200	0.01-0.02	0.01-0.15	OM4025	90-200	0.02	0.02-0.05	
N 非鐵合金 Non-Ferrous Metals	OM5005	200-500	0.01-0.05	0.02-0.10	OM5005	100-200	0.02	0.02-0.10	

•長度單位 Unit of Length (mm)



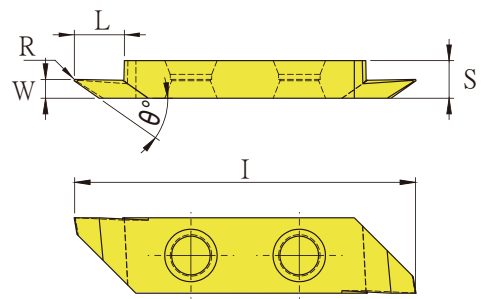
走心式車刀片 THREADING INSERTS FOR SWISS-TYPE LATHE

NEW



切斷 / 切槽 Cut off / Grooving

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



後掃 Back Turning

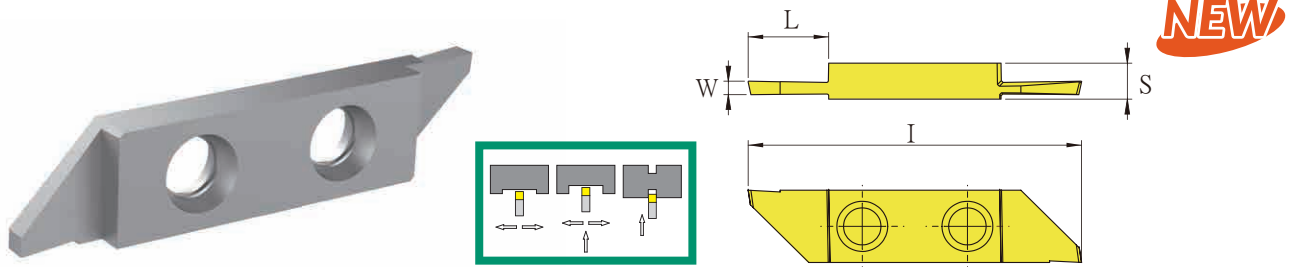
規格 Spec.	鍍層超微粒 Layer coated micro grain		超硬微粒 Micro-grain hard alloy			尺寸 (mm)							
	CHF		HF			Size							
	OM4025	OM5035	OM5005			W	HF	R	加工 深度 Depth	L	θ	I	S
NEW SCCIL375-BL40502-60	P K	M	N			0.5	0.5	0.2	0.1-4.2	11	60°	37.5	4.0
NEW SCCIR375-BL40502-60	P K	M	N			0.5	0.5	0.2	0.1-4.2	11	60°	37.5	4.0
NEW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

NEW 新品 New Product

•長度單位 Unit of Length (mm)

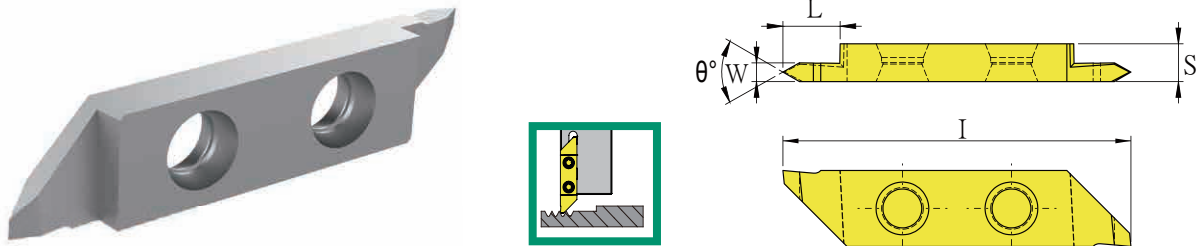
走心式車刀片

THREADING INSERTS FOR SWISS-TYPE LATHE



插掃 / 橫掃 Side Turning

規格 Spec.	鍍層超微粒 Layer coated micro grain		超硬微粒 Micro grain carbide alloy			尺寸 (mm)					
	CHF		HF			Size					
	OM4025	OM5035	OM5005			W	R	加工 深度	L	I	S
SCCIL375-AD43002						3	0.2	11	11	37.5	4.0



牙刀 Threading

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

新品 New Product

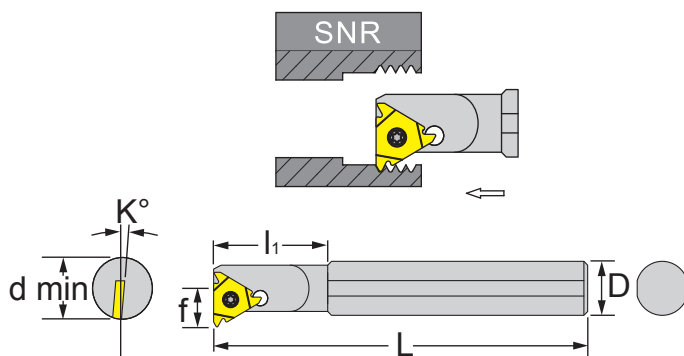
•長度單位 Unit of Length (mm)



SNR 內徑牙刀架

SNR INTERNAL THREADING TURNING TOOL

KOVIT



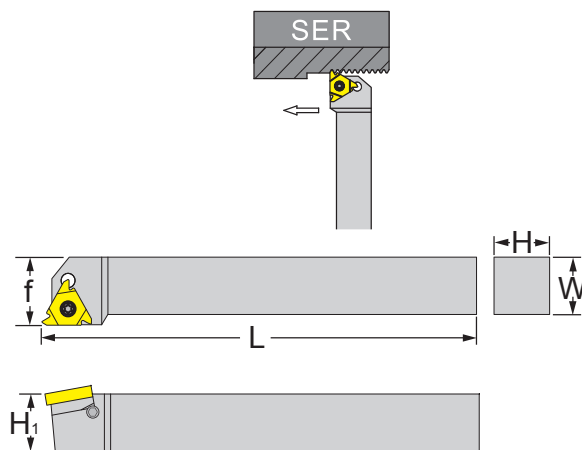
規格 Spec.	L	l ₁	D	d	f	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	墊片 Shim	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
SNR-0008K-08	125	21	16	11	5.5	08IR	M2.2-5.5-3.4-60	T7	0.9	-	-	-	-	0.18
SNR-0010K-11	125	25	16	13	6.5	11IR	M2.5-7.0-4.5-60	T8	1.2	-	-	-	-	0.19
SNR-0013M-11	150	32	16	16	8	11IR	M2.5-7.0-4.5-60	T8	1.2	-	-	-	-	0.22
SNR-0013M-16	150	32	16	17	8.5	16IR	M3.5-9.0-5.3-60	T15	3.0	-	-	-	-	0.24
SNR-0016Q-16	180	36	16	19	10	16IR	M3.5-9.0-5.3-60	T15	3.0	-	-	-	-	0.30
SNR-0020R-16	200	40	20	24	12	16IR	M3.5-11.7-5.3-60	T15	3.0	GXN16	HTM309	PL2.5	5.0	0.50
SNR-0025R-16	200	45	25	29	14.5	16IR	M3.5-11.7-5.3-60	T15	3.0	GXN16	HTM309	PL2.5	5.0	0.76
SNR-0032S-16	250	45	32	36	18.5	16IR	M3.5-11.7-5.3-60	T15	3.0	GXN16	HTM309	PL2.5	5.0	1.60



SER 外徑牙刀架

SER EXTERNAL THREADING TURNING TOOL

KOVIT



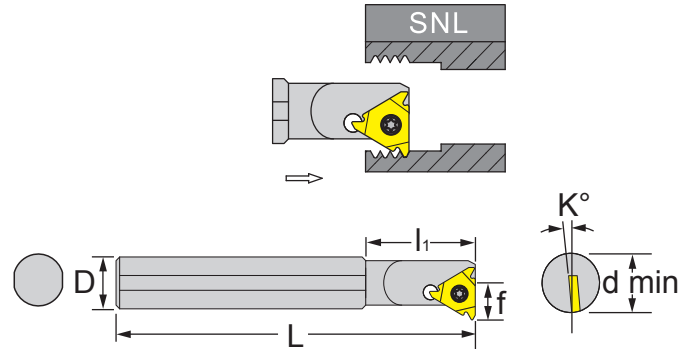
規格 Spec.	L	H	H ₁	W	f	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	墊片 Shim	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
SER-1616K-16	125	16	16	16	20	16ER	M3.5-11.7-5.3-60	T15	3.0	GXE16	HTM309	PL2.5	5.0	0.31
SER-2020K-16	125	20	20	20	25	16ER	M3.5-11.7-5.3-60	T15	3.0	GXE16	HTM309	PL2.5	5.0	0.45
SER-2525M-16	150	25	25	25	32	16ER	M3.5-11.7-5.3-60	T15	3.0	GXE16	HTM309	PL2.5	5.0	0.82

•長度單位 Unit of Length (mm)



SNL 內徑牙刀架 SNL INTERNAL THREADING TURNING TOOL

KOVIT

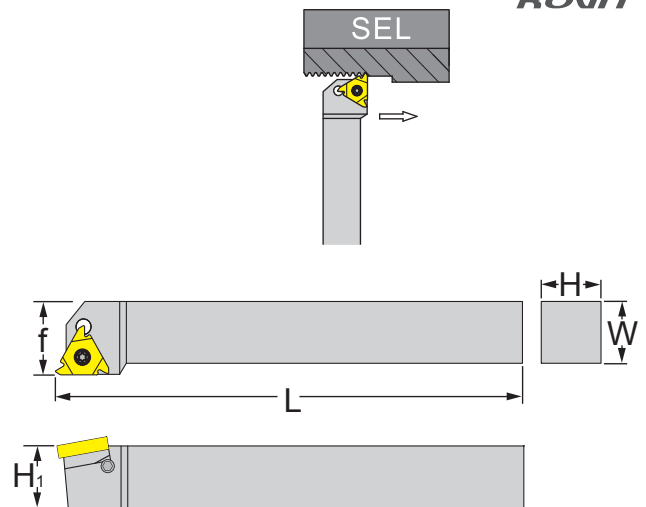


規格 Spec.	L	li	D	d	f	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	墊片 Shim	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
SNL-0008K-08	125	21	16	11	5.5	08ER	M2.2-5.5-3.4-60	T7	0.9	-	-	-	-	0.19
SNL-0010K-11	125	25	16	13	6.5	11ER	M2.5-8.0-3.5-60-T8	T8	1.2	-	-	-	-	0.19
SNL-0013M-11	150	32	16	16	8	11ER	M2.5-8.0-3.5-60-T8	T8	1.2	-	-	-	-	0.24
SNL-0013M-16	150	32	16	17	8.5	16ER	M3.5-9.0-5.3-60	T15	3.0	-	-	-	-	0.24
SNL-0016Q-16	180	36	16	19	10	16ER	M3.5-9.0-5.3-60	T15	3.0	-	-	-	-	0.30
SNL-0020R-16	200	40	20	24	12	16ER	M3.5-11.7-5.3-60	T15	3.0	GXN16	HTM309	PL2.5	5.0	0.51
SNL-0025R-16	200	45	25	29	14.5	16ER	M3.5-11.7-5.3-60	T15	3.0	GXN16	HTM309	PL2.5	5.0	0.77
SNL-0032S-16	250	45	32	36	18.5	16ER	M3.5-11.7-5.3-60	T15	3.0	GXN16	HTM309	PL2.5	5.0	1.56



SEL 外徑牙刀架 SEL EXTERNAL THREADING TURNING TOOL

KOVIT



規格 Spec.	L	H	H1	W	f	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	墊片 Shim	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
SEL-1616K-16	125	16	16	16	20	16IR	M3.5-11.7-5.3-60	T15	3.0	GXE16	HTM309	PL2.5	5.0	0.31
SEL-2020K-16	125	20	20	20	25	16IR	M3.5-11.7-5.3-60	T15	3.0	GXE16	HTM309	PL2.5	5.0	0.45
SEL-2525M-16	150	25	25	25	32	16IR	M3.5-11.7-5.3-60	T15	3.0	GXE16	HTM309	PL2.5	5.0	0.81

•長度單位 Unit of Length (mm)

鎢鋼抗震刀具

CARBIDE SHANK

Feature



- 高剛性
- 加工倍率深
- 提高近給率
- 良好的加工面
- 延長刀片壽命
- High rigidity.
- Great multiplied rate of cutting.
- Improved feed rate.
- Good machined surface.
- Extend insert life.

TUNGSTEN CARBIDE SHANK

- 使用碳化鎢鋼刀桿伸長量為直徑的6倍，仍不動如山
- 使用鋼值刀桿伸長量為直徑的4倍時產生難控制的震動率
- Using 6xD of carbide extension shank has a great effect to absorb the vibration, nevertheless, using 4xD of steel extension shank begins to have the vibration control issue.



SCLCR 碳化鎢鋼微小徑內徑車刀架

SCLCR CARBIDE MICRO INTERNAL TURNING TOOL

KOVIT

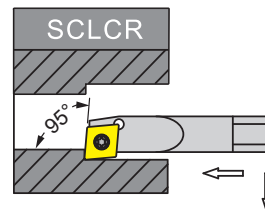


Fig1.

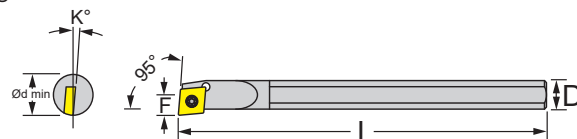
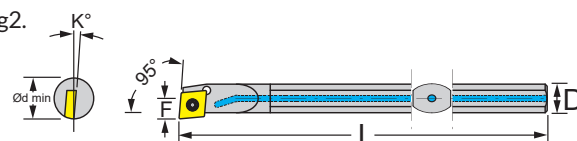


Fig2.



規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
C04G-SCLCR03-05	90	4	5	2.5	CC..03S1	M1.8-4.0-2.5-54	T6	0.6	1	0.06
C05H-SCLCR03-06	100	5	6	3	CC..03S1	M1.8-4.0-2.5-54	T6	0.6	1	0.08
C05H-SCLCR04-06	100	5	6	3	CC..04T0	M2.2-4.7-3.1-60	T7	0.9	1	0.06
C06J-SCLCR04-07	110	6	7	3.5	CC..04T0	M2.2-4.7-3.1-60	T7	0.9	1	0.07
C07J-SCLCR04-08	110	7	8	4	CC..04T0	M2.2-4.7-3.1-60	T7	0.9	1	0.09
E05H-SCLCR03-06	100	5	6	3	CC..03S1	M1.8-4.0-2.5-54	T6	0.6	2	0.08
E06J-SCLCR04-07	110	6	7	3.5	CC..04T0	M2.2-4.7-3.1-60	T7	0.9	2	0.06

STUBR 碳化鎢鋼微小徑內徑車刀架

STUBR CARBIDE MICRO INTERNAL TURNING TOOL

KOVIT

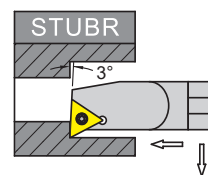


Fig1.

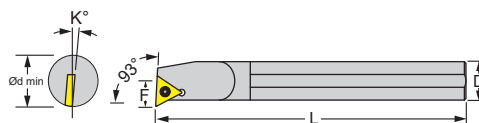
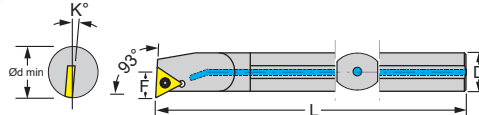


Fig2.



規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
C06J-STUBR06-07	110	6	7	3.5	TB..0601	M2-5.0-2.7-60	T6	0.6	1	0.07
C08K-STUBR06-09	125	8	9	4.5	TB..0601	M2-5.0-2.7-60	T6	0.6	1	0.13
E06J-STUBR06-07	110	6	7	3.5	TB..0601	M2-5.0-2.7-60	T6	0.6	2	0.07
E08K-STUBR06-09	125	8	9	4.5	TB..0601	M2-5.0-2.7-60	T6	0.6	2	0.13

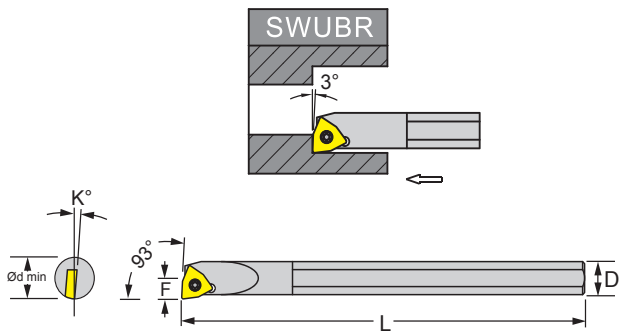
•長度單位 Unit of Length (mm)



SWUBR 碳化鎢鋼微小徑內徑車刀架

SWUBR CARBIDE MICRO INTERNAL TURNING TOOL

KOVIT



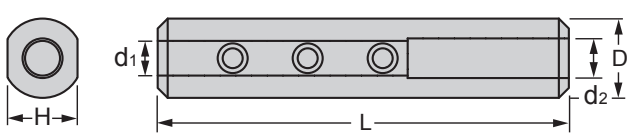
規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
C04G-SWUBR06-5.5	90	4	5.5	2.75	WB..0601	M2-3.8-2.68-43	T6	0.6	0.05
C05H-SWUBR06-06	100	5	6	3	WB..0601	M2-3.8-2.68-43	T6	0.6	0.07
C06J-SWUBR06-07	110	6	7	3.5	WB..0601	M2-5.0-2.7-60	T6	0.6	0.09
C07J-SWUBR06-08	110	7	8	4	WB..0601	M2-5.0-2.7-60	T6	0.6	0.11
C08K-SWUBR08-10	125	8	10	5	WB..0802	M2-5.0-2.7-60	T6	0.6	0.13



SH 小徑套筒

SH MINI COLLET SLEEVE

KOVIT



規格 Spec.	L	D	d ₁	d ₂	H	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
SH-0416-100	100	16	4	5	14	HS4-4	PL2	3.0	0.15
SH-0516-100	100	16	5	6	14	HS5-5.5	PL2.5	5.0	0.15
SH-0616-100	100	16	6	7	14	HS6-4	PL3	5.0	-
SH-0716-100	100	16	7	8	14	HS6-4	PL3	5.0	0.13

•長度單位 Unit of Length (mm)

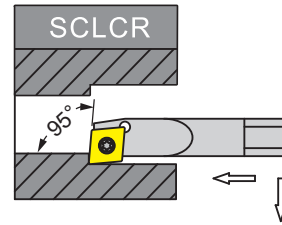
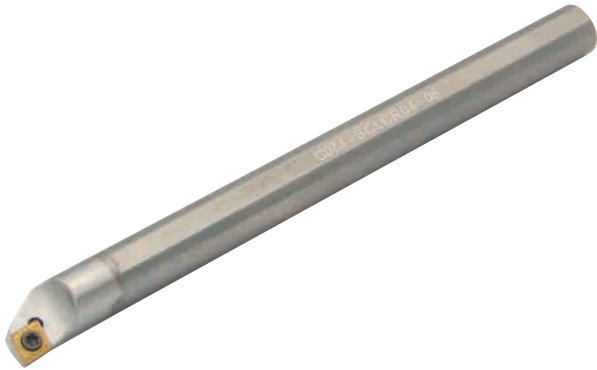


Fig1.

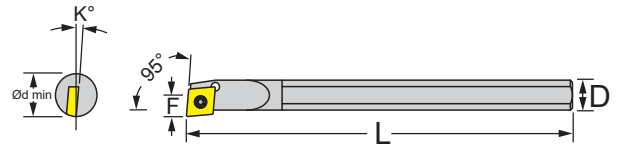
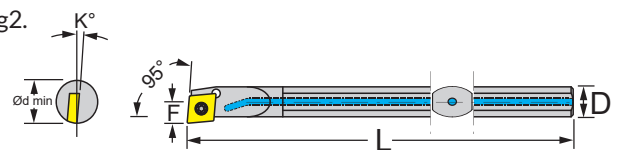


Fig2.



規格 Spec.	L	D	最小加工徑 Ød min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
C08K-SCLCR06-10	125	8	10	5	CC..0602	M2.5-6.0-3.5-60	T8	1.2	1	0.11
C10M-SCLCR06-12	150	10	12	6	CC..0602	M2.5-6.0-3.5-60	T8	1.2	1	0.19
C12M-SCLCR06-14	150	12	14	7	CC..0602	M2.5-6.0-3.5-60	T8	1.2	1	0.26
C12Q-SCLCR06-14	180	12	14	7	CC..0602	M2.5-6.0-3.5-60	T8	1.2	1	0.32
C12M-SCLCR09-14	150	12	14	7	CC..09T3	M4-8.0-5.7-60	T15	3.0	1	0.26
C12Q-SCLCR09-14	180	12	14	7	CC..09T3	M4-8.0-5.7-60	T15	3.0	1	0.32
C16R-SCLCR09-18	200	16	18	9	CC..09T3	M4-8.0-5.7-60	T15	3.0	1	0.57
C20S-SCLCR09-22	250	20	22	11	CC..09T3	M4-8.0-5.7-60	T15	3.0	1	1.04
E08K-SCLCR06-10	125	8	10	5	CC..0602	M2.5-6.0-3.5-60	T8	1.2	2	0.11
E10M-SCLCR06-12	150	10	12	6	CC..0602	M2.5-6.0-3.5-60	T8	1.2	2	0.19
E12M-SCLCR06-14	150	12	14	7	CC..0602	M2.5-6.0-3.5-60	T8	1.2	2	0.26
E12Q-SCLCR06-14	180	12	14	7	CC..0602	M2.5-6.0-3.5-60	T8	1.2	2	0.32
E14M-SCLCR06-16	150	14	16	7.5	CC..0602	M2.5-6.0-3.5-60	T8	1.2	2	-
E14Q-SCLCR06-16	180	14	16	7.5	CC..0602	M2.5-6.0-3.5-60	T8	1.2	2	-
E16R-SCLCR06-18	200	16	18	9	CC..0602	M2.5-6.0-3.5-60	T8	1.2	2	-
E12M-SCLCR09-14	150	12	14	7	CC..09T3	M4-8.0-5.7-60	T15	3.0	2	0.26
E12Q-SCLCR09-14	180	12	14	7	CC..09T3	M4-8.0-5.7-60	T15	3.0	2	0.32
E14M-SCLCR09-16	150	14	16	7.5	CC..09T3	M4-8.0-5.7-60	T15	3.0	2	-
E14Q-SCLCR09-16	180	14	16	7.5	CC..09T3	M4-8.0-5.7-60	T15	3.0	2	-
E16R-SCLCR09-18	200	16	18	9	CC..09T3	M4-8.0-5.7-60	T15	3.0	2	0.57
E20R-SCLCR09-22	200	20	22	11	CC..09T3	M4-8.0-5.7-60	T15	3.0	2	-
E20S-SCLCR09-22	250	20	22	11	CC..09T3	M4-8.0-5.7-60	T15	3.0	2	1.04

•長度單位 Unit of Length (mm)

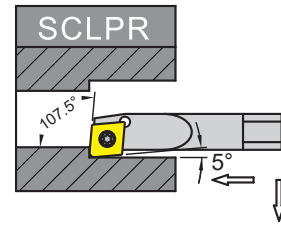


Fig.1

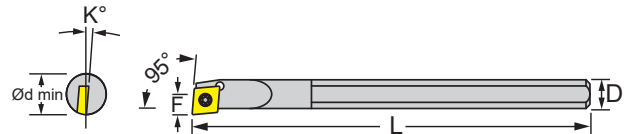
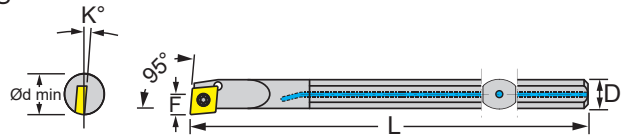


Fig.2



規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
C10M-SCLPR08-12	150	10	12	6	CP.0802	M3-8.0-4.0-43	T9	1.4	1	0.19
C12M-SCLPR08-14	150	12	14	7	CP.0802	M3-8.0-4.0-43	T9	1.4	1	0.26
C12Q-SCLPR08-14	180	12	14	7	CP.0802	M3-8.0-4.0-43	T9	1.4	1	-
C12M-SCLPR09-14	150	12	14	7	CP.0903	M4-8.0-5.7-60	T15	3.0	1	0.25
C12Q-SCLPR09-14	180	12	14	7	CP.0903	M4-8.0-5.7-60	T15	3.0	1	0.31
C16R-SCLPR09-18	200	16	18	9	CP.0903	M4-8.0-5.7-60	T15	3.0	1	0.57
C20S-SCLPR09-22	250	20	22	11	CP.0903	M4-8.0-5.7-60	T15	3.0	1	1.08
E16R-SCLPR09-18	200	16	18	9	CP.0903	M4-8.0-5.7-60	T15	3.0	2	0.57
E20R-SCLPR09-22	200	20	22	11	CP.0903	M4-8.0-5.7-60	T15	3.0	2	-
E20S-SCLPR09-22	250	20	22	11	CP.0903	M4-8.0-5.7-60	T15	3.0	2	1.08
E25R-SCLPR09-28	200	25	28	14	CP.0903	M4-8.0-5.7-60	T15	3.0	2	-

•長度單位 Unit of Length (mm)

SDUCR 碳化鎢鋼內徑車刀架

SDUCR CARBIDE INTERNAL TURNING TOOL

KOVIT

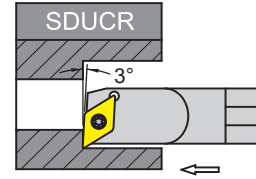


Fig.1

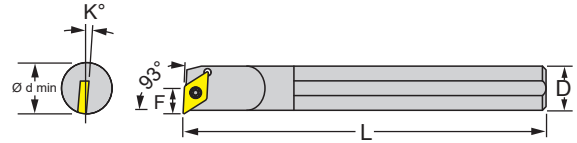
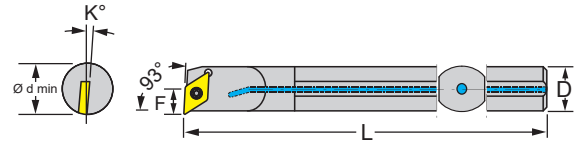


Fig.2



規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
C10M-SDUCR07-13	150	10	13	7	DC..0702	M2.5-6.0-3.5-60	T8	1.2	1	0.19
C12M-SDUCR07-16	150	12	16	9	DC..0702	M2.5-6.0-3.5-60	T8	1.2	1	0.26
C12Q-SDUCR07-16	180	12	16	9	DC..0702	M2.5-6.0-3.5-60	T8	1.2	1	0.32
C16R-SDUCR07-20	200	16	20	11	DC..0702	M2.5-6.0-3.5-60	T8	1.2	1	0.51
C16R-SDUCR11-20	200	16	20	11	DC..11T3	M4-8.0-5.7-60	T15	3.0	1	0.58
C20S-SDUCR11-23	250	20	23	12.5	DC..11T3	M4-8.0-5.7-60	T15	3.0	1	1.08
E10M-SDUCR07-13	150	10	13	7	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	0.19
E12M-SDUCR07-16	150	12	16	9	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	0.26
E12Q-SDUCR07-16	180	12	16	9	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	0.32
E14M-SDUCR07-18	150	14	18	10	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	-
E14Q-SDUCR07-18	180	14	18	10	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	-
E16M-SDUCR07-20	150	16	20	11	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	-
E16R-SDUCR07-20	200	16	20	11	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	0.51
E20R-SDUCR07-25	200	20	25	13	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	-
E16M-SDUCR11-20	150	16	20	11	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	-
E16R-SDUCR11-20	200	16	20	11	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	0.58
E20R-SDUCR11-23	200	20	23	12.5	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	-
E20S-SDUCR11-23	250	20	23	12.5	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	1.08
E25R-SDUCR11-32	200	25	32	17	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	-
E25S-SDUCR11-32	250	25	32	17	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	-

•長度單位 Unit of Length (mm)

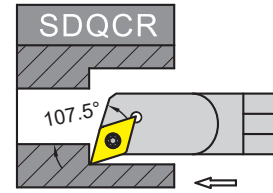


Fig1.

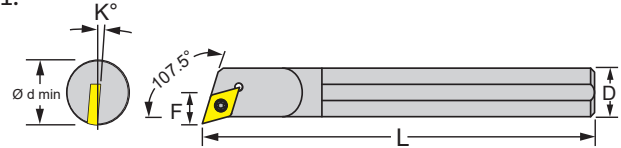
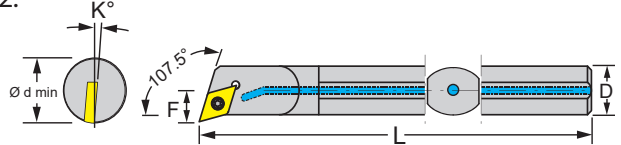


Fig2.



規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
C10M-SDQCR07-13	150	10	13	7	DC..0702	M2.5-6.0-3.5-60	T8	1.2	1	0.20
C12M-SDQCR07-16	150	12	16	9	DC..0702	M2.5-6.0-3.5-60	T8	1.2	1	0.25
C12Q-SDQCR07-16	180	12	16	9	DC..0702	M2.5-6.0-3.5-60	T8	1.2	1	0.30
C16R-SDQCR07-20	200	16	20	11	DC..0702	M2.5-6.0-3.5-60	T8	1.2	1	0.57
C20S-SDQCR11-25	250	20	25	13	DC..11T3	M4-8.0-5.7-60	T15	3.0	1	1.08
E10M-SDQCR07-13	150	10	13	7	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	0.20
E12M-SDQCR07-16	150	12	16	9	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	0.25
E12Q-SDQCR07-16	180	12	16	9	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	0.30
E14M-SDQCR07-18	150	14	18	10	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	-
E16M-SDQCR07-20	150	16	20	11	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	-
E16R-SDQCR07-20	200	16	20	11	DC..0702	M2.5-6.0-3.5-60	T8	1.2	2	0.57
E16M-SDQCR11-20	150	16	20	11	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	-
E16R-SDQCR11-20	200	16	20	11	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	-
E20R-SDQCR11-25	200	20	25	13	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	-
E20S-SDQCR11-25	250	20	25	13	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	1.08
E25R-SDQCR11-32	200	25	32	17	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	-
E25S-SDQCR11-32	250	25	32	17	DC..11T3	M4-8.0-5.7-60	T15	3.0	2	-

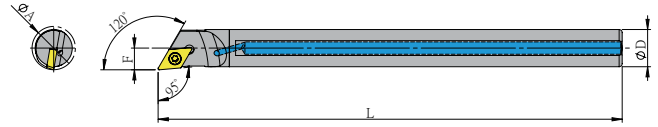


SDXCR 碳化鎢鋼內徑車刀架

SDXCR CARBIDE INTERNAL TURNING TOOL

KOVIT

NEW



規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
E08K-SDXCR07-10	125	8	10	5	DC..0702	M2.5-6.0-3.5-60	T8	1.2	
E12M-SDXCR07-14	150	12	14	7	DC..0702	M2.5-6.0-3.5-60	T8	1.2	

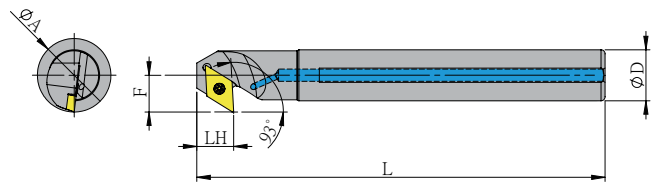


SDZCR 碳化鎢鋼內徑車刀架

SDZCR CARBIDE INTERNAL TURNING TOOL

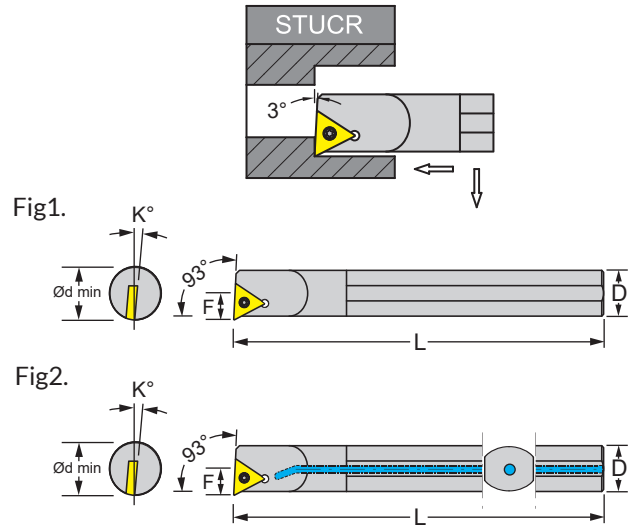
KOVIT

NEW



規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
E16R-SDZCR07-21	200	16	21	12.5	DC..0702	M2.5-6.0-3.5-60	T8	1.2	
E20R-SDZCR11-26	200	20	26	15.5	DC..11T3	M4-8.75-5.6-60-60	T15		
E25R-SDZCR11-33	200	25	33	18	DC..11T3	M4-8.75-5.6-60-60	T15		

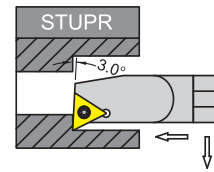
•長度單位 Unit of Length (mm)



規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
C08K-STUCR09-10	125	8	10	5	TC..0902	M2.2-4.7-3.1-60	T7	0.9	1	0.11
C10M-STUCR09-12	150	10	12	6	TC..0902	M2.2-4.7-3.1-60	T7	0.9	1	0.19
C12M-STUCR09-14	150	12	14	7	TC..0902	M2.2-4.7-3.1-60	T7	0.9	1	0.19
C12Q-STUCR09-14	180	12	14	7	TC..0902	M2.2-4.7-3.1-60	T7	0.9	1	0.16
C10M-STUCR11-12	150	10	12	6	TC..1102	M2.5-6.0-3.5-60	T8	1.2	1	0.19
C12M-STUCR11-14	150	12	14	7	TC..1102	M2.5-6.0-3.5-60	T8	1.2	1	0.25
C12Q-STUCR11-14	180	12	14	7	TC..1102	M2.5-6.0-3.5-60	T8	1.2	1	0.32
C16R-STUCR11-18	200	16	18	9	TC..1102	M2.5-6.0-3.5-60	T8	1.2	1	0.56
C20S-STUCR11-22	250	20	22	11	TC..1102	M2.5-6.0-3.5-60	T8	1.2	1	1.10
E20R-STUCR11-22	200	20	22	11	TC..1102	M2.5-6.0-3.5-60	T8	1.2	2	-
E20S-STUCR11-22	250	20	22	11	TC..1102	M2.5-6.0-3.5-60	T8	1.2	2	1.10

STUPR 碳化鎢鋼內徑車刀架

STUPR CARBIDE INTERNAL TURNING TOOL



KOVIT

Fig1.

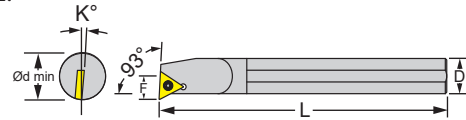
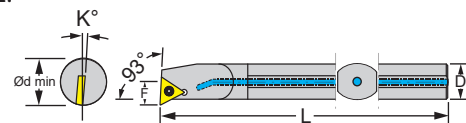


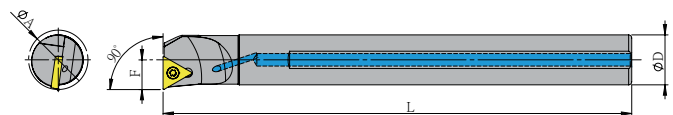
Fig2.



規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
C08K-STUPR08-10	125	8	10	5.5	TP.0802	M2.2-4.7-3.1-60	T7	0.9	1	0.13
C08K-STUPR09-10	125	8	10	5.5	TP.0902	M2.5-6.0-3.5-60	T8	1.2	1	0.11
C10M-STUPR09-12	150	10	12	6.5	TP.0902	M2.5-6.0-3.5-60	T8	1.2	1	0.19
C12M-STUPR09-14	150	12	14	7.5	TP.0902	M2.5-6.0-3.5-60	T8	1.2	1	0.25
C12Q-STUPR09-14	180	12	14	7.5	TP.0902	M2.5-6.0-3.5-60	T8	1.2	1	0.32
C10M-STUPR11-12	150	10	12	6.5	TP.1103	M3-8.0-4.0-43	T9	1.4	1	0.19
C12M-STUPR11-14	150	12	14	7.5	TP.1103	M3-8.0-4.0-43	T9	1.4	1	0.26
C12Q-STUPR11-14	180	12	14	7.5	TP.1103	M3-8.0-4.0-43	T9	1.4	1	0.32
C16R-STUPR11-18	200	16	18	9.5	TP.1103	M3-8.0-4.0-43	T9	1.4	1	0.56
C20S-STUPR11-22	250	20	22	11.5	TP.1103	M3-8.0-4.0-43	T9	1.4	1	1.09
C20S-STUPR16-25	250	20	25	12.5	TP.1603	M4-8.0-5.7-60	T15	3.0	1	1.10
E08K-STUPR09-10	125	8	10	5.5	TP.0902	M2.5-6.0-3.5-60	T8	1.2	2	0.11
E10M-STUPR09-12	150	10	12	6.5	TP.0902	M2.5-6.0-3.5-60	T8	1.2	2	0.19
E12M-STUPR09-14	150	12	14	7.5	TP.0902	M2.5-6.0-3.5-60	T8	1.2	2	0.25
E10M-STUPR11-12	150	10	12	6.5	TP.1103	M3-8.0-4.0-43	T9	1.4	2	0.19
E12M-STUPR11-14	150	12	14	7.5	TP.1103	M3-8.0-4.0-43	T9	1.4	2	0.26
E12Q-STUPR11-14	180	12	14	7.5	TP.1103	M3-8.0-4.0-43	T9	1.4	2	0.32
E14M-STUPR11-16	150	14	16	8.5	TP.1103	M3-8.0-4.0-43	T9	1.4	2	-
E16R-STUPR11-18	200	16	18	9.5	TP.1103	M3-8.0-4.0-43	T9	1.4	2	0.56
E20R-STUPR11-22	200	20	22	11.5	TP.1103	M3-8.0-4.0-43	T9	1.4	2	-
E20S-STUPR11-22	250	20	22	11.5	TP.1103	M3-8.0-4.0-43	T9	1.4	2	1.09

STFCR 碳化鎢鋼內徑車刀架

STFCR CARBIDE INTERNAL TURNING TOOL



KOVIT

NEW

規格 Spec.	L	D	最小加工徑 Ø d min	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
E16R-STFCR11-18	200	16	18	9.5	TC.1102	M2.5-6.0-3.5-60	T8		
E20R-STFCR11-22	200	20	22	11	TC.1102	M2.5-6.0-3.5-60	T8		

•長度單位 Unit of Length (mm)



Fig.1

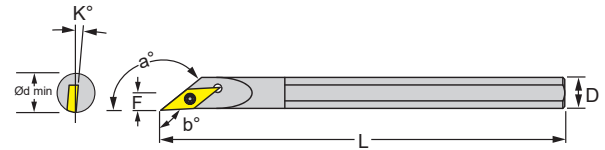
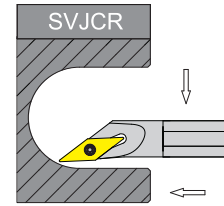
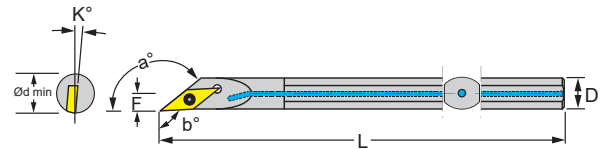


Fig.2



規格 Spec.	L	D	最小加工徑 Ø d min	F	a°	b°	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
C06J-SVJCR08-8.5	110	6	8.5	3.25	143°	92°	VC..0802	M2-5.0-2.7-60	T6	0.6	1	0.08
C08K-SVJCR08-10	125	8	10	5	142°	93°	VC..0802	M2-5.0-2.7-60	T6	0.6	1	1.13
C10M-SVJCR08-12	150	10	12	6	142°	93°	VC..0802	M2-5.0-2.7-60	T6	0.6	1	0.20
C10M-SVJCR11-12	150	10	12	6	142°	93°	VC..1103	M2.5-6.0-3.5-60	T8	1.2	1	-
C12M-SVJCR11-14	150	12	14	7	142°	93°	VC..1103	M2.5-6.0-3.5-60	T8	1.2	1	0.26
C12Q-SVJCR11-14	180	12	14	7	142°	93°	VC..1103	M2.5-6.0-3.5-60	T8	1.2	1	-
C16R-SVJCR11-18	200	16	18	9	142°	93°	VC..1103	M2.5-6.0-3.5-60	T8	1.2	1	0.56
C20S-SVJCR11-22	250	20	22	11	142°	93°	VC..1103	M2.5-6.0-3.5-60	T8	1.2	1	1.08
E06J-SVJCR08-085	110	6	8.5	3.25	-	-	VC..0802	M2-5.0-2.7-60	T6	0.6	2	-
E08K-SVJCR08-10	125	8	10	5	-	-	VC..0802	M2-5.0-2.7-60	T6	0.6	2	-
E10M-SVJCR08-12	150	10	12	6	-	-	VC..0802	M2-5.0-2.7-60	T6	0.6	2	-
E12M-SVJCR08-14	150	12	14	7	-	-	VC..0802	M2-5.0-2.7-60	T6	0.6	2	-
E10M-SVJCR11-12	150	10	12	6	-	-	VC..1103	M2.5-6.0-3.5-60	T8	1.2	2	-
E12M-SVJCR11-14	150	12	14	7	-	-	VC..1103	M2.5-6.0-3.5-60	T8	1.2	2	-
E12Q-SVJCR11-14	180	12	14	7	-	-	VC..1103	M2.5-6.0-3.5-60	T8	1.2	2	0.33
E16R-SVJCR11-18	200	16	18	9	-	-	VC..1103	M2.5-6.0-3.5-60	T8	1.2	2	-
E20R-SVJCR11-22	200	20	22	11	-	-	VC..1103	M2.5-6.0-3.5-60	T8	1.2	2	-
E20S-SVJCR11-22	250	20	22	11	-	-	VC..1103	M2.5-6.0-3.5-60	T8	1.2	2	-
E16M-SVJCR16-18	150	16	18	9	-	-	VC..1604	M3.5-11.7-5.3-60	T15	3.0	2	-
E16R-SVJCR16-18	200	16	18	9	-	-	VC..1604	M3.5-11.7-5.3-60	T15	3.0	2	-
E20R-SVJCR16-23	200	20	23	11.5	-	-	VC..1604	M3.5-11.7-5.3-60	T15	3.0	2	-
E25R-SVJCR16-28	200	25	28	14	-	-	VC..1604	M3.5-11.7-5.3-60	T15	3.0	2	-

•長度單位 Unit of Length (mm)

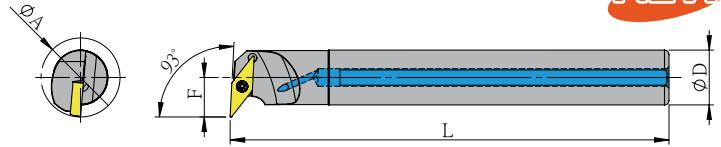


SVUCR 碳化鎢鋼內徑車刀架

SVUCR CARBIDE INTERNAL TURNING TOOL

KOVIT

NEW



規格 Spec.	L	D	最小加工徑 $\phi d \text{ min}$	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
E16R-SVUCR11-22	200	16	22	13	VC..1103	M2.5-6.0-3.5-60	T8	1.2	
E20R-SVUCR11-27	200	20	27	15	VC..1103	M2.5-6.0-3.5-60	T8	1.2	
E25R-SVUCR11-30	250	25	30	17	VC..1103	M2.5-6.0-3.5-60	T8	1.2	
E20R-SVUCR16-31	200	20	31	19	VC..1604	M3.5-11.7-5.3-60	T15	3.0	
E25R-SVUCR16-33	200	25	33	18	VC..1604	M3.5-11.7-5.3-60	T15	3.0	
E25S-SVUCR16-33	250	25	33	18	VC..1604	M3.5-11.7-5.3-60	T15	3.0	
E25R-SVUCR16-35	200	25	35	20	VC..1604	M3.5-11.7-5.3-60	T15	3.0	
E25S-SVUCR16-35	250	25	35	20	VC..1604	M3.5-11.7-5.3-60	T15	3.0	

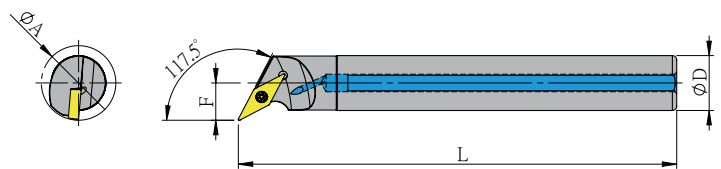


SVQCR 碳化鎢鋼內徑車刀架

SVQCR CARBIDE INTERNAL TURNING TOOL

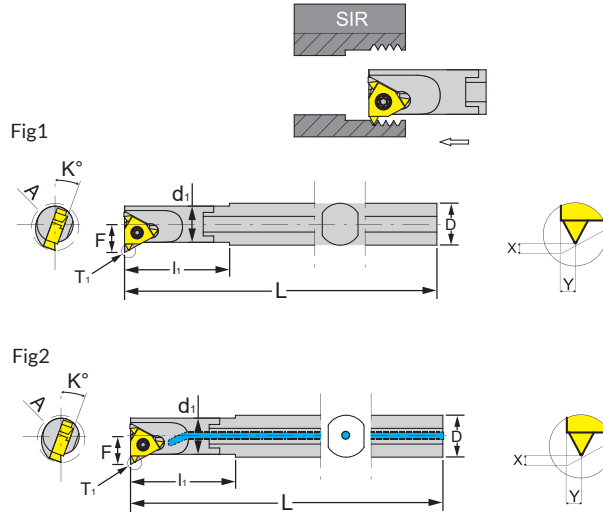
KOVIT

NEW



規格 Spec.	L	D	最小加工徑 $\phi d \text{ min}$	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
E16M-SVQCR11-22	150	16	22	12.5	VC..1103	M2.5-6.0-3.5-60	T8	1.2	
E16R-SVQCR11-22	200	16	22	12.5	VC..1103	M2.5-6.0-3.5-60	T8	1.2	
E20R-SVQCR11-25	200	20	25	13	VC..1103	M2.5-6.0-3.5-60	T8	1.2	
E25R-SVQCR16-32	200	25	32	17	VC..1604	M4-8.75-5.6-60	T15	3.0	

•長度單位 Unit of Length (mm)



T1 部 .X.Y 尺寸參考刀片規格

規格 Spec.	L	li	D	di	最小加工徑 A	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
CSIR-0005H-06-6.4	100	-	5	-	6.4	4.3	06IR	M2-5.0-2.6-60	T6	0.6	0.05
CSIR-0008K-08-09-20	125	20	8	6.4	9	5	08IR	M2.2-4.7-3.1-60	T7	0.9	0.10
CSIR-0008K-08-10-20	125	20	8	7.4	10	5.5	08IR	M2.2-4.7-3.1-60	T7	0.9	1.08
CSIR-0010M-11-12	150	-	10	-	12	7.4	11IR	M2.5-6.0-3.5-60	T8	1.2	0.18
CSIR-0012M-11-15	150	-	12	-	15	8.5	11IR	M2.5-6.0-3.5-60	T8	1.2	0.26
CSIR-0016M-16-19	150	-	16	-	19	11.7	16IR	M3.5-7.6-5.1-60	T15	3.0	-
ESIR-0005H-06-6.4	100	-	5	-	6.4	4.3	06IR	M2-5.0-2.7-60	T6	0.6	-
ESIR-0006J-06-7.6	110	-	6	-	7.6	4.48	06IR	M2-5.0-2.7-60	T6	0.6	-
ESIR-0008K-08-10	125	-	8	-	10	5.9	08IR	M2.2-4.7-3.1-60	T7	0.9	-
ESIR-0010M-11-12	150	-	10	-	12	7.4	11IR	M2.5-6.0-3.5-60	T8	1.2	-
ESIR-0012M-11-15	150	-	12	-	15	8.5	11IR	M2.5-6.0-3.5-60	T8	1.2	-
ESIR-0016R-16-19	200	-	16	-	19	11.7	16IR	M3.5-7.6-5.1-60	T15	3.0	-



Fig.1

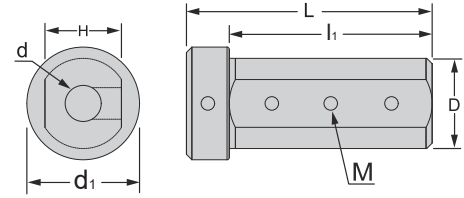
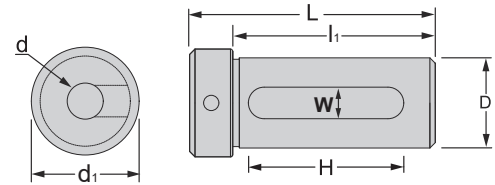


Fig.2



規格 Spec.	L	l ₁	D	d	d ₁	H	M	W	Fig	重量 (KGS) Weight
NC16-06-62L	62	55	16	6	19	14.5	M5	-	1	0.08
NC16-08-62L	62	55	16	8	19	14.5	M6	-	1	0.08
NC16-10-62L	62	55	16	10	19	14.5	M6	-	1	0.07
NC16-12-62L	62	55	16	12	19	14.5	-	9	2	0.05
NC20-06-67L	67	60	20	6	27	17.5	M6	-	1	0.16
NC20-08-67L	67	60	20	8	27	17.5	M6	-	1	0.14
NC20-10-67L	67	60	20	10	27	17.5	M6	-	1	0.14
NC20-12-67L	67	60	20	12	27	17.5	M6	-	1	0.12
NC20-16-67L	67	60	20	16	27	55	-	13	2	0.08
NC32-06-85L	85	70	32	6	38	29.5	M6	-	1	0.55
NC32-08-85L	85	70	32	8	38	29.5	M6	-	1	0.50
NC32-10-100L	100	85	32	10	38	29.5	M8	-	1	0.58
NC32-12-100L	100	85	32	12	38	29.5	M8	-	1	0.58
NC32-16-100L	100	85	32	16	38	29.5	M8	-	1	0.48
NC32-18-100L	100	85	32	18	38	77	-	14	2	0.47
NC32-20-100L	100	85	32	20	38	77	-	14	2	0.40
NC32-25-100L	100	85	32	25	38	77	-	14	2	0.27
NC40-06-100L	100	85	40	6	46	38	M8	-	1	1.01
NC40-08-100L	100	85	40	8	46	38	M8	-	1	0.99
NC40-10-100L	100	85	40	10	46	38	M8	-	1	0.98
NC40-12-100L	100	85	40	12	46	38	M8	-	1	0.94
NC40-16-100L	100	85	40	16	46	38	M8	-	1	0.88
NC40-18-100L	100	85	40	18	46	77	-	14	2	0.84
NC40-20-100L	100	85	40	20	46	77	-	14	2	0.72
NC40-25-100L	100	85	40	25	46	77	-	14	2	0.60
NC40-32-100L	100	85	40	32	46	77	-	14	2	0.39

•長度單位 Unit of Length (mm)



Fig.1

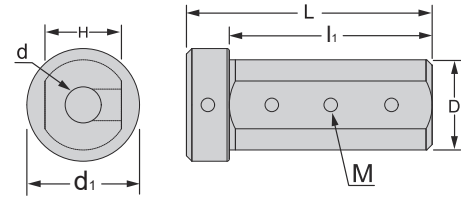
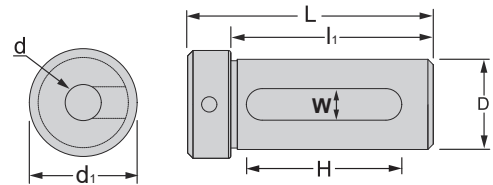


Fig.2



規格 Spec.	L	l ₁	D	d	d ₁	H	M	W	Fig	重量 (KGS) Weight
NC25-06-64L-C	64	58	25	6	35	23.5	M6	-	1	0.22
NC25-08-64L-C	64	58	25	8	35	23.5	M6	-	1	0.20
NC25-10-64L-C	64	58	25	10	35	23.5	M6	-	1	0.20
NC25-12-64L-C	64	58	25	12	35	23.5	M6	-	1	0.20
NC25-16-64L-C	64	58	25	16	35	51	-	12	2	0.16
NC25-20-64L-C	64	58	25	20	35	51	-	12	2	0.11
NC32-06-85L-C	85	70	32	6	38	29.5	M6	-	1	0.55
NC32-08-85L-C	85	70	32	8	38	29.5	M6	-	1	0.50
NC32-10-100L-C	100	85	32	10	38	29.5	M8	-	1	0.58
NC32-12-100L-C	100	85	32	12	38	29.5	M8	-	1	0.58
NC32-16-100L-C	100	85	32	16	38	29.5	M8	-	1	0.48
NC32-18-100L-C	100	85	32	18	38	77	-	14	2	0.47
NC32-20-100L-C	100	85	32	20	38	77	-	14	2	0.40
NC32-25-100L-C	100	85	32	25	38	77	-	14	2	0.27
NC40-06-100L-C	100	85	40	6	46	38	M8	-	1	1.01
NC40-08-100L-C	100	85	40	8	46	38	M8	-	1	0.99
NC40-10-100L-C	100	85	40	10	46	38	M8	-	1	0.98
NC40-12-100L-C	100	85	40	12	46	38	M8	-	1	0.94
NC40-16-100L-C	100	85	40	16	46	38	M8	-	1	0.88
NC40-18-100L-C	100	85	40	18	46	77	-	14	2	0.84
NC40-20-100L-C	100	85	40	20	46	77	-	14	2	0.72
NC40-25-100L-C	100	85	40	25	46	77	-	14	2	0.60
NC40-32-100L-C	100	85	40	32	46	77	-	14	2	0.39

•長度單位 Unit of Length (mm)



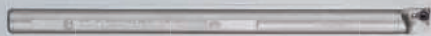
Damping

減震模組化示意圖

Modular combination

車削TURNING

一體式
Integrated



DP/STUPR一體式減震車刀架
Vibration -damped Boring Bar With Coolant

BM 模組化系列
BM Modular Series



BM模組化高硬度減震車刀柄
Modular Vibration-damped Boring Bar



BM模組化高硬度大柄徑減震車刀柄
Modular Vibration-damped Boring Bar



BM模組化鎢鋼減震車刀柄
Modular Vibration-damped Carbide Boring Bar



BM/SCLCR, STUCR, SNR
BM/SDUCR, STUPR, SVUCR
BM/MCLNR, MTUNR

DPFCK 模組化系列
DPFCK Modular Series



DPFCK 模組化減震車刀柄
Modular Vibration -damped Boring Bar Shank



FSCK/SCLC, SCLP, SCKC, SDZC
FSCK/SDUC, STFC, STUC, STUP
FSCK/SVJC, MCLN, MTUN, SDQC
FSCK/SSSC, SVUC, SIR, DGIR

平面銑削FACE MILLING



FDP減震銑刀桿
Damping Face Mill Arbor



HR圓刃殼型銑刀
Round Corner End Milling Cutter



BGP迷你殼型銑刀
Face Milling Cutter



IFM殼型銑刀
Face Milling Cutter



GR圓刃殼型銑刀
Round Corner End Milling Cutter



SFM殼型銑刀
Face Milling Cutter



KM45°殼型銑刀
Face Milling Cutter



KFM殼型銑刀
Face Milling Cutter

搪孔 Boring

樣式1 Type1

(DX6)



MCK 搪孔頭刀柄
Boring Head Shank



CK 搪孔頭刀柄
Boring Head Shank



SCK/DP 減震延長桿
Damping Extension



SMB 超微米精搪頭
SMB Super Micron Exchangeable
Finish Boring Head

樣式2 Type2

(DX6)



CK / DP 搪孔頭刀柄
Boring Head Shank



SMB 超微米精搪頭
SMB Super Micron Exchangeable
Finish Boring Head

樣式3 Type3

(DX8)



MCK 搪孔頭刀柄
Boring Head Shank



CK 搪孔頭刀柄
Boring Head Shank



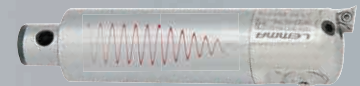
SBT/MLK 法蘭加厚型(雙面拘束)
強力銑削夾頭
Dual DRIVE Force Collet Chuck



SCK 延長桿
Anti-Vibration Extension



SCK 直柄碳化鎢鋼搪孔頭刀桿
Straight Carbide Boring Shank



CBH / DP 減震精搪頭
Damping Finish Boring Head

樣式4 Type4

(DX8)



HSK/PSC 套筒
HSK/PSC Adapter



SBT/PSC 套筒
SBT/PSC Adapter



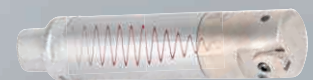
DAT/PSC 套筒
DAT/PSC Adapter



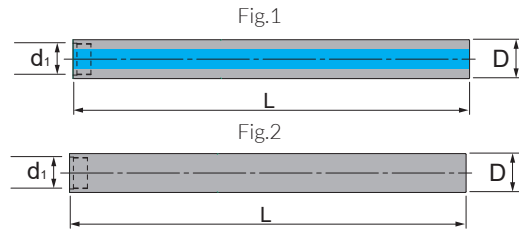
PSC 等徑套筒
PSC Adapter For Same Dia.



PSC 異徑套筒
Adapter For Different Dia.



PSC/PMB 減震精密微調搪頭
Submicron Finish Boring Head



特點 Feature

- 適用市面上所有通用銑刀盤
- 更快的切削進給及良好的加工表面精度

- Suitable for every generic milling cutter on market.
- Higher cutting feed rate and better surface accuracy.

6 倍長 6 Times Longer

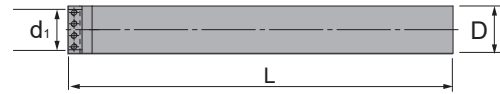
規格 Spec.	L	d ₁	D	重量 (KGS) Weight	Fig.
DPH16-BM16-150L	150	M13X0.5	16	0.28	2
DPH20-BM20-180L	180	M16X0.75	20	0.55	2
DPH25-BM25-210L	210	M20X0.75	25	0.97	2
DPH32-BM32-260L	260	18	32	1.93	1
DPH40-BM40-320L	320	22	40	2.87	1
DPH50-BM50-420L	420	28	50	7.10	1

8 倍長 8 Times Longer

規格 Spec.	L	d ₁	D	重量 (KGS) Weight	Fig.
DPH16-BM16-180L	180	M13X0.5	16	0.33	2
DPH20-BM20-220L	220	M16X0.75	20	0.65	2
DPH25-BM25-260L	260	M20X0.75	25	1.16	2
DPH32-BM32-320L	320	18	32	2.28	1
DPH40-BM40-400L	400	22	40	3.92	1
DPH50-BM50-520L	520	28	50	8.39	1
DPH60-BM50-600L	600	28	60	11.53	1

10 倍長 10 Times Longer

規格 Spec.	L	d ₁	D	重量 (KGS) Weight	Fig.
DPH40-BM40-480L	480	22	40		
DPH50-BM50-620L	620	28	50	9.68	1
DPH60-BM50-720L	720	28	60	13.24	1



特點 Feature

- 適用市面上所有通用銑刀盤
- 更快的切削進給及良好的加工表面精度

- Suitable for every generic milling cutter on market.
- Higher cutting feed rate and better surface accuracy.

8 倍長 8 Times Longer

規格 Spec.	L	d ₁	D	重量 (KGS) Weight
DPH80-BM50-1100L	1100	28	80	35.0

10 倍長 10 Times Longer

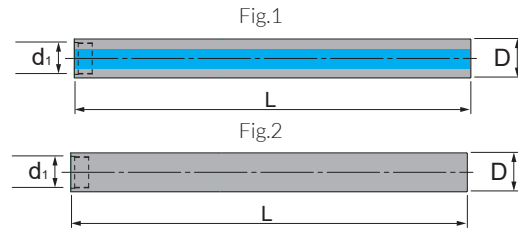
規格 Spec.	L	d ₁	D	重量 (KGS) Weight
DPH80-BM50-1250L	1250	28	80	39.0
DPH100-BM50-1400L	1400	28	100	62.0
DPH120-BM50-1800L	1800	28	120	110.0
DPH150-BM50-2500L	2500	28	150	180.0
DPH180-BM50-2800L	2800	28	180	288.0
DPH200-BM50-3000L	3000	28	200	370.0

12 倍長 12 Times Longer

規格 Spec.	L	d ₁	D	重量 (KGS) Weight
DPH80-BM50-1450L	1450	28	80	43.0
DPH100-BM50-1600L	1600	28	100	69.0
DPH120-BM50-2000L	2000	28	120	125.0
DPH150-BM50-2800L	2800	28	150	200.0
DPH180-BM50-3200L	3200	28	180	320.0
DPH200-BM50-3500L	3500	28	200	420.0

BM 模組化鎢鋼減震車刀柄

BM MODULAR VIBRATION-DAMPED CARBIDE BORING BAR



特點 Feature

- 適用市面上所有通用銑刀盤
- 更快的切削進給及良好的加工表面精度

- Suitable for every generic milling cutter on market
- Higher cutting feed rate and better surface accuracy

10 倍長 10 Times Longer

規格 Spec.	L	d ₁	D	重量 (KGS) Weight	Fig.
DPC16-BM16-220L	220	M13X0.5	16	0.50	2
DPC20-BM20-250L	250	M16X0.75	20	1.29	2
DPC25-BM25-300L	300	M20X0.75	25	2.05	2
DPC32-BM32-400L	400	18	32		

12 倍長 12 Times Longer

規格 Spec.	L	d ₁	D	重量 (KGS) Weight	Fig.
DPC20-BM20-295L	295	M16X0.75	20	1.49	1
DPC25-BM25-350L	350	M20X0.75	25	2.38	1
DPC32-BM32-450L	450	18	32	4.04	1

13 倍長 13 Times Longer

規格 Spec.	L	d ₁	D	重量 (KGS) Weight	Fig.
DPC16-BM16-270L	270	M13X0.5	16	0.60	2
DPC40-BM40-610L	610	22	40	9.00	1

14 倍長 14 Times Longer

規格 Spec.	L	d ₁	D	重量 (KGS) Weight	Fig.
DPC20-BM20-350L	350	M16X0.75	20		
DPC25-BM25-400L	400	M20X0.75	25	2.71	2
DPC32-BM32-500L	500	18	32	4.64	1
DPC50-BM50-820L	820	28	50	15.40	1
DPC60-BM50-960L	960	28	60	31.50	1

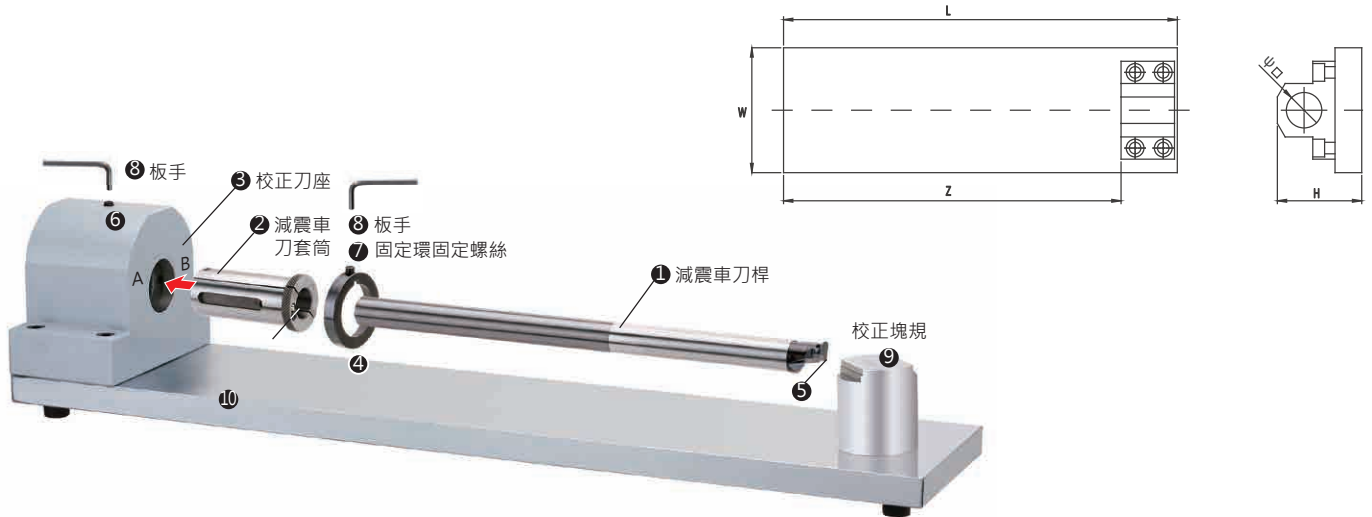
15 倍長 15 Times Longer

規格 Spec.	L	d ₁	D	重量 (KGS) Weight	Fig.
DPC40-BM40-690L	690	22	40	9.60	1

16 倍長 16 Times Longer

規格 Spec.	L	d ₁	D	重量 (KGS) Weight	Fig.
DPC50-BM50-920L	920	28	50	17.40	1
DPC60-BM50-1080L	1080	28	60	35.01	1

• 長度單位 Unit of Length (mm)



- | | | | |
|-----------------------------|-------------------------------|------------|-----------------------------------|
| ① 減震車刀桿 | ① Damped turning tool | ⑥ 校正刀座固定螺絲 | ⑥ Set screw for tool holding seat |
| ② 減震車刀套筒 | ② Damped turning tool sleeve | ⑦ 固定環固定螺絲 | ⑦ Set screw for retaining ring |
| ③ 校正刀座 (Ø32, Ø40, Ø50, Ø60) | ③ Tool holding seat | ⑧ 六角扳手 | ⑧ Hex wrench |
| ④ 固定環 | ④ Retaining ring | ⑨ 校正塊規 | ⑨ Block gauge |
| ⑤ BM車刀頭刀尖 | ⑤ Tool tip of LT turning head | ⑩ 中心校正台本體 | ⑩ Tool setter table |

特點 Feature

- 減震車刀中心校正台專為快速校正減震內孔車刀而設計
- 減震車刀中心校正台需搭配減震內孔車刀套筒使用
- 可依不同內孔車刀的伸出長度與車刀桿直徑的比值 L/D ，而選擇不同的中心高
- The shock absorber knife center correction station is designed for quick correction of shock-absorbing inner hole lathe tool.
- The center correction table of the shock-absorbing vehicle knife should be used with the shock-absorbing inner hole lathe tool sleeve.
- Depending on the extended length of the lathe tool and the diameter ratio of the lathe tool L/D , the different center height can be selected.

規格 Spec.	有效校正長 Z	全長 L	寬 W	高 H	重量 Weight (KGS)	搭配減徑專用套筒 sleeve
CRT-C32	600	700	150	150	26	RSC32-ψ □
CRT-C40						RSC40-ψ □
CRT-C50						RSC50-ψ □
CRT-C60						RSC60-ψ □

⚠ □ : 車刀柄徑
10、12、14、16、18、20、28
所有規格均含有附件：校正塊規 ×1PCS、固定環 ×1PCS、4mm 六角扳手 ×1PCS

⚠ □ : Car knife shank diameter
10、12、14、16、18、20、28
All Specs contain accessories: correction block gauge x 1PCS, fixed ring x 1PCS, 4mm hexagonal wrench x 1PCS

BM/SCLCR 模組化內徑車刀

BM/SCLCR MODULAR BORING BAR HEAD



KOVIT

NEW

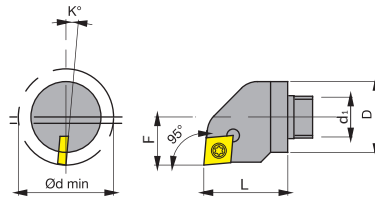


Fig.1

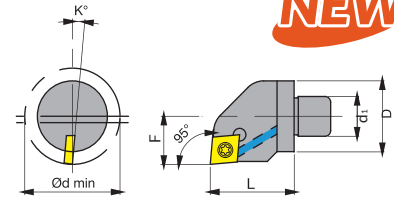


Fig.2

規格 Spec.	L	D	d	d1	F	K°	刀片 Insert	Fig.	重量 (KGS) Weight
BM16-SCLCR-09	25	16	20	M13X0.5	10	7	CC..09T3	1	-
BM20-SCLCR-09	30	20	25	M16X0.75	13	7	CC..09T3	1	-
BM25-SCLCR-09	30	25	30	M20X0.75	15	5	CC..09T3	1	-
BM32-SCLCR-09	35	32	40	18	20	5	CC..09T3	2	-
BM40-SCLCR-12	40	40	52	22	26	3	CC..1204	2	-
BM50-SCLCR-12	40	50	64	28	32	3	CC..1204	2	-

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 Torque
CC..09T3	M4-8.0-5.7-60	T15	3.0 N.m
CC..1204	M5-11-7.5-60	T20	5.0 N.m



KOVIT

NEW

BM/STUCR 模組化內徑車刀

BM/STUCR MODULAR BORING BAR HEAD

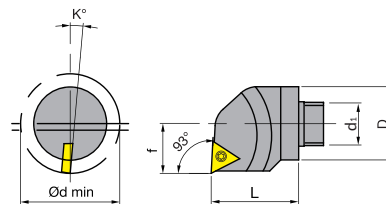


Fig.1

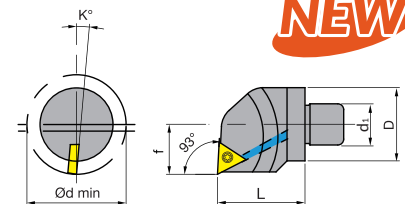


Fig.2

規格 Spec.	L	D	d	d1	F	K°	刀片 Insert	Fig.	重量 (KGS) Weight
BM16-STUCR-11	25	16	20	M13X0.5	10	8	TC..1102	1	-
BM20-STUCR-11	30	20	25	M16X0.75	13	6	TC..1102	1	-
BM25-STUCR-11	30	25	30	M20X0.75	15	4	TC..1102	1	-
BM32-STUCR-16	35	32	39	18	19.5	5	TC..16T3	2	-
BM40-STUCR-16	40	40	51	22	5.5	5	TC..16T3	2	-
BM50-STUCR-16	40	50	61	28	30.4	5	TC..16T3	2	-

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 Torque
TC..1102	M2.5-6.0-3.5-60	T8	1.2 N.m
TC..16T3	M4-8.0-5.7-60	T15	3.0 N.m

•長度單位 Unit of Length (mm)

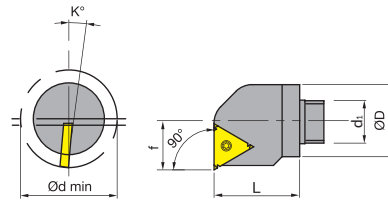


Fig.1

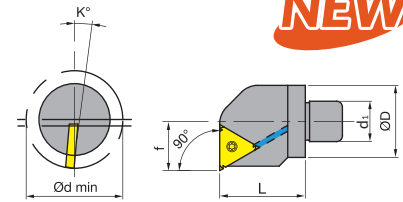


Fig.2

規格 Spec.	L	D	d	d1	F	K°	刀片 Insert	Fig.	重量 (KGS) Weight
BM16-SNR-16	25	16	20	M13X0.5	10	15	16IR	1	-
BM20-SNR-16	30	20	26	M16X0.75	13	15	16IR	1	-
BM25-SNR-16	30	25	32	M20X0.75	17	15	16IR	1	-
BM32-SNR-16	35	32	40	18	20	-	16IR	2	-
BM40-SNR-16	40	40	52	22	26	-	16IR	2	-
BM50-SNR-16	40	50	64	28	23	-	16IR	2	-

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 Torque
16IR	M3.5-11.7-5.3-60	T15	3.0 N.m

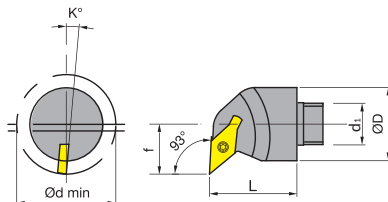


Fig.1

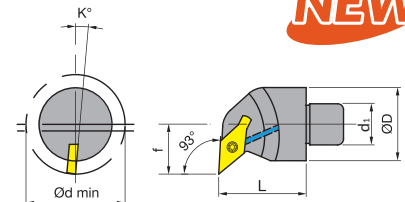


Fig.2

規格 Spec.	L	D	d	d1	F	K°	刀片 Insert	Fig.	重量 (KGS) Weight
BM16-SDUCR-11	25	16	20	M13X0.5	11	6	DC..11T3	1	-
BM20-SDUCR-11	30	20	26	M16X0.75	13	6	DC..11T3	1	-
BM25-SDUCR-11	30	25	32	M20X0.75	16	6	DC..11T3	1	-
BM32-SDUCR-11	35	32	40	18	20	6	DC..11T3	2	-
BM40-SDUCR-11	40	40	52	22	26	6	DC..11T3	2	-
BM50-SDUCR-11	40	50	64	28	32	6	DC..11T3	2	-

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 Torque
DC..11T3	M4-10-5.7-60	T15	3.0 N.m

•長度單位 Unit of Length (mm)

BM/STUPR 模組化內徑車刀

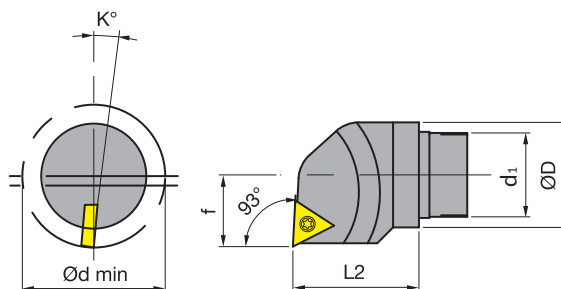
BM/STUPR MODULAR BORING BAR HEAD

Anti-Vibration



KOVIT

NEW



規格 Spec.	L	D	d	d1	F	K°	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 Torque	重量 (KGS) Weight
BM16-STUPR-11	25	16	20	M13X0.5	10	6	TP..1103	M3-8.0-4.0-43	T9	1.4 N.m	-
BM20-STUPR-11	30	20	25	M16X0.75	13	4	TP..1103	M3-8.0-4.0-43	T9	1.4 N.m	-
BM25-STUPR-11	30	25	30	M20X0.75	15	2	TP..1103	M3-8.0-4.0-43	T9	1.4 N.m	-

配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 Torque
TP..1103	M3-8.0-4.0-43	T9	1.4

BM/MCLNR 模組化內徑車刀

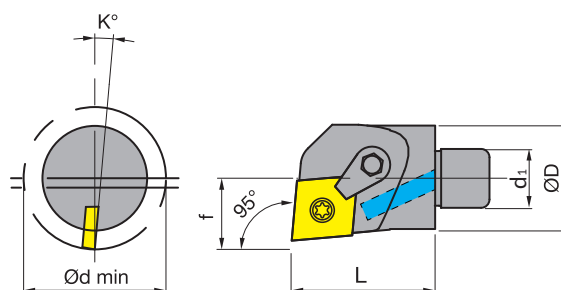
BM/MCLNR MODULAR BORING BAR HEAD

Anti-Vibration



KOVIT

NEW



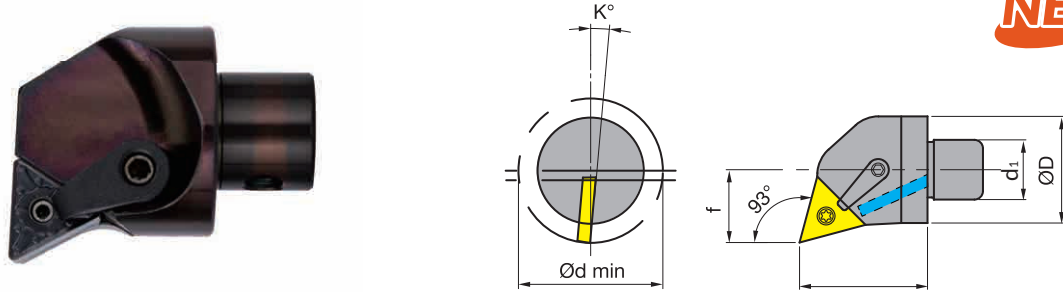
規格 Spec.	L	D	d	d1	F	K°	刀片 Insert	重量 (KGS) Weight
BM32-MCLNR-12	35	32	40	18	20	12	CN..1204	-
BM40-MCLNR-12	40	40	48	22	24	12	CN..1204	-
BM50-MCLNR-12	40	50	64	28	32	12	CN..1204	-

配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench
CN..1204	CMS432	MLP46	PL2.5	MC620	MS625	PL3

•長度單位 Unit of Length (mm)

NEW

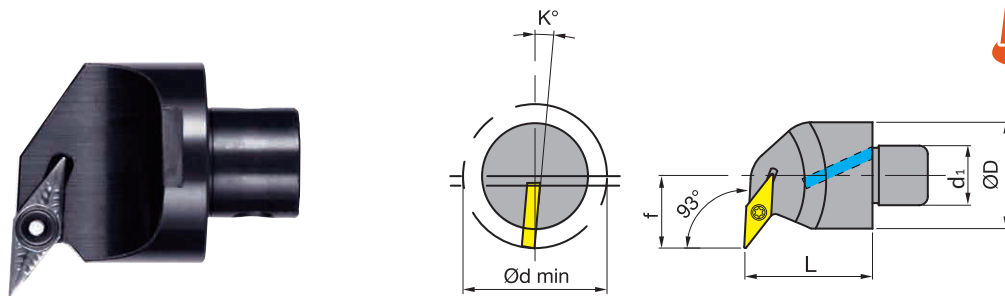


規格 Spec.	L	D	d	d1	F	K°	刀片 Insert	重量 (KGS) Weight
BM32-MTUNR-16	35	32	40	18	19.5	13	TN..1604	-
BM40-MTUNR-16	40	40	52	22	25.5	13	TN..1604	-
BM50-MTUNR-16	40	50	64	28	30.4	13	TN..1604	-

配件表 Accessories

刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	壓板 Clamp	壓板螺絲 Clamp Screw	壓板扳手 Clamp Wrench
TN..1604	TWS322	MLP34L	PL2	MC620	MS625	PL3
TN..1604	TWS322	MLP34L	PL2	MC620	MS625	PL3
TN..1604	TWS322	MLP34L	PL2	MC620	MS625	PL3

NEW



規格 Spec.	L	D	d	d1	F	K°	刀片 Insert	重量 (KGS) Weight
BM32-SVUCR-16	35	32	40	18	20	5	VC..1604	-
BM40-SVUCR-16	40	40	52	22	26	5	VC..1604	-
BM50-SVUCR-16	40	50	64	28	32	5	VC..1604	-

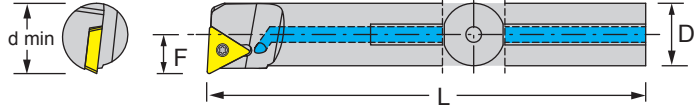
配件表 Accessories

刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 Torque
VC..1604	M3.5-8.0-5.0-60	T15	3.0N.m

•長度單位 Unit of Length (mm)

DPSTUPR 一體式減震車刀架 - 出水型

DPSTUPR VIBRATION-DAMPED BORING BAR WITH COOLANT



8 倍長 8 Times Longer

規格 Spec.	L	D	d	F	使用刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
DPS12-STUPR-09-14-196L-C	196	12	14	7.5	TP.0902	M2.5-6.0-3.5-60	T8	1.2	-
DPS12-STUPR-11-14-196L-C	196	12	14	7.5	TP.1103	M3-8.0-4.0-43	T9	1.4	-
DPS16-STUPR-11-18-228L-C	228	16	18	9.5	TP.1103	M3-8.0-4.0-43	T9	1.4	-

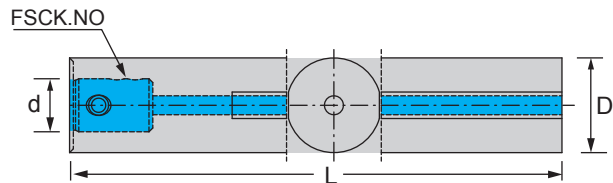
10 倍長 10 Times Longer

規格 Spec.	L	D	d	F	使用刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
DPC12-STUPR-09-14-220L-C	220	12	14	7.5	TP.0902	M2.5-6.0-3.5-60	T8	1.2	0.32
DPC12-STUPR-11-14-220L-C	220	12	14	7.5	TP.1103	M3-8.0-4.0-43	T9	1.4	0.32
DPC16-STUPR-11-18-260L-C	260	16	18	9.5	TP.1103	M3-8.0-4.0-43	T9	1.4	-



DPFSCK 模組化減震車刀柄 - 出水型

DPFSCK MODULAR VIBRATION-DAMPED BORING BAR SHANK



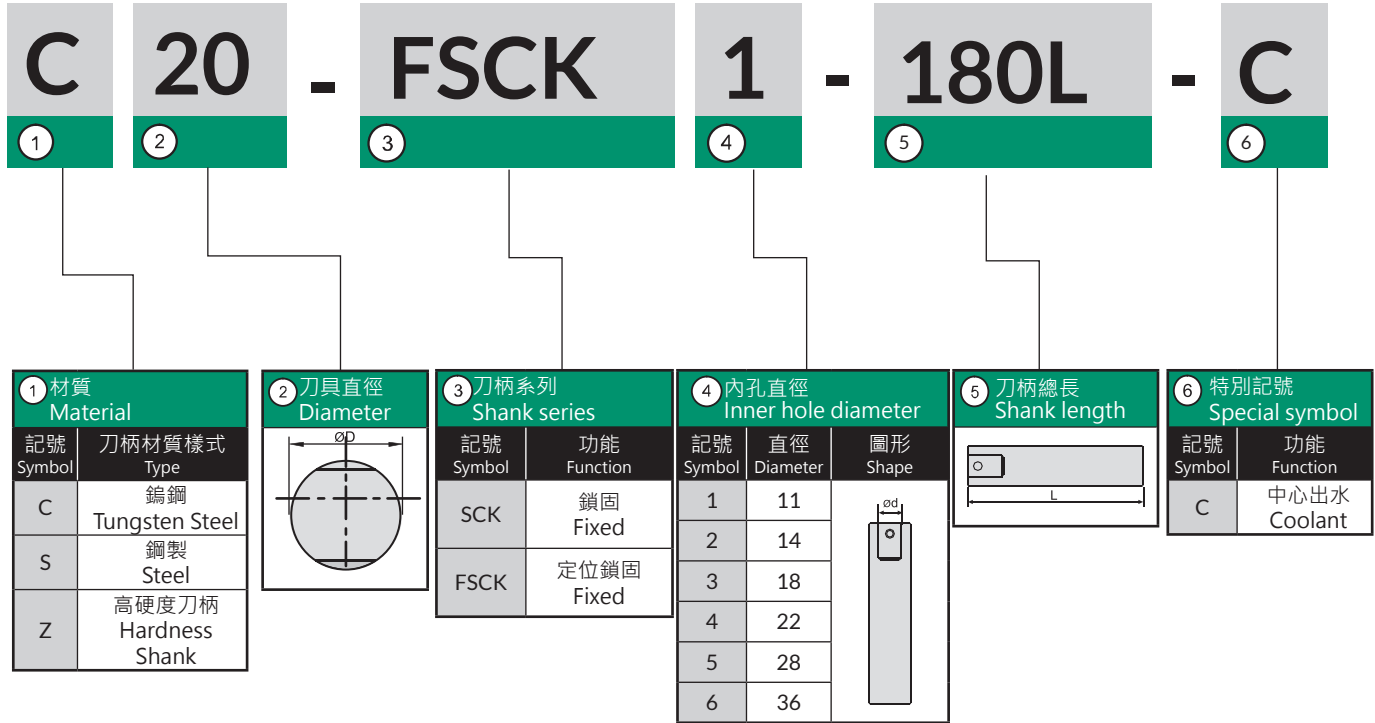
8 倍長 8 Times Longer

規格 Spec.	L	D	d	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
DPS20-FSCK1-240L-C	240	20	11	FSCK1-M5	PL2.5	5.0	-
DPS25-FSCK2-275L-C	275	25	14	FSCK2-M6	PL3	5.0	1.16
DPS32-FSCK3-326L-C	326	32	18	FSCK3-M6	PL3	5.0	2.23
DPS40-FSCK4-410L-C	410	40	22	FSCK4-M8	PL4	6.0	-

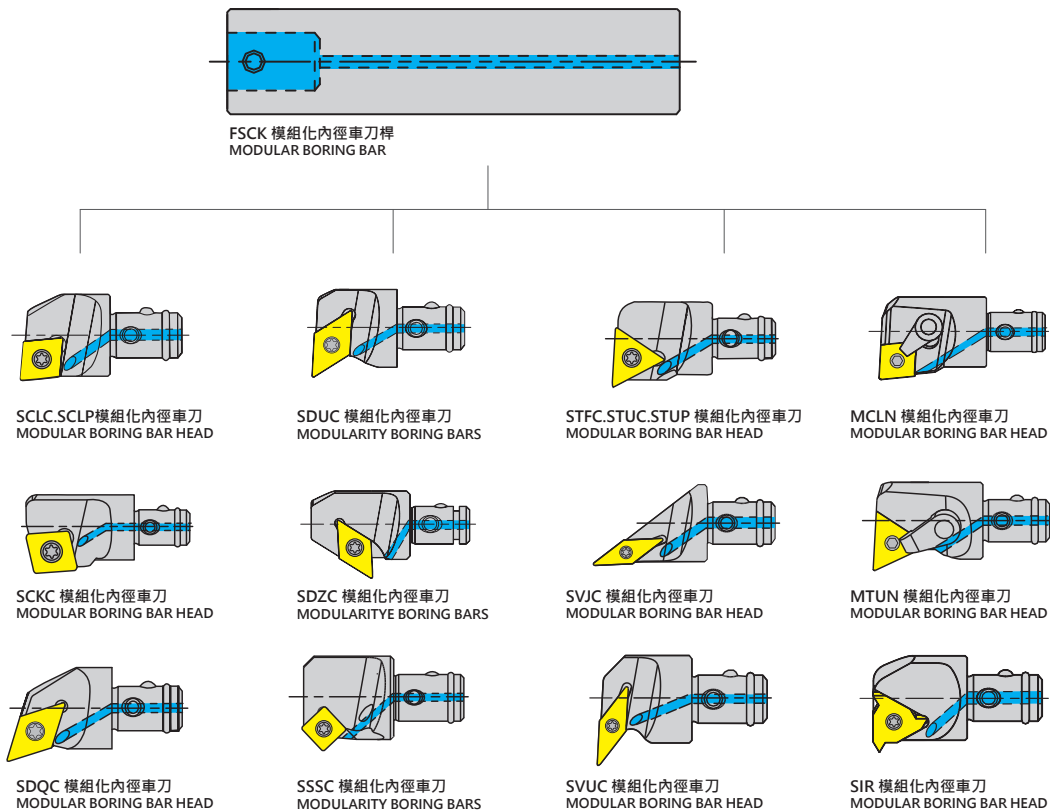
10 倍長 10 Times Longer

規格 Spec.	L	D	d	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
DPC20-FSCK1-280L-C	280	20	11	FSCK1-M5	PL2.5	5.0	1.08
DPC25-FSCK2-325L-C	325	25	14	FSCK2-M6	PL3	5.0	1.9
DPC32-FSCK3-390L-C	390	32	18	FSCK3-M6	PL3	5.0	3.76
DPC40-FSCK4-490L-C	490	40	22	FSCK4-M8	PL4	6.0	-

•長度單位 Unit of Length (mm)



FSCK 組合圖 Combination Icon

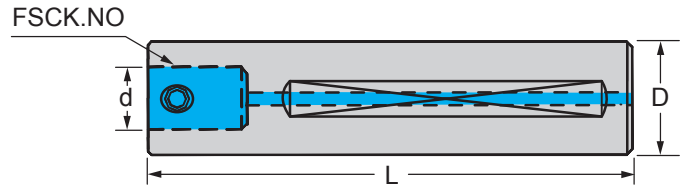


• 長度單位 Unit of Length (mm)

FSCK 定位高硬度內徑車刀柄

FSCK FIXED STRAIGHT TURNING TOOLS

KOVIT



特點 Feature

- 抗震係數 4~5 倍

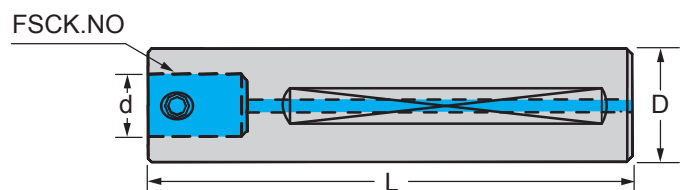
-Vibration resistance ratio: 4~5.

規格 Spec.	組合刀柄 NO.	L	D	d	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
Z20-FSCK1-180L-C	FSCK1	180	20	11	FSCK1-M5	PL2.5	5.0	0.43
Z25-FSCK2-175L-C	FSCK2	175	25	14	FSCK2-M6	PL3	5.0	0.66
Z25-FSCK2-225L-C	FSCK2	225	25	14	FSCK2-M6	PL3	5.0	0.84
Z32-FSCK3-220L-C	FSCK3	220	32	18	FSCK3-M6	PL3	5.0	1.30
Z32-FSCK3-270L-C	FSCK3	270	32	18	FSCK3-M6	PL3	5.0	2.90
Z40-FSCK4-267L-C	FSCK4	267	40	22	FSCK4-M8	PL4	5.0	-
Z50-FSCK5-290L-C	FSCK5	290	50	28	FSCK5-M10	PL5	6.0	-

FSCK 定位鎢鋼內徑車刀柄

FSCK FIXED TUNGSTEN TURNING TOOLS

KOVIT



特點 Feature

- 抗震係數 5~6 倍

-Vibration resistance ratio: 5~6

規格 Spec.	組合刀柄 NO.	L	D	d	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
C20-FSCK1-180L-C	FSCK1	180	20	11	FSCK1-M5	PL2.5	5.0	0.8
C20-FSCK1-230L-C	FSCK1	230	20	11	FSCK1-M5	PL2.5	5.0	0.98
C25-FSCK2-175L-C	FSCK2	175	25	14	FSCK2-M6	PL3	5.0	1.18
C25-FSCK2-225L-C	FSCK2	225	25	14	FSCK2-M6	PL3	5.0	1.50
C32-FSCK3-170L-C	FSCK3	170	32	18	FSCK3-M6	PL3	5.0	1.80
C32-FSCK3-220L-C	FSCK3	220	32	18	FSCK3-M6	PL3	5.0	2.33
C32-FSCK3-270L-C	FSCK3	270	32	18	FSCK3-M6	PL3	5.0	2.86

• 長度單位 Unit of Length (mm)

1 材質 Material		3 刀柄系列 Series		6 刀片形狀 Shape				8 離隙角 Relief Angle		9 切削方向 Direction		11 最小加工徑 Min. Dia.
記號 Symbol	刀柄材質樣式 Type	記號 Symbol	功能 Function	記號 Symbol	形狀 Shape	角度 Angle	圖形 Shape	記號 Symbol	離隙角 Relief Angle	記號 Symbol	圖形 Shape	
C	鎢鋼 Tungsten	SCK	鎖固 Fixed	C	菱形 Rhombic	80°		B	5°	L		
S	鋼製 Steel	FSCK	定位鎖固 Fixed	D		55°		C	7°	N		
Z	高硬度刀柄 Hardness Shank			J		70°		D	15°	R		
SC	鎢鋼焊接式 Tungsten Welding			V		35°		E	20°			
				R	圓形 Round	-		N	0°			
				S	正方形 Square	90°		P	11°			
				T	正三角形 Triangle	60°						
				W	六角形 Hexagonal	80°						

S **20** - **FSCK** **1** - **S** **T** **L** **C** **R** **09** - **16** - **C**

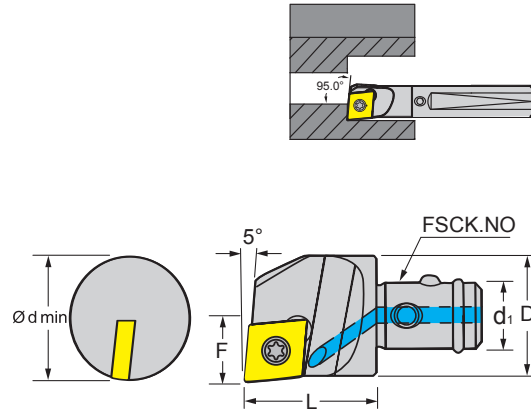
2 刀具直徑 Diameter		4 內孔直徑 Inner hole			5 壓板鎖固方式 Locking Type			7 切刃形狀 Shape				10 刀片邊寬 Width		12 特別記號 Specialize	
記號 Symbol	直徑 Diameter	記號 Symbol	直徑 Diameter	圖形 Shape	記號 Symbol	名稱 Name	圖形 Shape	記號 Symbol	圖形 Shape	記號 Symbol	圖形 Shape	記號 Symbol	圖形 Shape	記號 Symbol	功能 Function
		1	11		C	上壓式 Clamp		A		L2 ※		S		C	中心出水 Coolant
		2	14		M	螺銷上壓式 Pin/Clamp		B		N		T			
		3	18		W	楔鉤式 Clamp		C		N3 ※		R			
		4	22		S	壓孔式 Screw		D		P ※		L			
		5	28		P	側推式 Pin		E		Q ※		CD			
		6	36					F		S		EV			
							G		V		A				
							G		U		BK				
							J		X						
							J2 ※		Y						
							K		Z						
							L								

•長度單位 Unit of Length (mm)



SCLC 模組化內徑車刀 SCLC MODULAR TURNING TOOL HEAD

KOVIT

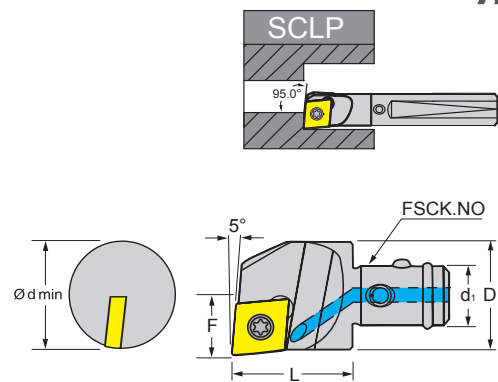


規格 Spec.	L	D	最小加工徑 d	d ₁	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-SCLCR09-22-C	22	20	22	11	11	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-SCLCL09-22-C	22	20	22	11	11	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-SCLCR09-28-C	25	25	28	14	14.5	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.12
S25-FSCK2-SCLCL09-28-C	25	25	28	14	14.5	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-SCLCR09-38-C	30	32	38	18	17.5	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.20
S32-FSCK3-SCLCL09-38-C	30	32	38	18	17.5	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.20
S40-FSCK4-SCLCR09-43-C	33	40	43	22	21	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.38
S40-FSCK4-SCLCL09-43-C	33	40	43	22	21	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.38
S50-FSCK5-SCLCR09-60-C	35	50	60	28	30	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.54
S50-FSCK5-SCLCL09-60-C	35	50	60	28	30	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.54



SCLP 模組化內徑車刀 SCLP MODULAR TURNING TOOL HEAD

KOVIT



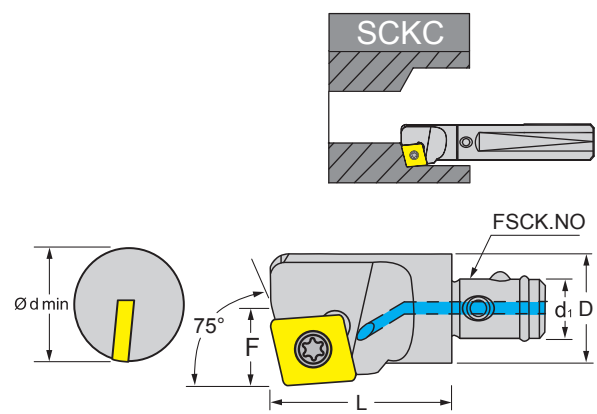
規格 Spec.	L	D	最小加工徑 d	d ₁	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-SCLPR09-22-C	22	20	22	11	11	CP.0903	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-SCLPL09-22-C	22	20	22	11	11	CP.0903	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-SCLPR09-28-C	25	25	28	14	14	CP.0903	M4-7.8-5.6-60	T15	3.0	0.12
S25-FSCK2-SCLPL09-28-C	25	25	28	14	14	CP.0903	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-SCLPR09-35-C	24	32	35	18	17.5	CP.0903	M4-7.8-5.6-60	T15	3.0	0.22
S32-FSCK3-SCLPL09-35-C	24	32	35	18	17.5	CP.0903	M4-7.8-5.6-60	T15	3.0	0.22

•長度單位 Unit of Length (mm)



SCKC 模組化內徑車刀 SCKC MODULAR TURNING TOOL HEAD

KOVIT

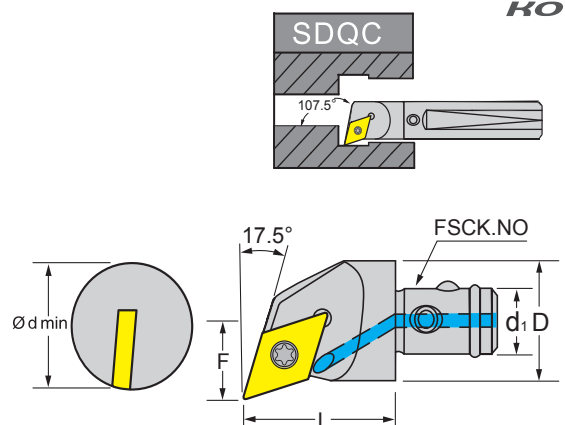


規格 Spec.	L	D	最小加工徑 d	d ₁	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-SCKCR09-24-C	22	20	24	11	11.5	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-SCKCL09-24-C	22	20	24	11	11.5	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-SCKCR09-30-C	25	25	30	14	15	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.12
S25-FSCK2-SCKCL09-30-C	25	25	30	14	15	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-SCKCR09-38-C	30	32	38	18	17.5	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.22
S32-FSCK3-SCKCL09-38-C	30	32	38	18	17.5	CC..09T3	M4-7.8-5.6-60	T15	3.0	0.22



SDQC 模組化內徑車刀 SDQC MODULAR TURNING TOOL HEAD

KOVIT



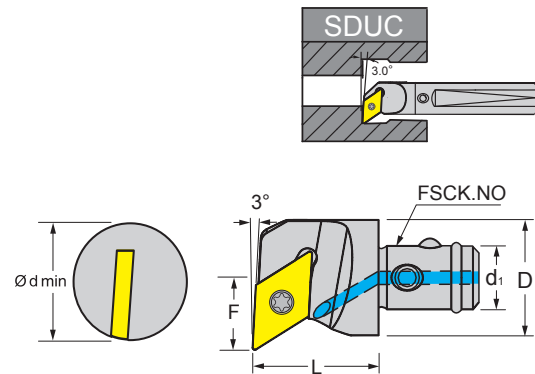
規格 Spec.	L	D	最小加工徑 d	d ₁	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-SDQCR11-25-C	22	20	25	11	13	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-SDQCL11-25-C	22	20	25	11	13	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-SDQCR11-32-C	27	25	31	14	17	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.12
S25-FSCK2-SDQCL11-32-C	27	25	31	14	17	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-SDQCR11-40-C	30	32	40	18	20	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.22
S32-FSCK3-SDQCL11-40-C	30	32	40	18	20	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.22
S40-FSCK4-SDQCR11-50-C	33	40	50	22	25	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.38
S40-FSCK4-SDQCL11-50-C	33	40	50	22	25	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.38
S50-FSCK5-SDQCR11-56-C	35	50	56	28	30	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.50
S50-FSCK5-SDQCL11-56-C	35	50	56	28	30	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.50

•長度單位 Unit of Length (mm)

SDUC 模組化內徑車刀

SDUC MODULAR TURNING TOOL HEAD

KOVIT

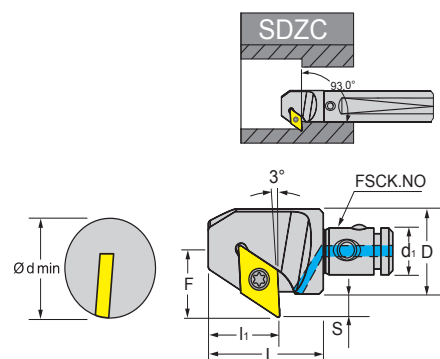


規格 Spec.	L	D	最小加工徑 d	d ₁	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-SDUCR11-23-C	22	20	23	11	12.5	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.07
S20-FSCK1-SDUCL11-23-C	22	20	23	11	12.5	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-SDUCR11-25-C	22	20	25	11	13	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-SDUCL11-25-C	22	20	25	11	13	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-SDUCR11-32-C	25	25	32	14	17	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.12
S25-FSCK2-SDUCL11-32-C	25	25	32	14	17	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-SDUCR11-40-C	30	32	40	18	20	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.20
S32-FSCK3-SDUCL11-40-C	30	32	40	18	20	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.22
S40-FSCK4-SDUCR11-46-C	33	40	46	22	25	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.38
S40-FSCK4-SDUCL11-46-C	33	40	46	22	25	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.38
S50-FSCK5-SDUCR11-56-C	35	50	56	28	30	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.50
S50-FSCK5-SDUCL11-56-C	35	50	56	28	30	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.50

SDZC 模組化內徑車刀

SDZC MODULAR TURNING TOOL HEAD

KOVIT



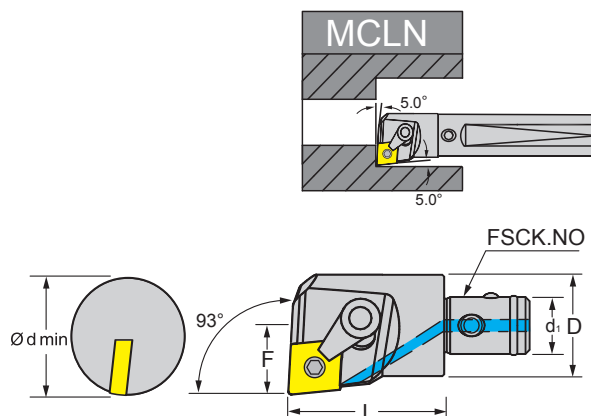
規格 Spec.	L	l ₁	D	最小加工徑 d	d ₁	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-SDZCR11-26-C	29	18	20	26	11	15.5	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.10
S20-FSCK1-SDZCL11-26-C	29	18	20	26	11	15.5	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-SDZCR11-33-C	34	18	25	33	14	18	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.14
S25-FSCK2-SDZCL11-33-C	34	18	25	33	14	18	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-SDZCR11-40-C	35	18	32	40	18	21.5	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.22
S32-FSCK3-SDZCL11-40-C	35	18	32	40	18	21.5	DC..11T3	M4-7.8-5.6-60	T15	3.0	0.22

•長度單位 Unit of Length (mm)



MCLN 模組化內徑車刀 MCLN MODULAR TURNING TOOL HEAD

KOVIT

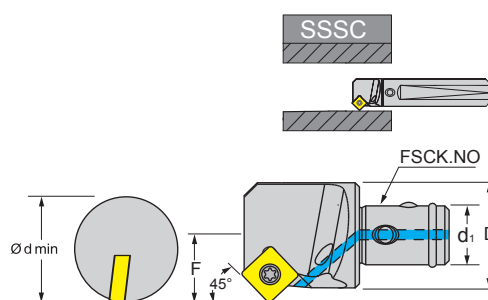


規格 Spec.	L	D	最小加工徑 d	d ₁	F	刀片 Insert	墊片 Shim	墊片螺絲 Screw	扳手 Wrench	壓板 Clamp	壓板螺絲 Screw	扳手 Wrench	重量 (KGS) Weight
S20-FSCK1-MCLNR12-25-C	33	20	25	11	13	CN..1204	-	MLP44	PL2.5	MC515	MS520	P2.5	0.08
S20-FSCK1-MCLNL12-25-C	33	20	25	11	13	CN..1204	-	MLP44	PL2.5	MC515	MS520	P2.5	0.08
S25-FSCK2-MCLNR12-32-C	34	25	32	14	15	CN..1204	-	MLP44	PL2.5	MC620	MS620	P3.0	0.12
S25-FSCK2-MCLNL12-32-C	34	25	32	14	15	CN..1204	-	MLP44	PL2.5	MC620	MS620	P3.0	0.12
S32-FSCK3-MCLNR12-40-C	35	32	40	18	20	CN..1204	CMS432	MLP46	PL2.5	MC620	MS620	P3.0	0.22
S32-FSCK3-MCLNL12-40-C	35	32	40	18	20	CN..1204	CMS432	MLP46	PL2.5	MC620	MS620	P3.0	0.22
S40-FSCK4-MCLNR12-46-C	35	40	46	22	25	CN..1204	CMS432	MLP46	PL2.5	MC620	MS625	P3.0	0.38
S40-FSCK4-MCLNL12-46-C	35	40	46	22	25	CN..1204	CMS432	MLP46	PL2.5	MC620	MS625	P3.0	0.38
S50-FSCK5-MCLNR12-60-C	36	50	60	28	30	CN..1204	CMS432	MLP46	PL2.5	MC620	MS625	P3.0	0.50
S50-FSCK5-MCLNL12-60-C	36	50	60	28	30	CN..1204	CMS432	MLP46	PL2.5	MC620	MS625	P3.0	0.50



SSSC 模組化內徑車刀 SSSC MODULAR TURNING TOOL HEAD

KOVIT



規格 Spec.	L	D	最小加工徑 d	d ₁	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-SSSCR09-26-C	22	20	26	11	13.5	SC..09T3	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-SSSCL09-26-C	22	20	26	11	13.5	SC..09T3	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-SSSCR09-31-C	27	25	31	14	16	SC..09T3	M4-7.8-5.6-60	T15	3.0	0.12
S25-FSCK2-SSSCL09-31-C	27	25	31	14	16	SC..09T3	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-SSSCR09-40-C	30	32	40	18	19.5	SC..09T3	M4-7.8-5.6-60	T15	3.0	0.22
S32-FSCK3-SSSCL09-40-C	30	32	40	18	19.5	SC..09T3	M4-7.8-5.6-60	T15	3.0	0.22

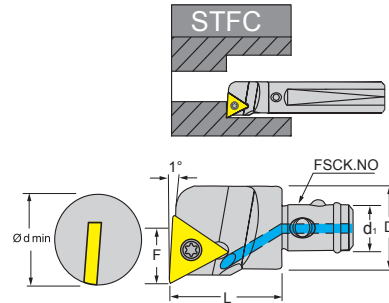
•長度單位 Unit of Length (mm)



STFC 模組化內徑車刀

STFC MODULAR TURNING TOOL HEAD

KOVIT



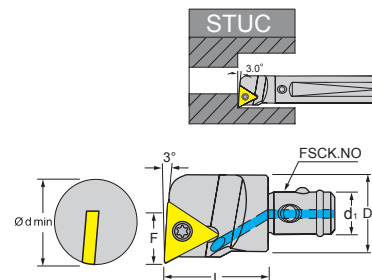
規格 Spec.	L	D	最小加工徑 d	d ₁	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-STFCR11-22-C	22	20	22	11	11	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.08
S20-FSCK1-STFCL11-22-C	22	20	22	11	11	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.08
S20-FSCK1-STFCR16-22-C	22	20	22	11	11.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-STFCL16-22-C	22	20	22	11	11.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-STFCR11-28-C	25	25	28	14	14	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.12
S25-FSCK2-STFCL11-28-C	25	25	28	14	14	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.12
S25-FSCK2-STFCR16-28-C	27	32	28	14	14	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.12
S25-FSCK2-STFCL16-28-C	27	32	28	14	14	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-STFCR16-38-C	30	32	38	18	17.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.22
S32-FSCK3-STFCL16-38-C	30	32	38	18	17.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.22
S40-FSCK4-STFCR16-50-C	33	40	50	22	21.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.38
S40-FSCK4-STFCL16-50-C	33	40	50	22	21.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.38
S50-FSCK5-STFCR16-60-C	35	50	60	28	26.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.50
S50-FSCK5-STFCL16-60-C	35	50	60	28	26.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.50



STUC 模組化內徑車刀

STUC MODULAR TURNING TOOL HEAD

KOVIT



規格 Spec.	L	D	最小加工徑 d	d ₁	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-STUCR11-22-C	22	20	22	11	11	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.08
S20-FSCK1-STUCL11-22-C	22	20	22	11	11	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.08
S25-FSCK2-STUCR11-28-C	25	25	28	14	14	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.12
S25-FSCK2-STUCL11-28-C	25	25	28	14	14	TC..1102	M2.5-6.0-3.5-60	T8	1.2	0.12
S20-FSCK1-STUCR16-22-C	22	20	22	11	11	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-STUCL16-22-C	22	20	22	11	11	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-STUCR16-28-C	27	25	28	14	14	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.12
S25-FSCK2-STUCL16-28-C	27	25	28	14	14	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-STUCR16-38-C	30	32	38	18	17.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.22
S32-FSCK3-STUCL16-38-C	30	32	38	18	17.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.22
S40-FSCK4-STUCR16-50-C	33	40	50	22	21.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.38
S40-FSCK4-STUCL16-50-C	33	40	50	22	21.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.38
S50-FSCK5-STUCR16-60-C	35	50	60	28	26.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.50
S50-FSCK5-STUCL16-60-C	35	50	60	28	26.5	TC..16T3	M4-7.8-5.6-60	T15	3.0	0.50

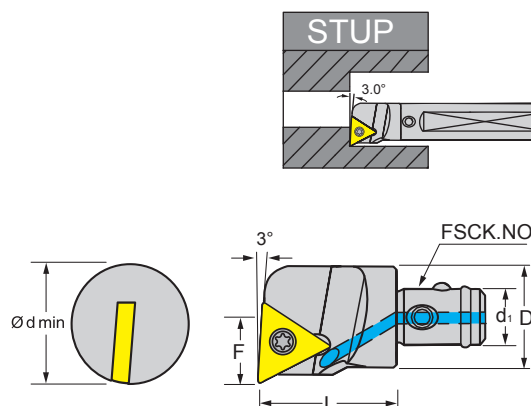
•長度單位 Unit of Length (mm)



STUP 模組化內徑車刀

STUP MODULAR TURNING TOOL HEAD

KOVIT



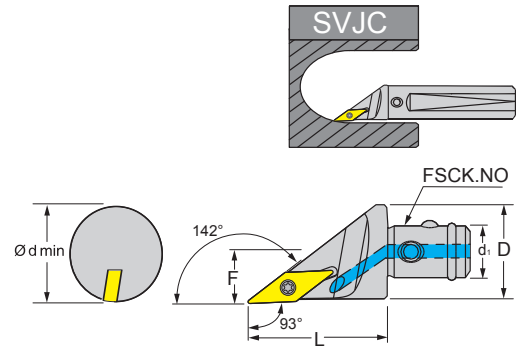
規格 Spec.	L	D	最小加工徑 d	d ₁	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-STUPR11-22-C	22	20	22	11	11.5	TP.1103	M3-8.0-4.0-43	T9	1.4	0.08
S20-FSCK1-STUPL11-22-C	22	20	22	11	11.5	TP.1103	M3-8.0-4.0-43	T9	1.4	0.08
S25-FSCK2-STUPR11-30-C	25	25	30	14	15	TP.1103	M3-8.0-4.0-43	T9	1.4	0.12
S25-FSCK2-STUPL11-30-C	25	25	30	14	15	TP.1103	M3-8.0-4.0-43	T9	1.4	0.12
S20-FSCK1-STUPR1603-25-C	22	20	25	11	13	TP.1603	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-STUPL1603-25-C	22	20	25	11	13	TP.1603	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-STUPR1603-28-C	27	25	28	14	14	TP.1603	M4-7.8-5.6-60	T15	3.0	0.12
S25-FSCK2-STUPL1603-28-C	27	25	28	14	14	TP.1603	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-STUPR1603-38-C	30	32	38	18	17.5	TP.1603	M4-7.8-5.6-60	T15	3.0	0.22
S32-FSCK3-STUPL1603-38-C	30	32	38	18	17.5	TP.1603	M4-7.8-5.6-60	T15	3.0	0.22
S40-FSCK4-STUPR1603-43-C	33	40	43	22	21.5	TP.1603	M4-7.8-5.6-60	T15	3.0	0.38
S40-FSCK4-STUPL1603-43-C	33	40	43	22	21.5	TP.1603	M4-7.8-5.6-60	T15	3.0	0.38
S50-FSCK5-STUPR1603-60-C	35	50	60	28	26.5	TP.1603	M4-7.8-5.6-60	T15	3.0	0.50
S50-FSCK5-STUPL1603-60-C	35	50	60	28	26.5	TP.1603	M4-7.8-5.6-60	T15	3.0	0.50
S20-FSCK1-STUPR16-25-C	22	20	25	11	13	TP.16T3	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-STUPL16-25-C	22	20	25	11	13	TP.16T3	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-STUPR16-28-C	27	25	28	14	14	TP.16T3	M4-7.8-5.6-60	T15	3.0	0.12
S25-FSCK2-STUPL16-28-C	27	25	28	14	14	TP.16T3	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-STUPR16-38-C	30	32	38	18	17.5	TP.16T3	M4-7.8-5.6-60	T15	3.0	0.22
S32-FSCK3-STUPL16-38-C	30	32	38	18	17.5	TP.16T3	M4-7.8-5.6-60	T15	3.0	0.22
S40-FSCK4-STUPR16-50-C	33	40	50	22	21.5	TP.16T3	M4-7.8-5.6-60	T15	3.0	0.38
S40-FSCK4-STUPL16-50-C	33	40	50	22	21.5	TP.16T3	M4-7.8-5.6-60	T15	3.0	0.38
S50-FSCK5-STUPR16-53-C	35	50	53	28	26.5	TP.16T3	M4-7.8-5.6-60	T15	3.0	0.50
S50-FSCK5-STUPL16-53-C	35	50	53	28	26.5	TP.16T3	M4-7.8-5.6-60	T15	3.0	0.50
S20-FSCK1-STUPR1604-25-C	22	20	25	11	13	TP.1604	M4-7.8-5.6-60	T15	3.0	0.08
S20-FSCK1-STUPL1604-25-C	22	20	25	11	13	TP.1604	M4-7.8-5.6-60	T15	3.0	0.08
S25-FSCK2-STUPR1604-28-C	27	25	28	14	14	TP.1604	M4-7.8-5.6-60	T15	3.0	0.12
S25-FSCK2-STUPL1604-28-C	27	25	28	14	14	TP.1604	M4-7.8-5.6-60	T15	3.0	0.12
S32-FSCK3-STUPR1604-38-C	30	32	38	18	17.5	TP.1604	M4-7.8-5.6-60	T15	3.0	0.22
S32-FSCK3-STUPL1604-38-C	30	32	38	18	17.5	TP.1604	M4-7.8-5.6-60	T15	3.0	0.22
S40-FSCK4-STUPR1604-43-C	33	40	43	22	21.5	TP.1604	M4-7.8-5.6-60	T15	3.0	0.38
S40-FSCK4-STUPL1604-43-C	33	40	43	22	21.5	TP.1604	M4-7.8-5.6-60	T15	3.0	0.38
S50-FSCK5-STUPR1604-60-C	35	50	60	28	26.5	TP.1604	M4-7.8-5.6-60	T15	3.0	0.50
S50-FSCK5-STUPL1604-60-C	35	50	60	28	26.5	TP.1604	M4-7.8-5.6-60	T15	3.0	0.50

•長度單位 Unit of Length (mm)



SVJC 模組化內徑車刀 SVJC MODULAR TURNING TOOL HEAD

KOVIT

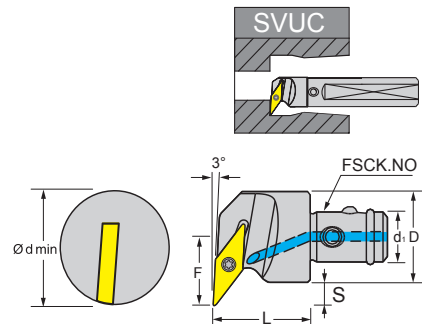


規格 Spec.	L	D	最小 加工徑 d	d ₁	F	車圓弧 最小加工徑	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-SVJCR11-22-C	29	C	22	11	11	43	VC..1103	M2.5-6.0-3.5-60	T8	1.2	0.08
S20-FSCK1-SVJCL11-22-C	29	C	22	11	11	43	VC..1103	M2.5-6.0-3.5-60	T8	1.2	0.08
S20-FSCK1-SVJCR16-23-C	33	11	23	11	11.5	43	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.08
S20-FSCK1-SVJCL16-23-C	33	11	23	11	11.5	43	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.08
S25-FSCK2-SVJCR16-28-C	35	25	28	14	14	49	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.12
S25-FSCK2-SVJCL16-28-C	35	25	28	14	14	49	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.12
S32-FSCK3-SVJCR16-35-C	39	32	35	18	17.5	67	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.22
S32-FSCK3-SVJCL16-35-C	39	32	35	18	17.5	67	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.22



SVUC 模組化內徑車刀 SVUC MODULAR TURNING TOOL HEAD

KOVIT



規格 Spec.	L	D	最小 加工徑 d	d ₁	F	S	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-SVUCR11-27-C	22	20	27	11	15	5	VC..1103	M2.5-6.0-3.5-60	T8	1.2	0.08
S20-FSCK1-SVUCL11-27-C	22	20	27	11	15	5	VC..1103	M2.5-6.0-3.5-60	T8	1.2	0.08
S25-FSCK2-SVUCR11-30-C	25	25	30	14	17	4.5	VC..1103	M2.5-6.0-3.5-60	T8	1.2	0.12
S25-FSCK2-SVUCL11-30-C	25	25	30	14	17	4.5	VC..1103	M2.5-6.0-3.5-60	T8	1.2	0.12
S20-FSCK1-SVUCR16-31-C	27	20	31	11	19	9	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.08
S20-FSCK1-SVUCL16-31-C	27	20	31	11	19	9	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.08
S25-FSCK2-SVUCR16-33-C	27	25	33	14	18	5.5	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.12
S25-FSCK2-SVUCL16-33-C	27	25	33	14	18	5.5	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.12
S32-FSCK3-SVUCR16-40-C	30	32	40	18	22	6	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.22
S32-FSCK3-SVUCL16-40-C	30	32	40	18	22	6	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.22
S40-FSCK4-SVUCR16-48-C	33	40	48	22	27	7	VC..1604	M3.5-11.7-5.3-60	T15	3.0	0.38
S40-FSCK4-SVUCL16-48-C	33	40	48	22	27	7	VC..1604	M3.5-7.6-5.1-60	T15	3.0	0.38

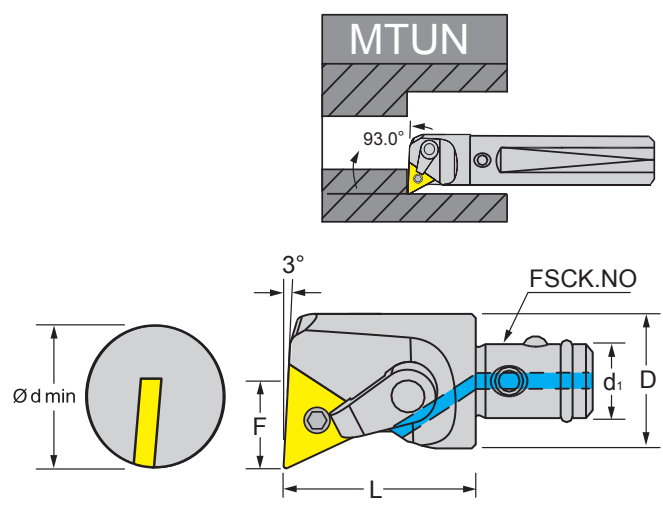
•長度單位 Unit of Length (mm)



MTUN 模組化內徑車刀

MTUN MODULAR TURNING TOOL HEAD

KOVIT



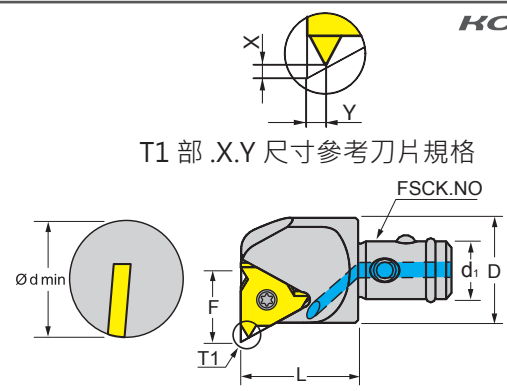
規格 Spec.	L	D	最小加工徑 d	d ₁	F	刀片 Insert	墊片 Shim	墊片螺絲 Shim Screw	扳手 Wrench	壓板 Clamp	壓板螺絲 Screw	扳手 Wrench	重量 (KGS) Weight
S20-FSCK1-MTUNR16-25-C	29	20	25	11	13	TN..1604	-	MLP33L	PL2	MC515	MS520	PL2.5	0.08
S20-FSCK1-MTUNL16-25-C	29	20	25	11	13	TN..1604	-	MLP33L	PL2	MC515	MS520	PL2.5	0.08
S25-FSCK2-MTUNR16-32-C	30	25	32	14	17	TN..1604	-	MLP33L	PL2	MC620	MS620	PL3	0.12
S25-FSCK2-MTUNL16-32-C	30	25	32	14	17	TN..1604	-	MLP33L	PL2	MC620	MS620	PL3	0.12
S32-FSCK3-MTUNR16-40-C	34	32	40	18	20	TN..1604	TMS322	MLP34L	PL2	MC620	MS625	PL3	0.22
S32-FSCK3-MTUNL16-40-C	34	32	40	18	20	TN..1604	TMS322	MLP34L	PL2	MC620	MS625	PL3	0.22
S40-FSCK4-MTUNR16-47-C	35	40	47	22	26	TN..1604	TMS322	MLP34L	PL2	MC620	MS625	PL3	0.38
S40-FSCK4-MTUNL16-47-C	35	40	47	22	26	TN..1604	TMS322	MLP34L	PL2	MC620	MS625	PL3	0.38
S50-FSCK5-MTUNR16-57-C	36	50	57	28	31	TN..1604	TMS322	MLP34L	PL2	MC620	MS625	PL3	0.50
S50-FSCK5-MTUNL16-57-C	36	50	57	28	31	TN..1604	TMS322	MLP34L	PL2	MC620	MS625	PL3	0.50



SIR 模組化內徑車刀

SIR MODULAR TURNING TOOL HEAD

KOVIT



T1 部 .X.Y 尺寸參考刀片規格

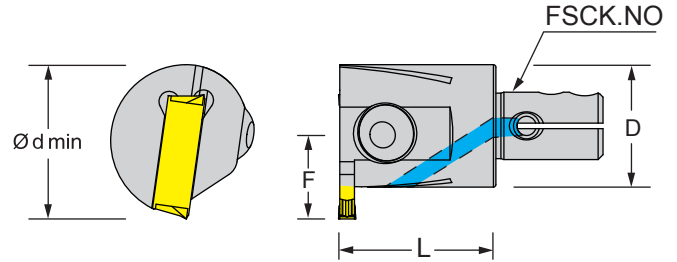
規格 Spec.	L	D	d	d ₁	F	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	墊片 Shim	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-SIR16-24-C	22	20	24	11	13.7	16IR	M3.5-7.6-5.1-60	T15	3.0	-	-	-	-	0.78
S25-FSCK2-SIR16-29-C	27	25	29	14	16.2	16IR	M3.5-12-5.4-67	T15	3.0	GXN16	HTM3	P2.5	5.0	0.14

•長度單位 Unit of Length (mm)

DGIR 模組化內徑切槽刀

DGIR MODULAR TURNING TOOL HEAD

KOVIT



規格 Spec.	L	D	最小加工徑 d	F	最大切深 A_p	刀片 Insert	螺絲 Screw	扳手 Wrench	扭力值 (N.m) Torque	重量 (KGS) Weight
S20-FSCK1-DGIR2-26-C	25	20	26	15.2	5	DGN2	M5-0.8P-16L	PL3	5.0	-
S20-FSCK1-DGIR2-31-C	25	20	31	20.2	10	DGN2	M5-0.8P-16L	PL3	5.0	-
S20-FSCK1-DGIR2-36-C	25	20	36	25.2	15	DGN2	M5-0.8P-16L	PL3	5.0	-
S20-FSCK1-DGIR3-26-C	25	20	26	15.2	5	DGN3	M5-0.8P-16L	PL3	5.0	-
S20-FSCK1-DGIR3-31-C	25	20	31	20.2	10	DGN3	M5-0.8P-16L	PL3	5.0	-
S20-FSCK1-DGIR3-36-C	25	20	36	25.2	15	DGN3	M5-0.8P-16L	PL3	5.0	-
S25-FSCK2-DGIR2-31-C	25	25	31	17.7	5	DGN2	M5-0.8P-16L	PL4	5.0	0.14
S25-FSCK2-DGIR2-36-C	25	25	36	22.7	10	DGN2	M5-0.8P-16L	PL4	5.0	0.15
S25-FSCK2-DGIR2-41-C	25	25	41	27.7	15	DGN2	M5-0.8P-16L	PL4	5.0	0.15
S25-FSCK2-DGIR3-31-C	25	25	31	17.7	5	DGN3	M5-0.8P-16L	PL4	5.0	0.15
S25-FSCK2-DGIR3-36-C	25	25	36	22.7	10	DGN3	M5-0.8P-16L	PL4	5.0	0.15
S25-FSCK2-DGIR3-41-C	25	25	41	27.7	15	DGN3	M5-0.8P-16L	PL4	5.0	0.16

ISO 分類	P 合金鋼 Alloy Steels	M 不鏽鋼 Stainless Steels	K 鑄鐵 Cast Iron	N 鋁及鋁合金 Aluminum&Al	S 高溫合金 Refractory Alloys	H 高硬度材 Hard Material	切削狀態 Cutting Condition :										
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	● 連續切削 Continuous Cutting	○ 一般切削 General Cutting	■ 斷續切削 Interrupted Cutting								
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>											
形狀 Shape	規格 Spec.	鍍層超微粒 Layer coated micro grain								尺寸 (mm) Size				圖形 Drawing			
		CHF								d	i	s	r				
		RM4025															
	DGN2202-J1	●									19.8	2.2	-	0.2			
	DGN3102-J1	●									20.1	3.1	-	0.2			

•長度單位 Unit of Length (mm)



扳手模組化示意圖

Wrench Modular combination

TW扭力起子
Torque Screwdriver



0.5~5 Nm
(固定式Fixed)

BIT延長接桿
Extension



起子頭 ^(14°)
Bits Torx



螺絲
Screw



TW扭力起子
Torque Screwdriver

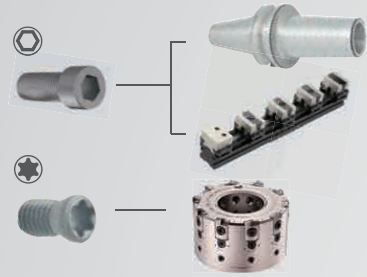


6~12 Nm
(固定式Fixed)

起子頭 ^(14°)
Bits Torx



螺絲
Screw



(後拉螺絲)
(Slim-Fit Screw)

LM-TW 扭力扳手
Torque Spanner



LM-DTW 多功能扭力扳手
Multi-Function Torque Spanner



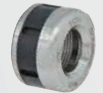
螺帽扳手
Nut Spanner



螺帽
Nuts



ER 標準型
ER Standard



SKS系列
SKS System

無風阻系列
Non Wind Resistance

替換式拉頭扳手
Indexable Spanner For Pull Stud



軸承扳手
Spanner



勾扳手
Spanner



ER扳手
Spanner



拉頭專用扳手
Spanner For Pull Stud
(BT30-BT50)



扳手
Spanner
(T5-T20)



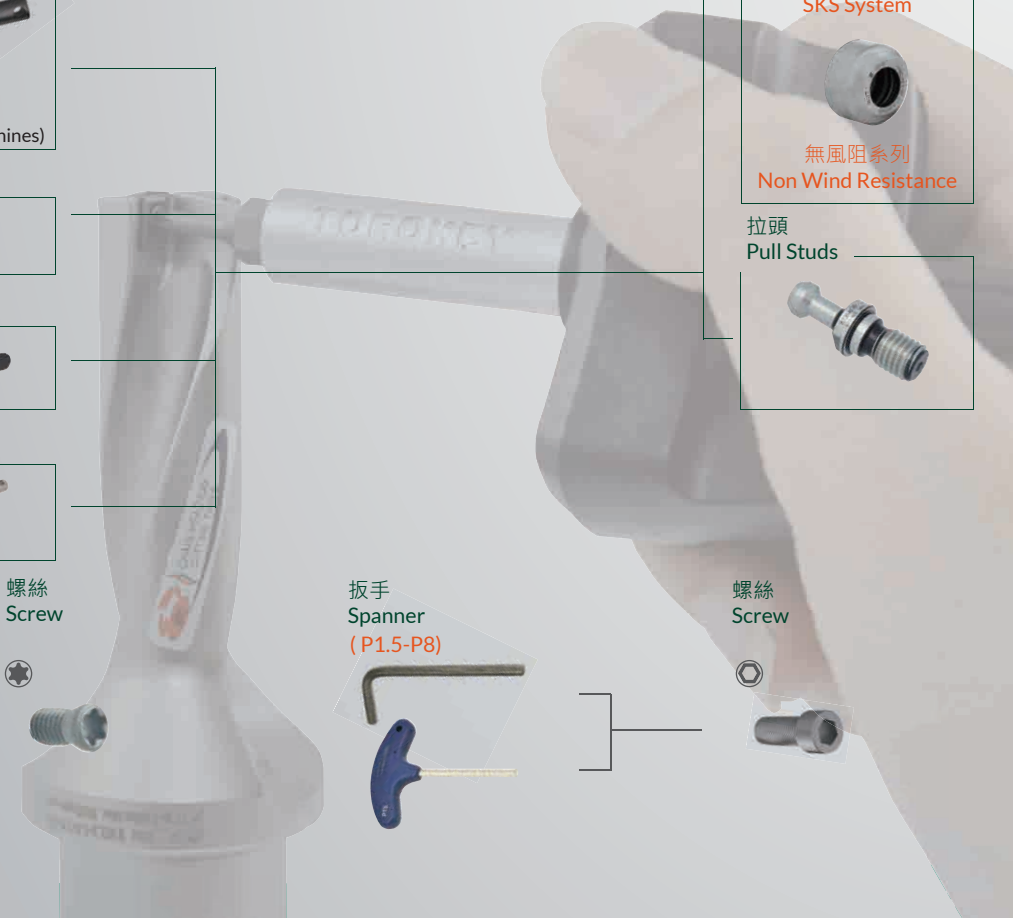
螺絲
Screw



扳手
Spanner
(P1.5-P8)

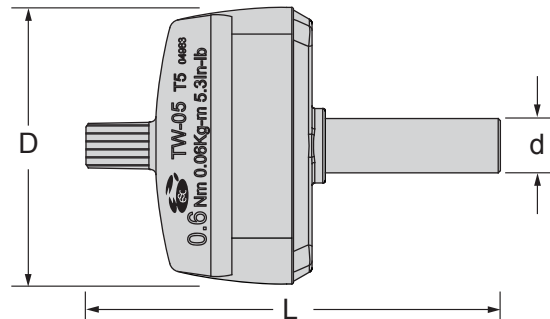


螺絲
Screw





TW 扭力起子 1PC 套裝組
Torque Screwdriver 1PC Set

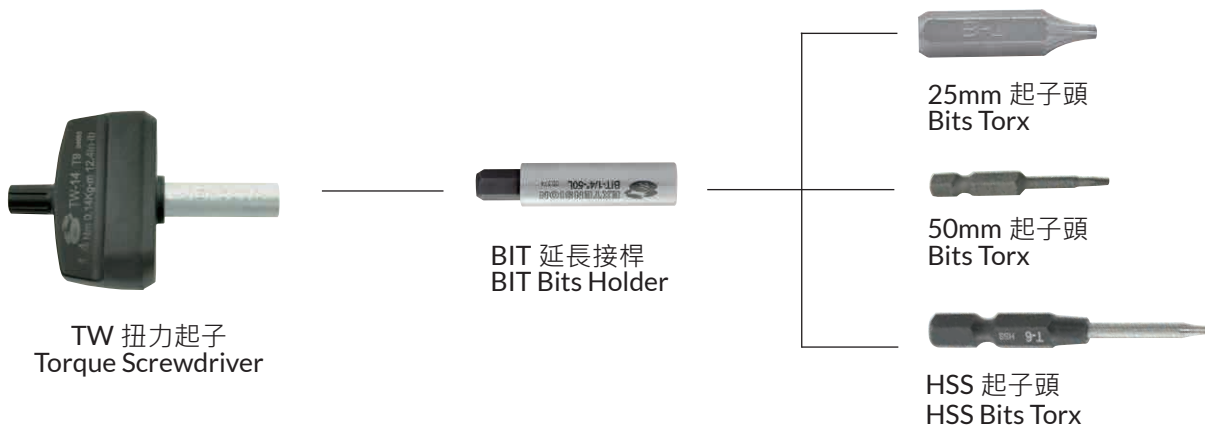


特點 Feature

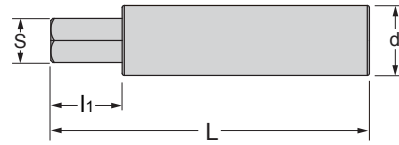
- 適用於需要固定扭力設定要求的工業和工作
- 符合人體工學的 T 型握把設計，操作容易，使用安全
- 更換式接桿，方便使用者依不同使用場合而調整
- 當施力到達固定扭力時，握把會有一回轉力及 "喀擦" 聲來提醒使用者，以避免超過扭力值而造成物件損壞

- Ideal for tasks required specific torque.
- Ergonomic T-Handle. Easy and safe to operate.
- Indexable, can be used under different occasions.
- There will be a "Clicking sound" when reach the specific torque as a reminder to user from damaging workpiece.

規格 Spec.	L	D	d	建議使用起子頭 Bits torx	扭力值 Torque		重量 (KGS) Weight
					N.m	In-lb	
TW-05	76.25	52	10	T5	0.6	5.3	0.05
TW-06	76.25	52	10	T6	0.6	5.3	0.05
TW-09	76.25	52	10	T7	0.9	8.0	0.05
TW-12	76.25	52	10	T8	1.2	10.6	0.05
TW-14	76.25	52	10	T9	1.4	12.4	0.05
TW-20	76.25	52	10	T10	2.0	17.7	0.05
TW-30	76.25	52	10	T15	3.0	26.6	0.05
TW-50	76.25	52	10	T20	5.0	44.3	0.05
TW-60-SB	64.5	80.5	12	P5	6.0	53	0.08
TW-80-SB	64.5	80.5	12	T25/P6	8.0	70.8	0.08
TW-120-SB	64.5	80.5	12	P8	12.0	106.2	0.08



• 長度單位 Unit of Length (mm)

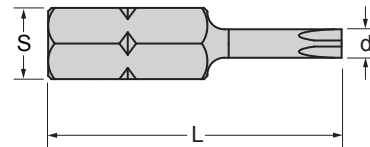


特點 Feature

- DIN 7427 Form D
- 六方驅動 E6.3(1/4") · 符合 DIN3126 · 磁性 · 及內方驅動 D6.3(1/4") 符合 DIN3126

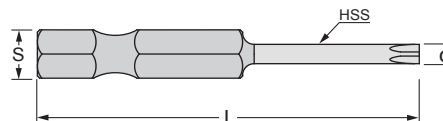
- DIN 7427 Form D.
- Hexagon driver E6.3(1/4"), conforming to DIN3126 standard, magnetic; Square drive D6.3(1/4"), Conforming to DIN3126.

規格 Spec.	L	l ₁	d	S	重量 (KGS) Weight
BIT-1/4"-50L	45	10	10	1/4"	0.02



規格 Spec.	L	d	S	重量 (KGS) Weight
BIT-T5-25L	25	T5	1/4"	0.004
BIT-T6-25L	25	T6	1/4"	0.004
BIT-T7-25L	25	T7	1/4"	0.004
BIT-T8-25L	25	T8	1/4"	0.004
BIT-T9-25L	25	T9	1/4"	0.004
BIT-T10-25L	25	T10	1/4"	0.004
BIT-T15-25L	25	T15	1/4"	0.004
BIT-T20-25L	25	T20	1/4"	0.004

規格 Spec.	L	d	S	重量 (KGS) Weight
BIT-T5-50L	50	T5	1/4"	0.01
BIT-T6-50L	50	T6	1/4"	0.01
BIT-T7-50L	50	T7	1/4"	0.01
BIT-T8-50L	50	T8	1/4"	0.01
BIT-T9-50L	50	T9	1/4"	0.01
BIT-T10-50L	50	T10	1/4"	0.01
BIT-T15-50L	50	T15	1/4"	0.01
BIT-T20-50L	50	T20	1/4"	0.01



規格 Spec.	L	d	S	重量 (KGS) Weight
BIT-T5-55L-HSS	55	T5	1/4"	0.01
BIT-T6-55L-HSS	55	T6	1/4"	0.01
BIT-T7-55L-HSS	55	T7	1/4"	0.01
BIT-T8-55L-HSS	55	T8	1/4"	0.01
BIT-T9-55L-HSS	55	T9	1/4"	0.01
BIT-T10-56L-HSS	56	T10	1/4"	0.01
BIT-T15-56L-HSS	56	T15	1/4"	0.01
BIT-T20-56L-HSS	56	T20	1/4"	0.01



100mm 起子頭 100mm SCREWDRIVE BITS



KOVIT



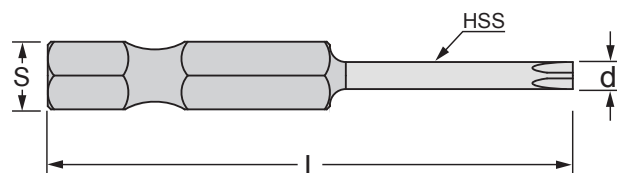
規格 Spec.	L	d	S	重量 (KGS) Weight
BIT-T10-100L	100	T10	1/4"	0.2
BIT-T15-100L	100	T15	1/4"	0.2
BIT-T20-100L	100	T20	1/4"	0.2
BIT-P4-100L	100	P4	1/4"	0.2
BIT-P5-100L	100	P5	1/4"	0.2
BIT-P6-100L	100	P6	1/4"	0.2
BIT-P8-100L	100	P8	1/4"	0.2
BIT-P10-100L	100	P10	1/4"	0.2



HSS 起子頭套裝組 HSS SCREWDRIVE BIT SET



KOVIT



規格 Spec.	內容物 Contents		重量 (KGS) Weight
	起子頭 Bits	數量 Qty	
BIT-HSS-8P-SET	BIT-T5-55L-HSS	1	0.08
	BIT-T6-55L-HSS		
	BIT-T7-55L-HSS		
	BIT-T8-55L-HSS		
	BIT-T9-55L-HSS		
	BIT-T10-56L-HSS		
	BIT-T15-56L-HSS		
	BIT-T20-56L-HSS		

•長度單位 Unit of Length (mm)



TW 扭力起子 / 國旗扳手收納架 TW TORQUE SCREWDRIVE / WRENCH STORAGE RACK

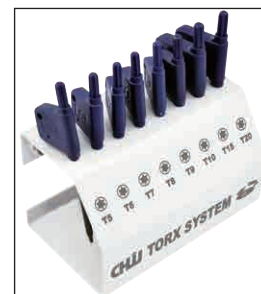
KOVIT

範例 Example



Fig.1

Fig.2



特點 Feature

- 收納方便

- Conveniently storing all the screw drivers.

規格 Spec.	L	W	H	Fig.	重量 (KGS) Weight
TW-SR-225	225	100	89	1	0.56
T-SR-100	100	60	58	2	0.15



TW 扭力起子 / 國旗扳手收納架套裝組 TW TORQUE SCREWDRIVER/WRENCH STORAGE RACK SET

KOVIT



Fig.1



Fig.2

規格 Spec.	內容物 Contents					Fig.	重量 (KGS) Weight
	收納架 Storage Rack	扭力起子 Torque	延長接桿 Bits Holder	起子頭 Bits Torx	數量 Qty		
TW-SR-225-8P-SET	TW-SR-225	TW-05	BIT-1/4"-50L	BIT-T5-25L	1	1	1.00
		TW-06		BIT-T6-25L			
		TW-09		BIT-T7-25L			
		TW-12		BIT-T8-25L			
		TW-14		BIT-T9-25L			
		TW-20		BIT-T10-25L			
		TW-30		BIT-T15-25L			
		TW-50		BIT-T20-25L			

規格 Spec.	內容物 Contents			Fig.	重量 (KGS) Weight
	收納架 Storage Rack	國旗扳手 Wrench	數量 Qty.		
T-SR-100-SET	T-SR-100	T5	1	2	0.3
		T6			
		T7			
		T8			
		T9			
		T10			
		T15			
T20					



規格 Spec.	内容物 Contents			重量 (KGS) Weight
	扳手 Wrench	扭力值 Torque (N.m)	數量 Qty	
TORX 8P-SET	T5K	0.6	1	0.82
	T6K	0.6		
	T7K	0.9		
	T8K	1.2		
	T9K	1.4		
	T10K	2.0		
	T15K	3.0		
	T20K	5.0		