勤堃機械股份有限公司
EVERMORE MACHINE CO.,LTD.

企業簡介 Introduction

從1979年創立以來，致力於專業生產Keyless Drill CHUCK，也就是高精度自緊式鎖夾頭，並創立了"EVERMORE"和"GOLDEN GOOSE"這兩個品牌。無論在品質維護、技術研發、產能穩定等各方面，多年來始終維持不斷精進的脚步；1992年，成立VDI部門，生產各種車銑復合車床VDI動力刀座和固定刀座；2002年，延續勤堃成功的經驗，開始生產CNC刀杆，精鏜粗鏜刀桿,HSK刀桿等精密機械配件以及高效能切削刀具，成爲衆多機械知名大廠重要的供應商，獲得國內外客户高度信賴。

EVERMORE MACHINE CO.,LTD.

Established in 1979 specializing in the manufacture of Keyless Drill Chucks under the brand names Evermore and Golden Goose. The company is always pushing ahead and improving business operations, product quality, developing new technology, and stabilizing production capacity. In 1992 the company set up its VDI department producing VDI turning/milling tool holders, and in 2002 successfully began producing CNC chucks, Boring tooling system, tool holders and other precision machine accessories and high efficient cutting tool serious Evermore is a trusted supplier to big names in the machine tool industry around the world.











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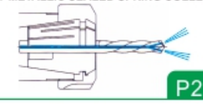
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NBJ 小徑精鏜頭 P8
加工範圍 Ø6–55
NBJ reduced diameter fine boring head
machining range Ø6–55



鏜刀延長杆 P21
Extension bar
for boring holders



ECK通用鏜刀刀柄 P144 P170 P184 P193 P203
ECK standard boring holders

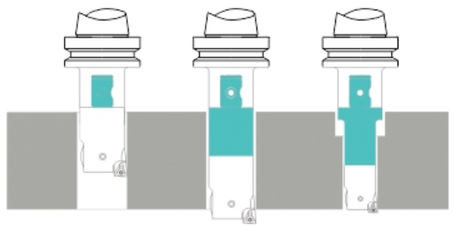


鏜刀減徑杆 P21
Reduction bar
for boring holders

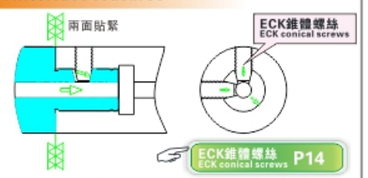


EBOR極細微調精鏜頭 P17
加工範圍 Ø6–150
EBOR Micro-adjustable fine boring head
machining range Ø6–150

標準 延長 防止干涉



ECK接口特點
ECK interface features



通過兩顆錐頭螺絲產生軸向和徑向强力緊固力，使軸向和徑向定位，鏜頭端面與本體緊密貼緊，抗剪切能力强，完全勝任粗加工需求。
By using two tapered screws,it generates strong clamping power from both axial and radial directions.It is possible to complete axial and radial positioning.The boring head surface is firmly in contact with main body so that it is highly shear-resistant and can meet the requirements of rough machining operations.



CTB粗鏜頭 P2
CC型刀片
加工範圍Ø25–150
CTB rough boring head
CC type inserts
machining range ø25–150

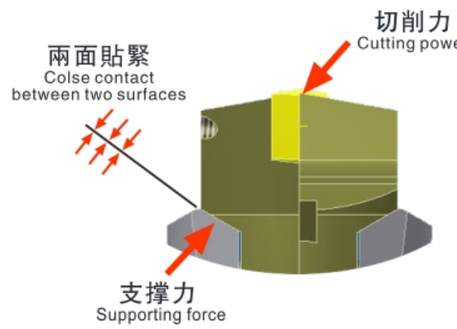


FBN精鏜頭 P5
TP型刀片
加工範圍Ø25–200
FBN fine boring head
TP type inserts
machining range ø25–200

高剛性
High Rigidity

加工範圍 Ø22–150
Machining range

▶專利刀片座，刀片座所受切削力與本體支撐力成一條直線，使刀片座受力時與本體兩片貼緊，刀片座受力變形小，剛性增強。
This insert holder is patented. The cutting power for the holder and the supporting on the main body are aligned in a line. The insert holder is contact tightly with the main body during processing. Therefore, it minimizes deformation during machining and strengthen its rigidity.



調節螺絲，方便調整
Designed with adjustment screw,it is easy to adjust.



ECK模塊化接口，可與所有ECK鏜刀刀柄配合。
ECK modular interface provides the possibity of assembling with various type of ECK boring holders.

清晰刻線，方便觀察
Clear graduation
Convenient for observation





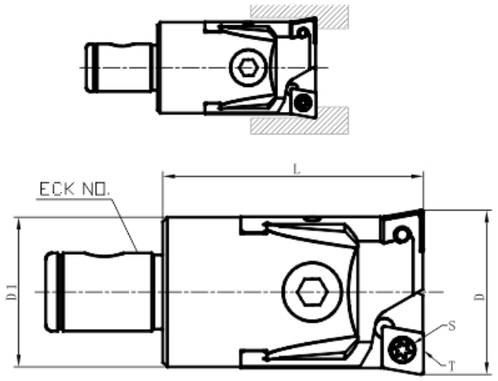
中心出水槽，直接冷卻刀尖
Internal coolant allows direct cooling on the tip of tools.

CTB 粗鏜頭(標準型)
CTB ROUGH BORING HEAD (STANDARD TYPE)

Evermore®

專利產品
Patented products





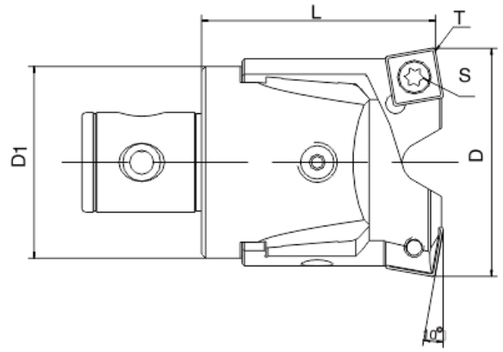
訂貨型號 Order Code	ECK No .	⌀D1	L	加工直徑 ⌀D	刀片 T Insert type	刀片鎖緊螺釘 S Insert clamping screw
CTB22-28	0	21	40	22–28	CC□□0602	CSTB-2.5
CTB27-35	1	23	40	27–35	CC□□0602	CSTB-2.5
CTB34-44	2	29	45	34–44	CC□□09T3	CSTB-4
CTB43-55	3	37	55	43–55	CC□□1204	CSTB-5
CTB54-76	4	48	60	54–76	CC□□1204	CSTB-5
CTB75-105	5	60	75	75–105	CC□□1204	CSTB-5
CTB104-150	6	80	90	104–150	CC□□1204	CSTB-5

型號 Type	刀片座 insert holder	調節螺絲 Adjusting screw	調節扳手 Adjusting wrench	鎖緊螺絲 Tightening screw	鎖緊扳手 Tightening wrench	刀片螺釘扳手 Insert screw wrench
CTB22–28	CTB22–28HK	TM3–7L	1.5mm	CTBSM5T	4mm	T8
CTB27–35	CTB27–35HK	TM3–8L	1.5mm	CTBSM5	4mm	T8
CTB34–44	CTB34–44HK	TM4–10L	2mm	CTBSM6	5mm	T15
CTB43–55	CTB43–55HK	TM5–12L	2.5mm	CTBSM8	6mm	T20
CTB54–76	CTB54–76HK	TM6–16L	3mm	CTBSM10	8mm	T20
CTB75–105	CTB75–105HK	TM8–20L	4mm	CTBSM12	10mm	T20
CTB104–150	CTB104–150HK	TM8–27L	4mm	CTBSM16	14mm	T20

CTB 粗鏜頭(通孔型)
CTB ROUGH BORING HEAD (THROUGH HOLE TYPE)

Evermore®

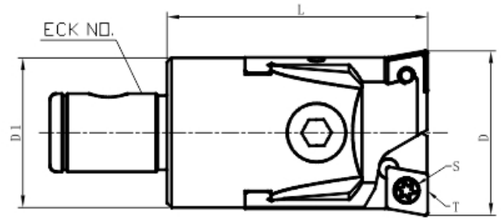




訂貨型號 Order Code	ECK No .	⌀D1	L	加工直徑 ⌀D	刀片 T Insert type	刀片鎖緊螺釘 S Insert clamping screw
CTB22-28A	0	21	38	22–28	SC□□0702	CSTB-2.5
CTB27-35A	1	23	38	27–35	SC□□0702	CSTB-2.5
CTB34-44A	2	29	43	34–44	SC□□09T3	CSTB-4
CTB43-55A	3	37	53	43–55	SC□□1204	CSTB-5
CTB54-76A	4	48	58	54–76	SC□□1204	CSTB-5
CTB75-105A	5	60	73	75–105	SC□□1204	CSTB-5
CTB104-150A	6	80	88	104–150	SC□□1204	CSTB-5

CTB 粗鏜頭(段差型)
CTB ROUGH BORING HEAD (2-STEPPED TYPE)





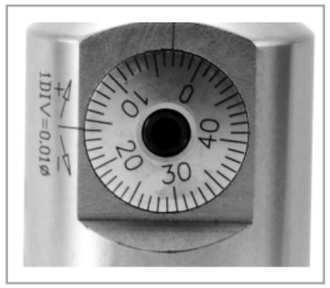
訂貨型號 Order Code	ECK No .	⌀D1	L	加工直徑 ⌀D	刀片 T Insert type	刀片鎖緊螺釘 S Insert clamping screw
CTB22-28S	0	21	40	22–28	CC□□0602	CSTB-2.5
CTB27-35S	1	23	40	27–35	CC□□0602	CSTB-2.5
CTB34-44S	2	29	45	34–44	CC□□09T3	CSTB-4
CTB43-55S	3	37	55	43–55	CC□□1204	CSTB-5
CTB54-76S	4	48	60	54–76	CC□□1204	CSTB-5
CTB75-105S	5	60	75	75–105	CC□□1204	CSTB-5
CTB104-150S	6	80	90	104–150	CC□□1204	CSTB-5

V MAX
1000 m/min

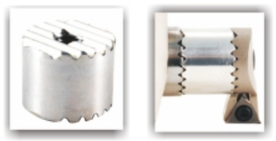
加工範圍 Machining range Ø25–200

刻度盤最小調節精度0.01mm/Ø
The smallest graduation on the graduation disk is0.01mm/





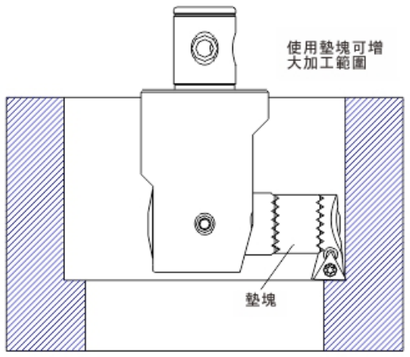
ECK模塊化接口，可配合所有ECK接口鏜刀刀柄。
ECK modular interface,it can be used for various type of boring holders with ECK modular connection.



更換墊塊可增大加工範圍
The machining range can be enlarged by replacing shims.

高精度、高強度、使用方便
High precision,High strength, easy operation

★標準品不含墊片，如有需要請另外訂購。
The standard model does not include shims,please order them additionally if necessary.



▼模塊化設計，可根據具體的加工內容（粗鏜、精鏜；孔的直徑、深度、形狀；工件材料等）進行自由組合，可使用延長杆增加長度，或使用減徑桿減小加工直徑，也可通過更換墊片增大加工範圍。這樣不但大大地減少了刀柄的數量，降低了成本，也可以迅速對應各種加工要求。既保持了剛性，又可以防止干涉，並延長刀具整體的壽命。

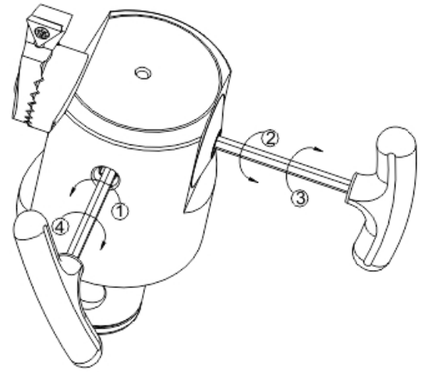
The modular interface design can carry out free combinations according to machining contents of work pieces, such as rough boring, fine boring, bore diameters, depth, configuration and materials. One can use extension holders to extend the length or use small diameter holders for machining workpiece with small diameters. You can enlarge the machining range by replacing shim. Therefore, it significantly reduces the number of the boring holders required and also lowers production costs. Meanwhile, it can cope with various machining requirements. In addition, it keeps rigidity and minimizesinterfrence and tool life can be extended.

▼對應高速加工，設計時考慮了旋轉產生的離心力和鏜頭本身的平衡性進行平衡設計，最大切削速度可達1000m/min。
In order to cope with high speed machining,the design has taken the following into consideration,the centrifugal forces when the spindle is revolving and the balancing ability of the boring head. Therefore,the maximum cutting speed can be up to 1000m/min.

調整方法
Adjustment instruction

1. 逆時針鬆開鎖緊螺絲。
2.逆時針轉動刻度盤，調至略小於要加工的直徑。
3.順時針轉動刻度盤，調至所加工直徑。1小格=0.01mm，（由大往小調整時先調至比加工尺寸略小，再回調至所需尺寸。）
4.順時針鎖緊緊固螺絲。

1.Loosen the set screw by rotating counterclockwise.
2.Turn the graduation disc counterclockwise until it reaches the diameter slightly larger than what is required for machining.
3.Turn the graduation disk clockwise until it reaches the diameter you require.one graduation=0.01mm.
4.Tighten the set screw clockwise.



對應反鏜加工
Counter-boring machining



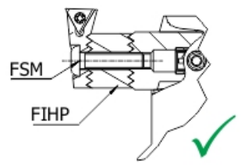
▼新型 FBN精鏜頭只需將刀片座反裝即可用於反鏜加工，避免了加工背面孔時要將工件進行反裝，從而保證了前後孔的同軸度。既保證了加工精度，又能提高生產效率。

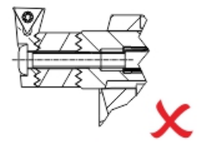
The new FBN boring hedas can be used for counter-boring.All you need to do is mount the insert base in opposite direction.This avoids the need to mount the work pieces in the opposite direction.When one has to machine the bores on the reverse side thus assuring the co-axis accuracy between bores on the front and the back.Meanwhile,it upgrades the machining accuracy and production efficiency as well.

⚠注意 CAUTION
鎖緊螺絲鎖緊時請勿轉動刻度盤，以免損壞鏜頭。
In order to avoid damaging the boring head disk,please do not turn the graduation disc when tightening the set screw.

⚠注意事項 CAUTION
▼請按表使用刀片座鎖緊螺絲(FSM)和墊片(FIHP)以免損壞鏜頭，墊片只能單片使用，不能疊加，不能使用比表推薦更厚的墊片，以免影響鏜頭剛性和損壞鏜頭。
▼在裝上主軸時請確認刀尖朝向是否和退刀方向相反。
▼鏜頭最大切削速度與實際刀柄伸出長度、機床及工件的剛性、材料等條件有關，請在容許範圍內選擇最佳切削參數。

▲Please use the setting screws(FSM) and shims(FIHP) according to the following table,in order to avoid damaging the boring head.Only a single shim can be used at one time.It is forbidden to stack up several shims at one time.Do not use shims which are thicker than the table recommends,this is to avoid damaging the boring head and affect the machining accuracy.
▲When putting it into the spindle,please make sure that the cutter tip is in the opposite direction of the tool dismantling.
▲Please choose the optimal cutting parameters within the allowable range according to the following conditions,such as maximum cutting speed of the boring head,the actual extended length of shank,the rigidity of the machine and workpieces,materials and so on.





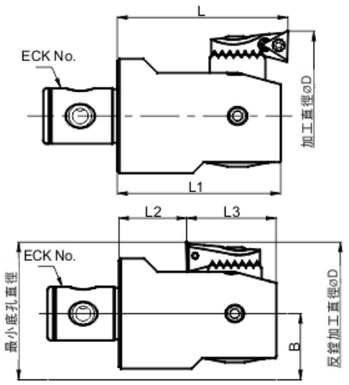
▼FSM螺絲太長導致與調節絲桿干涉
If the FSM screw is too long, it will interfere with adjusting screw.

FBN 精鏜頭
TYPE FBN FINE BORING HEAD





更換墊塊可增大加工範圍
The machining range can be enlarged by replacing shims.



最小底孔直徑＝B＋（反鏜加工直徑/2）
Min. diameter for bottom hole　Counter-boring diameter

訂貨型號 Order Code	ECK No.	刀片座 Insert base	墊片 Shim	刀片座鎖緊螺絲 Locking screw for insert base	正鏜 Boring			反鏜 Counter-boring				重量 Kg	鎖緊力矩 Tightening torque
					加工範圍 ØD	L	L1	加工範圍 ØD	L2	L3	B		
FBN22-28ECK0	0	FIH0	——	FSM405	22-28	42	38	26-28	12	27	11	0.1	10kgf/cm
			FIH0P2	FSM407	26-32			26-31					
			FIH0P4	FSM409	30-36			30-35					
FBN27-35ECK1	1	FIH1	——	FSM406	27-35	42	38	30-35	12	27	12	0.12	15kgf/cm
			FIH1P3	FSM409	34-42			34-42					
			FIH1P6	FSM412	40-47			39-47					
FBN34-44ECK2	2	FIH2	——	FSM406	34-44	46	43	36-44	18	25	15	0.22	
			FIH2P4	FSM410	42-55			42-52					
			FIH2P8	FSM416	50-60			50-60					
FBN43-55ECK3	3	FIH3	——	FSM508	43-55	55	53	45-55	22.5	30.5	19	0.44	25kgf/cm
			FIH3P5	FSM512	53-66			53-66					
			FIH3P10	FSM517	63-76			63-76					
FBN54-76ECK4	4	FIH4	——	FSM608	54-76	60	55	57-76	24.5	38	24.5	0.8	60kgf/cm
			FIH4P6	FSM614	66-88			66-88					
			FIH4P12	FSM620	78-100			78-100					
FBN75-105ECK5	5	FIH5	——	FSM810	75-105	75	70	75-105	24.5	44.5	30.5	1.7	100kgf/cm
			FIH5P13	FSM825	101-131			101-131					
			FIH5P25	FSM835	125-155			125-155					
FBN104-150ECK6	6	FIH5	——	FSM810	104-150	90	85	104-150	39.5	45.5	40.5	3.5	
			FIH5P13	FSM825	130-176			130-176					
			FIH5P25	FSM835	154-200			154-200					

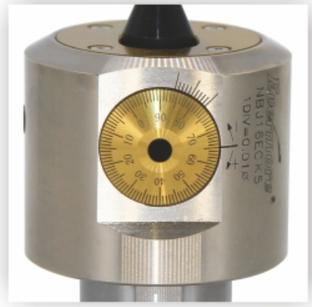
型號 Type	鎖緊螺絲 Locking screw	鎖緊螺絲扳手 Wrench for locking screw	刀片螺絲 insert screw	刀片螺絲扳手 Wrench for insert screw	刀片 Insert
FBN22-28ECK0	FLS505	2.5	CSTB2	T6	TP□□0802
FBN27-35ECK1	FLS506				
FBN34-44ECK2	FLS508				
FBN43-55ECK3	FLS610	3	CSTB2.5	T8	TC□□1102 TP□□0902
FBN54-76ECK4	FLS812	4			
FBN75-105ECK5	FLS1015	5			
FBN104-150ECK6					

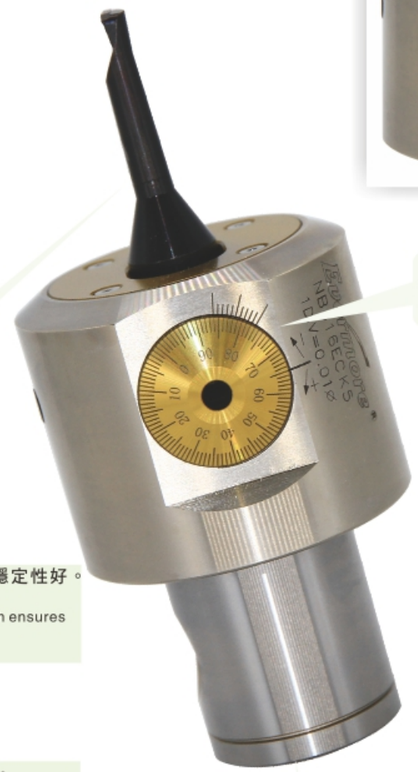
▲FBN43-55ECK3以上有兩種刀片座可選擇，訂購時請註明！ 訂貨說明 :FBN43-55ECK3TP09　使用TP□□0902刀片。
FBN43-55ECK3TC11　使用TC□□1102刀片。

NBJ 小徑精鏜系列
NBJ REDUCTION BORING HEAD SERIES

Ø6-52小孔解決方案
組合方便、經濟、快捷
6-52 small hole solutions
easy assembly, economy, faster







刻度盤最小刻度每小格0.01mm
The smallest graduation 0.01mm

多種刀桿可選擇，
組合方便。
A wide choice of the shank,easy assembly



▲ 標準合金鋼刀桿，L/D小於4倍孔加工穩定性好。
加工範圍Ø6-55
Standard alloy steel shank,L/D<4 times,which ensures the machining stability
Processing range Ø6-55



▲ 加長合金鋼刀桿，L/D小於5倍孔加工。
加工範圍Ø6-55
Extention type alloy steel shank,L/D<5 times
Processing range Ø6-55



▲ 鎢鋼刀桿用於深孔加工，最深可達L/D等於10倍，刀頭為可換式，可根據孔徑隨意更換，經濟性好。
加工範圍Ø6-55
The tungsten carbide steel shank is used for machining deep holes,Max.L/D=10.The cutter is interchangeable which allows replacement according to bore diameters,therefore,it is economical.
Processing range Ø6-55

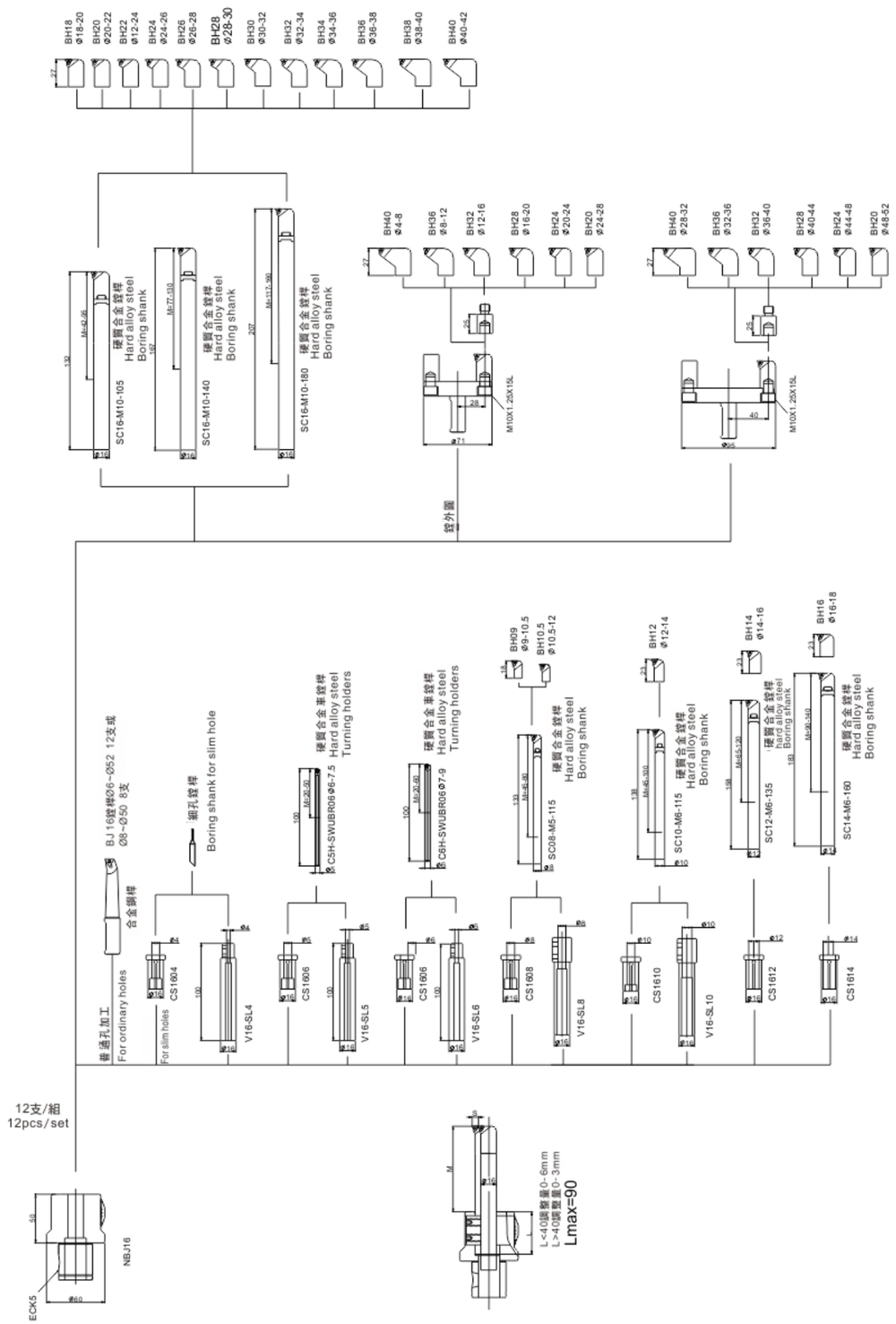
ECK5模塊化接口，可配合所有ECK5接口的鏜刀刀柄。
ECK5 modular interface,it is suitable for all types of shanks that have ECK5 block connections.

最大調整量6mm
Max. Adjustment 6mm



NBJ16 小徑精鏜系列
NBJ16 REDUCTION BORING HEAD SERIES

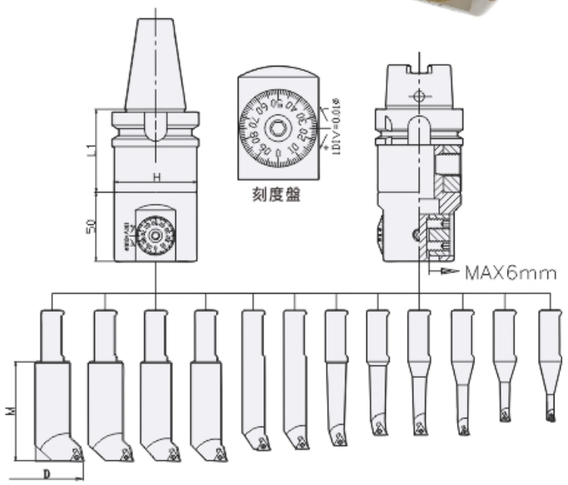
Evermore®



NBJ16 微調精鏜組合(套裝)
NBJ16 MICRO ADJUSTABLE FINE BORING HEAD COMBINATION (TOOL KIT)

Evermore®







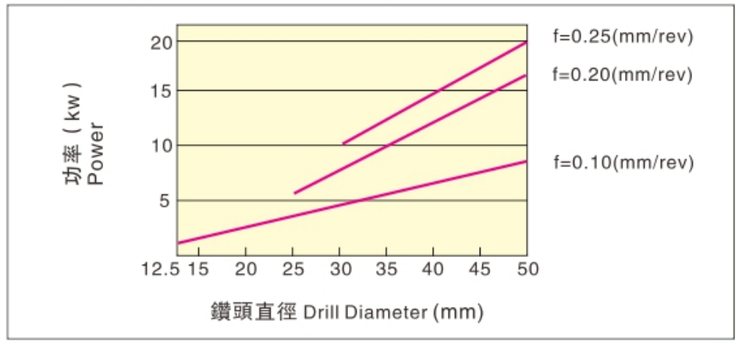
訂貨型號 Order Code		鏜孔範圍 Boring range ØD	刀柄型號 shank model	L1	H
8支/組 (標準) 8pcs/set (standard)	BT30–NBJ16–8P	8–50	BT30–ECK5–65	65	60
	BT40–NBJ16–8P		BT40–ECK5–60	60	
	BT50–NBJ16–8P		BT50–ECK5–75	75	
	SK40–NBJ16–8P		SK40–ECK5–65	65	
	SK50–NBJ16–8P		SK50–ECK5–75	75	
	DIN2080–40–NBJ16–8P		DIN2080–40–ECK5–60	60	
	DIN2080–50–NBJ16–8P		DIN2080–50–ECK5–75	75	
	HSK–A63–NBJ16–8P		HSK–A63–ECK5–75	75	
	HSK–A100–NBJ16–8P		HSK–A100–ECK5–75	75	
12支/組 (標準) 12pcs/set (standard)	BT30–NBJ16–12P	6–55	BT30–ECK5–65	65	60
	BT40–NBJ16–12P		BT40–ECK5–60	60	
	BT50–NBJ16–12P		BT50–ECK5–75	75	
	SK40–NBJ16–12P		SK40–ECK5–65	65	
	SK50–NBJ16–12P		SK50–ECK5–75	75	
	DIN2080–40–NBJ16–12P		DIN2080–40–ECK5–60	60	
	DIN2080–50–NBJ16–12P		DIN2080–50–ECK5–75	75	
	HSK–A63–NBJ16–12P		HSK–A63–ECK5–75	75	
	HSK–A100–NBJ16–12P		HSK–A100–ECK5–75	75	

▲以上規格為整套組合，也可單獨訂購刀柄及刀桿，請在訂購時註明具體規格！
The above specification is a tool kit, a single order for heads or shanks is also available, please specify the details when ordering.

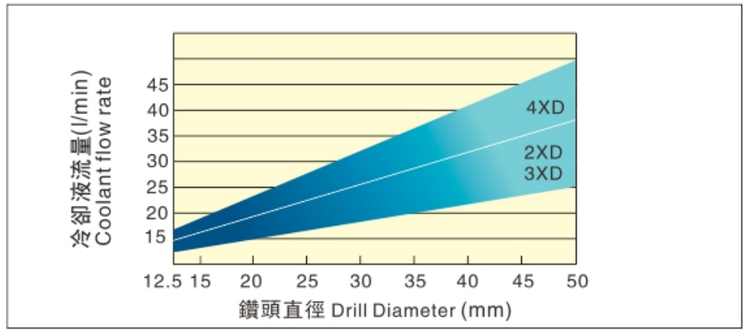
冷卻供給Coolant Supply

1. 壓力過低將導致震動並縮短刀具壽命
   Low pressure can cause vibration and reduced tool life.
2. 2D和3D鑽頭建議至少保證冷卻壓4kg/cm², 4D的不少於5kg/cm²
   The recommended minimum presure is 4kg/cm² for 2XD and 3XD Drill and for the 4XD drill the minimum presure recommended is 5kg/cm²

淨耗功率 Net Power Consumption



冷卻液流量 Coolant Volume



孔公差Hole tolerance

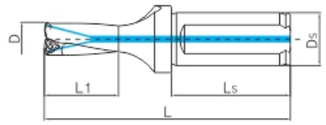
鑽削深度Depth of Drilling	孔公差Hole tolerance(mm)
2XD	+0.2~-0.1
3XD	+0.25~-0.1
4XD	+0.3~-0.1

鑽深： 2倍直徑
Drilling depth:2Diameter



⚠注意事項 Attentions

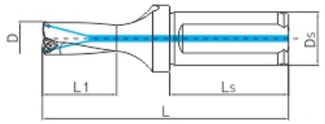
- 盡量使用高壓中心出水，以增加刀片壽命及有利於排屑。
  Try to use high pressure internal coolant in order to increase the cutter life and make it easier for the chip removal.
- 使用在CNC車床時，應盡量使刀具中心點與機床主軸中心平行。
  To be used for CNC turning machines,manage to get paralleled between the cutter center point and the spindle center.
- CNC車床使用如需擴孔，刀片外刃必須和刀塔移動角平行。
  If the CNC turning machine needs to drill a big hole,the outer lips of the cutter must parallel with the turret moving direction.



訂貨型號 Order Code	ØD	L1	L	ØDs	Ls	刀片 Insert	螺釘 Screw	扳手 Wrench
D15-C25-30	15.0	30	110	25	56	WC..030204	CSTB2.5	T8
D15.5-C25-31	15.5	31	111					
D16-C25-32	16.0	32	112					
D16.5-C25-33	16.5	33	113					
D17-C25-34	17.0	34	114					
D17.5-C25-35	17.5	35	115					
D18-C25-36	18.0	36	116					
D18.5-C25-37	18.5	37	117					
D19-C25-38	19.0	38	118					
D19.5-C25-39	19.5	39	119					
D20-C25-40	20.0	40	120					
D20.5-C25-41	20.5	41	121					
D21-C32-42	21.0	42	126	32	60	WC..040204		
D21.5-C32-43	21.5	43	127					
D22-C32-44	22.0	44	128					
D22.5-C32-45	22.5	45	129					
D23-C32-46	23.0	46	130					
D23.5-C32-47	23.5	47	131					
D24-C32-48	24.0	48	132					
D24.5-C32-49	24.5	49	133					
D25-C32-50	25.0	50	134			WC..050308	CSTB3	
D25.5-C32-51	25.5	51	135					
D26-C32-52	26.0	52	136					
D26.5-C32-53	26.5	53	137					
D27-C32-54	27.0	54	138					
D27.5-C32-55	27.5	55	139					
D28-C32-56	28.0	56	140					
D28.5-C32-57	28.5	57	141					
D29-C32-58	29.0	58	142					
D29.5-C32-59	29.5	59	143					
D30-C32-60	30.0	60	144					
D31-C32-62	31.0	62	146			WC..06T308	CSTB3.5	T15
D32-C32-64	32.0	64	148					
D33-C32-66	33.0	66	150					
D34-C32-68	34.0	68	152					
D35-C32-70	35.0	70	154					
D36-C32-72	36.0	72	156					
D37-C32-74	37.0	74	158					
D38-C32-76	38.0	76	160					
D39-C32-78	39.0	78	162					
D40-C32-80	40.0	80	164					
D41-C32-82	41.0	82	166					
D42-C40-84	42.0	84	180	40	70	WC..080408	CSTB4	
D43-C40-86	43.0	86	182					

鑽深：2倍直徑
Drilling depth:2Diameter





訂貨型號 Order Code	ØD	L1	L	ØDs	Ls	刀片 Insert	螺釘 Screw	扳手 Wrench
D44-C40-88	44.0	88	184	40	70	WC..080408	CSTB4	T15
D45-C40-90	45.0	90	186					
D46-C40-92	46.0	92	188					
D47-C40-94	47.0	94	190					
D48-C40-96	48.0	96	192					
D49-C40-98	49.0	98	194					
D50-C40-100	50.0	100	196					
D51-C40-102	51.0	102	198					
D52-C40-104	52.0	104	200					
D53-C40-106	53.0	106	202					
D54-C40-108	54.0	108	204					
D55-C40-110	55.0	110	206					
D56-C40-112	56.0	112	208					
D57-C40-114	57.0	114	210					
D58-C40-116	58.0	116	212					

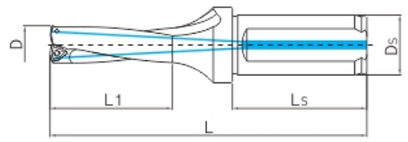
WCT 捨棄式快速鑽頭
WCT HIGH SPEED CUTTING TOOLS
Evermore®
捨棄式快速鑽頭 Cutting Tools

鑽深：3倍直徑
Drilling depth:3Diameter



⚠注意事項 Attentions

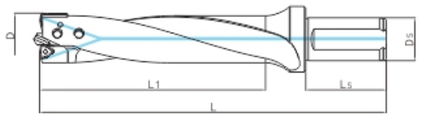
- 盡量使用高壓中心出水，以增加刀片壽命及有利於排屑。
  Try to use high pressure internal coolant in order to increase the cutter life and make it easier for the chip removal.
- 使用在CNC車床時，應盡量使刀具中心點與機床主軸中心平行。
  To be used for CNC turning machines,manage to get paralleled between the cutter center point and the spindle center.
- CNC車床使用如需擴孔，刀片外刃必須和刀塔移動角平行。
  If the CNC turning machine needs to drill a big hole,the outer lips of the cutter must parallel with the turret moving direction.



訂貨型號 Order Code	ØD	L1	L	ØDs	Ls	刀片 Insert	螺釘 Screw	扳手 Wrench
D15-C25-45	15.0	45	125	25	56	WC..030204	CSTB2.5	T8
D15.5-C25-46.5	15.5	46.5	127					
D16-C25-48	16.0	48	128					
D16.5-C25-49.5	16.5	49.5	130					
D17-C25-51	17.0	51	131					
D17.5-C25-52.5	17.5	52.5	133					
D18-C25-54	18.0	54	134					
D18.5-C25-55.5	18.5	55.5	136					
D19-C25-57	19.0	57	137					
D19.5-C25-58.5	19.5	58.5	139					
D20-C25-60	20.0	60	140					
D20.5-C25-61.5	20.5	61.5	142					
D21-C32-63	21.0	63	147	32	60	WC..040204		
D21.5-C32-64.5	21.5	64.5	149					
D22-C32-66	22.0	66	150					
D22.5-C32-67.5	22.5	67.5	152					
D23-C32-69	23.0	69	153					
D23.5-C32-70.5	23.5	70.5	155					
D24-C32-72	24.0	72	156					
D24.5-C32-73.5	24.5	73.5	158					
D25-C32-75	25.0	75	159			WC..050308	CSTB3	
D25.5-C32-76.5	25.5	76.5	161					
D26-C32-78	26.0	78	162					
D26.5-C32-79.5	26.5	79.5	164					
D27-C32-81	27.0	81	165					
D27.5-C32-82.5	27.5	82.5	167					
D28-C32-84	28.0	84	168					
D28.5-C32-85.5	28.5	85.5	170					
D29-C32-87	29.0	87	171					
D29.5-C32-88.5	29.5	88.5	173					
D30-C32-90	30.0	90	174					
D31-C32-93	31.0	93	177			WC..06T308	CSTB3.5	T15
D32-C32-96	32.0	96	180					
D33-C32-99	33.0	99	183					
D34-C32-102	34.0	102	186					
D35-C32-105	35.0	105	189					
D36-C32-108	36.0	108	192					
D37-C32-111	37.0	111	195					
D38-C32-114	38.0	114	198					
D39-C32-117	39.0	117	201					
D40-C32-120	40.0	120	204					

鑽深：3倍直徑
Drilling depth:3Diameter





訂貨型號 Order Code	ØD	L1	L	ØDs	Ls	刀片 Insert	定心鑽 Pilot drill	螺釘 Screw	扳手 Wrench
D41-C40-123	41.0	123	220	40	70	WC..06T308	(韓國技術 KOREA TECHNICS) PLD-V1035 TIN-H	CSTB3.5	T15
D42-C40-126	42.0	126	223						
D43-C40-129	41.0	129	226						
D44-C40-132	42.0	132	229						
D45-C40-135	43.0	135	232						
D46-C40-138	46.0	138	235						
D47-C40-141	47.0	141	238						
D48-C40-144	48.0	144	241						
D49-C40-147	49.0	147	244						
D50-C40-150	50.0	150	247						
D51-C40-153	51.0	153	250			WC..080408	(韓國技術 KOREA TECHNICS) PLD-V1238 TIN-H	CSTB4	
D52-C40-156	52.0	156	253						
D53-C40-159	53.0	159	256						
D54-C40-162	54.0	162	259						
D55-C40-165	55.0	165	262						
D56-C40-168	56.0	168	265						
D57-C40-171	57.0	171	268						
D58-C40-174	58.0	174	271						

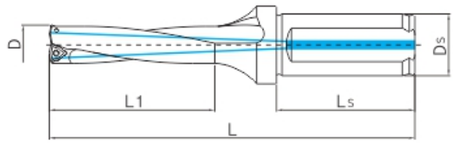
WCT 捨棄式快速鑽頭
WCT HIGH SPEED CUTTING TOOLS
Evermore®
捨棄式快速鑽頭 Cutting Tools

鑽深：4倍直徑
Drilling depth:4Diameter



⚠注意事項 Attentions

- ●盡量使用高壓中心出水，以增加刀片壽命及有利於排屑。
  Try to use high pressure internal coolant in order to increase the cutter life and make it easier for the chip removal.
- ●使用在CNC車床時，應盡量使刀具中心點與機床主軸中心平行。
  To be used for CNC turning machines,manage to get paralleled between the cutter center point and the spindle center.
- ●CNC車床使用如需擴孔，刀片外刃必須和刀塔移動角平行。
  If the CNC turning machine needs to drill a big hole,the outer lips of the cutter must parallel with the turret moving direction.

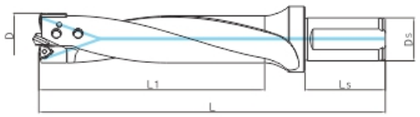


訂貨型號 Order Code	ØD	L1	L	ØDs	Ls	刀片 Insert	螺釘 Screw	扳手 Wrench
D15-C25-60	15.0	60	139	25	56	WC..030204	CSTB2.5	T8
D15.5-C25-62	15.5	62	141					
D16-C25-64	16.0	64	143					
D16.5-C25-66	16.5	66	145					
D17-C25-68	17.0	68	147					
D17.5-C25-70	17.5	70	149					
D18-C25-72	18.0	72	151					
D18.5-C25-74	18.5	74	153					
D19-C25-76	19.0	76	155					
D19.5-C25-78	19.5	78	157					
D20-C25-80	20.0	80	159					
D20.5-C25-82	20.5	82	161					
D21-C32-84	21.0	84	167	32	60	WC..040204		
D21.5-C32-86	21.5	86	169					
D22-C32-88	22.0	88	171					
D22.5-C32-90	22.5	90	173					
D23-C32-92	23.0	92	175					
D23.5-C32-94	23.5	94	177					
D24-C32-96	24.0	96	179					
D24.5-C32-98	24.5	98	181					
D25-C32-100	25.0	100	183			WC..050308	CSTB3	
D25.5-C32-102	25.5	102	185					
D26-C32-104	26.0	104	187					
D26.5-C32-106	26.5	106	189					
D27-C32-108	27.0	108	191					
D27.5-C32-110	27.5	110	193					
D28-C32-112	28.0	112	195					
D28.5-C32-114	28.5	114	197					
D29-C32-116	29.0	116	199					
D29.5-C32-118	29.5	118	201					
D30-C32-120	30.0	120	203					
D31-C32-124	31.0	124	207			WC..06T308	CSTB3.5	T15
D32-C32-128	32.0	128	211					
D33-C32-132	33.0	132	215					
D34-C32-136	34.0	136	219					
D35-C32-140	35.0	140	223					
D36-C32-144	36.0	144	227					
D37-C32-148	37.0	148	231					
D38-C32-152	38.0	152	235					
D39-C32-156	39.0	156	239					
D40-C32-160	40.0	160	243					

鑽深：4倍直徑

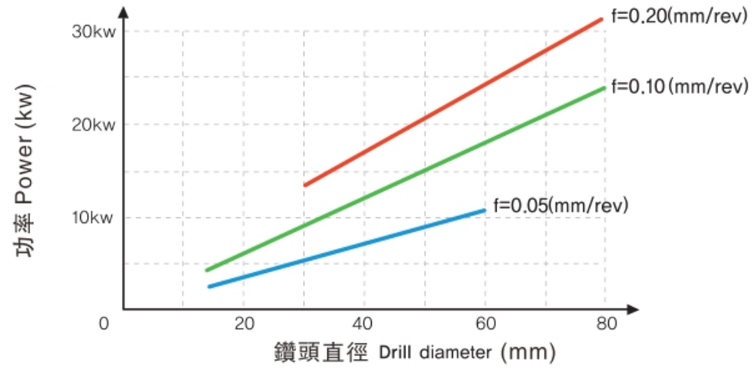
Drilling depth:4Diameter





訂貨型號 Order Code	ØD	L1	L	ØDs	Ls	刀片 Insert	定心鑽 Pilot drill	螺釘 Screw	扳手 Wrench
D41-C40-164	41.0	164	260	40	70	WC..06T308	(韓國技術 KOREA TECHNICS) PLD-V1035 TIN-H	CSTB3.5	T15
D42-C40-168	42.0	168	264						
D43-C40-172	41.0	172	268						
D44-C40-176	42.0	176	272						
D45-C40-180	43.0	180	276						
D46-C40-184	46.0	184	280						
D47-C40-188	47.0	188	284						
D48-C40-192	48.0	192	288						
D49-C40-196	49.0	196	292						
D50-C40-200	50.0	200	296						
D51-C40-204	51.0	204	300			WC..080408	(韓國技術 KOREA TECHNICS) PLD-V1238 TIN-H	CSTB4	
D52-C40-208	52.0	208	304						
D53-C40-212	53.0	212	308						
D54-C40-216	54.0	216	312						
D55-C40-220	55.0	220	316						
D56-C40-224	56.0	224	320						
D57-C40-228	57.0	228	324						
D58-C40-232	58.0	232	328						

功率損耗

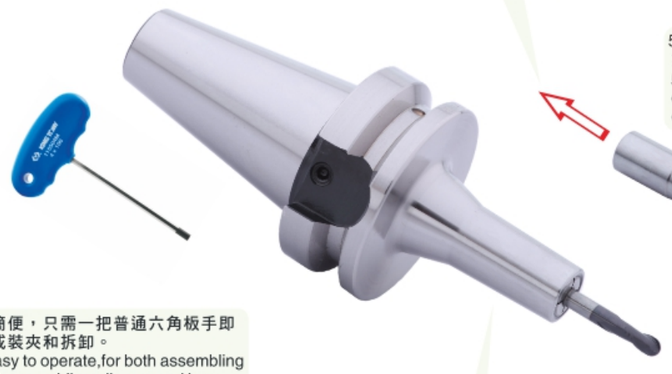


孔公差 Hole Tolerance

鑽頭直徑 Drill Dia	孔公差 Hole Tolerance		
	2XD	3XD	4XD
13~21.5	-0.1~+0.15	-0.1~+0.15	-0.15~+0.2
22~50	-0.1~+0.15	-0.12~+0.2	-0.15~+0.25
50~80	-0.15~+0.2	-0.15~+0.25	-0.15~+0.3

P122, 149, 213

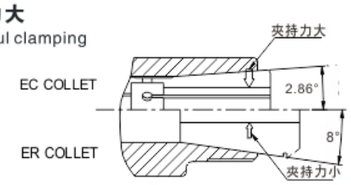
鎖緊方式爲後部直接拉緊，相比傳統使用螺母鎖緊的產品，更適合高轉速加工。
The locking system is directly tightened at the bottom,it is more suitable for the high speed processing than use a nut for locking.



操作簡便，只需一把普通六角板手即可完成裝夾和拆卸。
It is easy to operate,for both assembling and disassembling,all you need is an ordinary hexagonal spanner.

頭部直徑小，能最大程度地避免干涉。
The small head diameter minimizes interference.

夾持力大
Powerful clamping

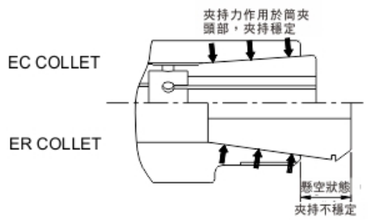


5.72° 錐角設計，夾持力是普通ER筒夾的2倍。
5.72 degree cone angle design ,the clamping power is up to 2 times than ordinary ER collet.

夾持穩定，精度高
Clamping precision is high

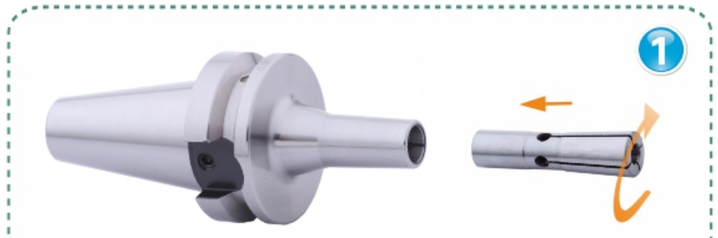
內藏式筒夾設計，夾持力作用於筒夾頭部，夾持穩定、精度高 (0.005mm)。
The built–in collet design,and the clamping action is on the head of collet,both contributing to the stable clamping and high precision clamping(0.005mm).





普通ER筒夾由於前部與螺母結合部分處於懸空狀態，夾持力作用於筒夾後部，夾持不夠穩定。
The clamping action is on the end of a collet,therefore,the clamping is not stable for an ordinary ER collet.This is due to the fact that the head is connected with a nut and the connecting part is suspended.

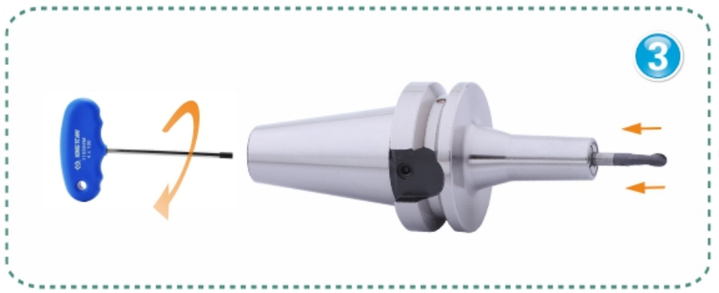
EC筒夾採用後部直接拉緊的鎖緊方式，夾持力作用於筒夾頭部，相比ER筒夾夾持更穩定，夾持精度在0.005mm以內。
The EC collet uses a direct connection at the bottom and the clamping action is on the head of the collet.so clamping is more stable than on traditional ER collets and the accuracy can be maintained within 0.005mm.



▲將筒夾套入刀柄本體，並順時針旋轉，使之與拉緊螺釘旋合。
Put a collet into the shank, rotate clockwise and connected it with a pull screw.

▲將刀具套入筒夾內。
Put the tool into the collet holder.





▲使用六角扳手順時針旋緊拉緊螺釘即可鎖緊刀具。
Turn the screw clockwise with a hexagon wrench,then the cutting tool can be firmly secured.

▲逆時針旋轉拉緊螺釘可頂出刀具，完成拆卸。
Using counter clockwise rotation,one may release the cutting tool,the disassembly is finished.



P124, 150, 174, 185, 212

標準動平衡 Standard balance 16000rpm/G6.3

最高動平衡 Optional balance 24000rpm/G2.5

特點 FEATURES

▲實現高精度、高效率、高穩定性的產品加工。
Enhance production capability with high precision,high efficiency and better stability.

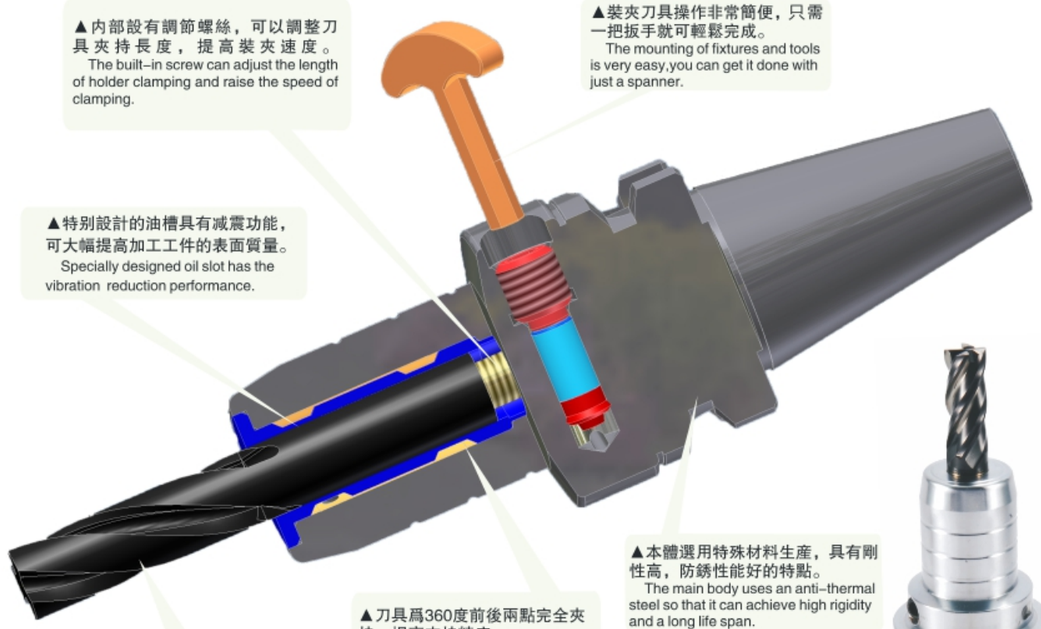
▲利用液壓油使刀柄內徑收縮，並保證高精度夾持。
Use hydraulic oil to shrink holder's inner diameter to ensure high precision clamping.

▲相對於燒結式刀柄，油壓刀柄不需要昂貴的加熱設備就能達到同樣的夾持力及精度，並且操作非常簡便。
Compare with sintered holder ,hydraulic holder does not use an expensive heater and also can achieve the same clamping force and precision.The operation is very easy.

▲適合用於立銑刀、硬質合金鑽頭及金剛石鉸刀的高精度加工。
It can be used in the high precision processes for end milling cutters,cemented carbide drills and diamond reamers.

▲內部設有調節螺絲，可以調整刀具夾持長度，提高裝夾速度。
The built–in screw can adjust the length of holder clamping and raise the speed of clamping.

▲裝夾刀具操作非常簡便，只需一把扳手就可輕鬆完成。
The mounting of fixtures and tools is very easy,you can get it done with just a spanner.



▲特別設計的油槽具有減震功能，可大幅提高加工工件的表面質量。
Specially designed oil slot has the vibration reduction performance.

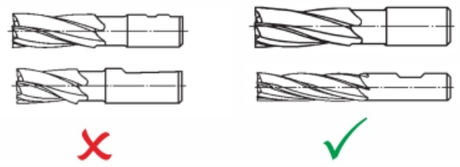
▲本體選用特殊材料生產，具有剛性高，防銹性能好的特點。
The main body uses an anti–thermal steel so that it can achieve high rigidity and a long life span.

▲刀具爲360度前後兩點完全夾持，提高夾持精度。
The tool is completely clamped by a whole circumference at two points so that it can improve the clamping accuracy.

▲刀具夾持跳動在0.003mm以內，重復定位精度高，可減少刀具磨耗，降低刀具費用。
The accuracy of the tool clamping is within 0.003mm,repeatable positioning accuracy is superb,therefore,it reduces tool wear and minimizes tooling costs.

⚠ 注意 CAUTION

▲裝入的刀具應保證無缺陷，無削扁槽，柄部公差在h6以內。
Make sure that the built–in tool is in perfect condition,without a flat slots and the tolerance of the tool within h6.



P126, 152

操作簡便、安全可靠、使用壽命長。
Simple operation,Safe and reliable,Long life span.

剛性絲攻筒夾
RIGIDITY TAP COLLET

扭力絲攻筒夾
TORSION TAP COLLET

加長型扭力絲攻筒夾
EXTENDED TORSION TAP COLLET



夾緊塊
Clamp holder



◀帶有扭力機構，保護絲錐，提高絲錐的使用壽命。
With the torsion mechanism,it can protect taps and improve the life time of a tap.



◀在普通型的基礎上增加了頭部長度，有效的減小干涉。
Base on ordinary use, it increase the length of the head,and minimizes interference efficiently.



▲調節螺絲，用於調節絲攻筒夾切入時的壓力，產品出廠時已調整好。
Put the tap collet into the holder,adjust screws for the desired pressure.The pressure has been pre–fixed on the production line.

▼整套組合 TOOL PACKAGE



快速裝夾 快速更換
QUICK ASSEMBLY QUICK CHANGE



鏜刀桿規格（標準型）
Boring shank specifications(standard type)

鏜刀桿規格 Boring shank spec.	鏜孔範圍 Boring range ØD	深度 Depth M	刀片規格 Insert type	刀片螺絲 Insert Screw	扳手 Wrench	切入量 Cutting volume ap	進給量 Feed F
BJ1606-20	6-9	20	WBGT060102L	CSTB-2	T6	0.05-0.2	0.05-0.1
BJ1608-28※	8-11	28	TBGT060102L			0.05-0.2	0.05-0.1
BJ1610-36※	10-13	36	TBGT060104L			0.1-0.25	0.07-0.15
BJ1612-42※	12-17	42	TPGT090202L	CSTB-2.5	T8	0.05-0.2	0.05-0.1
BJ1614-50	14-19	50					
BJ1616-60※	16-21	60					
BJ1620-63※	20-26	63					
BJ1624-64※	24-31	64	TPGT090204L			0.1-0.25	0.07-0.15
BJ1630-72※	30-40	72					
BJ1635-72	35-45	72					
BJ1640-72※	40-50	72					
BJ1645-72	45-55	72					

鏜刀桿規格（加長型）
Boring shank specifications(extension type)

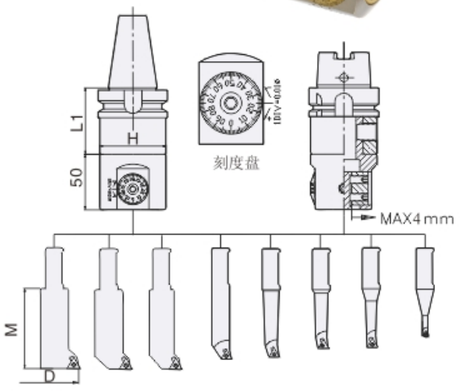
鏜刀桿規格 Boring shank spec.	鏜孔範圍 Boring range ØD	深度 Depth M	刀片規格 Insert type	刀片螺絲 Insert Screw	扳手 Wrench	切入量 Cutting volume ap	進給量 Feed F
BJ1606-24L	6-9	24	WBGT060102L	CSTB-2	T6	0.05-0.2	0.05-0.1
BJ1608-32L※	8-11	32	TBGT060102L			0.05-0.2	0.05-0.1
BJ1610-40L※	10-13	40	TBGT060104L			0.1-0.25	0.07-0.15
BJ1612-53L※	12-17	53	TPGT090202L	CSTB-2.5	T8	0.05-0.2	0.05-0.1
BJ1614-60L	14-19	60					
BJ1616-68L※	16-21	68					
BJ1620-83L※	20-26	83					
BJ1624-90L※	24-31	90	TPGT090204L			0.1-0.25	0.07-0.15
BJ1630-90L※	30-40	90					
BJ1635-90L	35-45	90					
BJ1640-90L※	40-50	90					
BJ1645-90L	45-55	90					

★鏜刀桿規格帶※的為標準8支組合。
★以上規格為整套組合，也可單獨訂購刀柄及刀桿，請在訂購時註明具體規格。
★鏜刀桿材質有高速鋼和合金鋼可供選擇。

★Boring shanks with mark "※" are a standard package. (8 pieces in a set)
★The above specification is a tool kit, a single order for heads or shanks is also available. Please specify the details when ordering.
★The boring shank material are available in high speed steel and alloy steel.

NBJ12 微調精鏜組合(套裝)
NBJ12 MICRO ADJUSTABLE FINE BORING HEAD COMBINATION(TOOL KIT)







訂貨型號 Order Code		鏜孔範圍 Boring range ØD	刀柄型號 shank model	L1	H
8支/組 (標準) 8pcs/set (standard)	BT30-NBJ12-8P	6-24	BT30-ECK4-45	45	48
	BT40-NBJ12-8P		BT40-ECK4-60	60	
	BT50-NBJ12-8P		BT50-ECK4-75	75	
	SK40-NBJ12-8P		SK40-ECK4-65	65	
	SK50-NBJ12-8P		SK50-ECK4-75	75	
	DIN2080-40-NBJ12-8P		DIN2080-40-ECK4-60	60	
	DIN2080-50-NBJ12-8P		DIN2080-50-ECK4-75	75	
	HSK-A63-NBJ12-8P		HSK-A63-ECK4-75	75	

▲以上規格為整套組合，也可單獨訂購刀柄及刀桿，請在訂購時註明具體規格！
The above specification is a tool kit a single order for heads or shanks is also available, please specify the defails when pidering.

鏜刀桿規格（標準型）
Boring shank specifications(standard type)

鏜刀桿規格 Boring shank spec.	鏜孔範圍 Boring range ØD	深度 Depth M	刀片規格 Insert type	刀片螺絲 Insert Screw	扳手 Wrench	切入量 Cutting volume ap	進給量 Feed F
BJ1206-24	6-10	24	WBGT060104	CSTB-2	T6	0.05-0.2	0.05-0.1
BJ1208-32	8-12	32	TBGT060104			0.05-0.2	0.05-0.1
BJ1210-40	10-14	40				0.1-0.25	0.07-0.15
BJ1212-45	12-16	45	TBGT090204	CSTB-2.5	T8	0.05-0.2	0.05-0.1
BJ1214-45	14-18	45					
BJ1216-45	16-20	45					
BJ1218-45	18-22	45					
BJ1220-45	20-24	45					

★以上規格為整套組合，也可單獨訂購刀柄及刀桿，請在訂購時註明具體規格。
★鏜刀桿材質有高速鋼和合金鋼可供選擇。

★The above specification is a tool kit, a single order for heads or shanks is also available. Please specify the details when ordering.
★The boring shank material are available in high speed steel and alloy steel.

絲錐安裝方法
Installation method of tap

❶將絲攻筒夾前端的夾緊塊壓入。
Press clamp holder which locates on the front of tap collets.

→

❷將絲錐插入筒夾的方孔內。
Insert tap into the square hole of the collet.

→

❸鬆開夾緊塊，絲錐即被鎖定。
Release the clamp holder, and the tap is locked.

絲攻筒夾安裝方法
Installation method of tap collet

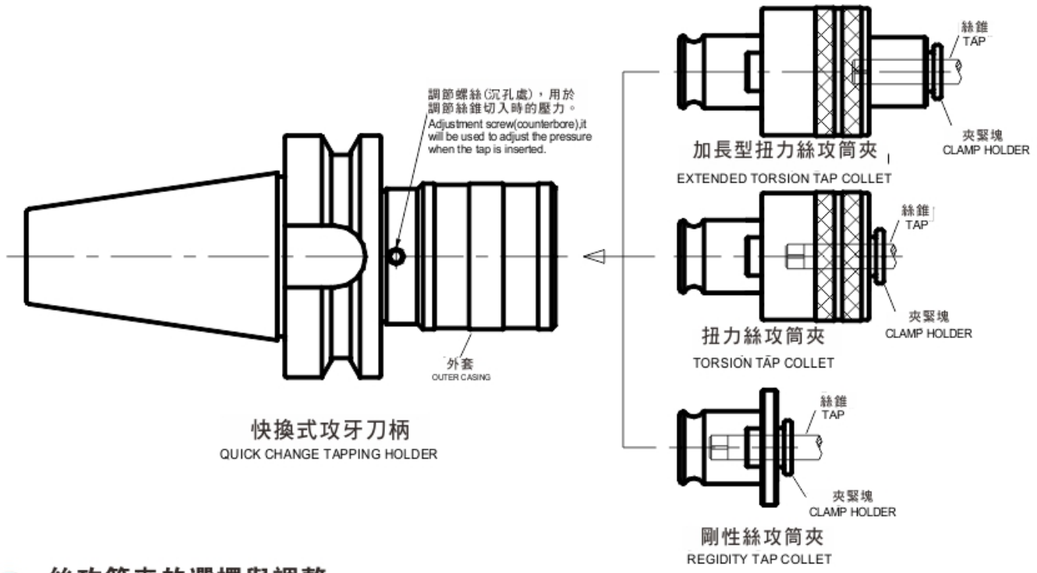
❶將刀柄前端外套壓入。
Press outer casing of the holder.

→

❷將絲攻筒夾插入刀柄內(傳動鍵對準凹槽）。
Insert tap collet into holder.(driving key to be aligned to the grove)

→

❸鬆開外套，絲攻筒夾即被鎖定。
Release the outer casing,then the tap collet has been locked.



快換式攻牙刀柄
QUICK CHANGE TAPPING HOLDER

絲攻筒夾的選擇與調整
CHOICE AND ADJUSTMENT OF THE TAP COLLET

▲絲攻筒夾有扭力絲攻筒夾、加長型扭力絲攻筒夾、剛性絲攻筒夾三種類型，用户可根據實際需要選擇。
▲扭力絲攻筒夾和加長型扭力絲攻筒夾具有安全保護裝置，可避免絲錐在攻牙過程中因扭力過大而斷裂。
▲各種規格的扭力絲攻筒夾額定扭力見附表，絲攻筒夾的扭力在出廠時已調好，用户也可根據實際情況適當調整，但不得超過額定扭力。
▲The tap collet including the torsion tap collet,extended torsion tap collet and rigidity tap collet,users can choose according to actual requirements.
▲The torsion tap collet and the extended torsion tap collet have safety devices which can avoid tap breakage for excessive torsion force during the tapping operation.
▲Enclosed is a rated torsion sheet,for different specifications of torsion tap collets.The torsion of tap collet have been pre-fixed when they are finished.Users can also adjust it properly according to actual situation, but can not exceed the rated torsion specifications as per the enclosed rated torsion sheet.

額定扭矩表
RATED TORSION TABLE

規格 TYPE	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20
扭矩/N.m TORSION	0.8	1.6	2.5	5	10	18	28	45	50	80	90

Evermore®

P127, 153, 175, 204, 222

高精度,高效率,高穩定性
High precision,High efficiency,High stability

刀柄產品介紹 Feature

▼可進行鑽、銑、鉸、攻牙等加工
It can be used in the process of drilling,milling,reaming,tapping and so on.



標準動平衡
Standard balance
16000rpm/G6.3

最高動平衡
Optional balance
24000rpm/G2.5

▲本體最高動平衡達24000rpm/G2.5
▲The highest dynamic balancing of this product can reach up to 24000rpm/G2.5



▲夾持跳動小於0.007mm (使用AA級筒夾)
▲The Run-out accuracy of tool clamping is within 0.007mm (collet grade :AA)

▲7/24錐度符合ISO-AT3標準
▲The 7/24 cone of the shank meet the standard ISO-AT3.

▲SD 筒夾採用8°錐角設計，筒夾懸伸短，夾持力大。
▲SD collet designed with 8 degree cone angle which shortens the suspended length of a collet,therefore,the clamping power is huge.

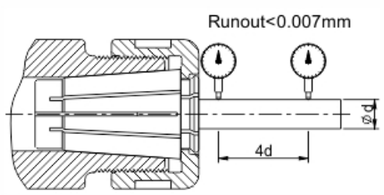
▲螺母完全動平衡，提升動平衡性能。
▲The nut is completely balanced, it can improve the performance of dynamic balancing.



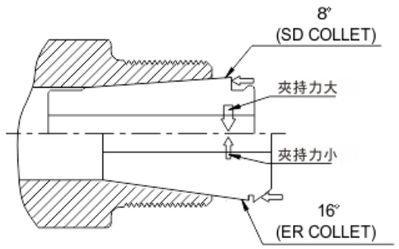


特點 FEATURES

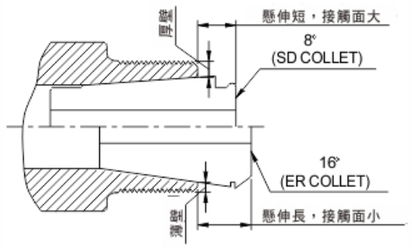
μ 級



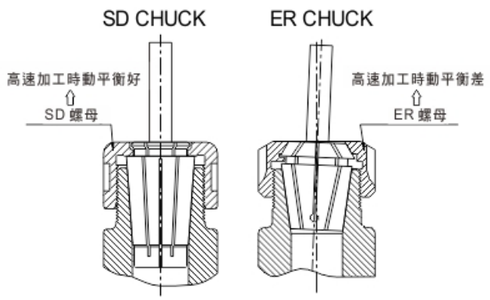
FEATURES:
※Runout<0.007mm（collet grade :AA ）
特點:
※跳動<0.007mm(使用AA級筒夾)



FEATURES:
※SD collet designed with 8 degree cone angle,the gripping force is two times larger than the ordinary collet with 16 degree.
特點:
※SD 夾頭採用8°錐角設計，比ER夾頭的16°設計的夾持力大2倍。



FEATURES:
※SD inner hole uses thick–wall design,which provide a strong ability fo absorb vibration and robust rigidity.
特點:
※SD 內孔採用厚壁設計，吸震能力佳，剛性強。



FEATURES:
※SD nuts have been precisely ground after heat treatment.they can improve the banlancing value and minimize vibration during high speed cutting.
※Max speed :16000rpm/G6.3
※Balancing value up to 24000rpm/G2.5 is available on special request.
特點:
※SD螺母經熱處理後再精車加工，提高螺母的平衡性，在高速切削是不會產生震動。
※標準平衡等級：16000rpm/G6.3。
※有特殊要求，平衡等級可達：24000rpm/G2.5。

P128, 154, 175, 188, 194, 198, 206

超強夾持力
LARGE CLAMPING POWER

特點 FEATURE

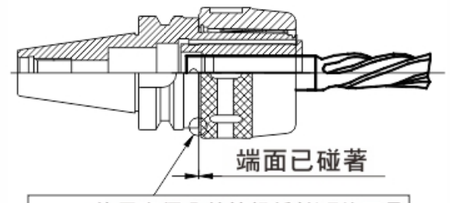
※刀柄材料選用最佳鋼材，確保材質穩定，經久使用不變形，耐磨性佳。
※內孔圓槽設計，均勻的彈性變形，可保證最佳的精度和還原性。
※內孔採厚壁設計，壁厚達6mm，吸震能力佳，重切削時不會有掉刀現象。
※採用特殊針狀軸承設計，徑特別的排列，使鎖緊時阻力降到最低，夾持刀具時可輕易產生2800Nm以上的把握力，最合適重切削。
※跳動精度<0. 01mm。

※The tool holder uses the finest steels which ensures the stability of a product and minimizes deformation over a long period of use,meanwhile,its wear–resistant ability is amazing.
※The radius slot of inner hole design makes it possible for even–elastic–contraction,which ensures the best accuracy and stability.
※Inner hole uses thick–wall design. Thickness reaches 6mm and has strong ability to absorb vibration. Cutters will not slip–out during heavy cutting.
※Particular needle bearing designed with special arrangement will minimize the locking resistance. Best design for heavy cutting, when holding tools easily have gripping torque over 2800Nm.
※Runout<0.01mm



▲整套裝
（含筒夾7個及扳手一把）
WHOLE SET
(Include a spanner and 7 collets)

使用說明
Usage Instruction

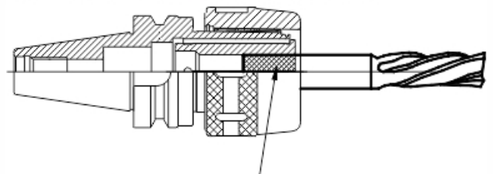


✗ 使用直徑公差等級低於h7的刀具，因尺寸偏小，導致鎖緊至端面已碰著時而刀具還未夾緊。

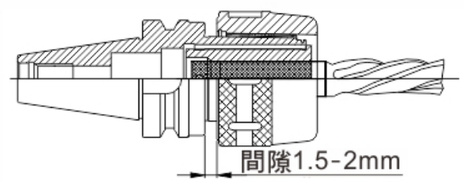
⚠ If one uses the tools whose diameter tolerance less than h7,then because of the small diameter,tool will not be clamped tightly when touch the face.

⚠ 注意 CAUTION

▼請選用直徑公差等級高於h7級的刀具，如選用直徑偏小的刀具則有可能導致夾不緊而產生溜刀現象。
▼禁止無刀狀態下進行空夾。
Please use tool whose diameter tolerance is higher than h7 grade,if tools with smaller diameter will cause slide feeding situation because of insufficient clamping power.Don't clamp without tools.



✗ 夾持長度太小



✓ 正確夾持

⚠ **可能導致筒夾損壞、變形或掉刀。**
If the clamping length is too short,it may result in the damage,deformation and slipping of the collet.

P130, 156, 176, 186, 189, 194, 198, 205, 215, 217, 220, 223

實用、種類齊全、性價比高。
Practical,complete range and high performance–price ratio

▲對精度要求一般的場合，可以勝任鑽孔、精銑、粗銑、鉸孔、攻牙等各種類型的加工。
▲It is applicable to machining jobs which require normal accuracy.It is suitable for working in processes of drilling,fine milling,rough milling,reaming and tapping.





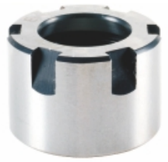
標準動平衡 Standard balance 16000rpm/G6.3

最高動平衡 Optional balance 24000rpm/G2.5

▲7/24錐度符合ISO–AT3標準，表面粗糙度達到Rz2.5。
▲The 7/24 cone of the shank is according to ISO–AT3 standard.The roughness of surface is Rz2.5.

▲標準動平衡16000 rpm/G6.3，也可根據客户需要提高等級。
▲Standard balance 16000 rpm/G6.3,the higher balance grade is also avaiable as per customer's requiement.

▲螺母經動平衡設計，可提高刀柄轉速。
▲The nut has been dynamically balanced which allows higher speed of the holder.



◀M型使用小徑ER螺母，且有高剛性特殊材質的產品可供選擇，請在訂購時說明。
The M type uses a smaller diameter ER nut,meanwhile,we also provide high–rigidity materials for choice.Please indicate when ordering.

小徑螺母
SMALL DIAMETER NUT

▲ER內孔錐度跳動小於0.005mm。
▲內部不設刀具長度調節螺絲，如有需要可訂製。
▲The run–out accuracy of ER bore conicity is within 0.005mm.
▲There is no screw for the length adjustment of holders,please order it if necessary.

⚠ 注意 CAUTION

★螺母鎖緊扭力超過限度會導致刀杆、螺母或筒夾受損。
If the nut is excessively tightened,damage may occur on the tool holder,the nut and the collet.

螺母鎖緊推薦扭力請參見 Clamping torsion of the nut P295

▼ER螺母經特殊設計，筒夾與螺母裝配時不會脱落。
The ER nut is specially designed so that the collet will not fall off.

D型螺母 D STYLE NUT	偏心螺母 ECCENTRIC NUT
	
經特殊設計，筒夾裝入後不會脱落。The collet will not fall off. ✓	筒夾裝入後容易脱落。The collet is easy to fall off. ✗

P139, 166, 182, 192, 216, 219

特點 FEATURE

※攻牙器使用ER筒夾夾持，可根據需要使用不同尺寸的ER筒夾。
※使用ER筒夾夾持的攻牙器頭部採用了浮動設計，攻螺紋時的扭矩可通過內部鋼珠傳遞。
※攻牙器頭部與刀柄之間存在0.1mm的半徑公差，可補償絲錐與螺紋底孔之間的偏心量，以延長絲錐的使用壽命。
※可伸縮的夾頭設計可以抵消在攻螺紋時不同步的軸向速度和徑向速度。
※夾頭兩側使用螺釘鎖緊絲錐尾部，可有效防止攻絲過程中絲錐打滑。

※Tap is clamped by ER spring collet, minimizing the need to stock various collets sizes.
※Tap is clamped on a floating tap holder by ER toilet chuck ,The tapping torque is transmitted through the ball inside the floating tap holder.
※0.1 mm radius tolerance between floating tap holder and shank for compensation of the offset of tap and pre–drilled hole to increase tap tool life.
※Compression and extension movement of the floating tap holder is designed for compensating unsynchronization of the spindle speed and feed while tapping.
※Two set screws are added to prevent slipping of the taps while the tapping function is taking place.

⚠ 注意 CAUTION

螺母鎖緊推薦扭力請參見 Clamping torsion of the nut P295

螺母鎖緊扭力超過限度會導致刀杆、螺母或筒夾受損。
If the nut is excessively tightened,damage may occur on the tool holder,the nut and the collet.



P139, 166, 182, 192, 197, 201, 209



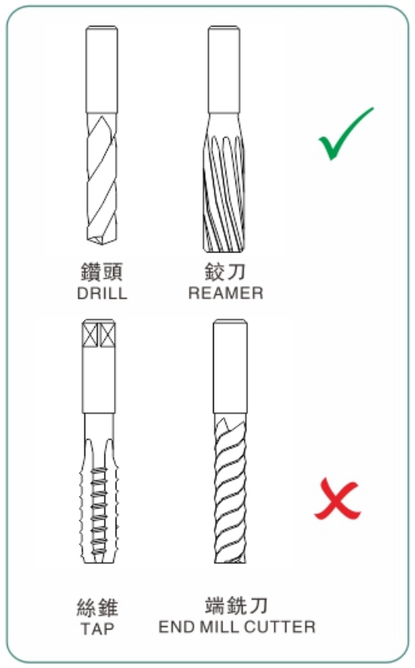
特點 FEATURES

※刀柄與鑽夾頭聯結爲一體，因此在强負載運作時不會出現夾頭脱落現象。
※跳動度在0.05 mm之內，能長久保持高精度。
※短小緊密的設計

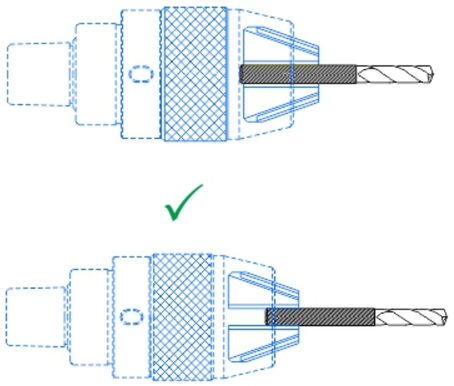
※The Shank and keyless drill chuck are combined as one body, so that the drill chuck will not fall or slip out when heavy cutting is being performed.
※The run–out is within 0.05mm and high precision can be maintained over a long period of time.
※Short and compact design.

使用説明
OPERATION INSTRUCTIONS

1.KPU系列產品只能用於鑽頭、鉸刀類刀具的夾持，禁止用於夾持絲錐和銑刀類刀具。
KPU series product can only be used for cutting tools such as drills and reamers.It is forbidden to be used for the cutting tools such as taps and milling cutters.



2.使用時應保證卡爪完全夾持住刀具，若夾持太少則可能導致卡爪及刀具損壞。
The jaws must clamp the tool completely,if the clamping length is too short,it may result in damage of the jaws and tools.



夾持太少，可能導致卡爪及刀具損壞。
The clamping length is too short,it may result in the damage of the jaws and tools.

⚠注意事項 CAUTION

使用時嚴禁敲擊卡爪，否則可能導致卡爪損壞。
It is forbidden to knock on jaws during operation since the jaws may be damaged.

P143, 169, 183, 210, 226

廣泛用於模具加工，一個刀柄配合不同的小銑頭即可完成各種複雜的模具加工。
The EM series small milling holders are extensively used in the mould processing.One holder can be assembled with different small milling heads in order to carry out machining on a complex mould.

兩面拘束
two surface connect



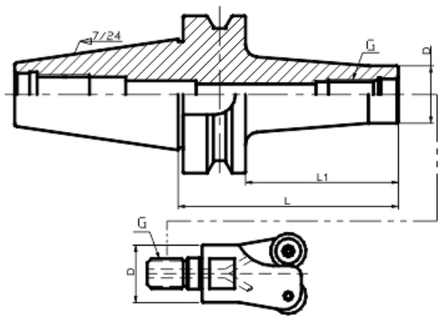


▲小銑頭與刀柄爲兩面拘束結合，剛性强，能用于高速銑削。
▲The small milling head is firmly connected on two surface with the holder,so that its rigidity is superb.It is suitable for high speed machining.

★小銑頭可快速更換，重複定位精度小於0.01mm。
The small milling head can be changed quickly.The repeatable positioning accuracy is within 0.01mm.

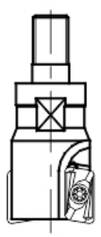
▲專為深腔銑削設計，最大限度地避免了干涉問題。
▲It is specially designed for machining work pieces with deep holes which minimizes interference.

▲模組化接口設計，可根據需要選擇多種小銑頭組合使用。
▲The modular interface design provides the possibility of choosing various kinds of small milling heads according to your requirements.

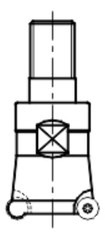




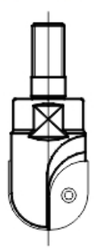
▼APMT系列 端銑刀
APMT Series end mill



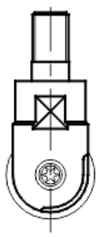
▼TRS系列 R角端銑刀
TRS Series R angle end mill



▼TCF系列 球型銑刀
TCF Series ball end mill



▼T2139系列 球型精銑刀
T2139 Series precision ball end mill



▲使用捨棄式刀片，可降低加工成本，提高加工速度。
▲可用於中心出水，提高加工表面質量。
▲The throw–away type inserts are used to help reduce the processing costs and improve machining speed.
▲This model can be used for internal coolant and upgrade quality of machining surfaces of a work piece.

Evermore®

特點 FEATURES

▲適用於鑽孔、銑削、雕刻加工
Suitable for drilling,milling and engraving.

▲動平衡等級：24000rpm/G2.5
Dynamic balance:24000rpm/G2.5



P214

適用於高轉速加工
Suitable for high speed machining

小型CNC加工中心、雕銑機、帶有縮放儀的平面仿形銑床專用
For Small CNC machining centers, engraving and milling machine, two-dimensional copying milling machine with a pantograph.

Evermore®

1.跳動精度＜0.005mm,
2.最高轉速可達30000rpm;G2.5,
3.沒有螺母的內藏式夾頭設計，剛性强，穩定性高。

1.run-out＜0.005mm,
2.max speed 30000rpm G2.5,
3.non-nut and built-in collet design, it features high rigidity,stable clamping.



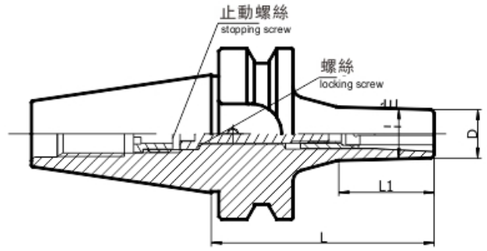


FIG1

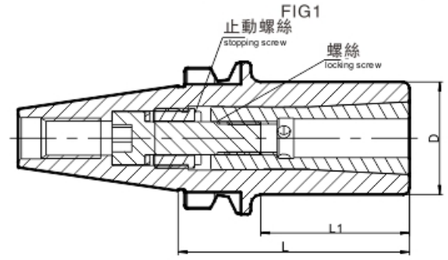


FIG2

EC-E筒夾 EC-E collet P301

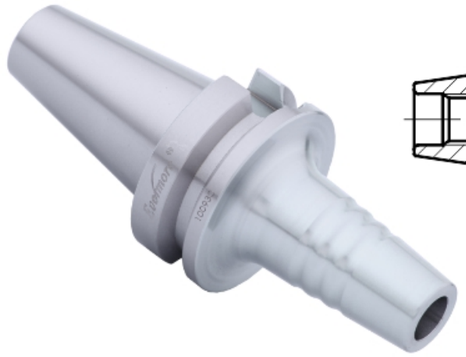
訂貨型號 Order Code	夾持範圍 Clamping range	圖號 FIG	Ø	L	L1	D	筒夾 Collet	螺絲 Locking screw	止動螺絲 Stopping screw	扳手 Spanner
BT30-EC06-60	3~6	1	3°	60	26	13	EC 06	M5L30	EC-M10	4 x 100
BT30-EC06-90	3~6	1	3°	90	50	13	EC 06	M5L40	EC-M10	4 x 100
BT30-EC08-130	3~8	1	3°	130	93	22	EC 08	M8L25	EC-M10	5 x 100
BT30-EC10-80	3~10	2	–	80	55	28	EC 10	M8L25	EC-M16	6x100
BT30-EC12-70	3~12	2	--	70	45	34	EC 12	M10L35	EC-M18	8 x 50
BT30-EC12-80	3~12	2	--	80	55	34	EC 12	M10L35	EC-M18	8 x 50
BT40-EC06-60	3~6	1	3°	60	26	13	EC 06	M5L50	EC-M10	4 x 100
BT40-EC06-90	3~6	1	3°	90	45	13	EC 06	M5L50	EC-M10	4 x 100
BT40-EC06-120	3~6	1	3°	120	60	13	EC 06	M5L95	EC-M10	4 x 100
BT40-EC06-150	3~6	1	3°	150	76	13	EC 06	M5L95	EC-M10	4 x 100
BT40-EC08-90	3~8	1	3°	90	53	22	EC 08	M6L35	EC-M12	5 x 150
BT40-EC08-120	3~8	1	3°	120	65	22	EC 08	M6L65	EC-M12	5 x 150
BT40-EC10-90	3~10	2	--	90	51	28	EC 10	M8L30	EC-M16	6 x 150
BT40-EC10-120	3~10	2	--	120	81	28	EC 10	M8L30	EC-M16	6 x 150
BT40-EC12-70	3~12	2	--	70	35	34	EC 12	M10L35	EC-M18	8 x 100
BT40-EC12-80	3~12	2	--	80	45	34	EC 12	M10L35	EC-M18	8 x 100
BT40-EC12-90	3~12	2	--	90	55	34	EC 12	M10L35	EC-M18	8 x 100
BT40-EC12-120	3~12	2	--	120	85	34	EC 12	M10L35	EC-M18	8 x 100
BT40-EC12-150	3~12	2	--	150	110	34	EC 12	M10L35	EC-M18	8 x 150
BT50-EC10-110	3~10	2	--	110	57	28	EC 10	M8L30	EC-M16	6 x 150
BT50-EC10-150	3~10	2	--	150	77	28	EC 10	M8L30	EC-M16	6 x 200
BT50-EC12-110	3~12	2	--	110	57	34	EC 12	M10L35	EC-M18	8 x 150
BT50-EC12-150	3~12	2	–	150	80	34	EC 12	M10L35	EC-M18	8 x 200

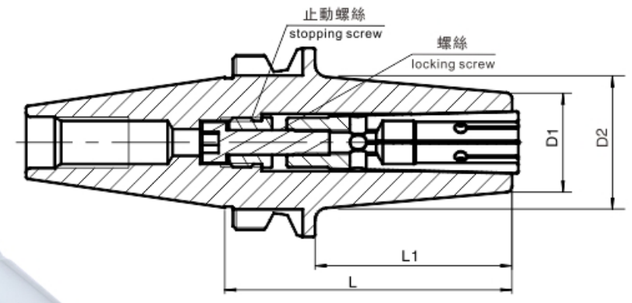
UC 筒夾刀柄 - BT柄
UC COLLET HOLDERS-BT (MAS403) SHANK

Evermore®

1. 跳動精度 < 0.005mm。
2. 適用於銑刀及銑刀同柄徑的鉸刀。
3. 沒有螺母的內藏式夾頭設計，剛性强，穩定性高。

1. run-out < 0.005mm,
2. Apply to milling cutter and reamer the same milling shank.
3. non-nut and built-in collet design, it features high rigidity,stable clamping.





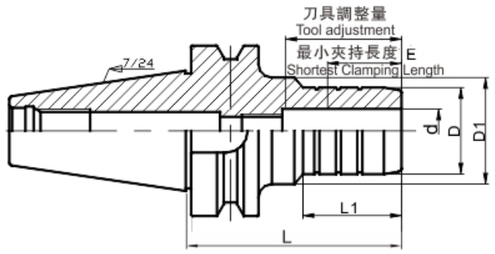
訂貨型號 Order Code	L	L1	D1	D2	筒夾 Collet	螺絲 Locking screw	止動螺絲 Stopping screw	扳手 Spanner
BT30-UC10-70	70	48	24	30	UC10	M6L25	UC-M12	5x100
-UC16-90	90	68	32	40	UC16	M8L30	UC-M18	6x100
BT40-UC10-90	90	63	24	32	UC10	M6L30	UC-M12	5x100
-120	120	93	24	36	UC10	M6L30	UC-M12	5x100
-150	150	123	24	40	UC10	M6L30	UC-M12	5x100
-UC16-90	90	63	32	40	UC16	M8L30	UC-M18	6x100
BT50-UC10-110	110	72	24	36	UC10	M6L30	UC-M12	5x100
-200	200	162	24	50	UC10	M6L30	UC-M12	5x100
-UC16-120	120	82	32	42	UC16	M8L30	UC-M18	5x100

UC筒夾 UC collet P301

HDC 油壓刀柄 - BT柄
HYDRAULIC HOLDERS- BT (MAS403) SHANK

Evermore®





訂貨型號 Order Code	d	⌀D	⌀D1	L	L1	刀具調整量 Tool Adjustment H	最小夾持長度 Shortest clampinglength E	重量(Kg) Weight
BT30-HDC06-75	6	26	45	75	40	28-50	28	0.8
-HDC08-75	8	28			41			0.8
-HDC10-75	10	30	45		43	35-55	33	0.8
-HDC12-75	12	32	48			38-60	38	1.0
-HDC16-85	16	38	50	85	47	43-70	43	1.0
-HDC20-85	20	42	55		48	46-70		1.0
-HDC25-105	25	-	63	105	——	52-80	52	1.4
-HDC32-105	32	-	75			56-80	56	1.3
BT40-HDC06-90	6	26	45	90	43	28-50	28	1.4
-HDC08-90	8	28	45					1.4
-HDC10-90	10	30	45			33-55	33	1.4
-HDC12-90	12	32	48		43	38-60	38	1.5
-HDC16-90	16	38	50		47	43-70	43	1.5
-HDC20-90	20	42	55					1.6
-HDC25-90	25	-	63	90	——	52-80	52	1.6
-HDC32-90	32	-	72	90	——	56-80.5	56	1.7
BT50-HDC06-105	6	26	45	105	47	28-50	28	4.4
-HDC08-105	8	28	45					4.4
-HDC10-105	10	30	45			33-55	33	4.4
-HDC12-105	12	32	48			38-60	38	4.5
-HDC16-105	16	38	50		51	43-70	43	4.6
-HDC20-105	20	42	55					4.7
-HDC25-105	25	63	——		——	52-80	52	5.2
-HDC32-105	32	72				56-80.5	56	5.8

⚠ 注意CAUTION

▶刀具調整量H尺寸是指在使用可調螺絲情況下的調整量。
The adjustable length of the tool is H dimension when using the adjustable screws.

▶最小夾持長度不得小於表中E值，否則容易損壞刀柄。
The minimum clamping length can not be less E dimension,it will break the holder.

▶禁止無刀狀態下進行空夾。
It is forbidden to clamp without a tool

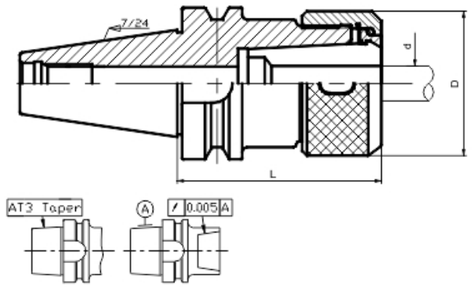
油壓刀柄變徑套 Reduce sleeve P298

▶ OZ刀柄內孔採用單邊1/10角度厚壁設計，夾持力是普通筒夾刀柄的2-3倍。
OZ holder inner hole use single-side band 1/10 angle thick wall design, clamping is up to three times more powerful than ordinary ones.

▶ 可用於粗銑、精銑、鑽孔、鉸孔、攻牙等加工，因其夾持力大的結構特性，所以特別適合用於粗加工。
Suitable for rough milling, drilling, reaming, taping and so on. because of the extraordinary clamping power , it is especially suitable for rough processing.

▶ 螺母中採用了鋼球滾動機構，減小筒夾磨損，提高夾持力。
The nut that is used with steel ball rolling mechanism, reduce the collet wear, which improve the clamping power.



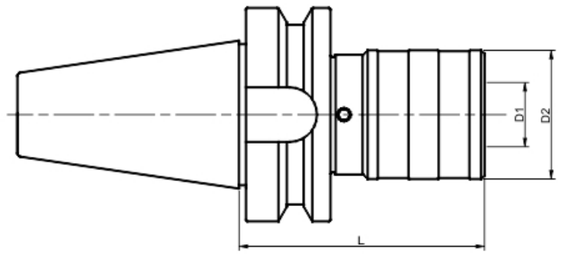


訂貨型號 Order Code	L	ØD	夾持範圍Ød Clamping range	重量(Kg) Weight
BT30-OZ25-70	70	60	6~25	0.9
BT40-OZ25-80	80	60	6~25	1.5
-100	100			2.0
-OZ32-80	80	78	6~32	2.0
BT50-OZ25-90	90	60	6~25	4.1
-150	150			5.4
-OZ32-90	90	78	6~32	4.6
-150	150			6.4

★以上規格均不含扳手、筒夾及拉釘，如有需要請另外訂購。
The above model does not contain spanners, collets and pull studs,please order them additionally if necessary.

OZ螺母 OZ NUT P297
OZ筒夾 OZ COLLET P296
扳手 SPANNER P297
拉釘 PULL STUDS P306





※有套裝產品可供選擇，可根據需要單支或整套訂購。
The whole set or one of them can be ordered separately.
※如需整套訂購，請在訂購時說明所需筒夾的型號。
If you need whole set,please choose collet type.

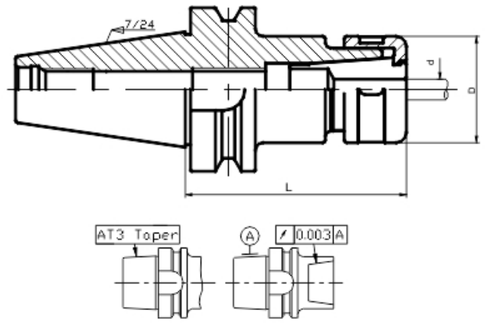
訂貨型號 Order Code	攻絲範圍 Tapping range	L	ØD1	ØD2	伸縮長度 Dilation length 壓縮 Compression	伸縮長度 Dilation length 伸長 Extension	可使用筒夾型號 Collet type	重量(Kg) Weight
BT30-WF12	M3-M12	67	19	39	7.5	7.5	TC312 TC312L TC312R	0.7
-WF20	M8-M20	94	31	55	12.5	12.5	TC820 TC820L TC820R	1.2
BT40-WF12	M3-M12	72	19	39	7.5	7.5	TC312 TC312L TC312R	1.3
-WF20	M8-M20	94	31	55	12.5	12.5	TC820 TC820L TC820R	1.6
BT50-WF12	M3-M12	83	19	39	7.5	7.5	TC312 TC312L TC312R	3.9
-WF20	M8-M20	105	31	55	12.5	12.5	TC820 TC820L TC820R	4.3
HSK-A63-WF12	M3-M12	130	19	39	7.5	7.5	TC312 TC312L TC312R	1.0
-WF20	M8-M20	151.5	31	55	12.5	12.5	TC820 TC820L TC820R	1.3
整套 WHOLE SET								
BT30-WF12T	M3-M12	67	19	39	7.5	7.5	TC312 TC312L TC312R	
-WF20T	M8-M20	94	31	55	12.5	12.5	TC820 TC820L TC820R	
BT40-WF12T	M3-M12	72	19	39	7.5	7.5	TC312 TC312L TC312R	
-WF20T	M8-M20	94	31	55	12.5	12.5	TC820 TC820L TC820R	
BT50-WF12T	M3-M12	83	19	39	7.5	7.5	TC312 TC312L TC312R	
-WF20T	M8-M20	105	31	55	12.5	12.5	TC820 TC820L TC820R	
HSK-A63-WF12T	M3-M12	130	19	39	7.5	7.5	TC312 TC312L TC312R	
-WF20T	M8-M20	151.5	31	55	12.5	12.5	TC820 TC820L TC820R	

快換式絲攻筒夾 Quick change tap collets P286

SD 精密彈性筒夾刀柄 - BT柄
SD PRECISION COLLET HOLDERS- BT(MAS403) SHANK

Evermore®





訂貨型號 Order Code	L	øD	夾持範圍 ød Clamping range	重量(Kg) Weight
S20T–SD10–45	45	29	1.75~10.0	0.3
BT30–SD06– 60	60	20	1.75~6.0	0.5
– 90	90			0.6
–SD10– 60	60	29	1.75~10.0	0.6
– 90	90			0.7
–SD16– 60	60	41	2.75~16	0.6
– 90	90			0.9
–SD20– 90	90	50	4–20	0.7
–SD25– 90	90	55	6–25	0.9
BT40–SD06– 60	60	20	1.75~6.0	1.0
–90	90			1.1
–120	120			1.2
–SD10– 60	60	29	1.75~10.0	1.1
–90	90			1.3
–120	120			1.4
–150	150			1.6
–SD16– 60	60	41	2.75~16	1.2
–90	90			1.4
–120	120			1.7
–150	150			1.9
–SD20– 60	60	50	4–20	1.3
–90	90			1.7
–120	120			2.0
–150	150			2.3
–SD25– 90	90	55	6~25	1.7
–120	120			2.2
–150	150			2.7
BT50–SD06–100	100	20	1.75~6.0	3.8
–150	150			4.0
–SD10–100	100	29	1.75~10.0	3.9
–150	150			4.2

續表>>
Continue

★ 以上規格均不含筒夾及拉釘，如有需要請另外訂購。
The above model does not contain collets and pull studs,please order them if necessary

★ 可更換使用SDP螺母
The SDP nut can replace the SD nut.

SD螺母 SD NUT P291 | SD筒夾 SD COLLET P289 | 扳手 SPANNER P291 | 拉釘 PULL STUDS P306 | SDP 螺母 SDP NUT P291 | SDP扳手 SDP SPANNER P292

SD 精密彈性筒夾刀柄 - BT柄
SD PRECISION COLLET HOLDERS- BT(MAS403) SHANK
Evermore®

續表>>
Continue

訂貨型號 Order Code	L	D	夾持範圍 ød Clamping range	重量(Kg) Weight
BT50–SD16–100	100	41	2.75~16	3.9
–150	150			4.3
–200	200			4.7
–SD20–100	100	50	4–20	4.2
–150	150			4.8
–200	200			5.3
SD25–100	100	55	6~25	4.2
–150	150			5.0
–200	200			5.9

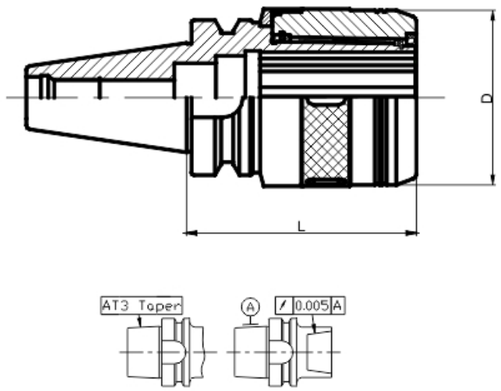
EMC 強力銑刀刀柄 - BT柄
EMC POWERFUL HOLDERS- BT(MAS403) SHANK

訂貨型號 Order Code	L	ØD	夾持範圍 ød Clamping range	重量(Kg) Weight
BT30–EMC20–80	80	53.5	6–20	0.9
BT40–EMC20–80	80	53.5	6–20	1.7
–135	135			2.0
BT40–EMC32–90	90	73.5	6–32	2.2
–120	120			2.9
BT50–EMC32–105	105	73.5	6–32	5.0
–135	135			5.9
–165	165			6.7
–EMC42–115	115	87.5	6–42	5.7

★ 單獨訂購均不帶筒夾及扳手，如有需要請另外訂購，也可訂購套裝產品（附帶筒夾7個及扳手1把）。
The collet and spanner are not include,please order them additionally if necessary.The tool package of whole set is available on request.(include a spanner and 7 collets)

EMC筒夾 EMC COLLET P292 | 扳手 SPANNER P292 | 拉釘 PULL STUDS P306





訂貨型號 Order Code	L	ØD	夾持範圍ød Clamping range	重量(Kg) Weight
BT30–PMC20–80	80	53.5	6–20	3.9
BT40–PMC20–80	80	53.5	6–20	4.3
–135	135			4.7
BT40–PMC32–105	105	72	6–32	4.2
–120	120			4.8
BT50–PMC32–105	105	72	6–32	5.3
–135	135			4.2
–165	165			5.0
–PMC42–115	115	87.5	6–42	5.9

防塵 Dust proof

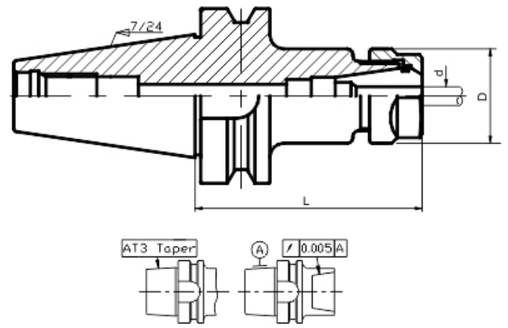
前套與本體結合採用防塵罩與O形圈雙重防塵，防塵效果好，能有效地避免切屑進入內部而損壞內部零部件，從而影響刀柄使用與加工精度。

The connection between the tool cutter and the holder has an O ring and a dust proof cover .This design can prevent chips,dust,dirt and so on from getting into the holder.It also avoids filings from damaging the part, and affecting product precision,thus assuring machining accuracy.

★單獨訂購均不帶筒夾及扳手，如有需要請另外訂購，也可訂購套裝產品（附帶筒夾7個及扳手1把）。
The collet and spanner are not include,please order them additionally if necessary.The tool package of whole set is available on request.(include a spanner and 7 collets)

EMC筒夾 P292 EMC COLLET
扳手 P292 SPANNER
拉釘 P306 PULL STUDS





訂貨型號 Order Code	L	ØD	夾持範圍ød Clamping range	重量(Kg) Weight
BT30–ER11–60	60	19	2.5–7	0.5
–100	100			0.6
–ER16–45	45	30	2.0–10	0.5
–60	60			0.6
–100	100			0.7
–ER20–60	60	34	2.0–13	0.5
–100	100			0.8
ER25–60	60	42	2.0–16	0.6
–100	100			1.0
–135	135			1.2
–ER32–60	60	50	2.0–20	0.6
–100	100			0.9
BT40–ER11–60	60	19	2.5–7	1.1
–100	100			1.2
–ER16–60	60	30	2.0–10	1.1
–100	100			1.3
–150	150			1.5
–ER20–60	60	34	2.0–13	1.1
–100	100			1.2
–150	150			1.7
–200	200			2.0

續表>>
Continue

★以上規格均不含扳手、筒夾及拉釘，如有需要請另外訂購。
The above model does not contain spanners, collets and pull studs,please order them additionally if necessary.

ER螺母 P295 ER NUT
ER筒夾 P294 ER COLLET
扳手 P295 SPANNER
拉釘 P306 PULL STUDS

續表>>
Continue

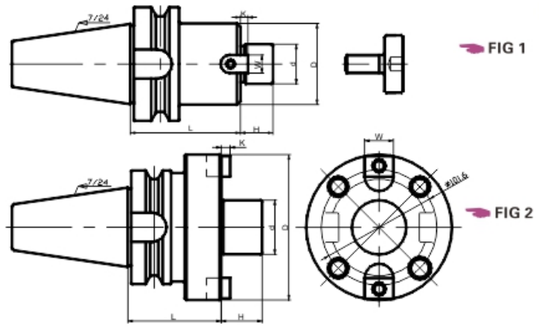
訂貨型號 Order Code	L	ØD	夾持範圍ød Clamping range	重量(Kg) Weight
BT40–ER25–60	60	42	2.0–16	1.1
–100	100			1.5
–135	135			1.9
–150	150			2.0
–200	200			2.4
–ER32–60	60	50	2.0–20	1.2
–100	100			1.7
–150	150			2.4
–200	200			3.1
–300	300			4.4
–ER40–80	80	63	3.0–26	1.4
–100	100			1.7
–150	150			2.4
–200	200			3.1
BT50–ER16–100	100	30	2.0–10	3.9
–150	150			4.2
–ER20–100	100	34	2.0–13	4.0
–150	150			4.3
–ER25–100	100	42	2.0–16	4.0
–150	150			4.5
–ER32–100	100	50	2.0–20	4.1
–150	150			4.7
–200	200			5.4
–ER40–100	100	63	3.0–26	4.3
–150	150			5.4
–200	200			6.5
BT30–ER16–60M	60	22	2.0–10	0.5
–80M	80			0.6
–100M	100			0.7
–ER20–80M	80	28	2.0–13	0.6
–100M	100			0.7
BT40–ER11–100M	100	17.5	2.5–7	1.1
–ER16–100M	100	22	2.0–10	1.2
–150M	150			1.7
–ER20–100M	100	28	2.0–13	1.2
BT50–ER16–150M	150	22	2.0–10	4.1

★以上規格均不含扳手、筒夾及拉釘，如有需要請另外訂購。
The above model does not contain spanners, collets and pull studs,please order them if necessary.

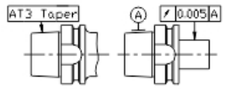
ER螺母 ER NUT P295
ER筒夾 ER COLLET P294
扳手 SPANNER P295
拉釘 PULL STUDS P306

▲面銑刀柄端面經特殊研磨，刀盤裝上後能與刀柄緊密貼合，使刀盤能穩固地進行切削，達到最佳的銑削效果。
The face mill holder end face is precisely ground, so that the connection of the tool disk and holder is perfect, it is suitable for rough processing and can achieve optimal cutting performance.



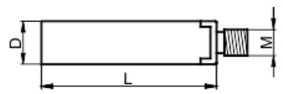


註：帶 "★" 規格為加長型非標產品，如有需要請致電本公司諮詢。
The "★" model is for extension types, it is not a standard product, please order them additionally if necessary.



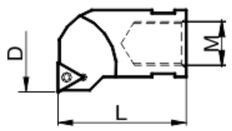
訂貨型號 Order Code	圖號 FIG	L	ød(h6)	øD	H	K	W	重量(Kg) Weight
BT30–FMA25.4–45	1	45	25.4	50	20	5	9.5	0.9
–FMA38.1–60		60	38.1	80	25	9	15.9	2.1
BT40–FMA25.4–45	1	45	25.4	50	20	5	9.5	1.4
–60		60						1.7
–105		105						2.4
–150		150						3.1
–200		200						3.8
–250★		250						4.6
–FMA31.75–45		45	31.75	60	22	7	12.7	1.6
–60		60						2.0
–90		90						2.7
–FMA38.1–60		60	38.1	80	25	9	15.9	2.5
BT50–FMA25.4–45	1	45	25.4	50	20	5	9.5	4.0
–90		90						4.6
–105		105						4.9
–150		150						5.6
–200		200						6.4
–250★		250						7.2
–FMA31.75–45		45	31.75	60	22	7	12.7	4.1
–75		75						4.8
–105		105						5.5
–150		150						6.4
–200		200						7.6
–FMA38.1–50	1	48	38.1	80	25	9	15.9	4.5
–75		75						5.6
–FMA50.8–50		51	50.8	100	28	12		5.4
–FMA47.625–80	2	82	47.625	128	32	12.5	25.4	8.2



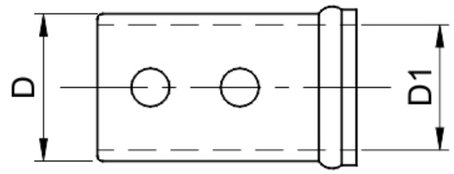


訂貨型號 Order Code	尺寸（mm）			適用鏜刀頭 Suitable boring heads
	L	ØD	M	
SC08–M5–115	115	8	M5×0.8	BH09，BH10.5
SC10–M6–115	115	10	M6×1.0	BH12
SC10–M6–135	135	10	M6×1.0	BH12
SC10–M6–160	160	10	M6×1.0	BH12
SC12–M6–115	115	12	M6×1.0	BH14，BH16
SC12–M6–135	135	12	M6×1.0	BH14，BH16
SC12–M6–165	165	12	M6×1.0	BH14，BH16
SC14–M6–160	160	14	M6×1.0	BH16
SC16–M10–105	105	16	M10×1.25	BH18，BH20，BH22，BH24
SC16–M10–140	140	16	M10×1.25	BH26，BH28，BH30，BH32
SC16–M10–180	180	16	M10×1.25	BH34，BH36，BH38，BH40





訂貨型號 Order Code	尺寸（mm）				刀片 Insert	螺絲 Screw	扳手 wrench
	ØD	鏜孔範圍 Boring range	L	M			
BH09	9	9–10.5	18	M5×0.8	TPGT080204L	M2.2	T7
BH10.5	10.5	10.5–12					
BH12	12	12–14	23	M6×1.0			
BH14	14	14–16					
BH16	16	16–18					
BH18	18	18–20	27	M10×1.25			
BH20	20	20–22					
BH22	22	22–24					
BH24	24	24–26					
BH26	26	26–28					
BH28	28	28–30					
BH30	30	30–32					
BH32	32	32–34					
BH34	34	34–36					
BH36	36	36–38					
BH38	38	38–40					
BH40	40	40–42					



訂貨型號 Order Code	尺寸（mm）	
	ØD	ØD1
CS 1606	16	6
CS 1608	16	8
CS 1610	16	10
CS 1612	16	12
CS 1614	16	14

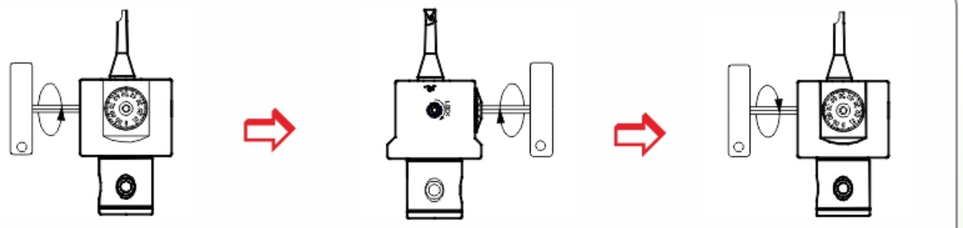
切削速度
Cutting speed

被切材質 Cutting material	碳鋼 Carbon steel	不銹鋼 Stainless steel	鑄鐵 Cast iron	鋁 Aluminium
切削速度VC(m/min) Cutting speed	100–200	70–140	70–140	100–300

- Vc=D × π × n/1000
- Vf=n × F

- Vc：切削速度（m/min）
- D：加工孔徑（mm）
- n：轉速（rpm）
- Vf：進給速度（mm/min）
- F：每轉進給量（mm/rev）
- ap：切入量（mm）

加工尺寸調整方法
Adjusting steps for machining dimensions

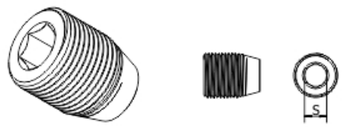


❶鬆開鎖緊螺絲
Loosen the setting screws

❷旋轉調節螺絲，調整刻度至所需尺寸（每小格0.01mm）
Turn the regulating screws,adjust the graduation to the desired dimension(each graduation 0.01mm)

❸旋緊鎖緊螺絲
Tighten the locking screws.

ECK錐體螺絲
ECK conical screws



ECK No .	螺絲規格 Screw type	鎖緊扳手 Spanner
0	ECK0LS	2.5
1	ECK1LS	2.5
2	ECK2LS	3
3	ECK3LS	4
4	ECK4LS	5
5	ECK5LS	8
6	ECK6LS	10



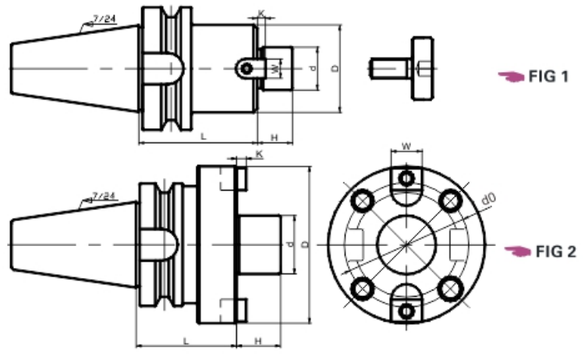
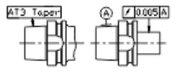


FIG 1

FIG 2

註：B型使用大頭鎖緊螺絲，C型使用小頭鎖緊螺絲。
The B model uses a big clamping nut, The C model uses a small clamping nut.



訂貨型號 Order Code	圖號 FIG	L	ød(h6)	øD	ød0	H	K	W	重量(Kg) Weight
BT30–FMB (C) 22–45	1	45	22	48	--	18	5	10	0.8
–100		100							1.5
–FMB (C) 27–60		60	27	60		20	6	12	1.4
–FMB (C) 32–60			32	72		22	7	14	1.8
BT40–FMB (C) 22–45	1	45	22	48	--	18	5	10	1.4
–60		60							1.6
–90		90							1.8
–105		105							2.2
–150		150							2.9
–200		200							3.6
–FMB (C) 27–45		45	27	60		20	6	12	1.6
–60		60							2.0
–105		105							3.0
–FMB (C) 32–45		45	32	72		22	7	14	1.9
–60		60							2.3
–105		105							3.5
–FMB 40–70		70	40	80		25	8	16	2.9
–FMB 40F–60	2	60		110	66.7				2.8
–FMB 40M–60				89.3					2.3
BT50–FMB (C) 22–60	1	60	22	48	--	18	5	10	4.1
–105		105							4.6
–150		150							5.5
–200		200							6.1
–250 *		250							6.8
–300 *		300							7.5
–350 *		350							10.7

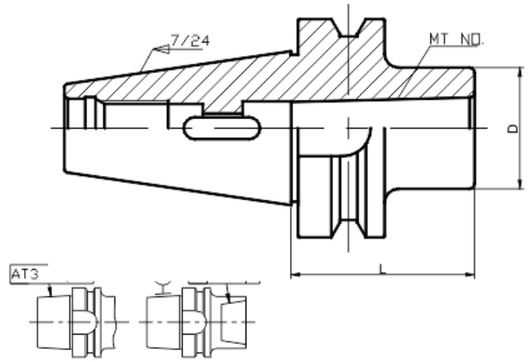
註：帶 “*” 規格為加長型非標產品，如有需要請致電本公司諮詢。
The "*" model is for extension types, it is not a standard product, please order them additionally if necessary.

續表>>
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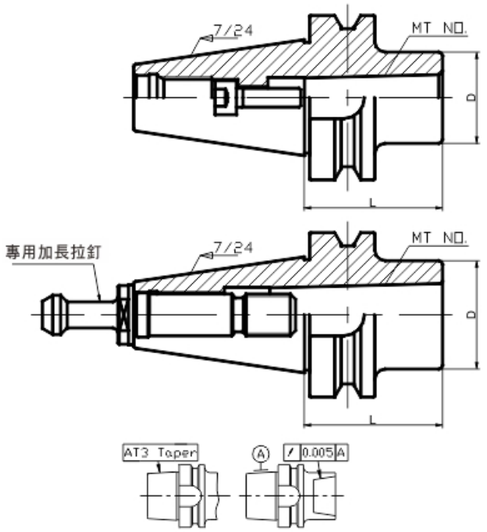
訂貨型號 Order Code	圖號 FIG	L	ød(h6)	øD	ød0	H	K	W	重量(Kg) Weight
BT50–FMB (C) 22 –200C	1	200	22	58	--	18	5	10	6.1
–250 *		250							6.8
–300 *		300							7.5
–350 *		350							10.7
BT50––FMB (C) 27–45	1	45	27	60		20	6	12	4.1
–90		90							5.1
–105		105							5.4
–FMB (C) 32–45		45	32	72		22	7	14	4.3
–75		75							5.2
–105		105							6.2
–150		150							7.6
–FMB 40–45		45	40	80		25	8	16	4.5
–70		70							5.4
–105		105							6.7
–FMB 40F–75	2	75	40	110	66.7	25	8	16	6.6
–FMB 40M–75				89.3					5.5
–FMB 60F–75			60	140	101.6		12.5	25.4	8.9
–FMB 60M–75				129.1					7.0





訂貨型號 Order Code	莫氏錐號 MT No .	L	⌀D	重量(Kg) Weight
BT30–MTA1–45	1	45	25	0.5
–MTA2–60	2	60	35	0.6
–MTA3–80	3	77	40	0.7
BT40–MTA1–45	1	41	25	1.0
–120		120		1.3
–MTA2–60	2	60	35	1.1
–120		120		1.6
–MTA3–75	3	72	40	1.2
–135		135		1.8
–MTA4–90	4	90	50	1.4
BT50–MTA1–45	1	45	25	3.7
–120		120		4.0
–MTA2–45	2	45	35	3.6
–135		135		4.3
–MTA3–45	3	45	40	3.5
–150		150		4.4
–MTA4–75	4	75	50	3.6
–180		180		5.1
–MTA5–105	5	105	65	3.9
–210	5	210	65	4.7
–MTA6–275	6	275	85	4.2





訂貨型號 Order Code	圖號 FIG	莫氏錐號 MT NO .	L	⌀D	重量(Kg) Weight
BT30–MTB2–60*	2	2	60	35	0.7
BT40–MTB1–45	1	1	45	25	1.1
–MTB2–60		2	60	35	1.2
–MTB3–75		3	75	40	1.3
–MTB4–90*	2	4	90	50	1.4
BT50–MTB1–45	1	1	45	25	3.7
–120			120		3.9
–MTB2–45		2	45	35	3.7
–135			135		4.2
–MTB3–60		3	60	40	3.7
–150			150		4.5
–MTB4–75		4	80	50	3.9
–150		4	150	50	4.2
–MTB5–120	1	5	120	65	4.5

★帶 “ * ” 規格附帶MTB專用拉釘。
The “ * ” model contains MTB special pull studs.

MTB拉釘 P307
MTB PULL STUDS





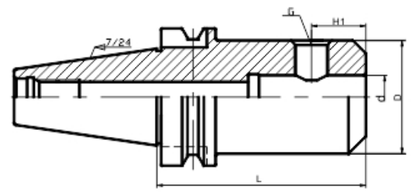


FIG 1

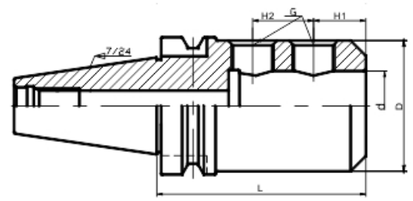
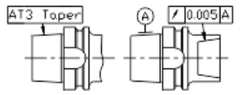


FIG 2



訂貨型號 Order Code	圖號 FIG	L	ød	ØD	H1	H2	G	重量(Kg) Weight
BT30–SL20–75	1	75	20	45	25	——	M16 x 1.5	0.9
–SL25–90	2	90	25	61	24	25	M18 x 2.0	1.6
BT40–SL08–75	1	75	8	28	18	——	M8 x 1.0	1.2
–SL10–75			10	35	20		M10 x 1.0	1.3
–SL12–75			12	42	22.5		M12 x 1.5	1.3
–SL16–75		75	16	48	24		M14 x 1.5	1.6
–SL20–75			20	52	25		M16 x 1.5	1.6
–SL25–90	2	90	25	61	24	25	M18 x 2.0	2.1
–SL32–90			32	62		28	M20 x 2.0	2.0
–SL40–100		100	40	64	30	32	M16 x 1.5	1.9

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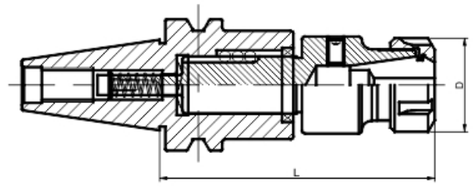
續表>>
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訂貨型號 Order Code	圖號 FIG	L	ød	ØD	H1	H2	G	重量(Kg) Weight
BT50–SL08–75	1	75	8	28	18	——	M8 x 1.0	3.7
–SL10–75			10	35	20		M10 x 1.0	3.9
–SL12–75			12	42	22.5		M12 x 1.5	3.9
–SL16–90		90	16	48	24		M14 x 1.5	4.1
–SL20–105		105	20	52	25		M16 x 1.5	4.6
–150		150						5.2
–200		200						6.1
–SL25–105	2	105	25	65	24	25	M18 x 2.0	5.0
–150		150						6.0
–200		200						7.2
–SL32–105		105	32	72		28	M20 x 2.0	5.2
–150		150						6.5
–200		200						8.0
–300		300						10.9
–SL40–120		120	40	80	30	32		5.9
–SL42–120			42					5.8
–SL50–120		125	50	95	35	35	M24 x 2.0	6.8
–SL50.8–120			50.8					6.8

WER 攻牙刀柄 - BT柄
WER TAPPING HOLDERS - BT(MAS403) SHANK

Evermore®





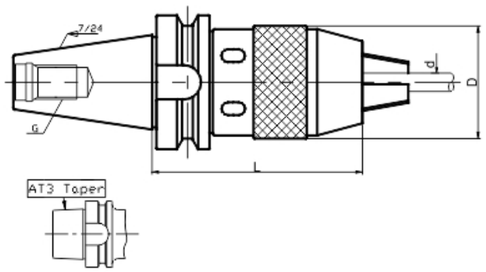
訂貨型號 Order Code	L	ØD	筒夾型號 Collet Type	重量(Kg) Weight
BT30–WER16–90	90	30	ER16	0.8
–WER20–100	100	34	ER20	0.9
BT40–WER16–90	90	30	ER16	1.3
–WER20–100	100	34	ER20	1.4
–WER25–110	110	42	ER25	1.7
–WER32–120	120	50	ER32	1.9
BT50–WER16–90	90	30	ER16	3.9
–WER20–100	100	34	ER20	4.0
–WER25–110	110	42	ER25	4.2
–WER32–120	120	50	ER32	4.5
–200	200	50	ER32	5.2

★以上規格均不含扳手、筒夾及拉釘，如有需要請另外訂購。
The above model does not contain spanners, collets and pull studs,please order them if necessary.

ER螺母 ER NUT P295 | ER筒夾 ER COLLET P294 | 扳手 SPANNER P295 | 拉釘 PULL STUDS P306

KPU鑽夾頭刀柄– BT柄
KPU DRILL CHUCK HOLDERS–BT(MAS403) SHANK



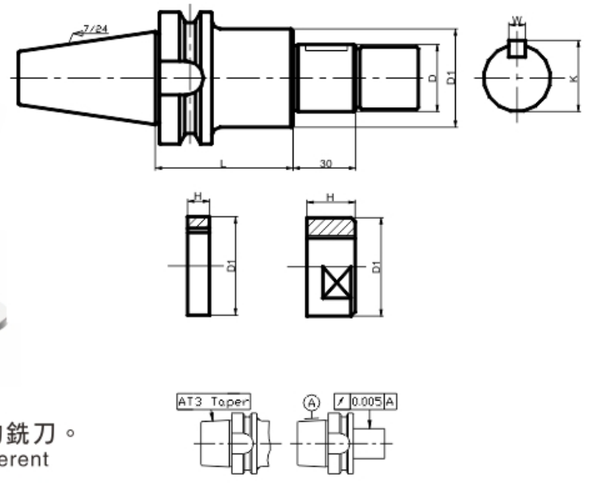


訂貨型號 Order Code	L	ØD	夾持範圍Ød Clamping range	G	重量(Kg) Weight
BT30–KPU08	75	36	0.5–8	M12	0.8
–KPU13	91	50	0.5–13		1.2
BT40–KPU08	80	36	0.5–8	M16	1.3
–KPU13	95	50	0.5–13		1.8
–KPU16	113	57	3–16		2.3
BT50–KPU13	105	50	0.5–13	M24	4.4
–KPU16	110	57	3–16		4.7

SCA 側銑刀刀柄 - BT柄
SCA SIDE MILLHOLDERS - BT(MAS403) SHANK

Evermore®



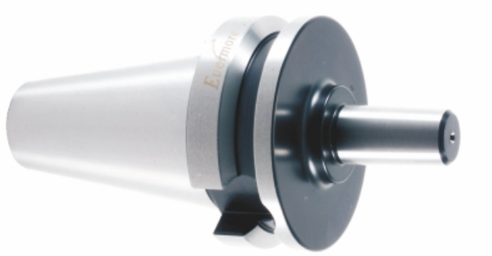


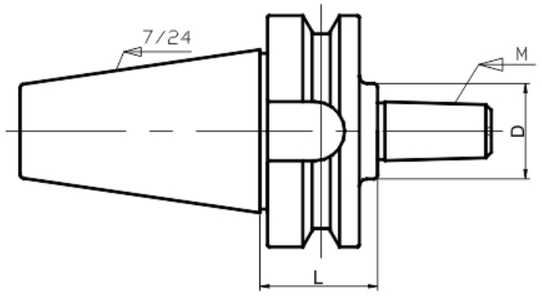
▲更換不同厚度的墊片可夾持不同厚度的銑刀。
Replace different collars,you can clamp different thicknesses on the mill tool.

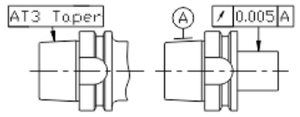
訂貨型號 Order Code	ØD(h6)	L	ØD1	H	K	W	重量(Kg) Weight
BT40–SCA16–90	16	90	26	5/10/20	17.2	4	1.5
BT40–SCA22–75	22	75	34		23.6	6	1.8
–120		120					2.1
–SCA27–75	27	75	40		29	7	2.1
–120		120					2.6
–SCA32–90	32	90	46		34	8	2.7
–SCA40–90	40	90	55		42.5	10	3.4
–SCA25.4–75	25.4	75	40		27.78	6.35	2.0
–120		120					2.5
BT50–SCA22–90	22	90	34	5/10/20	23.6	6	4.5
–135		135					4.9
–SCA27–90	27	90	40		29	7	4.8
–135		135					5.4
–SCA32–135	32	135	46		34	8	6.1
–SCA25.4–90	25.4	90	40		27.78	6.35	4.8
–135		135					5.3

B/JTA 型錐度鑽夾頭刀柄 - BT柄
B/JTA TAPER DRILL HOLDERS - BT(MAS403) SHANK

Evermore®





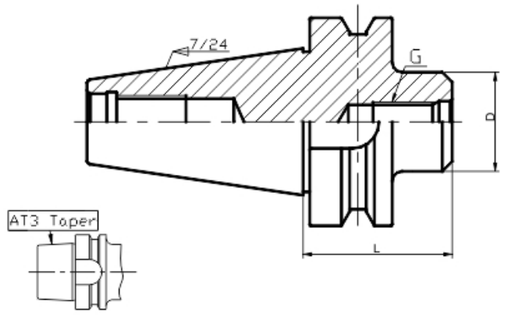


訂貨型號 Order Code	錐號 M	L	Ø D	重量(Kg) Weight
BT40–B16–35	B16	34	26	1.1
–JT6–45	JT6	45		1.2
BT50–B16–45	B16	45	26	3.8
–105		105		4.5

杠杆表刀柄 - BT柄
LEVER GUAGE HOLDERS - BT(MAS403) SHANK

Evermore®

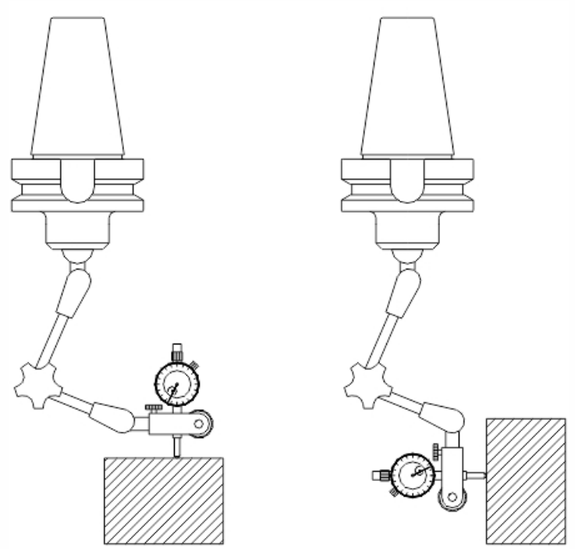




訂貨型號 Order Code	L	ØD	G	重量(Kg) Weight
BT40–M8	47	30	M8	1.1
BT50–M8	58	30	M8	3.6

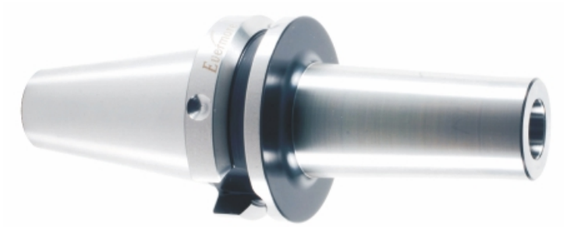
※此刀柄不包含杠杆表及表座，如需要配置表座，請在訂購時說明。
The holders do not come with lever gauges and gauge holders, please indicate what you require when ordering.

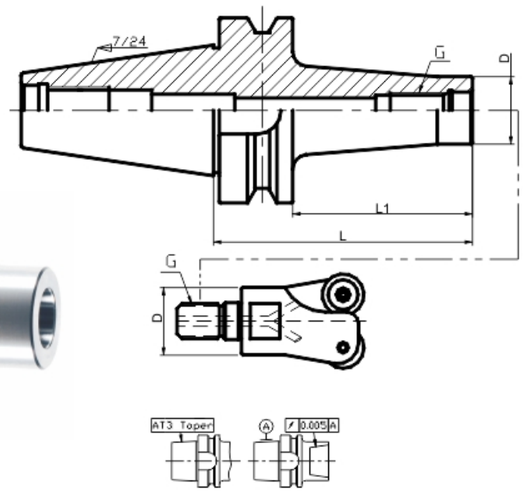
使用圖例：
ILLUSTRATION



EM 小銑頭刀柄 - BT柄
EM SMALL MILLING CUTTER HOLDERS - BT(MAS403) SHANK

Evermore®





訂貨型號 Order Code	L	L1	ØD	G	重量(Kg) Weight
BT40–EM08–80	80	53	13.8	M8	1.1
–100	100	73			1.2
–EM10–80	80	53	18.5	M10	1.1
–100	100	73			1.2
–EM12–80	80	53	23	M12	1.2
–100	100	73			1.3
–EM16–80	80	53	30	M16	1.3
–100	100	73			1.4
BT50–EM08–100	100	62	13.8	M8	3.8
–150	150	112			3.9
–EM10–100	100	62	18.5	M10	3.9
–150	150	112			4.0
–EM12–100	100	62	23	M12	3.9
–150	150	112			4.1
–EM16–100	100	62	30	M16	4.0
–150	150	112			4.3

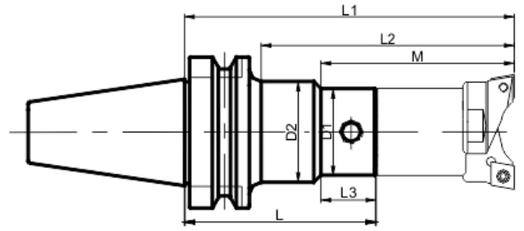
★以上規格均不含小銑頭，如有需要請另外訂購。
The above model does not contain small milling cutters, please order them if necessary.

小銑頭 SMALL MILLING CUTTER P81

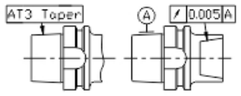
ECK 鏜刀刀柄 - BT柄
ECK BORING HOLDERS - BT(MAS403)

Evermore®





※所有鏜刀刀柄系列產品均採用模組化的接口設計，端面採用特殊的角度設計，使鏜刀頭裝配時能很緊密地與刀柄本體連接在一起，從而達到高剛性。
All boring head shank series are designed to have modularized block connections.Special angles in the contacting surfaces make it possible for a firm connection between the boring head and shank,thus improving its rigidity.



訂貨型號 Order Code	ø D1	ø D2	M	L	L1	L2	L3	重量 Weight
BT30–ECK0–60	21	——	77	60	102	77	——	0.5
–80	21		97	80	122	97		0.6
–ECK1–60	23		77	60	102	77		0.5
–ECK2–60	29		81	60	106	81		0.7
–100	29		121	100	146	121		0.8
–ECK3–60	37		90	60	115	90		0.9
–100	37		130	100	155	130		1.0
–ECK4–60	48		95	60	120	95		1.1
–100	48		135	100	160	135		1.2
–ECK5–65	60		115	65	140	115		1.2
BT40–ECK0–60	21	——	70	60	102	70	——	1.1
–80	21		90	80	122	90		1.2
–ECK1–60	23		70	60	102	70		1.1
–80			90	80	122	90		1.2
–100		36	102	100	142	110	60	1.2
–ECK2–80	29	——	94	80	126	94	——	1.2
–100			114	100	146	114		1.3
–125		40	122	125	171	139	76	1.5
–ECK3–100	37	——	123	100	155	123	——	1.5
–125			148	125	180	148		1.7
–ECK4–100	48		128	100	160	128		1.8
–125			153	125	185	153		2.1
–ECK5–100	60		143	100	175	143		2.1
–125			168	125	200	168		2.8
–ECK6–100	80		158	100	190	158		2.9

續表>>
Continue

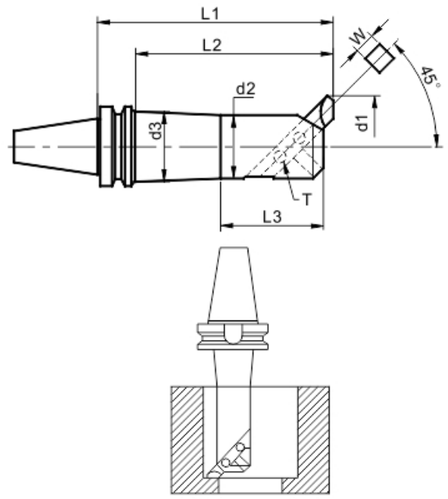
★以上所有規格鏜刀刀柄均不含鏜刀頭及拉釘，如有需要請另外訂購。
The above models do not include boring heads and pull studs,please order them separately if necessary.
★當加工孔深超過直徑的4倍時，請選用ECK抗震深孔鏜刀柄。
When the depth of the hole L/D>4.please use ECK deep hole boring holders .

鏜刀頭 BORING HEAD P1
拉釘 PULL STUDS P306

續表>>
Continue

訂貨型號 Order Code	ø D1	ø D2	M	L	L1	L2	L3	重量 Weight
BT50 –ECK0–80	21		79	80	122	79		3.6
–100	21		99	100	142	99		3.7
–ECK1–100	23		99	100	142	99		3.8
–ECK2–100	29		103	100	146	103		3.9
–125			128	125	171	128		4.0
–ECK3–100	37		112	100	155	112		4.0
–125			137	125	180	137		4.2
–150			162	150	205	162		4.5
–ECK4–100	48	——	117	100	160	117	——	4.2
–150			167	150	210	167		5.1
–200			217	200	260	217		5.4
–ECK5–125	60		157	125	200	157		5.1
–150			182	150	225	182		5.2
–200			232	200	275	232		6.5
–250			282	250	325	282		7.3
–300			332	300	375	332		7.5
–ECK6–125	80		172	125	215	172		6.9
–150			197	150	240	197		7.1
–200			247	200	290	247		8.5
–250			297	250	340	297		9.9
–300			347	300	390	347		11.3

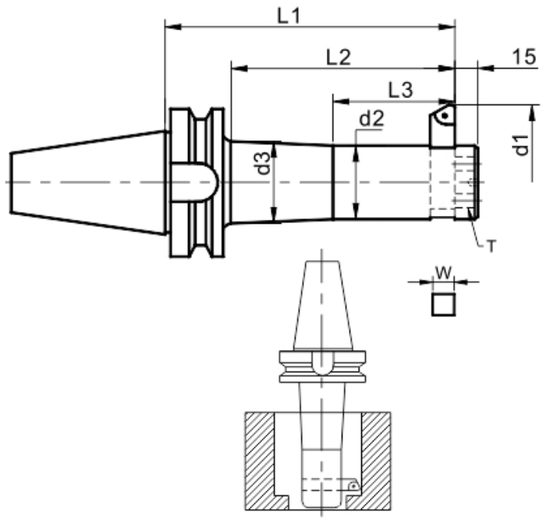




※鏜肓孔專用
※可選用捨棄式刀具或焊刃刀具
Particularly suitable for boring blind holes.
Throw–away tools or welded tools are available for choice.

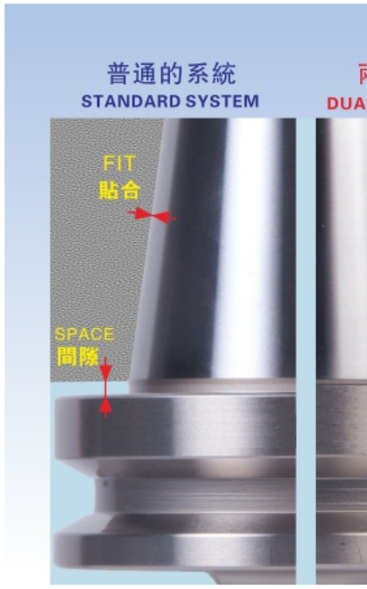
訂貨型號 Order Code	d1 最小加工徑 Min. Machining diameter	d1 最大加工徑 Max. Machining diameter	d2	d3	L1	L2	L3	W	T	重量Kg Weight
BT40–BSA25–120	29	38	20	22	120	90	35	8	M6	1.2
–BSA30–150	30	42	24	26	150	120	40			1.4
–BSA38–165	38	52	30	33	165	135	50	10	M8	1.7
–BSA42–165	42	56	34	37						2.0
–BSA50–165	50	65	40	44			65	13	M10	2.3
–BSA62–180	62	90	50	56	180	150	80	16		2.4
–BSA72–180	72	110	60	61			95	19		3.9
–BSA90–180	90	125	75	50			110		M12	5.2
BT50–BSA25–135	25	38	20	22	135	92	35	8	M6	4.2
–BSA30–165	30	42	24	26	165	122	40			4.4
–BSA38–180	38	52	30	33	180	137	50	10	M8	4.8
–BSA42–210	42	56	34	37	210	167	60			5.0
–BSA50–180	50	65	40	44	180	137	65	13	M10	5.4
–BSA50–240	50	65	40	44	240	197	65			5.7
–BSA62–195	62	90	50	56	195	152	80	16		6.2
–BSA62–270	62	90	50	56	270	227	80			7.6
–BSA72–195	72	110	60	66	195	152	95	19		7.0
–BSA72–285	72	110	60	66	285	242	95			9.3
–BSA90–210	90	125	75	80	210	167	110		M12	9.2
–BSA90–300	90	125	75	80	300	257	110			12.3
–BSA105–195	105	160	90	94	195	152	110	25		10.7
–BSA105–285	105	160	90	94	285	242	130			15.0
–BSA130–255	130	190	110	80	255	212	120			14.5





※鏜通孔專用
※可選用捨棄式刀具或焊刃刀具
※適用於毛坯粗加工
Suitable for boring through holes.
Throw-away tools or welded tools are available for choice.
Suitable for rough machining on blanks.

訂貨型號 Order Code	d1		d2	d3	L1	L2	L3	W	T	重量Kg Weight
	最小加工徑 Min. Machining diameter	最大加工徑 Max. Machining diameter								
BT40-BSB25-120	25	52	20	22	117	88	35	8	M6	1.2
-BSB38-150	38	70	30	33	147	118	55		M8	1.7
-BSB50-165	50	90	40	44	162	133	70	13	M10	2.5
-BSB62-180	62	115	50	—	177	148	—	16		3.6
-BSB90-180	90	150	75	—	177	150	—	19	M12	5.9
BT50-BSB25-135	25	52	20	22	130	87	35	8	M6	4.3
-BSB38-180	38	70	30	32	175	132	55	10	M8	4.9
-BSB50-180	50	90	40	—	175	127	70	13	M10	5.5
-BSB50-240	50	90	40	44	235	192	70			5.8
-BSB62-195	62	115	50	—	190	147	—	16		6.4
-BSB62-270	62	115	50	—	265	222	—			7.8
-BSB72-195	72	135	60	66	190	147	95	19		7.3
-BSB72-285	72	135	60	66	280	237	95			9.6
-BSB90-210	90	150	75	—	205	162	—		M12	9.7
-BSB90-300	90	150	75	—	295	252	—			12.8
-BSB105-195	105	190	90	70	190	152	85	25		11.4
-BSB105-285	105	190	90	70	280	242	85			15.7
-BSB130-255	130	260	110	70	250	212	55			14.1

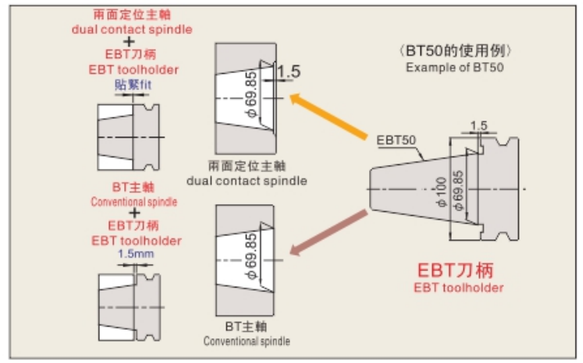


- EBT刀柄利用兩面定位主軸的彈性變形實現兩面定位：
  1、防止高速轉動時刀柄軸向尺寸的變化。
  2、刀柄及刃具的壽命提高。
  3、防止重切削時因振動使刀柄錐面磨損、變色。
  4、自動換刀時的重複精度提高。
  5、加工表面的粗糙度、尺寸精度提高。
  6、鏜孔加工的圓度提高。

- The system offers simultaneous dual contact between the machine spindle face and EBT toolholder flange face,as well as the machine spindle taper and long toolholder taper shank:
  1、Elimination of Z-axial movement at high speeds.
  2、Extended tool life.
  3、Prevention of fretting corrosion caused by heavy cutting.
  4、Improvement of ATC repeatability.
  5、Improved surface finish & dimensional accuracy.
  6、Improved roundness of boring operation.

兩面定位系統依靠主軸與刀柄的完美組合，使兩面發揮最大的功能。EBT刀柄也可以用於原有的BT規格的機床主軸，不過此時並沒有兩面定位功能。如果要發揮兩面定位功能，需要同時使用兩面定位主軸與兩面定位刀柄。另外需要注意的是，有些由普通刀柄和墊片組成的兩面定位刀柄可能對機床主軸造成傷害。

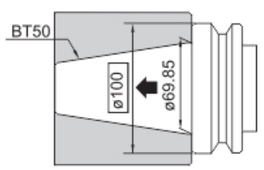
The dual contact system play the greatest function relying on the perfect combination of the dual contact spindle and the dual contact holder.
EBT toolholders can be used on existing JIS-BT standard machine spindles,in this case,simultaneous contact can not be attained.
Simultaneous use of the dual contact spindle and the dual contact holder is the only way to make the system function. In addition it is important to note,some holder consisting of a standard holder and a gasket could damage to the spindle.



根據力學理論，基準直徑越大剛性越强。普通刀柄的基準直徑是錐柄大端直徑，而EBT兩面定位刀柄的基準直徑是法蘭的外徑，很顯然剛性增强了。

BT30	ø31.75→ø46
BT40	ø44.45→ø63
BT50	ø69.85→ø100

A conventional steep taper toolholder is supported on a reference diameter called the gauge face.On the contrary, a EBT toolholder is supported on the flange face,which brings remarkable improvement to rigidity.



1.跳動精度＜0.005mm，
2.最高轉速可達30000rpm;G2.5，
3.沒有螺母的內藏式夾頭設計，剛性强，穩定性高。

1.run-out＜0.005mm,
2.max speed 30000rpm G2.5,
3.non-nut and built-in collet design, it features high rigidity,stable clamping.



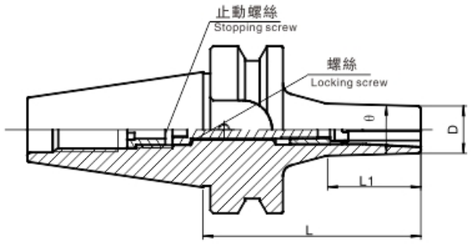


圖1 FIG1

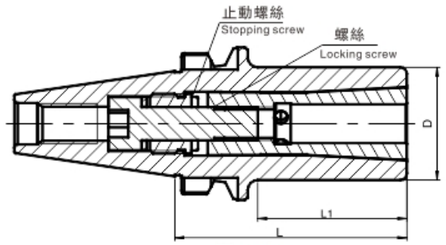
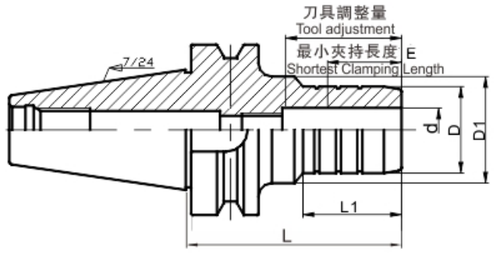


圖2 FIG2

EC-E筒夾 EC-E collet P301

訂貨型號 Order Code	夾持範圍 Clamping range	圖號 FIG	θ	L	L1	D	筒夾 Collet	螺絲 Locking screw	止動螺絲 Stopping screw	扳手 Spanner
EBT30-EC06-60	3~6	1	3°	60	26	13	EC06	M5L50	EC-M10	4 x 100
EBT30-EC06-90	3~6	1	3°	90	50	13	EC06	M5L50	EC-M10	4 x 100
EBT30-EC08-130	3~8	1	3°	130	93	22	EC08	M6L75	EC-M10	4 x 100
EBT30-EC12-70	3~12	2	--	70	45	34	EC12	M10L35	EC-M18	8 x 50
EBT30-EC12-80	3~12	2	--	80	55	34	EC12	M10L35	EC-M18	8 x 50
EBT40-EC06-60	3~6	1	3°	60	26	13	EC06	M5L50	EC-M10	4 x 100
EBT40-EC06-90	3~6	1	3°	90	45	13	EC06	M5L50	EC-M10	4 x 100
EBT40-EC06-120	3~6	1	3°	120	60	13	EC06	M5L95	EC-M10	4 x 100
EBT40-EC06-150	3~6	1	3°	150	76	13	EC06	M5L95	EC-M10	4 x 100
EBT40-EC08-90	3~8	1	3°	90	53	22	EC08	M6L35	EC-M12	5 x 150
EBT40-EC08-120	3~8	1	3°	120	65	22	EC08	M6L65	EC-M12	5 x 150
EBT40-EC10-90	3~10	2	--	90	51	28	EC10	M8L30	EC-M16	6 x 150
EBT40-EC10-120	3~10	2	--	120	81	28	EC10	M8L30	EC-M16	6 x 150
EBT40-EC12-70	3~12	2	--	70	35	34	EC12	M10L35	EC-M18	8 x 100
EBT40-EC12-80	3~12	2	--	80	45	34	EC12	M10L35	EC-M18	8 x 100
EBT40-EC12-90	3~12	2	--	90	55	34	EC12	M10L35	EC-M18	8 x 100
EBT40-EC12-120	3~12	2	--	120	85	34	EC12	M10L35	EC-M18	8 x 100
EBT40-EC12-150	3~12	2	--	150	110	34	EC12	M10L35	EC-M18	8 x 150
EBT50-EC10-110	3~10	2	--	110	57	28	EC10	M8L30	EC-M16	6 x 150
EBT50-EC10-150	3~10	2	--	150	77	28	EC10	M8L30	EC-M16	6 x 200
EBT50-EC12-110	3~12	2	--	110	57	34	EC12	M10L35	EC-M18	8 x 150
EBT50-EC12-150	3~12	2	--	150	80	34	EC12	M10L35	EC-M18	8 x 200





訂貨型號 Order Code	d	ØD	ØD1	L	L1	刀具調整量 Tool Adjustment H	最小夾持長度 Shortest clampinglength E	重量(Kg) Weight
EBT30-HDC06-75	6	26	45.4	75	40	28-50	28	0.8
-HDC08-75	8	28			41			0.8
-HDC10-75	10	30	46		43	35-55	33	0.8
-HDC12-75	12	32	48			38-60	38	1.0
-HDC16-75	16	38	50		47	43-70	43	1.0
-HDC20-75	20	42	55		48	46-70		1.0
-HDC25-105	25	-	63	105	——	52-80	52	1.4
-HDC32-105	32	-	75			56-80	56	1.3
EBT40-HDC06-90	6	26	45	90	43	28-50	28	1.4
-HDC08-90	8	28	45					1.4
-HDC10-90	10	30	45			33-55	33	1.4
-HDC12-90	12	32	48		43	38-60	38	1.5
-HDC16-90	16	38	50		47	43-70	43	1.5
-HDC20-90	20	42	55					1.6
-HDC25-90	25	-	63	90	——	52-80	52	1.6
-HDC32-90	32	-	72	90	——	56-80.5	56	1.7
EBT50-HDC06-105	6	26	45	105	47	80-120	28	4.4
-HDC08-105	8	28	45					4.4
-HDC10-105	10	30	45				33	4.4
-HDC12-105	12	32	48				38	4.5
-HDC16-105	16	38	50		51		43	4.6
-HDC20-105	20	42	55			71-111		4.7
-HDC25-105	25	63	——		——		52	5.2
-HDC32-105	32	72					56	5.8

⚠ 注意CAUTION

▶刀具調整量H尺寸是指在使用可調螺絲情況下的調整量。
The adjustable length of the tool is H dimension when using the adjustable screws.
▶最小夾持長度不得小於表中E值，否則容易損壞刀柄。
The minimum clamping length can not be less E dimension,it will break the holder.
▶禁止無刀狀態下進行空夾。
It is forbidden to clamp without a tool

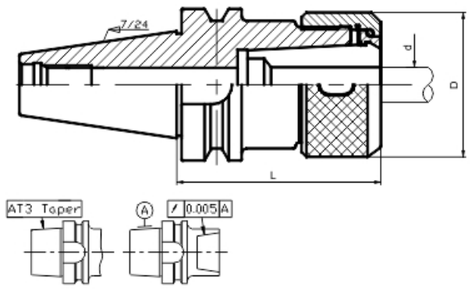
油壓刀柄變徑套 Reduce sleeve P298

▶ OZ刀柄內孔採用單邊1/10角度厚壁設計，夾持力是普通筒夾刀柄的2-3倍。
OZ holder inner hole use single-side band 1/10 angle thick wall design, clamping is up to three times more powerful than ordinary ones.

▶ 可用於粗銑、精銑、鑽孔、鉸孔、攻牙等加工，因其夾持力大的結構特性，所以特別適合用於粗加工。
Suitable for rough milling, drilling, reaming, taping and so on. because of the extraordinary clamping power , it is especially suitable for rough processing.

▶ 螺母中採用了鋼球滾動機構，減小筒夾磨損，提高夾持力。
The nut that is used with steel ball rolling mechanism, reduce the collet wear, which improve the clamping power.



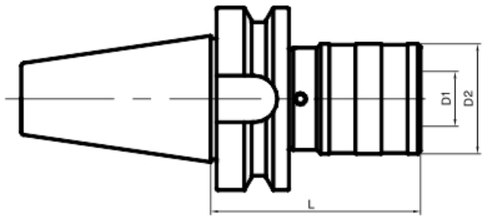


訂貨型號 Order Code	L	ØD	夾持範圍Ød Clamping range	重量(Kg) Weight
EBT30-OZ25-70	70	60	6~25	0.9
EBT40-OZ25-80	80	60	6~25	1.5
-100	100			2.0
-OZ32-80	80	78	6~32	2.0
EBT50-OZ25-90	90	60	6~25	4.1
-150	150			5.4
-OZ32-90	90	78	6~32	4.6
-150	150			6.4

★以上規格均不含扳手、筒夾及拉釘，如有需要請另外訂購。
The above model does not contain spanners, collets and pull studs,please order them additionally if necessary.

OZ螺母 OZ NUT P297
OZ筒夾 OZ COLLET P296
扳手 SPANNER P297
拉釘 PULL STUDS P306



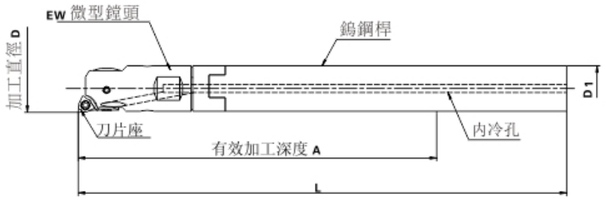


※有套裝產品可供選擇，可根據需要單支或整套訂購。
The whole set or one of them can be ordered separately.
※如需整套訂購，請在訂購時說明所需筒夾的型號。
If you need whole set,please choose collet type.

訂貨型號 Order Code	攻絲範圍 Tapping range	L	ØD1	ØD2	伸縮長度 Dilation length 壓縮 Compression	伸縮長度 Dilation length 伸長 Extension	可使用筒夾型號 Collet type	重量(Kg) Weight
EBT30-WF12	M3-M12	67	19	39	7.5	7.5	TC312 TC312L TC312R	0.7
-WF20	M8-M20	94	31	55	12.5	12.5	TC820 TC820L TC820R	1.2
EBT40-WF12	M3-M12	72	19	39	7.5	7.5	TC312 TC312L TC312R	1.3
-WF20	M8-M20	94	31	55	12.5	12.5	TC820 TC820L TC820R	1.6
EBT50-WF12	M3-M12	83	19	39	7.5	7.5	TC312 TC312L TC312R	3.9
-WF20	M8-M20	105	31	55	12.5	12.5	TC820 TC820L TC820R	4.3
整套 WHOLE SET								
EBT30-WF12T	M3-M12	67	19	39	7.5	7.5	TC312 TC312L TC312R	
-WF20T	M8-M20	94	31	55	12.5	12.5	TC820 TC820L TC820R	
EBT40-WF12T	M3-M12	72	19	39	7.5	7.5	TC312 TC312L TC312R	
-WF20T	M8-M20	94	31	55	12.5	12.5	TC820 TC820L TC820R	
EBT50-WF12T	M3-M12	83	19	39	7.5	7.5	TC312 TC312L TC312R	
-WF20T	M8-M20	105	31	55	12.5	12.5	TC820 TC820L TC820R	

快換式絲攻筒夾 Quick change tap collets P286





訂貨型號 Order Code	加工直徑 Boring range ØD	L	A	ØD1	刀片座 Insert base	刀片型號 Insert type	刀片螺絲 Insert screw	扳手 Wrench	刀桿型號 Shank model
SC14–EW15–155	15–18	195	155	14	EI15	WC..020102	CSTB–2	T6	SC14– M6–160
SC16–EW18–100	18–22	140	100	16					SC16–M10–105
SC16–EW18–135		175	135						SC16–M10–140
SC16–EW18–175		215	175						SC16–M10–180

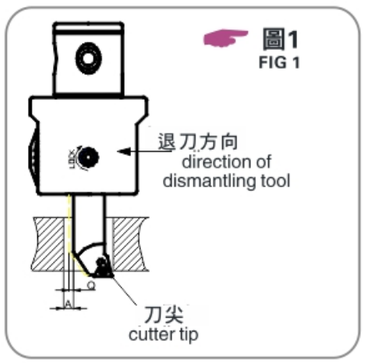
★ 鎢鋼桿與精鏜頭是分體結構，需要單獨訂購。
The tungsten carbide steel shank and the fine boring head is not one, must be ordered separately.

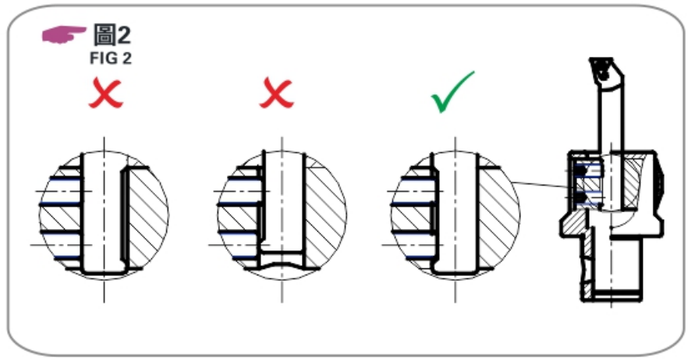
★ 不附帶刀片，請另外採購。
The inserts need another procurement.

⚠ 注意事項 Attention

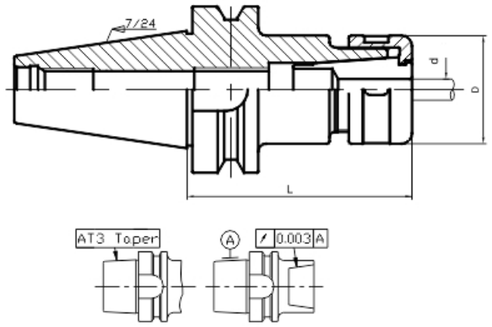
1. 鎖緊螺絲鎖緊時請勿轉動刻度盤，以免造成調節機構損壞。
2. 裝刀時請注意退刀方向和退刀距離Q<A，否則會損壞刀具和機床。（圖1）
3. 使用合金鋼刀桿時兩顆鎖緊螺絲必須壓住刀桿上的鎖緊平面，否則會壓壞配合面造成刀桿取出困難。（圖2）
4. 鏜孔時會選擇偏移中心最小的刀桿，有利於高速切削。
5. 鏜孔時請選擇適合的刀片，合理的切削用量。具體請參考相關數據。
6. 鏜孔時發生震刀現象：可能是主軸回轉不平衡，則應降低轉速。
   內孔粗糙：則減少進給，減小刀尖R角，增大主軸轉速。
   內孔有錐度：應注意底孔餘量是否太多或太少，太多應加大底孔，太少時應減小底孔或減小刀尖R角，提高進給。
7. 請保持本產品清潔，滑動部件潤滑，注意防銹，不用時請用防銹油防銹。

1.When tightening the setting screws,please do not turn the graduation disc in order to avoid damaging the regulating mechanism.
2.When mounting the tool,please pay attention to the direction of dismantling tool and also the distance of dismantling tool Q<A,otherwise,it may damage the tools and the machine.(FIG 1)
3.When using alloy steel shanks,the two setting screws must be in good contact with tightening surface on the shank,otherwise,it may damage the assembly and result in difficulty in removing the shank.(FIG)2
4.For boring operation,please choose the shank that is the least off–center in order to facilitate high speed machining.
5.For boring operation,please select suitable inserts and optimal cutting volume according to the reference data.
6.When vibration is taking place during boring operation,please reduce the speed since it may be caused by improper balance of spindle rotation.In case of a rough bore,please reduce the feed and reduce radius on the cutter tip.You can also increase the spindle speed.If the bore has a taper,please notice if the bottom bore's remaining volume is excessive or inadequate.Enlarge the bottom bore if it is excessive.Reduce bottom bore/reduce radius on the cutter tip if it is inadequate.
7.Please keep this product clean and lubricate the moving parts.Anti–rust measures are necessary when the product is not in use.









訂貨型號 Order Code	L	ØD	夾持範圍 Ød Clamping range	重量(Kg) Weight
EBT30–SD06– 60	60	20	1.75~6.0	0.5
– 90	90			0.6
–SD10– 60	60	29	1.75~10.0	0.6
– 90	90			0.7
–SD16– 60	60	41	2.75~16	0.6
– 90	90			0.9
–SD20– 90	90	50	4–20	0.7
–SD25– 90	90	55	6–25	0.9
EBT40–SD06– 60	60	20	1.75~6.0	1.0
–90	90			1.1
–120	120			1.2
–SD10– 60	60	29	1.75~10.0	1.1
–90	90			1.3
–120	120			1.4
–150	150			1.6
–SD16– 60	60	41	2.75~16	1.2
–90	90			1.4
–120	120			1.7
–150	150			1.9
–SD20– 60	60	50	4–20	1.3
–90	90			1.7
–120	120			2.0
–150	150			2.3
–SD25– 90	90	55	6~25	1.7
–120	120			2.2
–150	150			2.7
EBT50–SD06–100	100	20	1.75~6.0	3.8
–150	150			4.0
–SD10–100	100	29	1.75~10.0	3.9
–150	150			4.2

★ 以上規格均不含筒夾及拉釘，如有需要請另外訂購。
The above model does not contain collets and pull studs,please order them if necessary

續表>>
Continue

★ 可更換使用SDP螺母
The SDP nut can replace the SD nut.

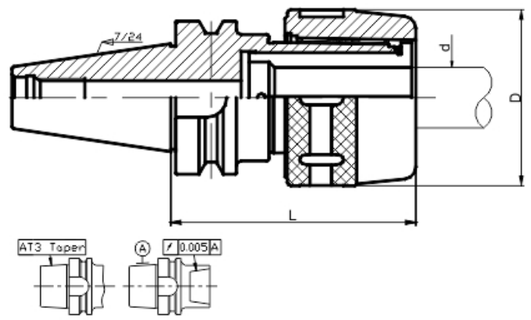
SD螺母 SD NUT P291 | SD筒夾 SD COLLET P290 | 扳手 SPANNER P291 | 拉釘 PULL STUDS P306 | SDP 螺母 SDP NUT P291 | SDP扳手 SDP SPANNER P292

續表>>
Continue

訂貨型號 Order Code	L	D	夾持範圍 Ød Clamping range	重量(Kg) Weight
EBT50–SD16–100	100	41	2.75~16	3.9
–150	150			4.3
–200	200			4.7
–SD20–100	100	50	4–20	4.2
–150	150			4.8
–200	200			5.3
SD25–100	100	55	6~25	4.2
–150	150			5.0
–200	200			5.9

EMC强力銑刀刀柄– EBT柄
EMC POWERFUL MILL HOLDERS–EBT SHANK



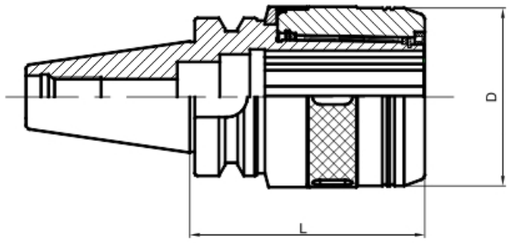


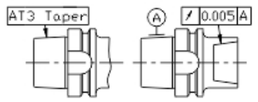
訂貨型號 Order Code	L	ØD	夾持範圍 Ød Clamping range	重量(Kg) Weight
EBT30–EMC20–80	80	53.5	6–20	0.9
EBT40–EMC20–80	80	53.5	6–20	1.7
–135	135			2.0
–EMC32–90	90	73.5	6–32	2.2
–120	120			2.9
EBT50–EMC32–105	105	73.5	6–32	5.0
–135	135			5.9
–165	165			6.7
–EMC42–115	115	87.5	6–42	5.7

★ 單獨訂購均不帶筒夾及扳手，如有需要請另外訂購，也可訂購套裝產品（附帶筒夾7個及扳手1把）。
The collet and spanner are not include,please order them additionally if necessary.The tool package of whole set is available on request.(include a spanner and 7 collets)

EMC筒夾 EMC COLLET P292 | 扳手 SPANNER P292 | 拉釘 PULL STUDS P306







訂貨型號 Order Code	L	ØD	夾持範圍ød Clamping range	重量(Kg) Weight
EBT30–PMC20–80	80	53.5	6–20	3.9
EBT40–PMC20–80	80	53.5	6–20	4.3
–135	135			4.7
EBT40–PMC32–105	105	72	6–32	4.2
–120	120			4.8
EBT50–PMC32–105	105	72	6–32	5.3
–135	135			4.2
–165	165			5.0
–PMC42–115	115	87.5	6–42	5.9

防塵
Dust proof

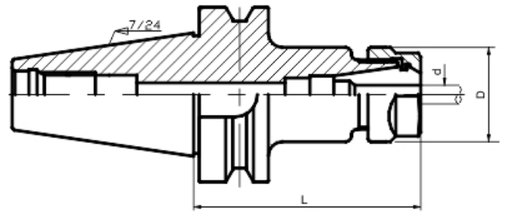
前套與本體結合採用防塵罩與O形圈雙重防塵，防塵效果好，能有效地避免切屑進入內部而損壞內部零部件，從而影響刀柄使用與加工精度。

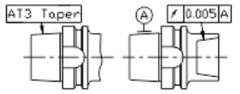
The connection between the tool cutter and the holder has an O ring and a dust proof cover .This design can prevent chips,dust,dirt and so on from getting into the holder.It also avoids filings from damaging the part, and affecting product precision,thus assuring machining accuracy.

★ 單獨訂購均不帶筒夾及扳手，如有需要請另外訂購，也可訂購套裝產品（附帶筒夾7個及扳手1把）。
The collet and spanner are not include,please order them additionally if necessary.The tool package of whole set is available on request.(include a spanner and 7 collets)

EMC筒夾 P292 EMC COLLET
扳手 P292 SPANNER
拉釘 P306 PULL STUDS







訂貨型號 Order Code	L	ØD	夾持範圍ød Clamping range	重量(Kg) Weight
EBT30–ER11–60	60	19	2.5–7	0.5
–100	100			0.6
–ER16–45	45	30	2.0–10	0.5
–60	60			0.6
–100	100			0.7
–ER20–60	60	34	2.0–13	0.5
–100	100			0.8
ER25–60	60	42	2.0–16	0.6
–100	100			1.0
–135	135			1.2
–ER32–60	60	50	2.0–20	0.6
–100	100			0.9
EBT40–ER11–60	60	19	2.5–7	1.1
–100	100			1.2
–ER16–60	60	30	2.0–10	1.1
–100	100			1.3
–150	150			1.5
–ER20–60	60	34	2.0–13	1.1
–100	100			1.2
–150	150			1.7
–200	200			2.0

續表>>
Continue

★ 以上規格均不含扳手、筒夾及拉釘，如有需要請另外訂購。
The above model does not contain spanners, collets and pull studs,please order them additionally if necessary.

ER螺母 P295 ER NUT
ER筒夾 P294 ER COLLET
扳手 P295 SPANNER
拉釘 P306 PULL STUDS

續表>>
Continue

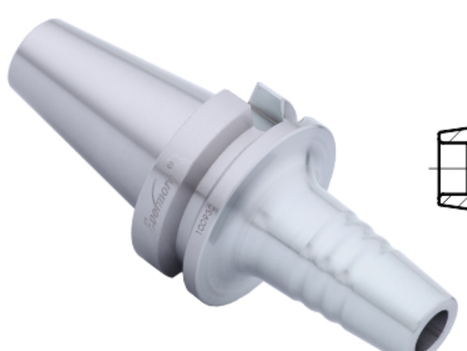
訂貨型號 Order Code	L	ØD	夾持範圍ød Clamping range	重量(Kg) Weight
EBT40–ER25–60	60	42	2.0–16	1.1
–100	100			1.5
–135	135			1.9
–150	150			2.0
–200	200			2.4
–ER32–60	60	50	2.0–20	1.2
–100	100			1.7
–150	150			2.4
–200	200			3.1
–300	300			4.4
–ER40–80	80	63	3.0–26	1.4
–100	100			1.7
–150	150			2.4
–200	200			3.1
EBT50–ER16–100	100	30	2.0–10	3.9
–150	150			4.2
–ER20–100	100	34	2.0–13	4.0
–150	150			4.3
–ER25–100	100	42	2.0–16	4.0
–150	150			4.5
–ER32–100	100	50	2.0–20	4.1
–150	150			4.7
–200	200			5.4
–ER40–100	100	63	3.0–26	4.3
–150	150			5.4
–200	200			6.5
EBT30–ER16–60M	60	22	2.0–10	0.5
–80M	80			0.6
–100M	100			0.7
–ER20–80M	80	28	2.0–13	0.6
–100M	100			0.7
EBT40–ER11–100M	100	17.5	2.5–7	1.1
–ER16–100M	100	22	2.0–10	1.2
–150M	150			1.7
–ER20–100M	100	28	2.0–13	1.2
EBT50–ER16–150M	150	22	2.0–10	4.1

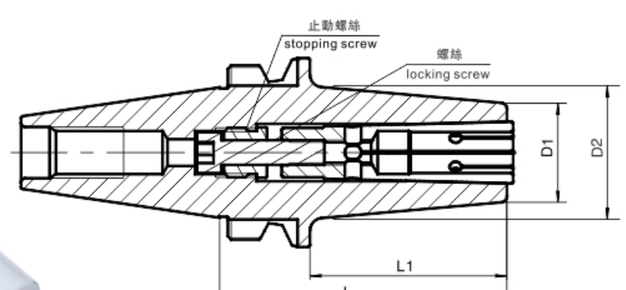
★以上規格均不含扳手、筒夾及拉釘，如有需要請另外訂購。
The above model does not contain spanners, collets and pull studs,please order them if necessary.

ER螺母 ER NUT P295
ER筒夾 ER COLLET P294
扳手 SPANNER P295
拉釘 PULL STUDS P306

1. 跳動精度 < 0.005mm。
2. 適用於銑刀及銑刀同柄徑的鉸刀。
3. 没有螺母的内藏式夾頭設計，剛性强，穩定性高。

1. run–out < 0.005mm,
2. Apply to milling cutter and reamer the same milling shank.
3. non–nut and built–in collet design, it features high rigidity,stable clamping.



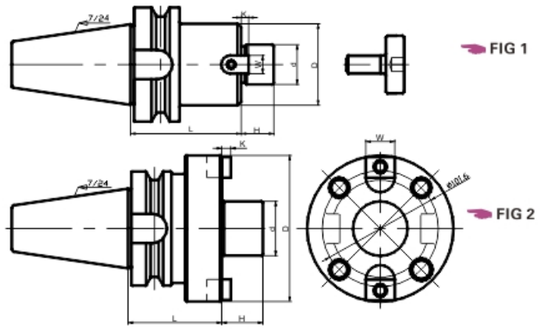


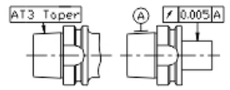
訂貨型號 Order Code	L	L1	D1	D2	筒夾 Collet	螺絲 Locking screw	止動螺絲 Stopping screw
EBT30–UC10–70	70	48	24	30	UC10	M6L25	UC–M12
–UC16–90	90	48	32	40	UC16	M8L30	UC–M18
EBT40–UC10–90	90	63	24	32	UC10	M6L30	UC–M12
–120	120	93	24	36	UC10	M6L30	UC–M12
–150	150	123	24	40	UC10	M6L30	UC–M12
–UC16–90	90	63	32	40	UC16	M8L30	UC–M18
EBT50–UC10–110	110	72	24	36	UC10	M6L30	UC–M12
–200	200	162	24	50	UC10	M6L30	UC–M12
–UC16–120	120	82	32	42	UC16	M8L30	UC–M18

UC筒夾 UC collet P301

▲面銑刀柄端面經特殊研磨，刀盤裝上後能與刀柄緊密貼合，使刀盤能穩固地進行切削，達到最佳的銑削效果。
The face mill holder end face is precisely ground, so that the connection of the tool disk and holder is perfect, it is suitable for rough processing and can achieve optimal cutting performance.



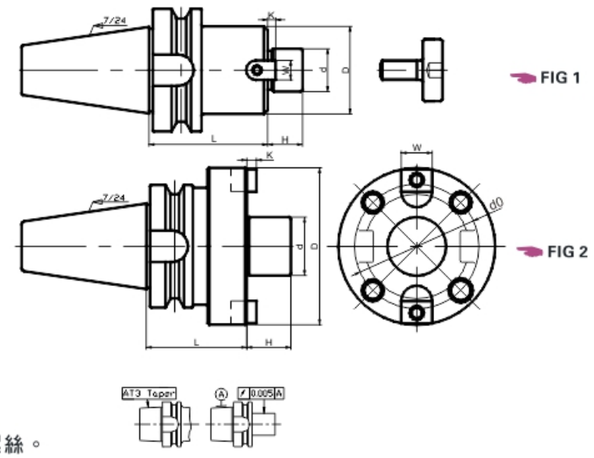




註：帶 “*” 規格為加長型非標產品，如有需要請致電本公司諮詢。
The "*" model is for extension types, it is not a standard product, please order them additionally if necessary.

訂貨型號 Order Code	圖號 FIG	L	⌀d(h6)	⌀D	H	K	W	重量(Kg) Weight
EBT30–FMA25.4–45	1	45	25.4	50	20	5	9.5	0.9
–FMA38.1–60		60	38.1	80	25	9	15.9	2.1
EBT40–FMA25.4–45	1	45	25.4	50	20	5	9.5	1.4
–60		60						1.7
–105		105						2.4
–150		150						3.1
–200		200						3.8
–250*		250						4.6
–FMA31.75–45		45	31.75	60	22	7	12.7	1.6
–60		60						2.0
–90		90						2.7
–FMA38.1–60		60	38.1	80	25	9	15.9	2.5
EBT50–FMA25.4–45	1	45	25.4	50	20	5	9.5	4.0
–90		90						4.6
–105		105						4.9
–150		150						5.6
–200		200						6.4
–250*		250						7.2
–FMA31.75–45		45	31.75	60	22	7	12.7	4.1
–75		75						4.8
–105		105						5.5
–150		150						6.4
–200		200						7.6
–FMA38.1–50	1	48	38.1	80	25	9	15.9	4.5
–75		75						5.6
–FMA50.8–50		51	50.8	100	28	12		5.4
–FMA47.625–80	2	82	47.625	128	32	12.5	25.4	8.2





註：B型使用大頭鎖緊螺絲，C型使用小頭鎖緊螺絲。
The B model uses a big clamping nut, The C model uses a small clamping nut.

訂貨型號 Order Code	圖號 FIG	L	⌀d(h6)	⌀D	⌀d0	H	K	W	重量(Kg) Weight
EBT30–FMB (C) 22–45	1	45	22	48	--	18	5	10	0.8
–100		100							1.5
–FMB (C) 27–60		60	27	60		20	6	12	1.4
–FMB (C) 32–60			32	72		22	7	14	1.8
EBT40–FMB (C) 22–45	1	45	22	48		18	5	10	1.4
–60		60							1.6
–90		90							1.8
–105		105							2.2
–150		150							2.9
–200		200							3.6
–FMB (C) 27–45		45	27	60		20	6	12	1.6
–60		60							2.0
–105		105							3.0
–FMB (C) 32–45		45	32	72		22	7	14	1.9
–60		60							2.3
–105		105							3.5
–FMB (C) 40–70		70	40	80		25	8	16	2.9
–FMB (C) 40F–60	2	60		110	66.7				2.8
–FMB (C) 40M–60				89.3					2.3
EBT50–FMB (C) 22–60	1	60	22	48	--	18	5	10	4.1
–105		105							4.6
–150		150							5.5
–200		200							6.1
–250*		250							6.8
–300*		300							7.5
–350*		350							10.7

註：帶 “*” 規格為加長型非標產品，如有需要請致電本公司諮詢。
The "*" model is for extension types, it is not a standard product, please order them additionally if necessary.

續表>>
Continue

FMB(C) 面銑刀柄 - EBT柄
FMB(C) FACE MILL HOLDERS - EBT SHANK　兩面拘束 DUAL CONTACT

Evermore®

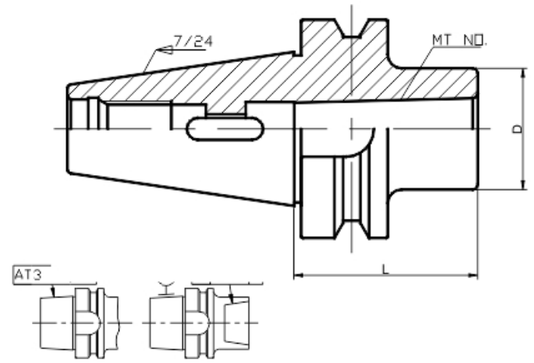
續表>>
Continue

訂貨型號 Order Code	圖號 FIG	L	ød(h6)	øD	ød0	H	K	W	重量(Kg) Weight
EBT50–FMB (C) 22 –200C	1	200	22	58	--	18	5	10	6.1
–250C*		250							6.8
–300C*		300							7.5
–350 C*		350							10.7
EBT50–FMB (C) 27–45	1	45	27	60		20	6	12	4.1
–90		90							5.1
–105		105							5.4
–FMB (C) 32–45		45	32	72		22	7	14	4.3
–75		75							5.2
–105		105							6.2
–150		150							7.6
–FMB 40–45		45	40	80		25	8	16	4.5
–70		70							5.4
–105		105							6.7
–FMB 40F–75	2	75	40	110	66.7	25	8	16	6.6
–FMB40M–75				89.3					5.5
–FMB 60F–75			60	140	101.6		12.5	25.4	8.9
–FMB 60M–75				129.1					7.0

MTA 有扁莫氏錐孔刀柄 - EBT柄
MTA MORE TAPER HOLDERS - EBT SHANK　兩面拘束 DUAL CONTACT

Evermore®



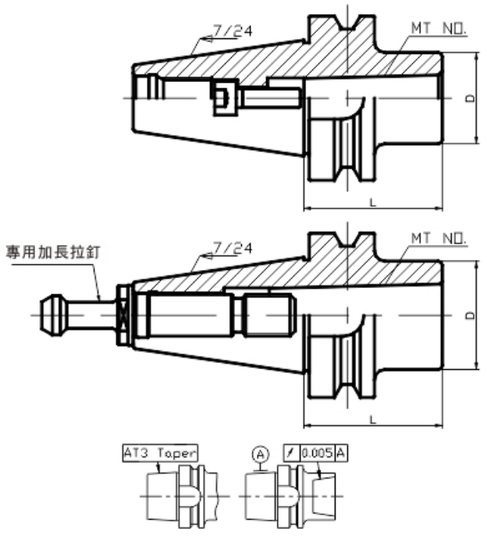


訂貨型號 Order Code	莫氏錐號 MT No .	L	øD	重量(Kg) Weight
EBT30–MTA1–45	1	45	25	0.5
–MTA2–60	2	60	35	0.6
–MTA3–80	3	77	40	0.7
EBT40–MTA1–45	1	41	25	1.0
–120		120		1.3
–MTA2–60	2	60	35	1.1
–120		120		1.6
–MTA3–75	3	72	40	1.2
–135		135		1.8
–MTA4–90	4	90	50	1.4
EBT50–MTA1–45	1	45	25	3.7
–120		120		4.0
–MTA2–45	2	45	35	3.6
–135		135		4.3
–MTA3–45	3	45	40	3.5
–150		150		4.4
–MTA4–75	4	75	50	3.6
–180		180		5.1
–MTA5–105	5	105	65	3.9
–210	5	210	65	4.7
–MTA6–275	6	275	85	4.2

MTA 有扁莫氏錐孔刀柄 - EBT柄 兩面拘束
MTA MORE TAPER HOLDERS - EBT SHANK DUAL CONTACT

Evermore®





訂貨型號 Order Code	圖號 FIG	莫氏錐號 MT NO.	L	ØD	重量(Kg) Weight
EBT30–MTB2–60 *	2	2	60	35	0.7
EBT40–MTB1–45	1	1	45	25	1.1
–MTB2–60		2	60	35	1.2
–MTB3–75		3	75	40	1.3
–MTB4–90 *	2	4	90	50	1.4
EBT50–MTB1–45	1	1	45	25	3.7
–120			120		3.9
–MTB2–45		2	45	35	3.7
–135			135		4.2
–MTB3–60		3	60	40	3.7
–150			150		4.5
–MTB4–75		4	80	50	3.9
–150		4	150	50	4.2
–MTB5–120	1	5	120	65	4.5

★帶 “ * ” 規格附帶MTB專用拉釘。
The “ * ” model contains MTB special pull studs.

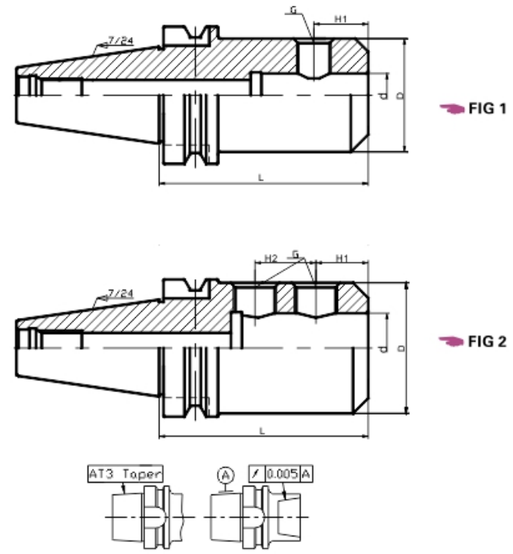
MTB拉釘 P307
MTB PULL STUDS

SL 測固式端銑刀柄 - EBT柄 兩面拘束
SL SIDE LOCK END MILL HOLDERS - EBT SHANK DUAL CONTACT

Evermore®







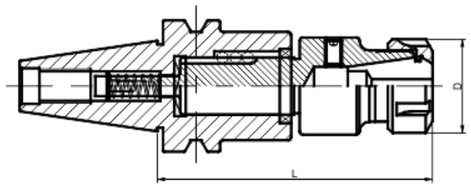
訂貨型號 Order Code	圖號 FIG	L	Ød	ØD	H1	H2	G	重量(Kg) Weight
EBT30–SL20–75	1	75	20	45	25	———	M16×1.5	0.9
–SL25–90	2	90	25	61	24	25	M18×2.0	1.6
EBT40–SL08–75	1	75	8	28	18		M8×1.0	1.2
–SL10–75			10	35	20		M10×1.0	1.3
–SL12–75			12	42	22.5	———	M12×1.5	1.3
–SL16–75		75	16	48	24		M14×1.5	1.6
–SL20–75			20	52	25		M16×1.5	1.6
–SL25–90	2	90	25	61	24	25	M18×2.0	2.1
–SL32–90			32	62		28	M20×2.0	2.0
–SL40–100		100	40	64	30	32	M16×1.5	1.9

續表>>
Continue

續表>>
Continue

訂貨型號 Order Code	圖號 FIG	L	Ød	ØD	H1	H2	G	重量(Kg) Weight
EBT50–SL08–75	1	75	8	28	18	—	M8 × 1.0	3.7
–SL10–75			10	35	20		M10 × 1.0	3.9
–SL12–75			12	42	22.5		M12 × 1.5	3.9
–SL16–90		90	16	48	24		M14 × 1.5	4.1
–SL20–105		105	20	52	25		M16 × 1.5	4.6
–150		150						5.2
–200		200						6.1
–SL25–105	2	105	25	65	24	25	M18 × 2.0	5.0
–150		150						6.0
–200		200						7.2
–SL32–105		105	32	72		28	M20 × 2.0	5.2
–150		150						6.5
–200		200						8.0
–300		300						10.9
–SL40–120		120	40	80	30	32		5.9
–SL42–120			42					5.8
–SL50–120		125	50	95	35	35	M24 × 2.0	6.8
–SL50.8–120			50.8					6.8



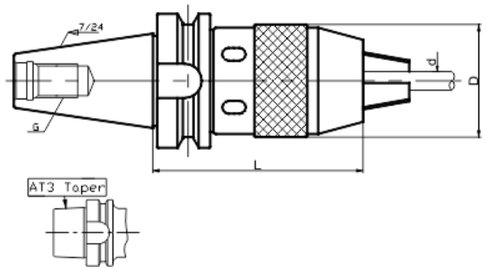


訂貨型號 Order Code	L	ØD	筒夾型號 Collet Type	重量(Kg) Weight
EBT30–WER16–90	90	30	ER16	0.8
–WER20–100	100	34	ER20	0.9
EBT40–WER16–90	90	30	ER16	1.3
–WER20–100	100	34	ER20	1.4
–WER25–110	110	42	ER25	1.7
–WER32–120	120	50	ER32	1.9
EBT50–WER16–90	90	30	ER16	3.9
–WER20–100	100	34	ER20	4.0
–WER25–110	110	42	ER25	4.2
–WER32–120	120	50	ER32	4.5
–200	200	50	ER32	5.2

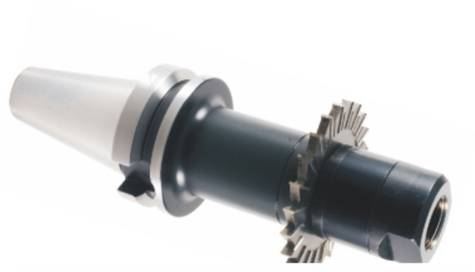
★以上規格均不含扳手、筒夾及拉釘，如有需要請另外訂購。
The above model does not contain spanners, collets and pull studs,please order them if necessary.

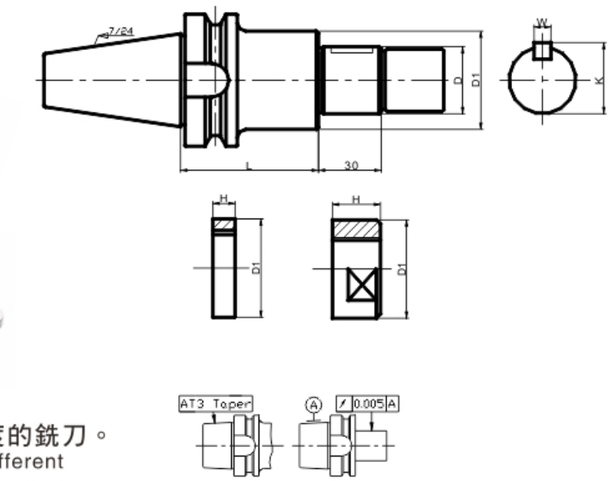
ER螺母 ER NUT P295
ER筒夾 ER COLLET P294
扳手 SPANNER P295
拉釘 PULL STUDS P306





訂貨型號 Order Code	L	ØD	夾持範圍Ød Clamping range	G	重量(Kg) Weight
EBT30–KPU08	75	36	0.5–8	M12	0.8
–KPU13	91	50	0.5–13		1.2
EBT40–KPU08	80	36	0.5–8	M16	1.3
–KPU13	95	50	0.5–13		1.8
–KPU16	113	57	3–16		2.3
EBT50–KPU13	105	50	0.5–13	M24	4.4
–KPU16	110	57	3–16		4.7

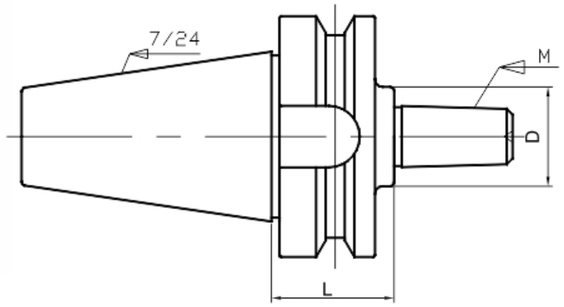


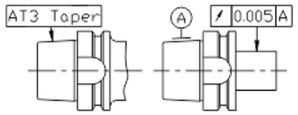


▲更換不同厚度的墊片可夾持不同厚度的銑刀。
Replace different collars,you can clamp different thicknesses on the mill tool.

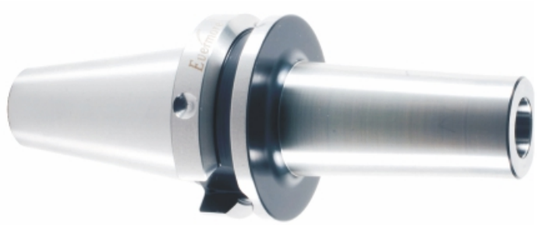
訂貨型號 Order Code	ØD(h6)	L	ØD1	H	K	W	重量(Kg) Weight
EBT40–SCA16–90	16	90	26	5/10/20	17.2	4	1.5
–SCA22–75	22	75	34		23.6	6	1.8
–120		120					2.1
–SCA27–75	27	75	40		29	7	2.1
–120		120					2.6
–SCA32–90	32	90	46		34	8	2.7
–SCA40–90	40	90	55		42.5	10	3.4
–SCA25.4–75	25.4	75	40		27.78	6.35	2.0
–120		120					2.5
EBT50–SCA22–90	22	90	34	5/10/20	23.6	6	4.5
–135		135					4.9
–SCA27–90	27	90	40		29	7	4.8
–135		135					5.4
–SCA32–135	32	135	46		34	8	6.1
–SCA25.4–90	25.4	90	40		27.78	6.35	4.8
–135		135					5.3

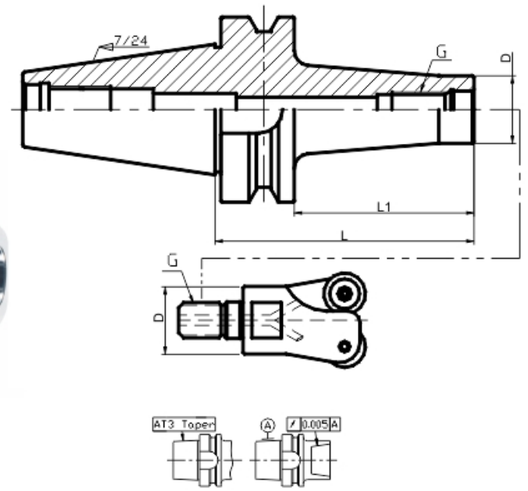






訂貨型號 Order Code	錐號 M	L	Ø D	重量(Kg) Weight
EBT40–B16–35	B16	34	26	1.1
–JT6–45	JT6	45		1.2
EBT50–B16–45	B16	45	26	3.8
–105		105		4.5



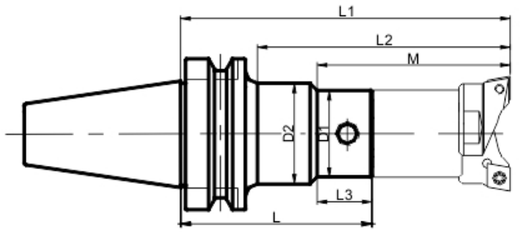


訂貨型號 Order Code	L	L1	ØD	G	重量(Kg) Weight
EBT40-EM08-80	80	53	13.8	M8	1.1
-100	100	73			1.2
-EM10-80	80	53	18.5	M10	1.1
-100	100	73			1.2
-EM12-80	80	53	23	M12	1.2
-100	100	73			1.3
-EM16-80	80	53	30	M16	1.3
-100	100	73			1.4
EBT50-EM08-100	100	62	13.8	M8	3.8
-150	150	112			3.9
-EM10-100	100	62	18.5	M10	3.9
-150	150	112			4.0
-EM12-100	100	62	23	M12	3.9
-150	150	112			4.1
-EM16-100	100	62	30	M16	4.0
-150	150	112			4.3

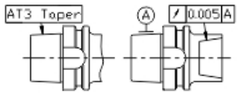
★以上規格均不含小銑頭，如有需要請另外訂購。
The above model does not contain small milling cutters, please order them if necessary.

小銑頭 SMALL MILLING CUTTER P81





※所有鏜刀刀柄系列產品均採用模組化的接口設計，端面採用特殊的角度設計，使鏜刀頭裝配時能很緊密地與刀柄本體連接在一起，從而達到高剛性。
All boring head shank series are designed to have modularized block connections.Special angles in the contacting surfaces make it possible for a firm connection between the boring head and shank,thus improving its rigidity.



訂貨型號 Order Code	ø D1	ø D2	M	L	L1	L2	L3	重量 Weight
EBT30-ECK0-60	21	———	77	60	102	77	———	0.5
-80	21		97	80	122	97		0.6
-ECK1-60	23		77	60	102	77		0.5
-ECK2-60	29		81	60	106	81		0.7
-100	29		121	100	146	121		0.8
-ECK3-60	37		90	60	115	90		0.9
-100	37		130	100	155	130		1.0
-ECK4-60	48		95	60	120	95		1.1
-100	48		135	100	160	135		1.2
-ECK5-65	60		115	65	140	115		1.2
EBT40-ECK0-60	21	———	70	60	102	70	———	1.1
-80	21		90	80	122	90		1.2
-ECK1-60	23		70	60	102	70		1.1
-80			90	80	122	90		1.2
-100		36	102	100	142	110	60	1.2
-ECK2-80	29	———	94	80	126	94	———	1.2
-100			114	100	146	114		1.3
-125		40	122	125	171	139	76	1.5
-ECK3-100	37	———	123	100	155	123	———	1.5
-125			148	125	180	148		1.7
-ECK4-100	48		128	100	160	128		1.8
-125			153	125	185	153		2.1
-ECK5-100	60		143	100	175	143		2.1
-125			168	125	200	168		2.8
-ECK6-100	80		158	100	190	158		2.9

續表>>
Continue

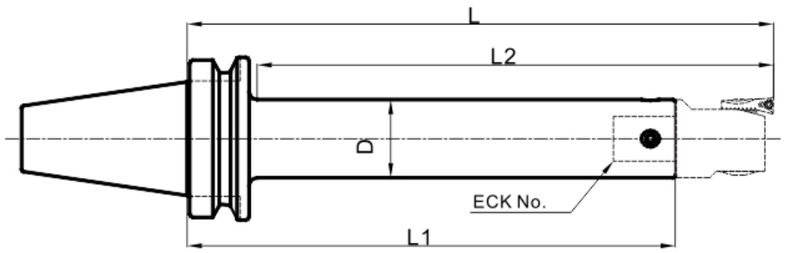
★以上所有規格鏜刀刀柄均不含鏜刀頭及拉釘，如有需要請另外訂購。
The above models do not include boring heads and pull studs,please order them separately if necessary.

鏜刀頭 BORING HEAD P1
拉釘 PULL STUDS P306

續表>>
Continue

訂貨型號 Order Code	ø D1	ø D2	M	L	L1	L2	L3	重量 Weight
EBT50 –ECK0–80	21		79	80	122	79		3.6
–100	21		99	100	142	99		3.7
–ECK1–100	23		99	100	142	99		3.8
–ECK2–100	29		103	100	146	103		3.9
–125			128	125	171	128		4.0
–ECK3–100	37		112	100	155	112		4.0
–125			137	125	180	137		4.2
–150			162	150	205	162		4.5
–ECK4–100	48	——	117	100	160	117	——	4.2
–150			167	150	210	167		5.1
–200			217	200	260	217		5.4
–ECK5–125	60		157	125	200	157		5.1
–150			182	150	225	182		5.2
–200			232	200	275	232		6.5
–250			282	250	325	282		7.3
–300			332	300	375	332		7.5
–ECK6–125	80		172	125	215	172		6.9
–150			197	150	240	197		7.1
–200			247	200	290	247		8.5
–250			297	250	340	297		9.9
–300			347	300	390	347		11.3





訂貨型號 Order Code	ECK號 No.	Ø D	L	L1	L2	重量(Kg) Weight
EBT50–ECK4–360	4	48	360	300	317	7.8
EBT50–ECK5–475	5	60	475	400	432	12.5
EBT50–ECK6–540	6	80	540	450	497	19

★ 表中L及L2是裝上FBN精鏜頭時的參考值。
Dimensions L&L2 are length when assembled with respective FBN head.

★ 裝上鏜頭時刀尖方向與傳動槽方向相同。
Insert is aligned with drive keys for tool orientation.

★ 鏜頭、刀片等請另外購買。
Boring head,inserts,etc. are sold separately.

EBOR 極細微調精鏜系列
EBOR EXTRA FINE BORING HEAD WITH MICRO ADJUSTMENT

Evermore®

加工範圍 Boring range Ø6–150



高精度調準量
High accuracy adjusting increment 0.002mm



主刻度盤
高精度調準量
每小格0.002mm
Major graduation disc
High precision increment
each graduation 0.002mm



可裝配多種刀桿，只需15支就可輕鬆實現6-150直徑孔的加工
Can suit various types of shanks,One can accomplish easily the machining of bores ranging from 6–150mm in diameter with just 15 pieces of shanks.

高剛性矩形導軌
High rigidity,rectangular guideways.



副刻度盤，每小格0.1mm，便於觀察
Minor graduation disc each graduation 0.1mm,facilitate observation.



⚠ 注意：副刻度盤禁止調節
Attention:It is forbbiden to adjust the minor graduation disc.

ECK模塊化接口，可配合所有ECK接口的鏜刀刀柄。
ECK modular interface are suitable for various shanks that have ECK interface



▲完全勝任小批多變的加工場合

Particularly suitable for machining jobs that are small quantity and various sizes.

組合套裝
Combination package

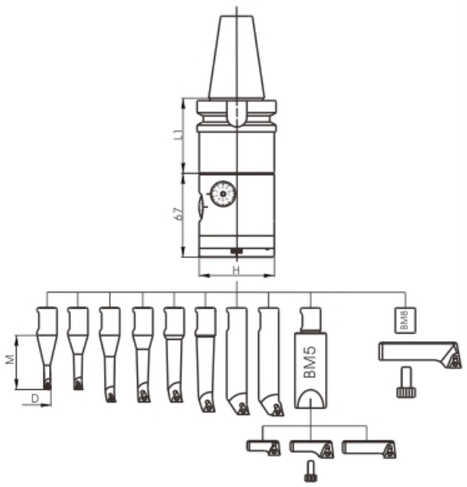


EBOR48 極細微調精鏜組合(套裝)
EBOR48 EXTRA FINE BORING HEAD WITH MICRO ADJUSTMENT (Tool Kit)

Evermore®







訂貨型號 Order Code	鏜孔範圍 Boring range ØD	刀柄型號 shank model	L1	H
BT30–EBOR48	6–90	BT30–ECK4–45	45	48
BT40– EBOR48		BT40–ECK4–60	60	
BT50– EBOR48		BT50–ECK4–75	75	
SK40– EBOR48		SK40–ECK4–65	65	
SK50– EBOR48		SK50–ECK4–75	75	
DIN2080–40– EBOR48		DIN2080–40–ECK4–60	60	
DIN2080–50– EBOR48		DIN2080–50–ECK4–60	60	
HSK–A63– EBOR48		HSK–A63–ECK4–75	75	
HSK–A100– EBOR48		HSK–A100–ECK4–75	75	

鏜刀桿規格 Boring shank spec.	鏜孔範圍 Boring range ØD	深度 Depth M	刀片規格 Insert type	刀片螺絲 Insert Screw	扳手 Wrench	切入量 Cutting volume ap	進給量 Feed F
BR1606–20	6–9	20	WBGT060102L	CSTB–2	T6	0.05–0.2	0.05–0.1
BR1608–28	8–11	28	TBGT060102L			0.05–0.2	0.05–0.1
BR1610–36	10–13	36	TBGT060104L			0.1–0.25	0.07–0.15
BR1612–42	12–15	42	TPGT090202L	CSTB–2.5	T8	0.05–0.2	0.05–0.1
BR1614–50	14–17	50					
BR1616–60	16–20	60					
BR1620–63	20–24	63	TPGT090204L			0.1–0.25	0.07–0.15
BR1624–64	24–28	64					
BM5		60+ SRTP2838/ SRTP3652/ SRTP4470		M5×12CAP	4	0.05–0.2	0.05–0.1
SRTP2838	28–38	+10	TPGT090202L	CSTB–2.5	T8		
SRTP3652	36–52	+12					
SRTP4470	44–70	+12	TPGT090204L			0.1–0.25	0.07–0.15
BM8				M8×16CAP	6		
SRTP5890	58–90	+20	TPGT090204L	CSTB–2.5	T8		

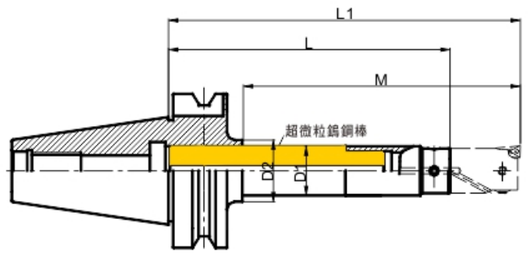
▲以上規格為整套組合，也可單獨訂購刀柄及刀桿，請在訂購時註明具體規格！
The above specification is a tool kit, a single order for heads or shanks is also available, please specify the details when ordering.

抗震深孔鏜刀刀柄 DEEP HOLE BORING HOLDERS

兩面拘束 DUAL CONTACT

Evermore®





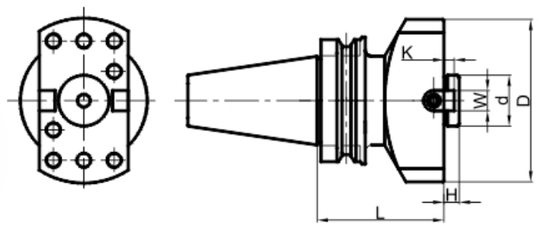
▼採用進口超微粒硬質合金棒，抗震性好。
▼中心出水設計，可提高刀具使用壽命。
▼ECK模塊化接口設計。
▼最大可加工深度L/D=6倍。

It uses imported hard alloy steel which contains micro particles and hard materials so that anti-vibration is excellent.
The internal coolant design prolongs the lifetime of the cutting tools.
It is designed to have ECK modular interface
Max. Machining depth L/D=6 times.

訂貨型號 Order Code	ØD1	ØD2	M	L	L1
EBT40-ECK1-145	25	33	150	145	185
-ECK2-190	32	42	192	190	235
EBT50-ECK1-155	25	33	150	155	195
-ECK2-185	32	42	195	185	230
-ECK3-230	40	50	240	230	285
-ECK4-295	50	60	300	295	355

大範圍鏜刀刀柄 LARGE BORING HOLDERS



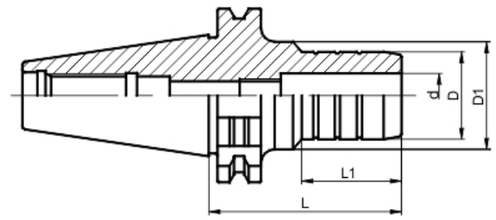


訂貨型號 Order Code	ECK No.	L	H	W	K	Ød	ØD	重量Kg Weight
EBT50-ECK7A -100	7	100	12	8	8	40	128	7.3
-150		150						8.9
-200		200						10.4
-250		250						11.9
-300		300						13.4

HDC 油壓刀柄 - SK柄 HYDRAULIC HOLDERS - SK (DIN69871-1) SHANK

Evermore®





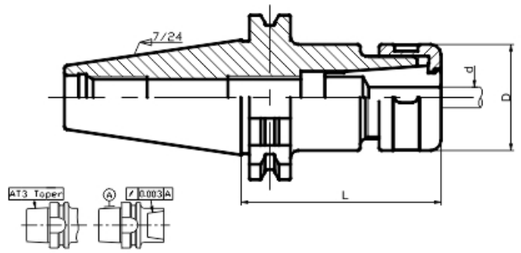
訂貨型號 Order Code	d	ØD	ØD1	L	L1	重量(Kg) Weight
SK40-HDC06-80	6	26	45	80	43	1.2
-HDC08-80	8	28	45		43	1.2
-HDC10-80	10	30	45		43	1.2
-HDC12-80	12	32	48		43	1.3
-HDC16-80	16	38	49.5		33	1.3
-HDC20-80	20	60	50		34	1.4
-HDC25-80	25	65	50		45	1.4
-HDC32-80	32	72	50		45	1.5
SK50-HDC06-120	6	36	60	120	47	3.8
-HDC08-120	8	38				3.8
-HDC10-120	10	40				3.8
-HDC12-120	12	42				3.9
-HDC16-120	16	46.5			60	4.0
-HDC20-120	20	42	50		47	4.1
-HDC25-120	25	63	63		-	4.6
-HDC32-120	32	72	72		-	5.2

油壓刀柄變徑套 Reduce sleeve P298

SD 精密彈性筒夾刀柄 - SK柄
SD PRECISION COLLET HOLDERS - SK (DIN69871-1) SHANK

Evermore®





訂貨型號 Order Code	L	øD	夾持範圍ød Clamping range	重量(Kg) Weight
SK40–SD06–80	80	20	1.75~6.0	1.0
–SD10–80		29	1.75~10.0	1.1
–SD16–80		41	2.75~16	1.3
–SD20–80		50	4~20	1.4
SD25–80		55	6~25	1.3
SK50–SD06–100	100	20	1.75~6.0	2.4
–SD10–100		29	1.75~10.0	2.7
–SD16–100		41	2.75~16	3.2
–SD20–100		50	4~20	3.5
–SD25–100		55	6~25	3.6

★ 以上規格均不含筒夾及拉釘，如有需要請另外訂購。
The above model does not contain collets and pull studs,please order them if necessary

★ 可更換使用SDP螺母
The SDP nut can replace the SD nut.

SD螺母 SD NUT P291 · SD筒夾 SD COLLET P289 · 扳手 SPANNER P291 · 拉釘 PULL STUDS P307 · SDP 螺母 SDP NUT P291 · SDP扳手 SDP SPANNER P292

EMC 強力銑刀刀柄 - SK柄
EMC POWERFUL MILLING HOLDERS - SK (DIN69871-1) SHANK





訂貨型號 Order Code	L	ØD	夾持範圍 ød Clamping range	重量(Kg) Weight
SK40–EMC32–100	100	73.5	6–32	2.4
SK50–EMC32–100	100	73.5	6–32	4.4

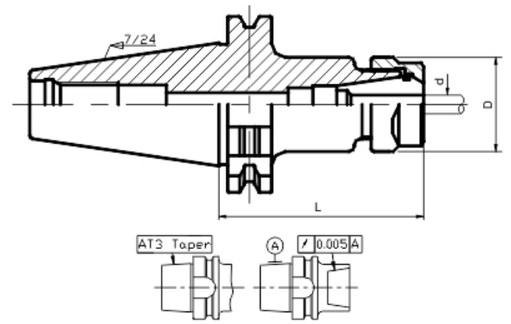
★單獨訂購均不帶筒夾及扳手，如有需要請另外訂購，也可訂購套裝產品（附帶筒夾7個及扳手1把）。
The collet and spanner are not included,please order them additionally if necessary.The tool package of whole set is available on request.(include a spanner and 7 collets)

EMC筒夾 EMC COLLET P292 · 扳手 SPANNER P292 · 拉釘 PULL STUDS P307

ER 彈性筒夾刀柄 - SK柄
ER COLLET HOLDERS - SK (DIN69871-1) SHANK

Evermore®





訂貨型號 Order Code	L	ØD	夾持範圍ød Clamping range	重量(Kg) Weight
SK40–ER16–60	60	30	2.0–10	1.0
–100	100			1.2
–150	150			1.6
–ER20–60	60	34	2.0–13	1.0
–100	100			1.3
–120	120			1.4
–150	150			1.6
–ER25–60	60	42	2.0–16	1.0
–100	100			1.4
–150	150			1.9
–ER32–70	70	50	2.0–20	1.1
–100	100			1.5
–150	150			2.0
–ER40–80	80	63	3.0–26	1.1
–100	100			1.6
–150	150			2.3
SK50–ER16–60	60	30	2.0–10	2.8
–100	100			3.0
–150	150			3.4
–ER20–100	100	34	2.0–13	3.1
–150	150			3.4
–ER25–100	100	42	2.0–16	3.2
–150	150			3.7
–ER32–100	100	50	2.0–20	3.4
–150	150			4.0
–200	200			4.7
–ER40–100	100	63	3.0–26	3.8
–150	150			4.9

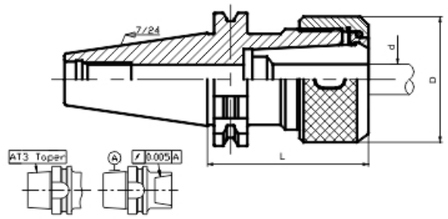
★ 以上規格均不含扳手、筒夾及拉釘，如有需要請另外訂購。
The above model does not contain spanners, collets and pull studs,please order them additionally if necessary.

ER螺母 ER NUT P295 · ER筒夾 ER COLLET P294 · 扳手 SPANNER P295 · 拉釘 PULL STUDS P307

OZ 彈性筒夾刀柄 - Sk柄
OZ COLLET HOLDERS - SK (DIN69871-1) SHANK

Evermore®





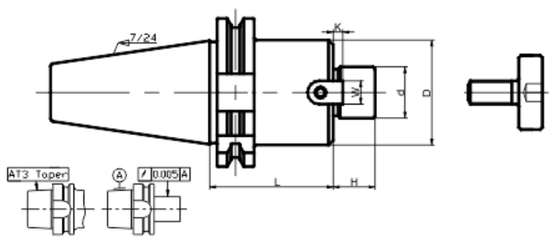
訂貨型號 Order Code	L	ØD	夾持範圍ød Clamping range	重量(Kg) Weight
SK40–OZ25–70	70	60	6~25	1.3
–OZ32–100	100	78	6~32	2.3
SK50–OZ25–80	80	60	6~25	3.4
–OZ32–80		78	6~32	3.8

★ 以上規格均不含扳手、筒夾及拉釘，如有需要請另外訂購。
The above model does not contain spanners, collets and pull studs,please order them additionally if necessary.

OZ螺母 OZ NUT P297 | OZ筒夾 OZ COLLET P296 | 扳手 SPANNER P297 | 拉釘 PULL STUDS P307

FMA 面銑刀柄 - SK柄
FMA FACE MILL HOLDERS - SK (DIN69871-1) SHANK



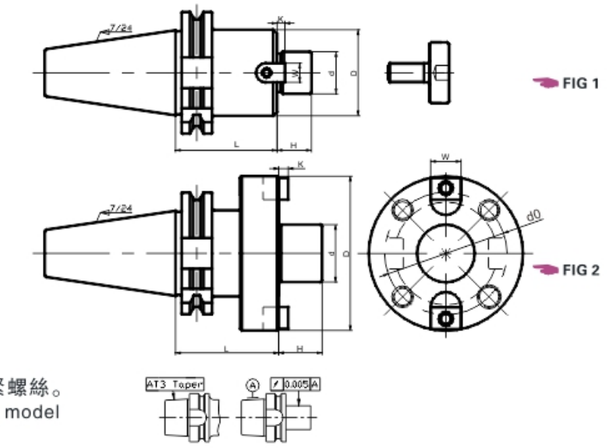


訂貨型號 Order Code	L	ød(h6)	øD	H	K	W	重量(Kg) Weight
SK40–FMA25.4–60	60	25.4	50	20	5	9.5	1.6
–90	90						2.0
–FMA31.75–60	60	31.75	60	22	7	12.7	1.9
–90	90						2.5
–FMA38.1–60	60	38.1	80	25	9	15.9	2.1
–90	90						2.7
SK50–FMA25.4–60	60	25.4	50	20	5	9.5	3.5
–100	100						4.1
–FMA31.75–60	60	31.75	60	22	7	12.7	3.8
–100	100						4.7
–FMA38.1–60	60	38.1	80	25	9	15.9	4.7
–100	100						6.3
–FMA50.8–60	60	50.8	100	28	12		5.6
–100	100						8.1

FMB (C) 面銑刀柄 - SK柄
FMB (C) FACE MILL HOLDERS - SK (DIN69871-1) SHANK

Evermore®





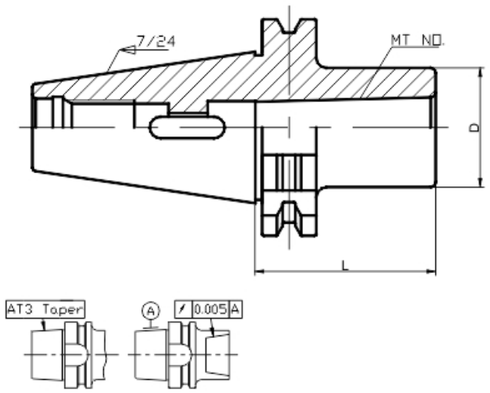
注：B型使用大頭鎖緊螺絲，C型使用小頭鎖緊螺絲。
The B model uses a big clamping nut, The C model uses a small clamping nut.

訂貨型號 Order Code	圖號 FIG	L	ød(h6)	øD	ød0	H	K	W	重量(Kg) Weight
SK40–FMB (C) 22–60	1	60	22	48	--	18	5	10	1.5
–105		105							2.0
–200		200							3.4
–FMB (C) 27–60		60	27	60		20	6	12	1.8
–120		120							2.8
–FMB (C) 32–60		45	32	72		22	7	14	2.2
–90		60							2.4
–FMB (C) 40–60		90		80					2.5
–FMB (C) 40F–60		60	40	110		25	8	16	2.6
–FMB (C) 40M–60	2			89.3	66.7				2.0
SK50–FMB (C) 22–60				48					3.3
–FMB (C) 27–60	1	60	22	60	--	18	5	10	3.8
–FMB (C) 32–60			27	72		20	6	12	4.2
–FMB (C) 40–60			32	80		22	7	14	4.6
–FMB (C) 40F–75			40	110		25	8	16	6.4
–FMB (C) 40M–75	2	75		89.3	66.7				5.1
–FMB (C) 60F–75			60	140	101.6		12.5	25.4	6.9
–FMB (C) 60M–75				129.1					6.5

MTA 有扁尾莫氏錐孔刀柄 - SK柄
MTA MORSE TAPER HOLDERS - SK (DIN69871-1) SHANK

Evermore®



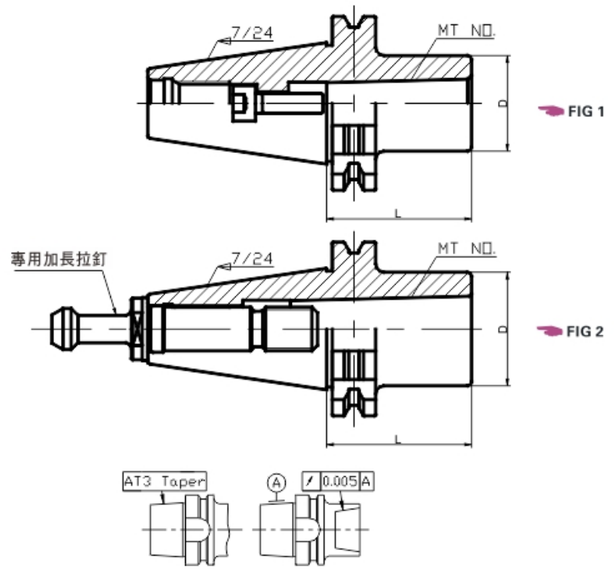


訂貨型號 Order Code	莫氏錐號 MT No .	L	ØD	重量(Kg) Weight
SK40–MTA1–45	1	41	25	0.9
–120		120		1.3
–MTA2–60	2	53	35	1.0
–120		120		1.4
–MTA3–75	3	72	40	1.1
–135		135		1.7
–MTA4–90	4	90	45	1.2
SK50–MTA1–45	1	45	25	2.8
–120		120		3.4
–MTA2–45	2	45	35	2.7
–135		135		3.7
–MTA3–45	3	50	42	2.7
–150		150		4.1
–MTA4–75	4	75	50	2.9
–180		180		4.6
–MTA5–105	5	105	65	3.4
–190		190		5.3

MTB 無扁尾莫氏錐孔刀柄 - SK柄
MTB MORSE TAPER HOLDERS - SK (DIN69871-1) SHANK

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訂貨型號 Order Code	圖號 FIG	莫氏錐號 MT NO .	L	ØD	重量(Kg) Weight
SK40–MTB2–50	1	2	50	35	1.0
–MTB3–75		3	75	38	1.1
–MTB4–90*	2	4	90	45	1.4
SK50–MTB1–45	1	1	45	25	2.8
–MTB2–45		2	45	35	2.8
–135			135		3.3
–MTB3–60		3	60	42	2.9
–150			150		3.7
–MTB4–75		4	80	50	3.2
–150			150		4.1
–MTB5–120		5	120	65	4.0

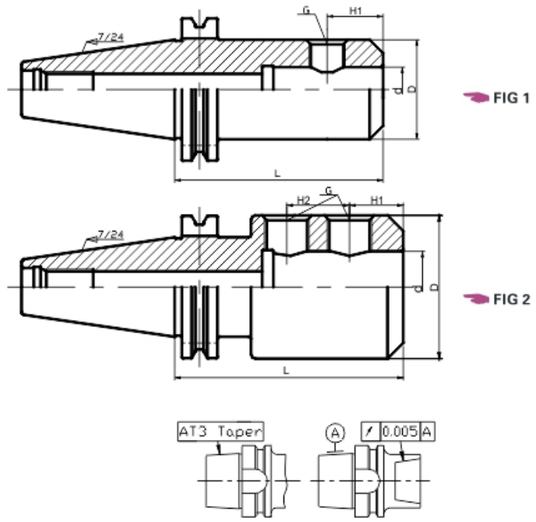
★帶 “*” 規格附帶MTB專用拉釘。
The “*” model contains MTB special pull studs.

MTB拉釘 P307
MTB PULL STUDS

SL 側固式端銑刀柄 - SK柄
SL SIDE LOCK END MILL HOLDERS - SK (DIN69871-1) SHANK

Evermore®



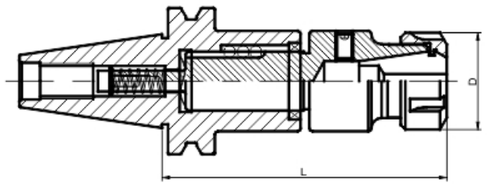


訂貨型號 Order Code	圖號 FIG	L	Ød	ØD	H1	H2	G	重量(Kg) Weight
SK40–SL06–50		50	6	25	18		M6 × 0.75	0.9
–SL08– 50		50						1.0
–100		100	8	28	18		M8 × 1.0	1.2
–130		130						1.5
–SL10– 50		50	10	35	20		M10 × 1.0	1.0
–SL12– 50	1	50	12	42	22.5	——	M12 × 1.5	1.1
–100		100						1.6
–SL16– 60		60	16	44.45	24		M14 × 1.5	1.2
–SL20– 70		70	20	52	25		M16 × 1.5	1.4
–130		130						2.4
–SL25–100	2	100	25	63.55	24	25	M18 × 2.0	2.3
–SL32–100		100	32	64	24	28	M20 × 2.0	2.1
SK50–SL08– 63			8	28	18		M8 × 1.0	3.1
–SL10– 63			10	35	20		M10 × 1.0	2.9
–SL12– 63	1	63	12	42	22.5	——	M12 × 1.5	3.1
–SL16– 63			16	50	24		M14 × 1.5	3.2
–SL20– 63			20	52	25		M16 × 1.5	3.2
–SL25– 80		80	25	65	24	25	M18 × 2.0	3.8
–SL32–100	2	100	32	70		28	M20 × 2.0	4.4
–SL40–120		120	40	80	30	32		5.4
–SL42–120		120	42	80	30	32		5.3
–SL50–120	2	120	50	95	35	35	M24x2.0	5.5

WER 攻牙刀柄 - SK柄
WER TAPPING HOLDERS - SK (DIN69871-1) SHANK

Evermore®



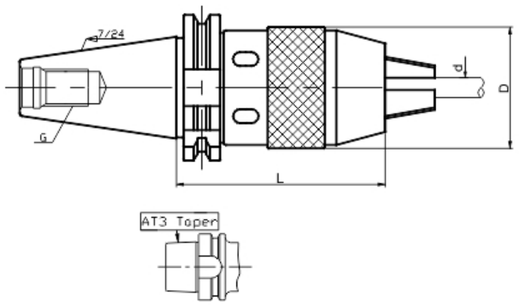


訂貨型號 Order Code	L	ØD	筒夾型號 Collet Type	重量(Kg) Weight
SK40–WER16–70	70	30	ER16	1.2
–WER20–90	90	34	ER20	1.3
–WER25–100	100	42	ER25	1.5
–WER32–110	110	50	ER32	1.7
SK50–WER16–90	90	30	ER16	2.8
–WER20–90		34	ER20	3.1
–WER25–90		42	ER25	3.2
–WER32–100	100	50	ER32	3.4

ER螺母 ER NUT P295 · ER筒夾 ER COLLET P294 · 扳手 SPANNER P295 · 拉釘 PULL STUDS P307

KPU 鑽孔夾頭刀柄 - SK柄
KPU DRILL CHUCK HOLDERS - SK (DIN69871-1) SHANK



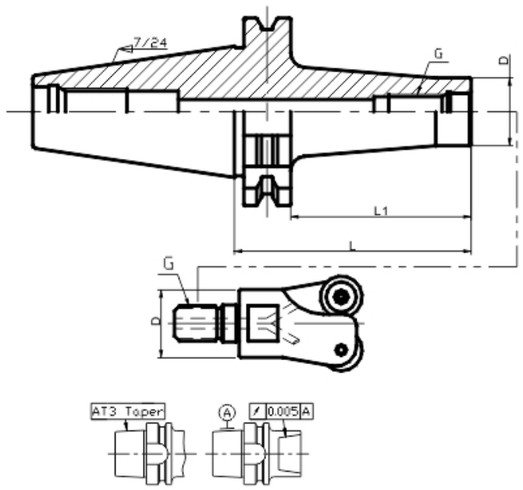


訂貨型號 Order Code	L	ØD	夾持範圍Ød Clamping range	G	重量(Kg) Weight
SK40–KPU08	70	36	0.5–8	M16	1.3
–KPU13	82	50	0.5–13		1.7
–KPU16	105	57	3–16		2.4
SK50–KPU13	85	50	0.5–13	M24	3.6
–KPU16	90	57	3–16		3.9

EM 小銑頭刀柄 - SK柄
EM SMALL MILLING CUTTER HOLDERS - SK (DIN69871-1) SHANK

Evermore®





訂貨型號 Order Code	L	L1	ØD	G	重量(Kg) Weight
SK40–EM08–80	80	60.9	13.8	M8	0.9
–100	100	80.9			1.0
–EM10–80	80	60.9	18.5	M10	0.9
–100	100	80.9			1.0
–EM12–80	80	60.9	23	M12	1.0
–100	100	80.9			1.1
–EM16–80	80	60.9	30	M16	1.1
–100	100	80.9			1.2
SK50–EM08–100	100	80.9	13.8	M8	2.9
–150	150	130.9			3.0
–EM10–100	100	80.9	18.5	M10	2.8
–150	150	130.9			2.9
–EM12–100	100	80.9	23	M12	3.0
–150	150	130.9			3.2
–EM16–100	100	80.9	30	M16	3.2
–150	150	130.9			3.4

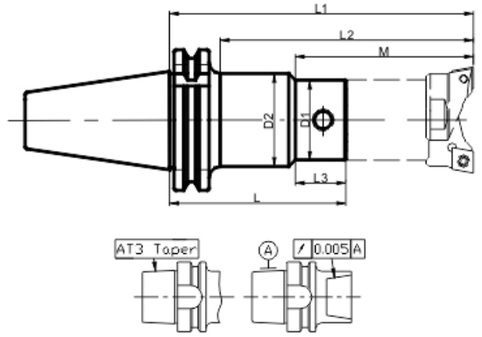
★ 以上規格均不含小銑頭，如有需要請另外訂購。
The above model does not contain small milling cutters, please order them additionally if necessary.

小銑頭 SMALL MILLING CUTTER P81

ECK 鏜刀刀柄 - SK柄
ECK BORING HOLDERS - SK (DIN69871-1) SHANK

Evermore®





訂貨型號 Order Code	ØD1	ØD2	M	L	L1	L2	L3	重量 Weight
SK40–ECK1– 60	23	——	76	60	100	76	——	0.9
–80			96	80	120	96		1.0
–100		36	100	100	140	116	60	1.1
–ECK2– 80	29	——	101	80	125	101	——	1.0
–100			121	100	145	121		1.2
–125		40	126	125	170	146	81	1.4
–ECK3–100	37	——	131	100	155	131	——	1.4
–125			156	125	180	156		1.5
–ECK4–100	48		136	100	160	136		1.7
–125			161	125	185	161		1.9
–ECK5–100	60		151	100	175	151		1.9
–125			176	125	200	176		2.5
–ECK6–100	80		166	100	190	166		2.7
SK50–ECK1–125	23	36	100	125	165	141	60	3.1
–ECK2–100	29		121	100	145	121		3.0
–125		40	146	125	170	146		3.1
–ECK3–100	37		131	100	155	131		3.2
–125			156	125	180	156		3.3
–150			181	150	205	181		3.6
–ECK4–100	48		136	100	160	136		3.3
–150			186	150	210	186		4.2
–200			236	200	260	236		5.0
–ECK5–150	60		201	150	225	201		4.8
–200			251	200	275	251		6.2
–250			301	250	325	301		7.2
–ECK6–150	80		216	150	240	216		6.5
–200			266	200	290	266		8.8
–250			316	250	340	316		10.6

★ 以上所有規格鏜刀刀柄均不含鏜刀頭及拉釘，如有需要請另外訂購。
The above models do not include boring heads and pull studs,please order them separately if necessary.

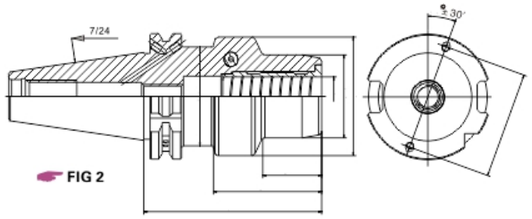
鏜刀頭 BORING HEAD P1
拉釘 PULL STUDS P307

HDC 油壓刀柄 - SKB柄
HYDRAULIC HOLDERS - SK (DIN69871-B) SHANK

Evermore®







★DIN69871 B型，可用於端面或中心給水。
The DIN69871 model B may use both external coolant and internal coolant.

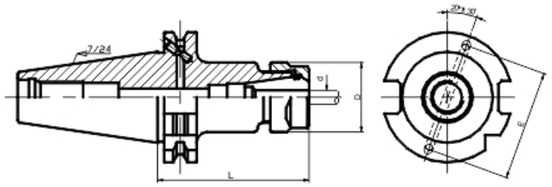
訂貨型號 Order Code	圖號 FIG	L	Ød	ØD	ØD1	ØD2	L1	L2	重量(Kg) Weight
SK40B-HDC06-60	1	60	6	26	45	--	23	--	1.2
-HDC06-80		80					43		1.2
-HDC08-80			8	28					1.2
-HDC10-80			10	30					1.2
-HDC12-80			12	32	48				1.3
-HDC12-90		90							1.3
-HDC16-90			16	38					1.3
-HDC20-90	2		20	60	50	42	55	30	1.4
-HDC25-90			25	65		--		--	1.4
SK50B-HDC08-120	1	120	8	38	60		47		3.8
-HDC10-120			10	40					3.8
-HDC12-120			12	42					3.9
-HDC16-120			16	42					4.0
-HDC20-120			20	42	50				4.1
-HDC25-120			25	63	63				4.6

油壓刀柄變徑套 Reduce sleeve P298

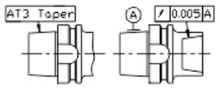
ER 彈性筒夾刀柄 - SKB柄
ER COLLET HOLDERS - SK (DIN69871-B) SHANK

Evermore®





★DIN69871 B型，可用於端面或中心給水。
The DIN69871 model B may use both external coolant and internal coolant.



訂貨型號 Order Code	L	ØD	E	夾持範圍Ød Clamping range	重量(Kg) Weight
SK40B-ER16-60	60	30	54	2.0-10	1.0
-100	100				1.2
-150	150				1.6
-ER20-60	60	34		2.0-13	1.0
-100	100				1.3
-120	120				1.4
-150	150				1.6
-ER25-60	60	42		2.0-16	1.0
-100	100				1.4
-150	150				1.9
-ER32-70	70	50		2.0-20	1.1
-100	100				1.5
-150	150				2.0
-ER40-80	80	63		3.0-26	1.1
-100	100				1.6
-150	150				2.3
SK50B-ER16-60	60	30	84	2.0-10	2.8
-100	100				3.0
-150	150				3.4
-ER20-100	100	34		2.0-13	3.1
-150	150				3.4
-ER25-100	100	42		2.0-16	3.2
-150	150				3.7
-ER32-100	100	50		2.0-20	3.4
-150	150				4.0
-200	200				4.7
-ER40-100	100	63		3.0-26	3.8
-150	150				4.9

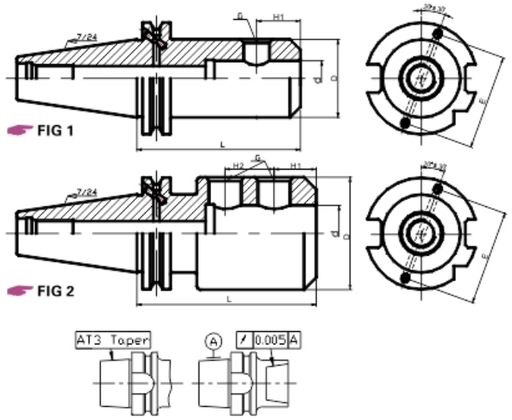
★以上規格均不含扳手、筒夾及拉釘，如有需要請另外訂購。
The above model does not contain spanners, collets and pull studs,please order them additionally if necessary.

ER螺母 ER NUT P295
ER筒夾 ER COLLET P294
扳手 SPANNER P295
拉釘 PULL STUDS P307

SL 側固式端銑刀柄 - SKB柄
SL SIDE LOCK END MILL HOLDERS - SKB (DIN69871-B) SHANK

Evermore®





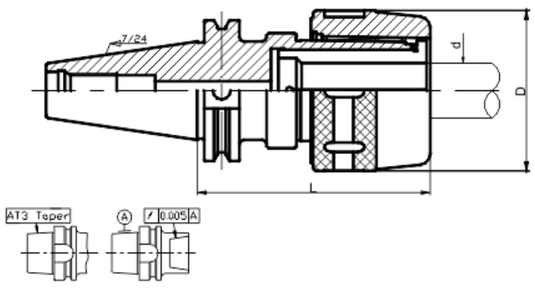
★DIN69871 B型，可用於端面或中心給水。
The DIN69871 model B may use both external coolant and internal coolant.

訂貨型號 Order Code	圖號 FIG	L	Ød	ØD	H1	H2	E	G	重量(Kg) Weight
SK40B–SL08– 50	1	50	8	28	18	--	54	M8x1.0	1.0
–100		100							1.2
–130		130							1.5
–SL10– 50		50	10	35	20			M10x1.0	1.0
–SL12– 50		50	12	42	22.5			M12x1.5	1.1
–100		100							1.6
–SL16– 60		60	16	44.45	24			M14x1.5	1.2
–SL20– 70		70	20	52	25			M16x1.5	1.4
–130		130							2.4
–SL25–100	2	100	25	63.55	24	25		M18x2.0	2.3
–SL32–100		100	32	64	24	28		M20x2.0	2.1
SK50B–SL08– 63	1	63	8	28	18	--	84	M8x1.0	3.1
–SL10– 63			10	35	20			M10x1.0	2.9
–SL12– 63			12	42	22.5			M12x1.5	3.1
–SL16– 63			16	50	24			M14x1.5	3.2
–SL20– 63			20	52	25			M16x1.5	3.2
–SL25– 80	2	80	25	65	24	25		M18x2.0	3.8
–SL32–100		100	32	70		28		M20x2.0	4.4
–SL40–120		120	40	90	30	32			5.4

EMC 強力銑刀刀柄 - CAT柄
EMC POWERFUL MILLING HOLDERS - CAT SHANK

Evermore®





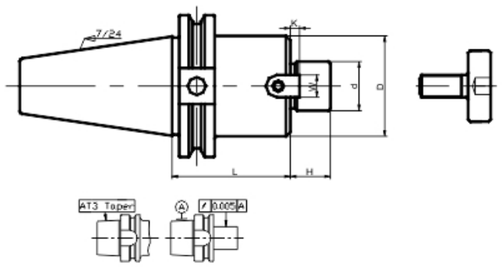
訂貨型號 Order Code	L	ØD	夾持範圍Ød Clamping range	重量(Kg) Weight
CAT40–EMC32–4.0"	4"	73.5	6–32	2.4
CAT50–EMC32–4.0"	4"	73.5	6–32	2.4

★單獨訂購均不帶筒夾及扳手，如有需要請另外訂購，也可訂購套裝產品（附帶筒夾7個及扳手1把）。
The collet and spanner are not included,please order them additionally if necessary.The tool package of whole set is available on request.(include a spanner and 7 collets)

EMC筒夾 P292 EMC COLLET　扳手 P292 SPANNER

FMA 面銑刀柄 - CAT柄
FMA FACE MILL HOLDERS - CAT SHANK



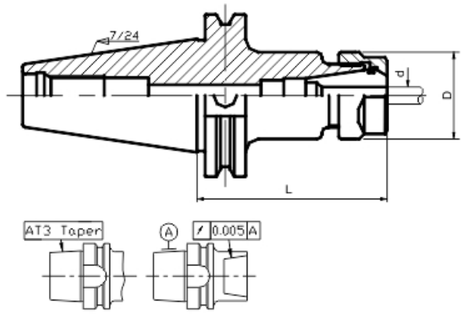


訂貨型號 Order Code	L(inch)	ød(h6)	øD	H	K	W	重量(Kg) Weight
CAT40–FMA25.4–2.0"	2 "	25.4	50	20	5	9.5	1.4
–FMA31.75–2.25"	2.25 "	31.75	60	22	7	12.7	1.8
–FMA38.1–2.4"	2.4 "	38.1	80	25	9	15.9	2.3
CAT50–FMA25.4–2.0"	2 "	25.4	50	20	5	9.5	3.3
–FMA31.75–1.5"	1.5 "	31.75	60	22	7	12.7	3.1
–FMA38.1–2.4"	2.4 "	38.1	80	25	9	15.9	4.7
–FMA50.8–2.4"	2.4 "	50.8	100	28	12		5.6

ER 彈性筒夾刀柄 - CAT柄
ER COLLET HOLDERS - CAT SHANK

Evermore®





訂貨型號 Order Code	L(inch)	ØD	夾持範圍ød Clamping range	重量(Kg) Weight
CAT40–ER16–2.5”	2.5”	30	0.097” ~0.0394”	1.0
–4.0”	4.0”			1.2
–ER20–4.0”	4.0”	34	0.097” ~0.512”	1.3
–ER25–4.0”	4.0”	42	0.079” ~0.63”	1.4
–ER32–3.0”	3.0”	50	0.079” ~0.787”	1.3
–5.0”	5.0”			1.8
–ER40–4.0”	4.0”	63	0.118” ~1.024”	1.5
CAT50–ER16–4.0”	4.0”	30	0.097” ~0.0394”	3.0
–6.0”	6.0”			3.4
–ER20–4.0”	4.0”	34	0.097” ~0512”	3.1
–6.0”	6.0”			3.4
–ER25–4.0”	4.0”	42	0.079” ~0.63”	3.2
–ER32–4.0”	4.0”	50	0.079” ~0.787”	3.4
–6.0”	6.0”			4.0
–ER40–4.0”	4.0”	63	0.118” ~1.024”	3.8
–6.0”	6.0”			4.9

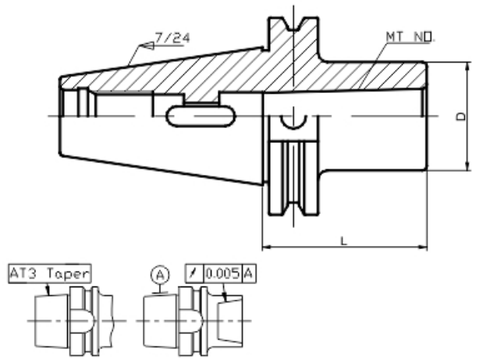
★以上規格均不含扳手、筒夾及拉釘，如有需要請另外訂購。
The above model does not contain spanners, collets and pull studs,please order them additionally if necessary.

ER螺母 ER NUT P295
ER筒夾 ER COLLET P294
扳手 SPANNER P295

MTA 有扁尾莫氏錐孔刀柄 - CAT柄
MTA MORSE TAPER HOLDERS - CAT SHANK

Evermore®





訂貨型號 Order Code	莫氏錐號 MT NO .	L	ØD	重量(Kg) Weight
CAT40–MTA1–45	1	45	25	0.9
–120		120		1.2
–MTA2–60	2	60	35	1.0
–120		120		1.5
–MTA3–75	3	72	40.5	1.1
–135		135		1.7
–MTA4–90	4	90	44.5	1.1
CAT50–MTA1–45	1	45	25	2.7
–120		120		3.0
–MTA2–45	2	45	32	2.7
–135		135		3.2
–MTA3–45	3	50	40	2.7
–150		150		3.6
–MTA4–75	4	75	50	2.9
–180		180		4.4
–MTA5–105	5	105	65	3.4

ER 彈性筒夾刀柄 - CAT柄
ER COLLET HOLDERS - CAT SHANK

Evermore®



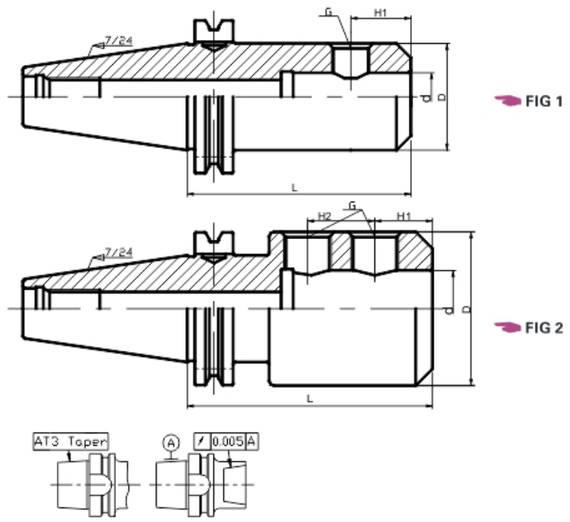


FIG 1

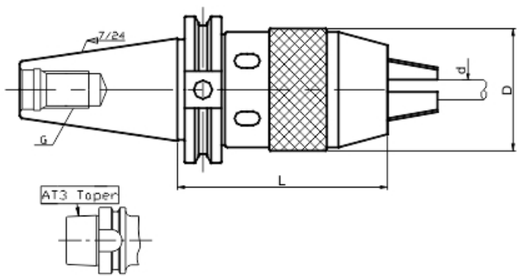
FIG 2

訂貨型號 Order Code	圖號 FIG	L	ød	ØD	H1	H2	G	重量(Kg) Weight
CAT40–SL08–2.50"	1	2.5 "	8	28	18	——	M8 × 1.0	1.0
–SL10–2.50"			10	35	20		M10 × 1.0	1.1
–SL12–2.62"		2.62 "	12	42	22.5		M12 × 1.5	1.2
–SL16–2.75"		2.75 "	16	48	24		M14 × 1.5	1.3
–SL20–3.50"		3.5 "	20	52	25		M16 × 1.5	1.7
–SL25–4.00"	2	4 "	25	62	24	25	M18 × 2.0	2.3
–SL32–4.00"			32	64		28	M20 × 2.0	2.1
CAT50–SL08–2.50"	1	2.5 "	8	28	18	——	M8 × 1.0	3.1
–SL10–2.50"			10	35	20		M10 × 1.0	2.9
–SL12–2.62"		2.62 "	12	42	22.5		M12 × 1.5	3.2
–SL16–2.75"		2.75 "	16	48	24		M14 × 1.5	3.4
–SL20–3.50"		3.5 "	20	52	25		M16 × 1.5	3.6
–SL25–4.00"	2	4 "	25	65	24	25	M18 × 2.0	4.2
–SL32–4.00"			32	70		28	M20 × 2.0	4.4
–SL40–4.70"		4.7 "	40	90	30	32		5.3

MTA 有扁尾莫氏錐孔刀柄 - CAT柄
MTA MORSE TAPER HOLDERS - CAT SHANK

Evermore®

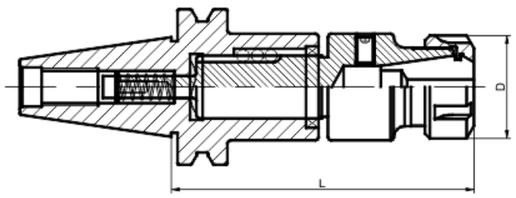




訂貨型號 Order Code	L	ØD	夾持能力ød Clamping range	G	重量(Kg) Weight
CAT40–KPU08	82	36	0.5-8	5/8 " –11UNC	1.3
–KPU13	100	50	0.5-13		1.7
–KPU16	125	57	3-16		2.4
CAT50–KPU13	100	50	0.5-13	1 " –8UNC	3.6
–KPU16	105	57	3-16		3.9

MTA 有扁尾莫氏錐孔刀柄 - CAT柄
MTA MORSE TAPER HOLDERS - CAT SHANK





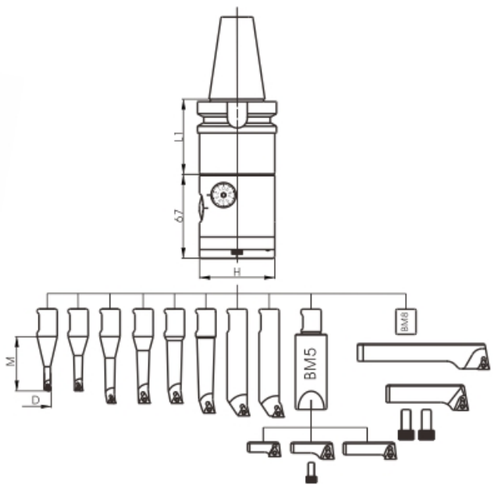
訂貨型號 Order Code	L	ØD	筒夾型號 Collet Type	重量(Kg) Weight
CAT40–WER16– 70	70	30	ER16	1.2
–WER20– 90	90	34	ER20	1.3
–WER25–100	100	42	ER25	1.5
–WER32–110	110	50	ER32	1.7
CAT50–WER16– 90	90	30	ER16	3.0
–WER20– 90		34	ER20	3.1
–WER25– 90		42	ER25	3.2
–WER32–100	100	50	ER32	3.5

★ 以上規格均不含扳手、筒夾及拉釘，如有需要請另外訂購。
The above model does not contain spanners, collets and pull studs,please order them additionally if necessary.

ER螺母 ER NUT P295
ER筒夾 ER COLLET P294
扳手 SPANNER P295







訂貨型號 Order Code	鏜孔範圍 Boring range ØD	刀柄型號 shank model	L1	H
BT40–EBOR60	6–150	BT40–ECK5–60	60	60
BT50–EBOR60		BT50–ECK5–75	75	
SK40–EBOR60		SK40–ECK5–65	65	
SK50–EBOR60		SK50–ECK5–75	75	
DIN2080–40– EBOR60		DIN2080–40–ECK5–60	60	
DIN2080–50– EBOR60		DIN2080–50–ECK5–75	75	
HSK–A63– EBOR60		HSK–A63–ECK5–75	75	
HSK–A100– EBOR60		HSK–A100–ECK5–75	75	

鏜刀桿規格 Boring shank spec.	鏜孔範圍 Boring range ØD	深度 Depth M	刀片規格 Insert type	刀片螺絲 Insert Screw	扳手 Wrench	切入量 Cutting volume ap	進給量 Feed F
BR1606–20	6–9	20	WBGT060102L	CSTB–2	T6	0.05–0.2	0.05–0.1
BR1608–28	8–11	28	TBGT060102L			0.05–0.2	0.05–0.1
BR1610–36	10–13	36	TBGT060104L			0.1–0.25	0.07–0.15
BR1612–42	12–15	42	TPGT090202L	CSTB–2.5	T8	0.05–0.2	0.05–0.1
BR1614–50	14–17	50					
BR1616–60	16–20	60					
BR1620–63	20–24	63	TPGT090204L			0.1–0.25	0.07–0.15
BR1624–64	24–28	64					
BM5		60+ SRTP2838/ SRTP3652/ SRTP4470		M5×12CAP	4	0.05–0.2	0.05–0.1
SRTP2838	28–38	+10	TPGT090202L	CSTB–2.5	T8		
SRTP3652	36–52	+12					
SRTP4470	44–70	+12	TPGT090204L				0.07–0.15
BM8				M8×16CAP	6		
SRTP70110	70–110	+20	TPGT090202L	CSTB–2.5	T8		0.05–0.1
SRTP110150	110–150	+20	TPGT090204L			0.1–0.25	0.07–0.15

▲以上規格為整套組合，也可單獨訂購刀柄及刀桿，請在訂購時註明具體規格！
The above specification is a tool kit, a single order for heads or shanks is also available, please specify the details when ordering.

切削速度 Cutting speed

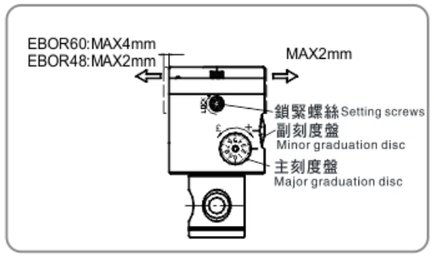
被切材質 Cutting material	碳鋼 Carbon steel	不銹鋼 Stainless steel	鑄鐵 Cast iron	鋁 Aluminium
切削速度VC(m/min)	100–200	70–140	70–140	150–300

■Vc=D × π × n/1000
■Vf=n × F

●Vc：切削速度（m/min）　●Vf：進給速度（mm/min）
●D：加工孔徑（mm）　●F：每轉進給量（mm/rev）
●n：轉速（rpm）　●ap：切入量（mm）

加工尺寸調整方法 Adjusting steps for machining dimensions

1.鬆開鎖緊螺絲。
2.轉動主刻度盤（每小格Ø0.002mm），因主刻度盤每轉動一周移動 Ø 0.1較難觀察，可觀察副刻度盤（每小格Ø 0.1mm），鏜頭最大調節範圍：＋2mm\–2mm（EBOR48），＋4mm\–2mm（EBOR60）。
3.調整完畢後旋緊鎖緊螺絲。
1.Loosen the setting screws.
2.Turn the major graduation ring(each graduation0.002mm),it is difficult to observe due to the fact that the major graduation turns in a circle the moving increment is just 0.1mm,therefore,the minor graduation disc should be observed(each graduation is 0.1mm)
The max adjusting range for boring head: ＋2mm\–2mm（EBOR48）
＋4mm\–2mm（EBOR60）
3.Tighten the locking screw after finishing adjustment



注意事項 Attention

1. 鎖緊螺絲處於鎖緊狀態時請勿轉動刻度盤，以免造成調節機構損壞。
2. 副刻度盤只能用於觀察讀數，禁止用於調節，以免造成調節機構損壞。
3. 裝刀時請注意退刀方向和退刀距離Q＜A，否則會損壞刀具和機床。（圖1）
4. 使用合金鋼刀桿時鎖緊螺絲必需壓住刀桿上的鎖緊平面，否則會壓壞配合面造成刀桿取出困難。（圖2）
5. 鏜孔時會選擇偏移中心最小的刀桿，有利於高速度切削，減少振動。
6. 鏜孔時請選擇適合的刀片，合理的切削用量。具體請參考相關數據。
7. 鏜孔時發生震刀現象：可能是主軸回轉不平衡，則應降低轉速。
內孔粗糙：則減少進給，減小刀尖R角，增大主軸轉速。
內孔有錐度：應注意底孔餘量是否太多或太少，太多應加大底孔，太少時應減小底孔或減小刀尖R角，提高進給。
8. 請保持本產品清潔，滑動部件潤滑，注意防銹，不用時請用防銹油防銹。

1.Please do not turn the graduation disc when the setting screw is tight,in order to avoid damaging the regulating mechanism.
2.The minor graduation disc can only be used for the reading observation,it is forbidden to adjust the minor graduation disc,in order to avoid damaging the regulating mechanism.
3.When mounting the boring holders,please pay attention to the direction and distance of dismantling tool Q<A,otherwise,it may damage the tool and the machine.(FIG 1)
4.When using alloy steel shanks,the setting screw must be in close contact with tightening surface on the shank.Otherwise,it may damage the assembly and result in difficulty in removing the shank.(FIG 2)
5.For boring operation,it is recommended to choose the shank that is the least off–center in order to facilitate high speed machining.
6.For boring operation,please select the suitable inserts and the optimal cutting volume according to reference data.
7.When vibration is taking place during boring operation,please reduce the spindle speed since it may be caused by improper balance of the spindle rotation.In case of a rough bore,please reduce the feed,reduce radius on the cutter tip.Also,Increase the spindle speed.If the bore has a taper,please notice if the bottom bore's remaining volume is excessive or inadequate.Enlarge bottom bore if it is excessive,reduce bottom bore,reduce radius on the cutter tip if it is inadequate.
8.Please keep this product clean and lubricate the moving parts.Anti–rust measures are necessary when the product is not in use.

圖1 FIG 1

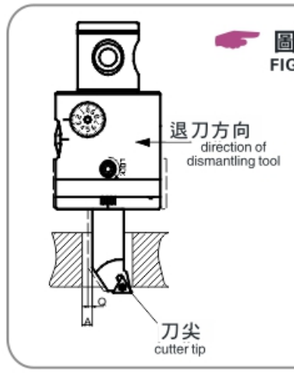
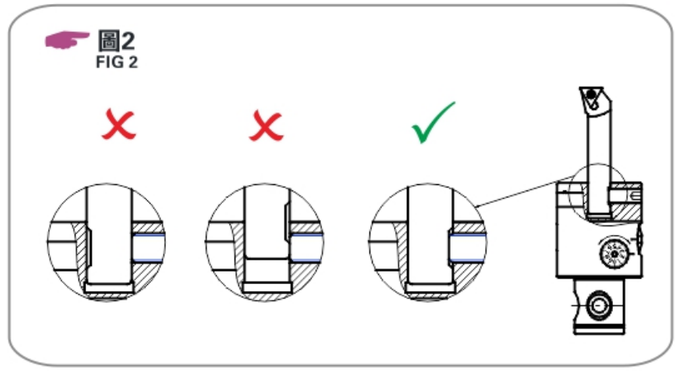


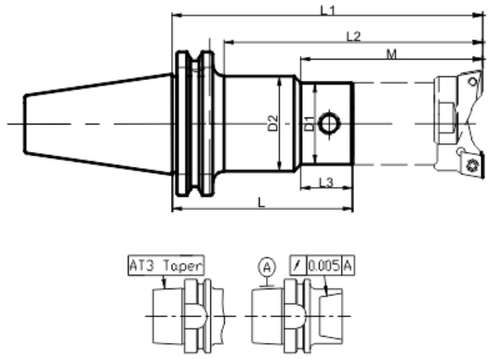
圖2 FIG 2



ECK 鏜刀刀柄 - CAT柄
ECK BORING HOLDERS - CAT SHANK

Evermore®





訂貨型號 Order Code	D1	D2	M	L	L1	L2	L3	重量 Weight
CAT40–ECK1–2.36”	0.906	——	2.992	2.36	3.937	2.992	——	0.9
–3.15”			3.780	3.15	4.724	3.780		1.0
–3.94”		1.417	3.937	3.94	5.512	4.173	2.362	1.1
–ECK2–3.15”	1.142	——	3.976	3.15	4.921	3.976	——	1.0
–3.94”			4.764	3.94	5.709	4.764		1.2
–4.92”		1.575	4.960	4.92	6.693	5.748	3.189	1.4
–ECK3–3.94”	1.457	——	5.157	3.94	6.102	5.157	——	1.4
–4.92”			6.142	4.92	7.087	6.142		1.5
–ECK4–3.94”	1.900		5.354	3.94	6.299	5.354		1.7
–4.92”			6.339	4.92	7.283	6.339		1.9
–ECK5–3.94”	2.362		5.945	3.94	6.900	5.945		1.9
–4.92”			6.929	4.92	7.874	6.929		2.4
–ECK6–3.94”	3.150		6.535	3.94	7.480	6.535		2.7
CAT50–ECK1–4.92”	0.906	1.417	3.937	4.92	6.496	5.551	2.362	3.1
–ECK2–3.94”	1.142	——	4.764	3.94	5.709	4.764	——	2.9
–4.92”			5.748	4.92	6.693	5.748		3.1
–ECK3–3.94”	1.457		5.157	3.94	6.102	5.157		3.2
–4.92”			6.142	4.92	7.087	6.142		3.3
–5.91”			7.126	5.91	8.071	7.126		3.6
–ECK4–3.94”	1.900		5.354	3.94	6.299	5.354		3.3
–5.91”			7.323	5.91	8.268	7.323		4.1
–7.87”			9.291	7.87	10.236	9.291		5.0
–ECK5–5.91”	2.362		7.913	5.91	8.858	7.913		4.8
–7.87”			9.882	7.87	10.827	9.882		6.2
–9.84”			11.850	9.84	12.795	11.850		7.2
–ECK6–5.91”	3.150		8.504	5.91	9.449	8.504		6.8
–7.87”			10.472	7.87	11.417	10.472		8.7
–9.84”			12.441	9.84	13.386	12.441		10.6

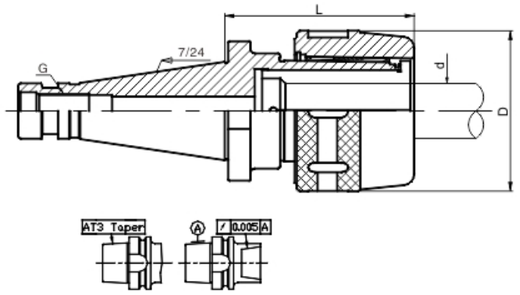
★ 以上所有規格鏜刀刀柄均不含鏜刀頭及拉釘，如有需要請另外訂購。
The above models do not include boring heads and pull studs,please order them separately if necessary.

鏜刀頭 BORING HEAD P1

EMC 強力銑刀刀柄 - DIN2080柄
EMC POWERFUL MILLING HOLDERS - DIN2080 SHANK

Evermore®





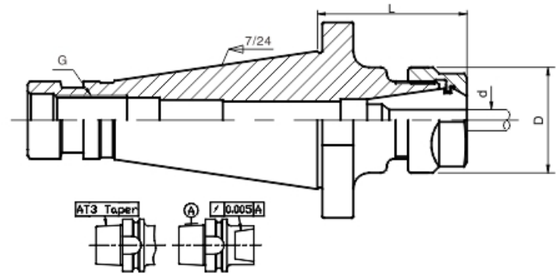
訂貨型號 Order Code	ØD	L	夾持範圍Ød Clamping range	G	重量(Kg) Weight
DIN2080–40–EMC32–90	73.5	90	6–32	M16×2.0	2.2
DIN2080–50–EMC32–90	73.5	90	6–32	M24×3.0	3.9

★ 單獨訂購均不帶筒夾及扳手，如有需要請另外訂購，也可訂購套裝產品（附帶筒夾7個及扳手1把）。
The collet and spanner are not included,please order them additionally if necessary.The tool package of whole set is available on request.(include a spanner and 7 collets)

EMC筒夾 P292 EMC COLLET
扳手 P292 SPANNER

ER 彈性筒夾刀柄 - DIN2080柄
ER COLLET HOLDERS - DIN2080 SHANK





訂貨型號 Order Code	ØD	L	夾持範圍Ød Clamping range	G	重量(Kg) Weight
DIN2080–30–ER32 –60	50	60	2.0–20	M12	0.7
–ER40 –60	63	60	3.0–26		0.9
DIN2080–40–ER32 –50	50	50	2.0–20	M16	1.0
–ER40 –50	63	50	3.0–26		1.2
DIN2080–50–ER32 –50	50	50	2.0–20	M24	2.8
–ER40 –50	63	50	3.0–26		3.0

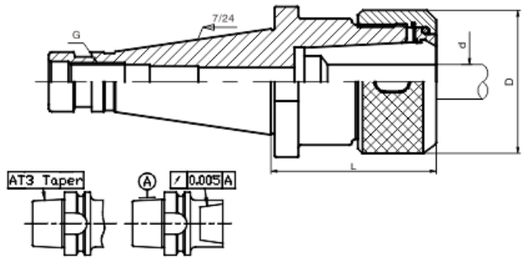
★ 以上規格均不含扳手及筒夾，如有需要請另外訂購。
The above model does not contain spanners and collets ,please order them additionally if necessary.

ER螺母 ER NUT P295
ER筒夾 ER COLLET P294
扳手 SPANNER P295

OZ 彈性筒夾刀柄 - DIN2080柄
OZ COLLET HOLDERS - DIN2080 SHANK

Evermore®





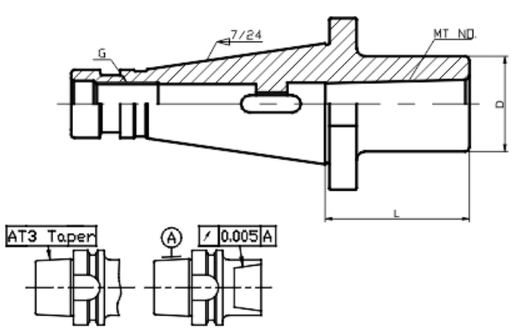
訂貨型號 Order Code	ØD	L	夾持範圍 ød Clamping range	G	重量(Kg) Weight
DIN2080–30–OZ25–70	60	70	6~25	M12 × 1.75	0.9
DIN2080–40–OZ25–70	60	70	6~25	M16 × 2.0	1.3
–OZ32–70	78	70	6~32		2.0
DIN2080–50–OZ25–80	60	80	6~25	M24 × 3.0	3.4
–OZ32–80	78	80	6~32		4.1

★ 以上規格均不含扳手及筒夾，如有需要請另外訂購。
The above model does not contain spanners and collets ,please order them additionally if necessary.

OZ螺母 OZ NUT P297 | OZ筒夾 OZ COLLET P296 | 扳手 SPANNER P297

MTA 有扁尾莫氏錐孔刀柄 - DIN2080柄
MTA MORSE TAPER HOLDERS - DIN2080 SHANK



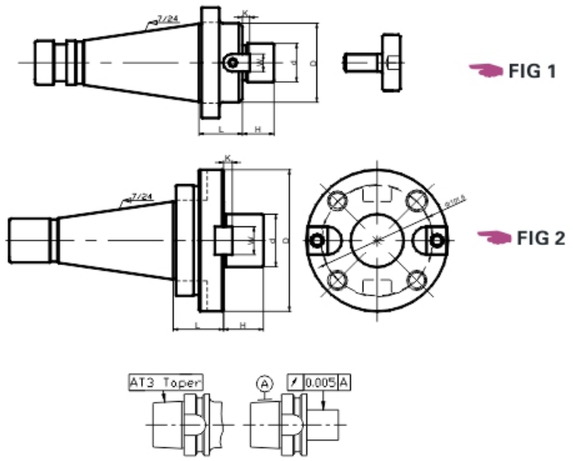


訂貨型號 Order Code	莫氏錐號 MT NO.	L	ød D	G	ød D
DIN2080–40–MTA1–45	1	45	25	M16x2.0	0.6
–MTA2–45	2	45	35	M16 × 2.0	0.7
–MTA3–75	3	72	42		1.1
DIN2080–50–MTA2–45	2	45	35	M24 × 3.0	2.7
–MTA3–45	3		42		2.7
–MTA4–75	4	75	50		3.0

FMA 面銑刀柄 - DIN2080柄
FMA FACE MILL HOLDERS - DIN2080 SHANK

Evermore®



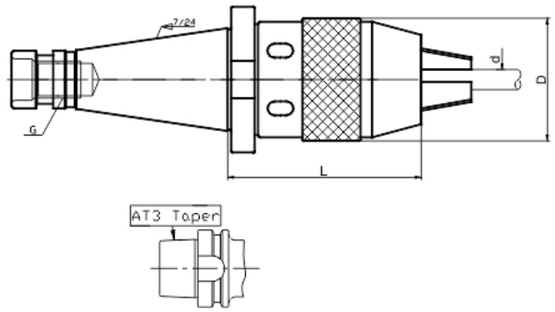


訂貨型號 Order Code	圖號 FIG	L	ød(h6)	ØD	H	K	W	重量(Kg) Weight
DIN2080–30–FMA25.4–20	1	20	25.4	50	20	5	9.5	0.7
–FMA31.75–25		25	31.75	60	22	7	12.7	0.9
–FMA38.1–30		30	38.1	80	25	9	15.9	1.5
DIN2080–40–FMA25.4–25	1	25	25.4	50	20	5	9.5	1.2
–FMA31.75–25			31.75	60	22	7	12.7	1.4
–FMA38.1–30		30	38.1	80	25	9	15.9	2.0
–FMA50.8–35		35	50.8	100	28	12		3.2
DIN2080–50–FMA25.4–35	1	35	25.4	50	20	5	9.5	3.2
–FMA31.75–35			31.75	60	22	7	12.7	3.4
–FMA38.1–35			38.1	80	25	9	15.9	3.9
–FMA50.8–35			50.8	100	28	12		4.8
–FMA47.625–45	2	45	47.625	128	32	12.5	25.4	6.2

KPU 鑽夾頭刀柄 - DIN2080柄
KPU DRILL CHUCK HOLDERS - DIN2080 SHANK

Evermore®

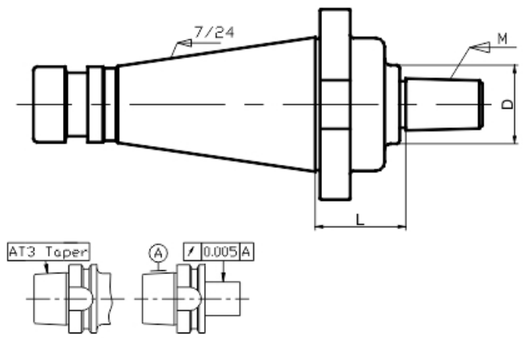




訂貨型號 Order Code	L	ØD	夾持能力ød Clamping range	G（公制）	重量(Kg) Weight
DIN2080–30–KPU08	70	36	0.5–8	M12	0.7
–KPU13	85.5	50	0.5–13		1.2
DIN2080–40–KPU08	70	36	0.5–8	M16	1.1
–KPU13	85	50	0.5–13		1.6
–KPU16	105	57	3–16		2.3
DIN2080–50–KPU13	95	50	0.5–13	M24	3.9
–KPU16	100	57	3–16		4.2

JTA 型錐型鑽夾頭刀柄 - DIN2080柄
JTA TAPER DRILL CHUCK HOLDERS - DIN2080 SHANK





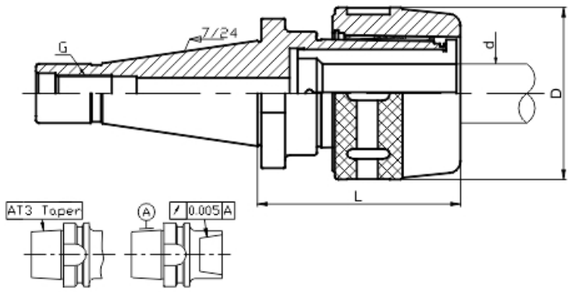
訂貨型號 Order Code	锥号 M	L	ØD	重量(Kg) Weight
DIN2080–40–JT6	JT6	30	26	0.9
DIN2080–50–JT6	JT6	38	26	2.8

▲本系列刀柄需配合JTA錐孔鑽夾頭使用。
This holder series need to work with JTA drill collet chucks.

EMC 強力銑刀刀柄 - NT柄
EMC POWERFUL MILLING HOLDERS - NT SHANK

Evermore®





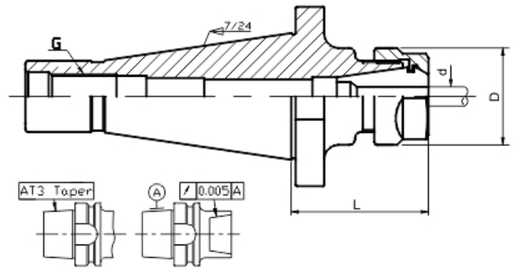
訂貨型號 Order Code	ØD	L	夾持範圍ød Clamping range	G (inch)	重量(Kg) Weight
NT40–EMC32–90	73.5	90	6–32	5/8"–11UNC	2.1
NT50–EMC32–90	73.5	90	6–32	1"–8UNC	4.0

★ 單獨訂購均不帶筒夾及扳手，如有需要請另外訂購，也可訂購套裝產品（附帶筒夾7個及扳手1把）。
The collet and spanner are not included,please order them additionally if necessary.The tool package of whole set is available on request.(include a spanner and 7 collets)

EMC筒夾 P292 EMC COLLET
扳手 P292 SPANNER

ER 彈性筒夾刀柄 - NT柄
ER COLLET HOLDERS - NT SHANK





訂貨型號 Order Code	ØD	L	夾持範圍ød Clamping range	G(inch)	重量(Kg) Weight
NT30–ER32(12) –60	50	60	2.0–20	1/2 –12UNC	0.8
–ER32(13) –60				1/2 –13UNC	0.8
NT40–ER32 –50	50	50	2.0–20	5/8 –11UNC	1.0
–ER40 –50	63	50	3.0–26		1.2
NT50–ER32 –50	50	50	2.0–20	1 –8UNC	3.1
–ER40 –50	63	50	3.0–26		2.9

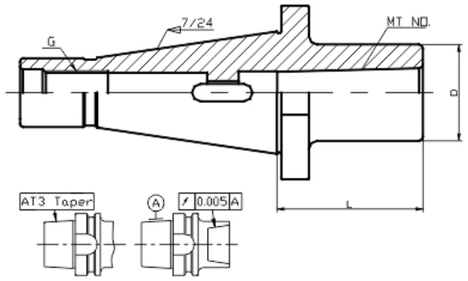
★ 以上規格均不含扳手及筒夾，如有需要請另外訂購。
The above model does not contain spanners and collets ,please order them additionally if necessary.

ER螺母 P295 ER NUT
ER筒夾 P294 ER COLLET
扳手 P295 SPANNER

MTA 有扁尾莫氏錐孔刀柄 - NT柄
MTA MORSE TAPER HOLDERS - NT SHANK

Evermore®

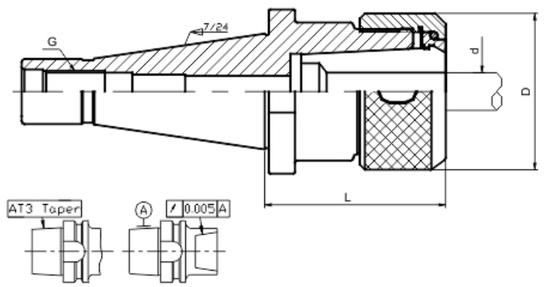




訂貨型號 Order Code	莫氏錐號 MT NO .	L	⌀D	G	重量(Kg) Weight
NT50–MTA1–45	1	45	25	1 " –8UNC	2.7
–120		120			3.0
–MTA2–45	2	45	35		2.7
–135		135			3.4
–MTA3–45	3	45	42		2.7
–150		150			3.8
–MTA4–75	4	75	50		2.9
–190		190			4.3

OZ 彈性筒夾刀柄 - NT柄
OZ COLLET HOLDERS - NT SHANK





訂貨型號 Order Code	ØD	L	夾持範圍 ⌀d Clamping range	G(inch)	重量(Kg) Weight
NT30–OZ25(12) –70	60	70	6~25	1/2 " –12UNC	1.0
–OZ25(13) –70				1/2 " –13UNC	1.0
NT40–OZ25 –70			6~25	5/8 " –11UNC	1.4
–OZ32 –70	78		6~32		2.0
NT50–OZ25 –80	60	80	6~25	1 " –8UNC	3.4
–OZ32 –80	78		6~32		4.1

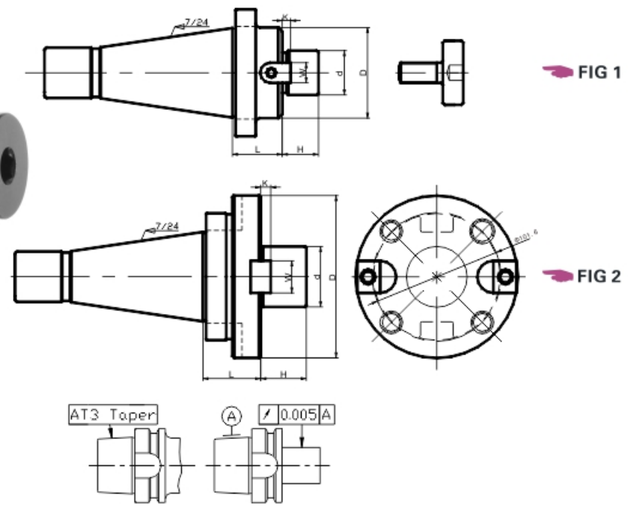
★ 以上規格均不含扳手及筒夾，如有需要請另外訂購。
The above model does not contain spanners and collets ,please order them additionally if necessary.

OZ螺母 OZ NUT P297 | OZ筒夾 OZ COLLET P296 | 扳手 SPANNER P297

FMA 面銑刀柄 - NT柄
FMA FACE MILL HOLDERS - NT SHANK

Evermore®



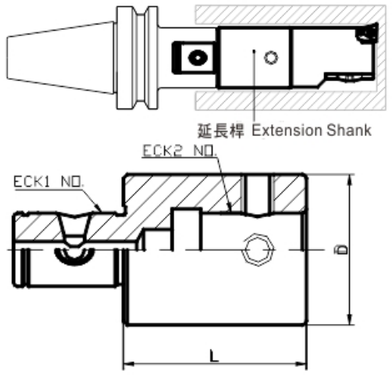


訂貨型號 Order Code	圖號 FIG	L	⌀d(h6)	⌀D	H	K	W	重量(Kg) Weight
NT30–FMA25.4–20	1	20	25.4	50	20	5	9.5	0.7
–FMA31.75–25		25	31.75	60	22	7	12.7	1.0
–FMA38.1–30		30	38.1	80	25	9	15.9	1.5
NT40–FMA25.4–25	1	25	25.4	50	20	5	9.5	1.2
–FMA31.75–25			31.75	60	22	7	12.7	1.4
–FMA38.1–30		30	38.1	80	25	9	15.9	2.0
–FMA50.8–35		35	50.8	100	28	12		3.2
NT50–FMA25.4–35	1	35	25.4	50	20	5	9.5	3.2
–FMA31.75–35			31.75	60	22	7	12.7	3.4
–FMA38.1–35			38.1	80	25	9	15.9	4.0
–FMA50.8–35			50.8	100	28	12		4.8
–FMA47.625–45	2	45	47.625	128	32	12.5	25.4	6.3

鏜刀延長桿
EXTENSION SHANK FOR BORING HOLDERS

Evermore®

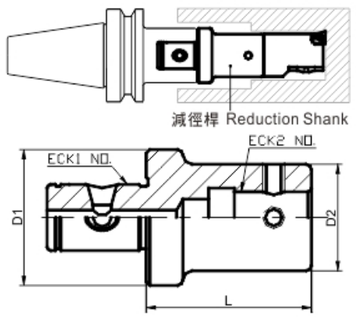




訂貨型號 Order Code	ECK1 No .	ECK2 No .	L	ØD
ECK0–0–35	0	0	35	21
ECK1–1–45	1	1	45	23
ECK2–2–45	2	2	45	29
ECK3–3–45	3	3	45	37
ECK4–4–45	4	4	45	48
ECK5–5–75	5	5	75	60
ECK6–6–75	6	6	75	80

鏜刀減徑桿
REDUCTION SHANK FOR BORING HOLDERS





訂貨型號 Order Code	ECK1 No .	ECK2 No .	L	ØD1	ØD2
ECK1–0–35	1	0	35	23	21
ECK2–0–35	2	0	35	29	21
ECK2–1–45	2	1	45	29	23
ECK3–1–45	3	1	45	37	23
ECK3–2–45		2			29
ECK4–2–45	4	2	45	48	29
ECK4–3–45		3			37
ECK5–3–75	5	3	75	60	37
ECK5–4–75		4			48
ECK6–4–100	6	4	100	80	48
ECK6–5–100		5			60

ECK 硬質合金抗震深孔鏜刀柄
ECK HEAD ALLOY STEEL BORING HEAD SHANK FOR Anti-vibration,deep hole machining

Evermore®

- ▼ 採用進口超微粒硬質合金棒，抗震性好。
- ▼ 中心出水設計，可提高刀具使用壽命。
- ▼ ECK模塊化接口設計。
- ▼ 最大可加工深度L/D=6倍。

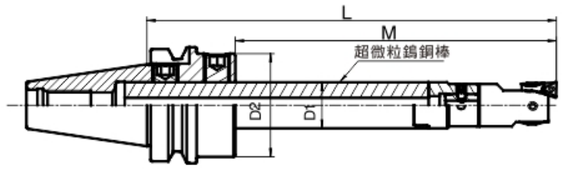
It uses imported hard alloy steel which contains micro particle and hard materials so that anti–vibration is excellent.
The internal coolant design prolong the lifetime of the cutting tools.
It is designed to have ECK modular interface
Max. Machining depth L/D=6 times.



深孔加工的理想選擇
Your best choice
for deep hole machining







Tungsten Carbide Rods (ultrafine particles)

訂貨型號 Order Code	ØD1	ØD2	M	L
BT40-ECK1-165	25	56	165	213
BT40-ECK2-190	32	60	190	270
BT50-ECK1-155	25	65	155	220
BT50-ECK2-185	32	72	185	250
BT50-ECK3-230	40	72	230	295
BT50-ECK4-295	50	80	295	360



加工實例
Machining examples

加工數據：
加工設備：BT50立式加工中心
工件材質：45＃
鏜桿直徑：37
鏜桿長度：240
轉速：1500 r/min
切深：0.3
進給：120 mm/r
表面粗糙度：Ra0.83
Machining data:
Machine:BT50 vertical machining center
Workpiece material:45#
Boring bar diameter:37
Boring bar length:240
Speed:1500rpm
Cutting depth:0.3
Feed:120mm/r
Surface roughness:Ra0.83

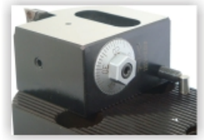
採用模塊化設計，只需幾個簡單的組合部件即可實現直徑150-505mm孔各種加工。既節省了採購成本，又可以簡化刀具管理。

The modular design allows you to carry out various machining for bore diameters,ranging from 150~505mm and all you need is just a few combination parts,therefore,the purchasing costs are reduced and tool management is simplified.



粗鏜
Rough boring

▶高精度的快速調節刻度盤，增加使用外六角扳手，使得轉動精確、省力。
High accuracy,quick adjusting graduation ring with allen wrenches allows you to turn precisely.





精鏜
Fine boring

▶具有徑向調整機構，可以把兩滑塊調整到完全平衡，大幅度提高加工精度。大切深時可選用段差型滑塊，利用段差切削減少刀具數量。
With a radial adjustable mechanism,you can adjust the sliding block to a perfect balance,so that the machining accuracy is greatly improved.For a major cutting the stepped blocks should be used,it reduces the number of tools by using the stepped blocks.

▲精鏜系統徑向進給精度為0.01mm，對於直徑150-505mm之間只需要更換橫板就可以相應的轉換。同時配有平衡塊使鏜刀處於平衡狀態，提高加工條件和加工精度。加工面表面粗糙度最高可達Ra0.4。
Fine boring head system,its radial feed accuracy is0.01mm.For bore diameter 150~505mm,you can do the replacement by changing the traverse plate.It is equipped with a balancing block which allows the boring head to stay in a balancing condition.Therefore,it can improve the machining condition and machining accuracy.Its machining surface roughness can be up to Ra0.4.



外鏜
Outer boring



▲對於一些不適於旋轉的外圓可選用外鏜刀頭進行外鏜加工。
For workpieces that are not suitable for revolving,one can choose outer boring head for outer boring processing.

反鏜
Counter boring



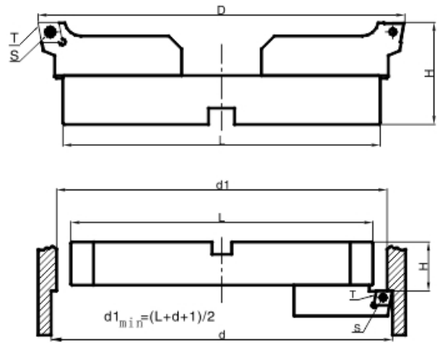
▲在鏜背面的孔時，往往需要將工件反向重新裝夾，不僅浪費時間，而且很難保證前後孔的同軸度。在退刀條件允許的情況下，只需要更換滑塊即可進行反鏜加工，既能保證精度，又能提高生產效率。
When boring the workpiece in the reverse side,usually the workpiece needs to be mounted in the counter direction,consequently,it is time-consuming and the co-axis accuracy of bores in the front and in the back can not be assured.If the tool dismantling conditions are ok,the counter-boring operation can be carried out by replacing the sliding block only,thus assuring machining accuracy and enhancing production efficiency.

大範圍粗鏜刀頭
LARGE DOUBLE CUTTER ROUGH BORING HEADS

Evermore®

鏜孔範圍 Boring range Ø150–505





訂貨型號 Order Code	ECK No .	L	H	加工直徑 Boring range ØD	刀片 Insert T	刀片螺絲 Insert screw S	圖號 FIG	重量Kg Weight
LERB150–205	7	145	65	150–205	CCMT120408	CSTB–5	FIG1	2.4
LERB200–255		195	65	200–255				3.2
LERB250–305		245	70	250–305				4.6
LERB300–355		295	70	300–355				5.4
LERB350–405		345	75	350–405				7.2
LERB400–455		395	75	400–455				8.1
LERB450–505		445	80	450–505				10.3
LERB150–205F	7	145	35	150–205	CCMT120408	CSTB–5	FIG2	2.0
LERB200–255F		195	35	200–255				2.8
LERB250–305F		245	40	250–305				4.2
LERB300–355F		295	40	300–355				4.9
LERB350–405F		345	45	350–405				6.8
LERB400–455F		395	45	400–455				7.7
LERB450–505F		445	50	450–505				9.9

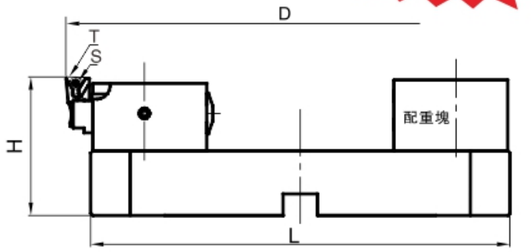
★ 上表中F系列爲反鏜規格（圖2）
The F series are specifications for counter–boring.(FIG 2)

大範圍精鏜刀頭
LARGE DOUBLE CUTTER FINE BORING HEADS

Evermore®

鏜孔範圍 Boring range Ø150–505

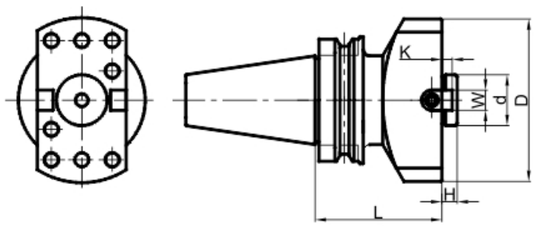




訂貨型號 Order Code	ECK No .	L	H	加工直徑 Boring range ØD	刀片 Insert T	刀片螺絲 Insert screw S	重量Kg Weight
LEFB150–205	7	145	65	150–205	TPGT090202	CSTB2.5	2.9
LEFB200–255		195	65	200–255			3.7
LEFB250–305		245	70	250–305			5.1
LEFB300–355		295	70	300–355			5.9
LEFB350–405		345	75	350–405			7.7
LEFB400–455		395	75	400–455			8.6
LEFB450–505		445	80	450–505			10.8

大範圍鏜刀刀柄
LARGE BORING HOLDERS



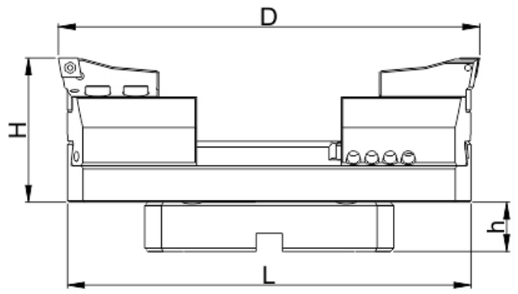


訂貨型號 Order Code	ECK No .	L	H	W	K	Ød	ØD	重量Kg Weight
BT50–ECK7A –100	7	100	12	8	8	40	128	7.3
–150		150						8.9
–200		200						10.4
–250		250						11.9
–300		300						13.4
SK50–ECK7A –100		100						7.2
–150		150						8.6
–200		200						10
NT50–ECK7A –100		100						7.2
–150		150						8.6
–200		200						10

大範圍粗鏜刀頭(鋁合金)
LARGE DOUBLE CUTTER ROUGH BORING HEAD (Aluminium Alloy)

Evermore®





訂貨型號 Order Code	加工直徑 Boring range ØD	H	刀柄規格 Shank model	加强板 Bracing sheet 型號 Model	加强板 Bracing sheet 重量Kg Weight	加强板 Bracing sheet h	鋁合金橫板 Cross member (Aluminium alloy) 型號 Model	鋁合金橫板 Cross member (Aluminium alloy) L	鋁合金橫板 Cross member (Aluminium alloy) 重量Kg Weight
LRB150–200	150–200	95	ECK7A	--	--	--	LB150–200	145	0.8
LRB200–270	200–270	95					LB200–270	195	1.1
LRB270–340	270–340	95					LB270–340	265	1.5
LRB340–410	340–410	100					LB340–410	335	2.2
LRB410–480	410–480	100					LB410–480	405	2.7
LRB480–550	480–550	100		FL220	3.0	30	LB480–550	475	3.2
LRB550–620	550–620	100					LB550–620	545	3.7
LRB620–690	620–690	105					LB620–690	615	5.2
LRB690–760	690–760	105		FL350	5.0	30	LB690–760	685	5.8
LRB760–830	760–830	105					LB760–830	755	6.5

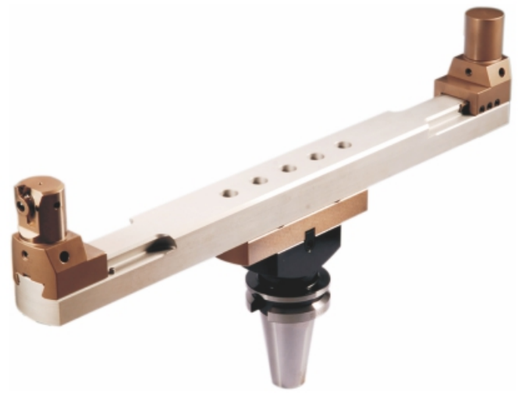
訂貨型號 Order Code	固定座 Fixing base 型號 Model	固定座 Fixing base 重量Kg Weight	刀片座 Insert base 型號 Model	刀片座 Insert base 重量Kg Weight	刀片型號 Insert	刀片螺絲 Insert screw
LRB150–200	CB150	1.6	LRB150	0.75	CCMT120408	CSTB5
LRB200–270	CB200	2.2				
LRB270–340						
LRB340–410						
LRB410–480						
LRB480–550						
LRB550–620						
LRB620–690						
LRB690–760						
LRB760–830						

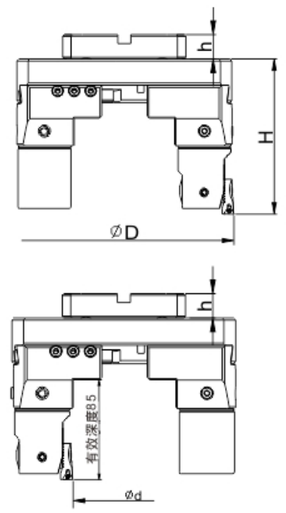
※為了保證鏜刀的最佳剛性，在直徑480以下另配有鋼製橫板供選購。
※ In order to guarantee the best rigidity of the boring holders,another steel horizontal board can be chosen(diameter below 480mm).

訂貨型號 Order Code	L	重量Kg Weight
SB150–200	145	2.1
SB200–270	195	3.0
SB270–340	265	4.3
SB340–410	335	6.5
SB410–480	405	8.0

大範圍精鏜刀頭(鋁合金)
LARGE DOUBLE CUTTER FINE BORING HEAD (Aluminium Alloy)

Evermore®





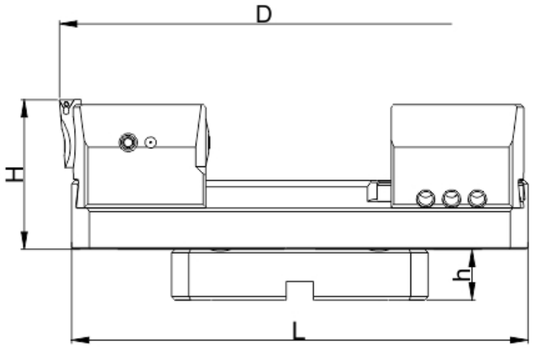
訂貨型號 Order Code	加工直徑 Boring range ØD	加工直徑 Boring range Ød	H	刀柄規格 Shank model	加强板 Bracing sheet 型號 Model	加强板 Bracing sheet 重量Kg Weight	加强板 Bracing sheet h	鋁合金橫板 Cross member (Aluminium alloy) 型號 Model	鋁合金橫板 Cross member (Aluminium alloy) L	鋁合金橫板 Cross member (Aluminium alloy) 重量Kg Weight
LFBS150–200	150–200	10–80	140	ECK7A	--	--	--	LB150–200	145	0.8
LFBS200–270	200–270	40–135	140					LB200–270	195	1.1
LFBS270–340	270–340	110–205	140					LB270–340	265	1.5
LFBS340–410	340–410	180–275	145					LB340–410	335	2.2
LFBS410–480	410–480	250–345	145					LB410–480	405	2.7
LFBS480–550	480–550	320–415	145		FL220	3.0	30	LB480–550	475	3.2
LFBS550–620	550–620	390–485	145					LB550–620	545	3.7
LFBS620–690	620–690	460–555	150					LB620–690	615	5.2
LFBS690–760	690–760	530–625	150		FL350	5.0	30	LB690–760	685	5.8
LFBS760–830	760–830	600–695	150					LB760–830	755	6.5

訂貨型號 Order Code	固定座 Fixing base 型號 Model	固定座 Fixing base 重量Kg Weight	精鏜頭型號 Fine boring head type	配重塊 Balance block	刀片及刀片座型號 Insert and base	刀片螺絲 Insert screw
LFBS150–200	TB150	0.9	FBN54–76 ECK4	BA–ECK4 (0.8kg)	TP0902 (TC1102) FIH4	CSTB–2.5
LFBS200–270	TB200	1.2				
LFBS270–340						
LFBS340–410						
LFBS410–480						
LFBS480–550						
LFBS550–620						
LFBS620–690						
LFBS690–760						
LFBS760–830						

大範圍精鏜刀頭(鋁合金)
LARGE DOUBLE CUTTER FINE BORING HEAD (Aluminium Alloy)

Evermore®





訂貨型號 Order Code	加工直徑 Boring range ØD	H	刀柄規格 Shank model	加强板 Bracing sheet 型號 Model	重量Kg Weight	h	鋁合金橫板 Cross member (Aluminium alloy) 型號 Model	L	重量Kg Weight
LFB150–200	150–200	95	ECK7A	--	--	--	LB150–200	145	0.8
LFB200–270	200–270	95					LB200–270	195	1.1
LFB270–340	270–340	95					LB270–340	265	1.5
LFB340–410	340–410	100					LB340–410	335	2.2
LFB410–480	410–480	100					LB410–480	405	2.7
LFB480–550	480–550	100		FL220	3.0	30	LB480–550	475	3.2
LFB550–620	550–620	100					LB550–620	545	3.7
LFB620–690	620–690	105					LB620–690	615	5.2
LFB690–760	690–760	105		FL350	5.0	30	LB690–760	685	5.8
LFB760–830	760–830	105					LB760–830	755	6.5

訂貨型號 Order Code	精鏜頭 Fine boring head 型號 Model	重量Kg Weight	配重塊 Balance block 型號 Model	重量Kg Weight	刀片及刀片座型號 Insert and base	刀片螺絲 Insert screw
LFB150–200	EMW150	1.47	BMW150	1.3	TP0902 (TC1102) FIH4	CSTB2.5
LFB200–270						
LFB270–340						
LFB340–410						
LFB410–480						
LFB480–550						
LFB550–620						
LFB620–690						
LFB690–760						
LFB760–830						



DGB60-ECK5

調整精度：Ø 0.001mm

Adjustment accuracy: Ø 0.001mm

DGB 數位顯示鏜刀頭 DGB Digital Boring head

DGB デジタルディスプレイボーリングヘッド

- 最大ストローク：3.5mm
- 最小目盛：ø 0.001mm
- ボーリング範囲：ø 3-208
  ø 4-114 (外径ボーリング)
- 最高回転速度：12000r/min
- 防水等級：IP67
- クーラント最大圧力：4MPa

デジタルディスプレイにより、ツールセッタは必要ありません。ストロークを直接調整でき、すべての調整プロセスが非常にシンプルで簡単になります。

■ 特色：

- 簡單、方便、直觀 的檢測調整量
- 高精度
- 縮短調整時間

■ 主要功能：

- 最大調節量：3.5mm
- 最小顯示值：Φ0.001
- 鏜孔範圍：Φ3-208, Φ4-114(外鏜)
- 最高轉速：12000r/min
- 防水等級：IP67
- 最大冷卻液壓力：4MPa

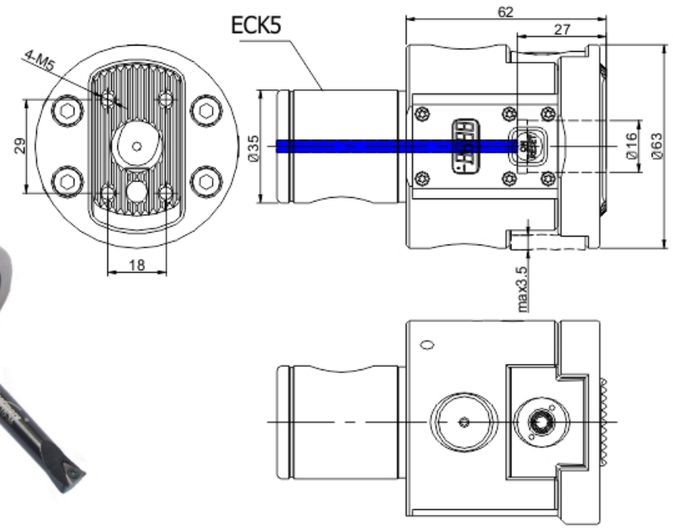
■ Feature:

- Directly detect the adjustment value.
- High Accuracy
- Adjustment process becomes quite simple and intuitive.

■ Major Specification:

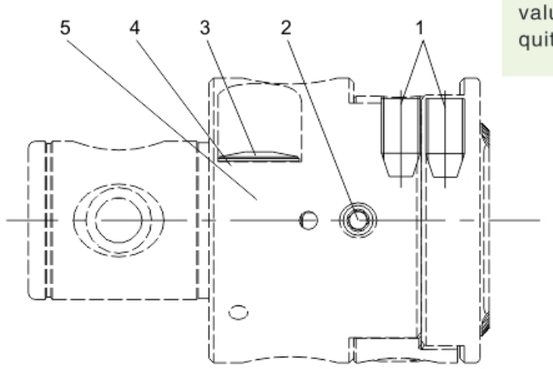
- Max Regulated quantity: 3.5mm
- Min display value: Φ0.001
- Boring range:Φ3-208, Φ4-114
- Max speed: 12000r/min
- Waterproof class: IP 67
- Max coolant pressure: 4MPa





訂貨型號 Order Code
DGB60–ECK5

將高精度數顯測量裝置裝入鏜頭，直接檢測調整量，使整個調節過程變得相當簡單直觀。
Put the high–precision digital measuring device into the boring head,directly detect the adjustment value,the whole adjustment process becomes quite simple and intuitive.

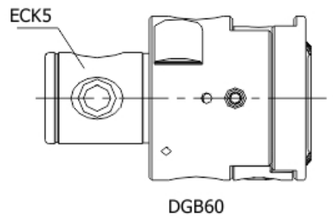


最大調節量： 3.5mm
最小顯示值： Ø0.001
鏜孔範圍：Ø3-208
Ø4-114(外鏜)
最高轉速：12000 r/min
防水等級：IP 67
最大冷卻液壓力：4MPa

Max regulated quantity: 3.5mm
Min display value: ø 0.001
Boring range: ø 3–208
ø4–114 (outer boring)
Max speed:12000 r/min
Waterproof class:IP67
Max coolant pressure:4MPa

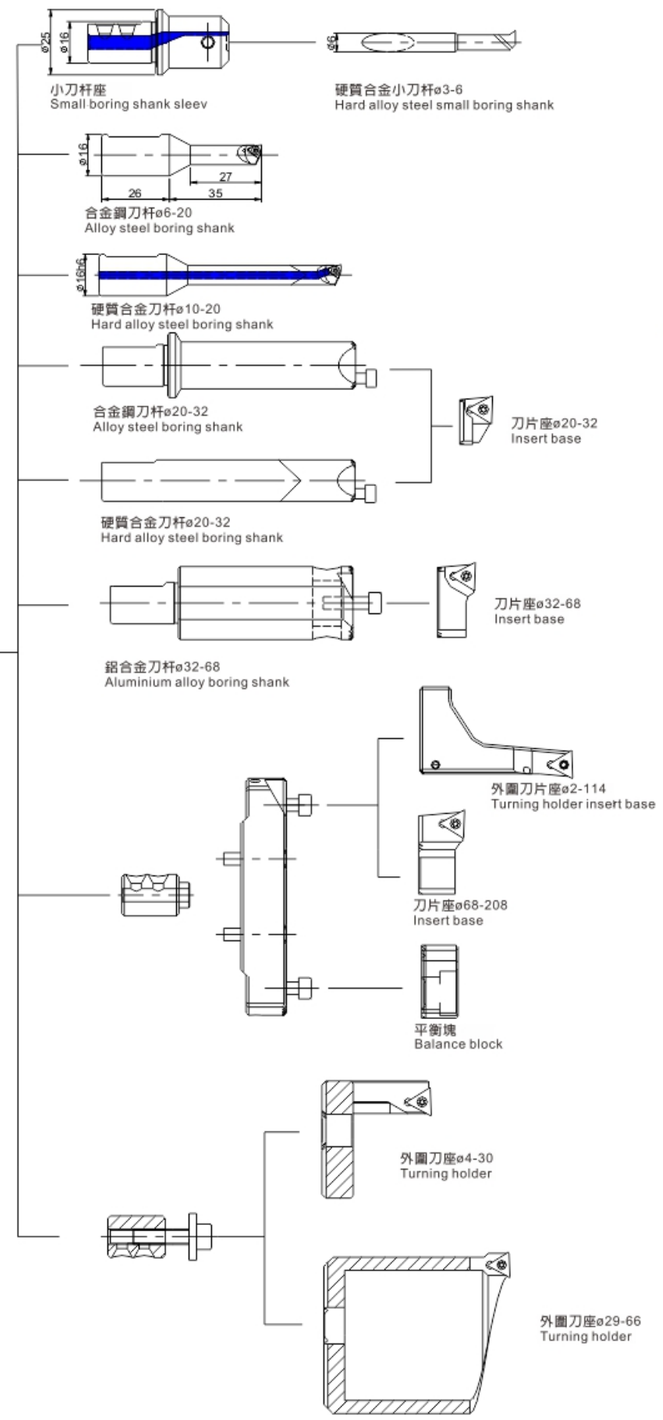
1	2	3	4	5
螺絲 Screw	螺絲 Screw	電池盒 Battery case	O型圈 O–Ring	電池 Battery
TPM8×14L	BLM8×8L	CVB01	14×1.0	LR44×2



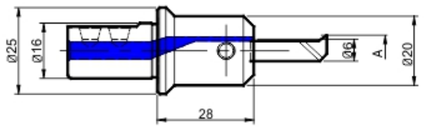


DGB60



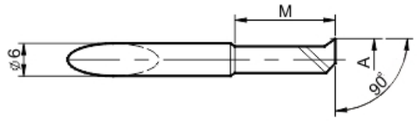


小刀桿座
Small boring shank sleeve



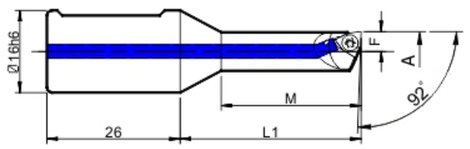
訂貨型號 Order Code	ØA	重量(Kg) Weight
D06–28	3–8	0.03

硬質合金小刀桿
Hard alloy steel small boring shank



訂貨型號 Order Code	ØA	M	重量(Kg) Weight
DB0603–11	3	11	
DB0603–16.5	3	16.5	
DB0604–12	4	12	
DB0604–17	4	17	
DB0604–22	4	22	
DB0605–12	5	12	
DB0605–22	5	22	
DB0605–32	5	32	
DB0606–22	6	22	
DB0606–32	6	32	
DB0606–42	6	42	

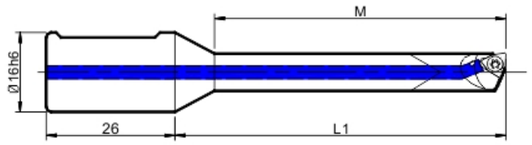
刀桿
Boring shank



訂貨型號 Order Code	ØA(推薦)	ØA(max)	M	L	刀片 Insert	刀片螺絲 Insert screw	扳手 Wrench	重量(Kg) Weight
DB1606–19	6–8	6–13	19	43	WBGT020102	CSTB–2	T6	0.05
DB1608–27	8–10	8–15	27	43	TBGT060102	CSTB–2	T6	0.05
DB1610–36	10–11	10–17	36	53	TBGT060102	CSTB–2	T6	0.06
DB1611–36	11–12	11–18	36	53	TPGH090204	CSTB–2.5	T8	0.06
DB1612–42	12–13	12–19	42	53	TPGH090204	CSTB–2.5	T8	0.06
DB1613–42	13–14	13–20	42	53	TCMT110204	CSTB–2.5	T8	0.08
DB1614–50	14–15	14–21	50	53	TCMT110204	CSTB–2.5	T8	0.09
DB1615–50	15–16	15–22	50	53	TCMT110204	CSTB–2.5	T8	0.10
DB1616–57	16–17	16–23	57	61	TCMT110204	CSTB–2.5	T8	0.11
DB1617–57	17–18	17–24	57	61	TCMT110204	CSTB–2.5	T8	0.12
DB1618–57	18–19	18–25	57	61	TCMT110204	CSTB–2.5	T8	0.13
DB1619–65	19–20	19–26	65	68	TCMT110204	CSTB–2.5	T8	0.15
DB1620–65	20–21	20–27	65	68	TCMT110204	CSTB–2.5	T8	0.15

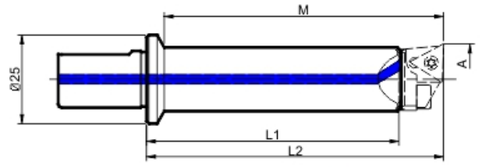
■標準品不能用於中心出水，如有需要，請訂購時在型號後註明"W"
Standard type can not be supplied with through coolant, if you need internal coolant type, please maked with "w" to the order code.

硬質合金刀桿
Hard alloy steel boring shank



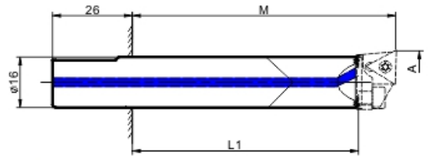
訂貨型號 Order Code	ØA	M	L	刀片 Insert	刀片螺絲 Insert screw	扳手 Wrench	重量(Kg) Weight
DB1610–70	10–12	70	72	TPGT060102	CSTB–2	T6	0.14
DB1612–85	12–14	85	87	TPGH090204	CSTB–2.5	T8	0.18
DB1614–90	14–16	90	92	TPGH090204	CSTB–2.5	T8	0.22
DB1616–110	16–18	110	112	TCMT110204	CSTB–2.5	T8	0.32
DB1618–120	18–20	120	122	TCMT110204	CSTB–2.5	T8	0.40

刀桿
Boring shank



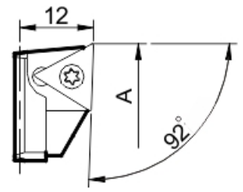
訂貨型號 Order Code	ØA	M	L1	L2
D2032–72	20–32	77	72	84

硬質合金小刀桿
Hard alloy steel boring shank



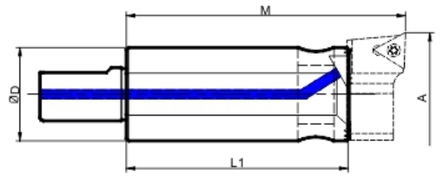
訂貨型號 Order Code	ØA	M	L1
D2032–100	20–32	112	100

刀片座
Insert base



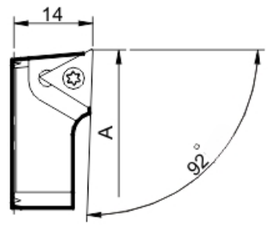
訂貨型號 Order Code	ØA(推薦)	ØA(max)	刀片 Insert	刀片螺絲 Insert screw	扳手 Wrench	重量(Kg) Weight
DH20–22	20–22	20–24	TCMT110204	CSTB–2.5	T8	0.02
DH22–24	22–24	22–26	TCMT110204	CSTB–2.5	T8	0.02
DH24–26	24–26	24–28	TCMT110204	CSTB–2.5	T8	0.02
DH26–28	26–28	26–30	TCMT110204	CSTB–2.5	T8	0.03
DH28–30	28–30	28–32	TCMT110204	CSTB–2.5	T8	0.03
DH30–32	30–32	30–34	TCMT110204	CSTB–2.5	T8	0.03

刀桿
Boring shank



訂貨型號 Order Code	D	ØA	M	L1	重量(Kg) Weight
D28–66	28	32–50	66	52	0.12
D28–102	28	32–50	102	88	0.16
D46–88	46	50–68	75	61	0.2
D46–120	46	50–68	120	106	0.32

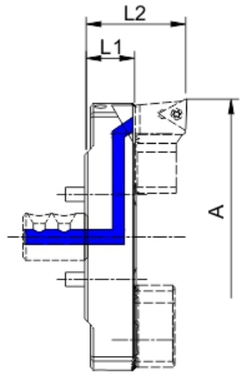
刀片座
Insert base

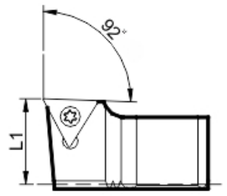


訂貨型號 Order Code	ØA	刀片 Insert	刀片螺絲 Insert screw	扳手 Wrench	重量(Kg) Weight
DH32–41	32–41	TCMT110204	CSTB–2.5	T8	0.03
DH41–50	41–50	TCMT110204	CSTB–2.5	T8	0.03
DH50–59	50–59	TCMT110204	CSTB–2.5	T8	0.04
DH59–68	59–68	TCMT110204	CSTB–2.5	T8	0.04

橫板
Cross member

訂貨型號 Order Code	øA	L1	L2	重量(Kg) Weight
D68–17	68–96	16	32.5	0.1
D96–17	96–124	16	32.5	0.12
D124–17	124–152	16	32.5	0.2
D152–22	152–180	21	38.5	0.25
D180–22	180–208	21	38.5	0.3

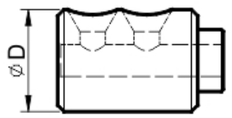




刀片座
Insert base

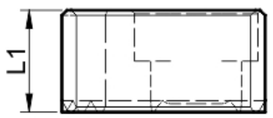
訂貨型號 Order Code	L1	刀片 Insert	刀片螺絲 Insert screw	扳手 Wrench	重量(Kg) Weight
DH68–208	16.5	TCMT110204	CSTB–2.5	T8	0.05

引水柱
Coolant pin



訂貨型號 Order Code	øD	重量(Kg) Weight
DBW16	16	0.05

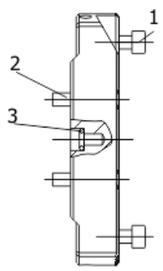
平衡塊
Balance block

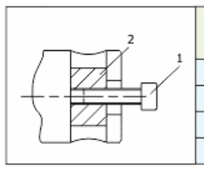


訂貨型號 Order Code	L1	重量(Kg) Weight
DB68–208	14	0.05

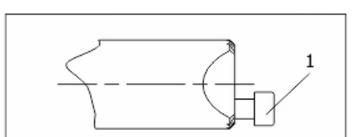
零件
Parts

適用橫板型號 Cross member type	1	2	3	扳手 Wrench
D68–17	M5 × 12L	M5 × 16L	O型圈 O–Ring 7 × 1.8	S4
D96–17				
D124–17				
D152–22		M5 × 20L		
D180–22				





適用刀杆 Suitable for shank	1	2	扳手 Wrench
D28–66	M5 × 16L	DM5	S4
D28–102			
D46–88			
D46–120			



適用刀杆 Suitable for shank	1	扳手 Wrench
D2032–72	M5 × 10L	S4
D2032–100		

外圓刀座
Outer boring holder

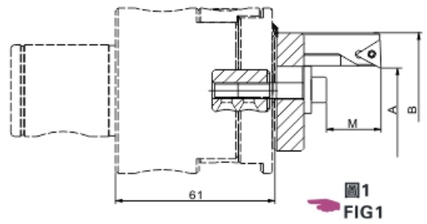


圖1
FIG1

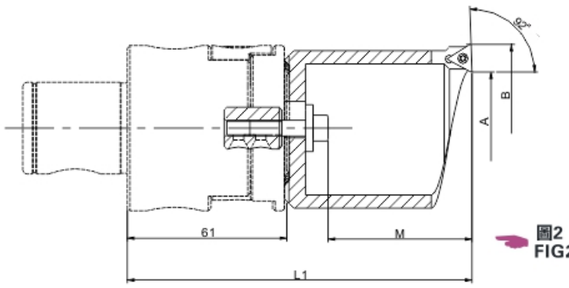
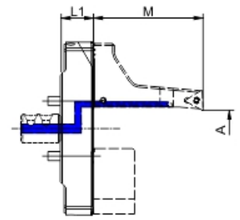


圖2
FIG2

訂貨型號 Order Code	øA	øB	M	L1	圖號 FIG	刀片 Insert	刀片螺絲 Insert screw	扳手 Wrench	重量(Kg) Weight
DHW4–17.5	4–17.5	45	20	100	1	TCMT110204	CSTB–2.5	T8	0.1
DHW16.5–30	16.5–30	56	30	110	1				0.1
DHW29–44	29–44	70	54	135	2				0.3
DHW43–66	43–66	92	79	160	2				0.4

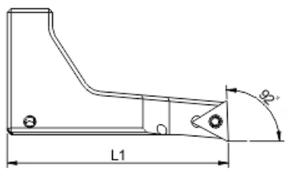
橫板
Cross member

訂貨型號 Order Code	øA	L1	M	重量(Kg) Weight
D96–17	2–30	16	57	0.12
D124–17	30–58	16	57	0.2
D152–22	58–86	21	57	0.25
D180–22	86–114	21	57	0.3

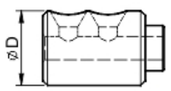


刀片座
Insert base

訂貨型號 Order Code	L1	刀片 Insert	刀片螺絲 Insert screw	扳手 Wrench	重量(Kg) Weight
DHW2–114	57	TCMT110204	CSTB–2.5	T8	0.15

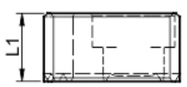


引水柱
Coolant pin



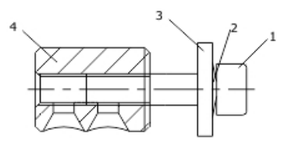
訂貨型號 Order Code	øD	重量(Kg) Weight
DBW16	16	0.05

平衡塊
Balance block



訂貨型號 Order Code	L1	重量(Kg) Weight
DWB68–208	24	0.15

零件
Parts



適用刀杆 Suitable for shank	1	2	3	4	扳手 Wrench
DHW4–17.5	M6 × 25L	S6	6 × 18–3	BM6	S5
DHW16.5–30					
DHW29–44					
DHW43–66					

高效能切削刀具

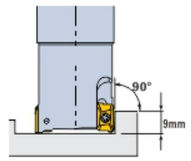
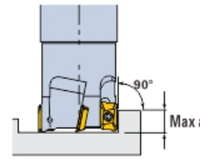
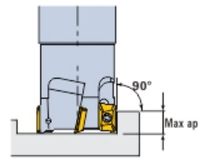
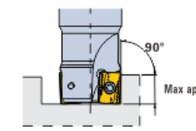
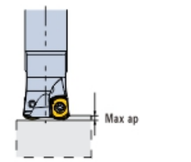
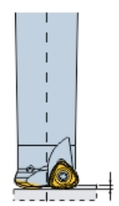
High Efficient Cutting Tool Series

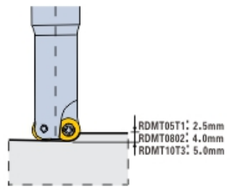
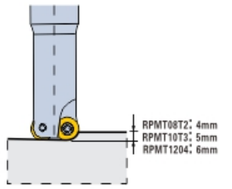
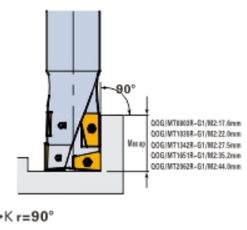
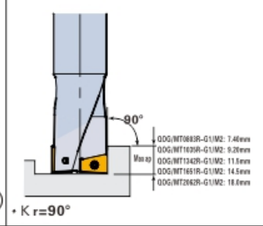
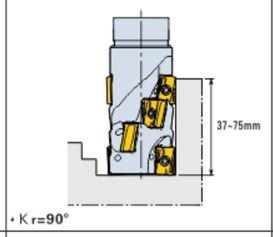
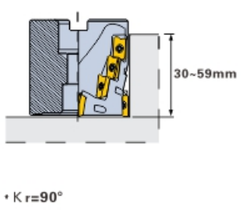
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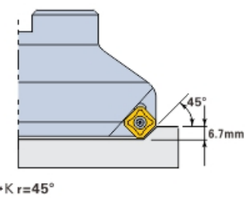
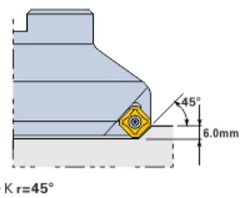
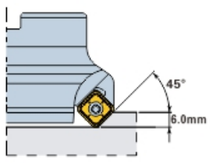
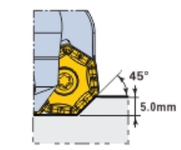
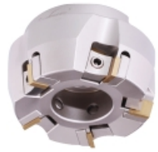
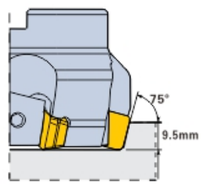
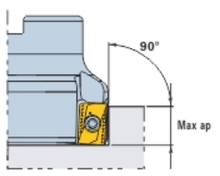


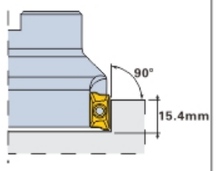
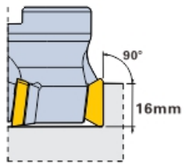
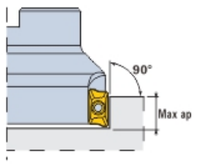
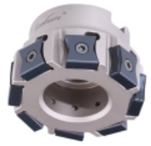
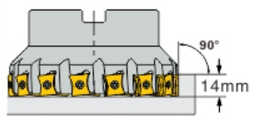
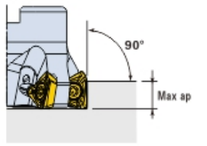
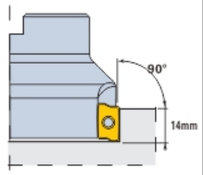
High Performance & Productivity

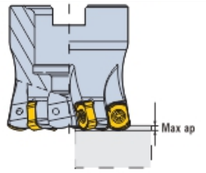
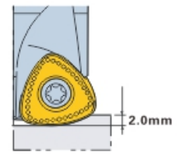
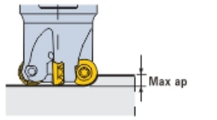
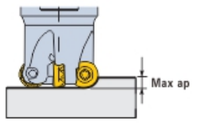
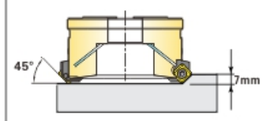
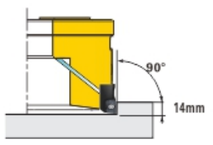
Evermore®

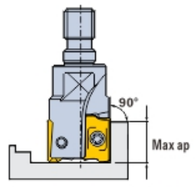
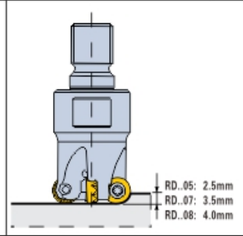
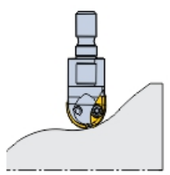
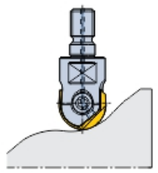
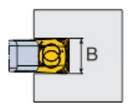
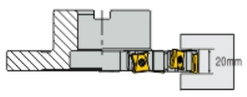
型號 Model	刀片 Insert	應用 Application	說明 Specification
TAP300R系列端銑刀 TAP300R SERIES END MILL CUTTER  P46	 APMT1135 (三菱 MITSUBISHI)	 •K r=90°	● 直徑範圍： Φ10~21mm DIA RANGE ● 通用方肩銑、通槽銑、仿形銑、螺旋斜坡銑等 General purpose end mill for shouldering, slotting, contouring and ramping operations ● 螺旋切削刃 Helical cutting edge ● 中心出水型 Coolant through type
TAP400R系列端銑刀 TAP400R SERIES END MILL CUTTER  P46	 APMT1604 (三菱 MITSUBISHI)  APKT1705 (FOR 特固克 TEAGUTEC)	 • K r=90° APMT1604 ap=14.0mm APKT1705 ap=16.1mm	● 直徑範圍： Φ25~50mm (APMT1604) DIA RANGE Φ20~40mm (APKT1705) ● 通用方肩銑、通槽銑、仿形銑、螺旋斜坡銑等 General purpose end mill for shouldering, slotting, contouring and ramping operations ● 螺旋切削刃 Helical cutting edge ● 中心出水型 Coolant through type
AD系列端銑刀 AD SERIES END MILL CUTTER  P48	 ADMT0803 ADMT1204 (FOR 瓦爾特 WALTER)	 • K r=90° ADMT0803 ap=8mm ADMT1204 ap=11.7mm	● 直徑範圍:Φ10~40mm (ADMT0803) DIA RANGE Φ25~40mm (ADMT1204) ● 通用方肩銑、通槽銑、仿形銑、螺旋斜坡銑等 General purpose end mill for shouldering, slotting, contouring and ramping operations ● 中心出水型 Coolant through type
AN系列端銑刀 AN SERIES END MILL CUTTER  P49	 AN□X1106 AN□X1607 (FOR 特固克 TEAGUTEC)	 • K r=90° AN□X1106 ap=11.1mm AN□X1607 ap=15.0mm	● 直徑範圍:Φ25~40mm (AN□X1106) DIA RANGE Φ32~50mm (AN□X1607) ● 四個切削刃，正型刀片 4 corner inserts with positive cutting edge ● 通用加工 For general purpose operations ● 中心出水型 Coolant through type
BL系列端銑刀 BL SERIES END MILL CUTTER  P50	 BLMP0603R BLMP0904R (FOR 特固克 TEAGUTEC)	 BLMP0603R ap=1.0mm BLMP0904R ap=1.5mm	● 直徑範圍： Φ16~40mm DIA RANGE ● 適合高進給加工 Particularly suitable for high feed machining ● 刀片强度增加 Increased density of inserts ● 4刃刀片，低切削阻力 4 Corner inserts with low cutting forces ● 中心出水型 Coolant through type
BL系列端銑刀 BL SERIES END MILL CUTTER  P51	 BLMP1205R (FOR 特固克 TEAGUTEC)		● 直徑範圍： Φ32~40mm DIA RANGE ● 適合高進給加工 Particularly suitable for high feed machining ● 6刃刀片 6 Corner inserts ● 高强度 Strong geometry ● 中心出水型 Coolant through type

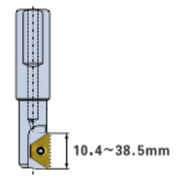
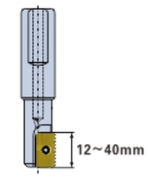
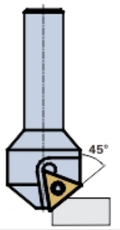
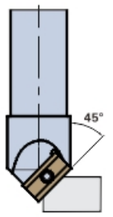
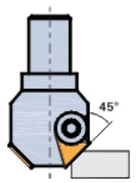
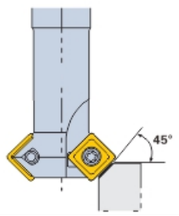
型號 Model	刀片 Insert	應用 Application	說明 Specification
TRS系列R角端銑刀 TRS SERIES RADIUS END MILL CUTTER  P52	 RDMT0501 RDMT0802 RDMT10T3 (日立 HITACHI)		●直徑範圍： Φ10~16mm(RDMT05T1) DIA RANGE Φ12~20mm(RDMT0802) Φ20~35mm(RDMT10T3) ●通用加工 For general purpose operations ●中心出水型 Coolant through type
TRSP系列R角端銑刀 TRSP SERIES RADIUS END MILL CUTTER  P53	 RPMT08T2 RPMT10T3 RPMT1204 (三菱 MITSUBISHI)		●直徑範圍:Φ12~25mm(RPMT08T2) DIA RANGE Φ16~32mm(RPMT10T3) Φ32~50mm(RPMT1204) ●通用加工 For general purpose operations ●中心出水型 Coolant through type
AQX多功能標準長刃型鑽銑刀 AQX MULTIFUNCTUON END MILL CUTTER-STANDARD LONG LIP TYPE  P56	 QOG/MT0803R-G1/M2 QOG/MT1035R-G1/M2 QOG/MT1342R-G1/M2 QOG/MT1651R-G1/M2 QOG/MT2062R-G1/M2 (三菱 MITSUBISHI)		●直徑範圍： Φ16~40mm DIA RANGE ●方肩銑、螺旋擴孔加工、鑽孔加工、斜面加工、切槽加工、挖槽加工、仿形銑 Square shoulder machining,spiral boring machining,drilling,oblique surface machining,notch cutting, slot machining,profile machining.
AQX多功能短長刃型鑽銑刀 AQX MULTIFUNCTUON END MILL CUTTER-SHORT- LONG LIP TYPE  P57	 QOG/MT0803R-G1/M2 QOG/MT1035R-G1/M2 QOG/MT1342R-G1/M2 QOG/MT1651R-G1/M2 QOG/MT2062R-G1/M2 (三菱 MITSUBISHI)		●直徑範圍： Φ16~40mm DIA RANGE ●方肩銑、螺旋擴孔加工、鑽孔加工、斜面加工、切槽加工、挖槽加工、仿形銑 Square shoulder machining,spiral boring machining,drilling,oblique surface machining,notch cutting, slot machining,profile machining.
MECH型立銑刀 MECH END MILL CUTTER  P62	 BDMT11T3-N2 BDMT11T3-N3 BDMT1704-N3 BDMT1704-N4 (FOR 京瓷 KYOCERA)		●直徑範圍： Φ25~50mm DIA RANGE ●通用通槽銑、仿形銑等 General purpose milling, slotting & contouring operations ●長刃玉米銑刀 Extended flute shell mill ●直刀柄和側固式刀柄 Available in Plain cylindrical shank & Flatted cylindrical shank
MECH型玉米銑刀 MECH HELICAL END MILL CUTTER  P63	 BDMT11T3-N2 BDMT11T3-N3 BDMT1704-N3 BDMT1704-N4 (FOR 京瓷 KYOCERA)		●直徑範圍： Φ50~100mm DIA RANGE ●通用通槽銑、方肩銑等 General purpose mill for slotting & shoulder milling ●長刃玉米銑刀 Extended flute shell mill

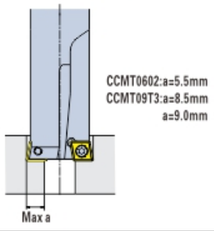
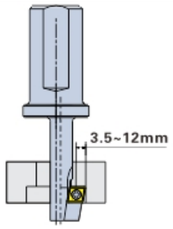
型號 Model	刀片 Insert	應用 Application	說明 Specification
SE45° 高速平面銑刀 SE45 DEGREE HIGH SPEED FACE MILL CUTTER  P64	 SEKT1204 (三菱 MITSUBISHI)		●直徑範圍： Φ50~200mm DIA RANGE ●通用面銑削 General purpose face mill for mixed operations ●低切削力 Low cutting force ●標準和密齒刀盤 Available in regular & fine pitch cutters
SE45° 高速平面銑刀(日系刀片) SE45 DEGREE HIGH SPEED FACE MILL CUTTER (JAPANESE INSERTS)  P65	 SEMT13T3 (三菱 MITSUBISHI)		●直徑範圍： Φ50~200mm DIA RANGE ●通用面銑削 General purpose face mill for mixed operations ●正型刀片帶刀墊 High positive inserts with seat ●低切削力 Low cutting force ●標準和密齒刀盤 Available in regular & fine pitch cutters
SN45° 高速平面銑刀 SN45 DEGREE HIGH SPEED FACE MILL CUTTER  P66	 SNG X1205 (FOR 瓦爾特 WALTER)		●直徑範圍： Φ50~160mm DIA RANGE ●通用面銑削 General purpose face mill for mixed operations ●雙面螺釘鎖緊 Double side screw clamp type ●標準和密齒刀盤 Available in regular & fine pitch cutters ●中心出水型 Coolant through type
XN45° 平面銑刀 XN45 DEGREE FACE MILL CUTTER  P67	 XNHU0906-MM XNMU0906-M (FOR 特固克 TEAGUTEC)		●直徑範圍： Φ63~200mm DIA RANGE ●鑄鐵和鋼的粗加工及半精加工面銑刀 Face mill for roughing and semi finishing of cast iron and steel ●螺釘鎖緊 Screw clamp type ●14個切削刃 14 cutting edges
FP75° 平面銑刀 FP75 DEGREE FACE MILL CUTTER  P68	 SPUN1203 SPKN1203 (三菱 MITSUBISHI)		●直徑範圍： Φ80~300mm DIA RANGE ●通用加工，輕加工面銑削 For general purpose light face milling operations ●可換式刀片墊及壓緊塊 Interchangeable seat and wedge
AN90° 高速平面銑刀 AN90 DEGREE HIGH SPEED FACE MILL CUTTER  P69	 ANMX1106 ANHX1106 ANMX1607 ANHX1607 (FOR 特固克 TEAGUTEC)		●直徑範圍:Φ40~125mm(AN□X1106) DIA RANGE Φ50~160mm(AN□X1607) ●四個切削刃，正型刀片 4 corner inserts with positive cutting edge ●通用面銑削 General purpose face mill for mixed operations ●標準和密齒刀盤 Available in regular & fine pitch cutters ●中心出水型 Coolant through type

型號 Model	刀片 Insert	應用 Application	說明 Specification
R390 90° 高速平面銑刀 R390 90 DEGREE HIGH SPEED FACE MILL CUTTER  P70	 **R390-1806** （FOR 山特維克 SANDVIK）	 90° 15.4mm • K r=90°	●直徑範圍：Φ50~160mm DIA RANGE ●通用面銑削 General purpose face mill for mixed operations ●密齒和超密齒刀盤 Available in fine pitch & superfine pitch cutters ●中心出水型 Coolant through type
TPR-W/S系列直角平面銑刀 TPR-W/S SERIES RIGHT-ANGLE FACE MILL CUTTER  P70	 **TPMN1603**	 90° 16mm • K r=90°	●直徑範圍：Φ50~63mm DIA RANGE ●通用面銑削 General purpose face mill for mixed operations
AD90° 高速平面銑刀 AD90 DEGREE HIGH SPEED FACE MILL CUTTER  P71	 **ADMT0803** **ADMT1204** （FOR 瓦爾特 WALTER）	 90° Max ap • K r=90° ADMT0803 ap=8mm ADMT1204 ap=11.7mm	●直徑範圍：Φ40~50mm(ADMT0803) DIA RANGE Φ40~80mm(ADMT1204) ●通用面銑削 General purpose face mill for mixed operations ●標準和密齒刀盤 Available in regular & fine pitch cutters ●中心出水型 Coolant through type
LNKX螺旋刃蝴蝶銑刀 FACE MILL CUTTER WITH LNKX1506 TANGENTIALLY CLAMPED INSERTS  P72	 **LNKX1506** （FOR 伊斯卡 ISCAR）	 90° 14mm • K r=90°	●直徑範圍：Φ50~200mm DIA RANGE ●通用面銑削 General purpose face mill for mixed operations ●低切削力 Low cutting force ●標準和密齒刀盤 Available in regular & fine pitch cutters
3P90° 高速平面銑刀 3P90 DEGREE HIGH SPEED FACE MILL CUTTER  P73	 **3PKT10** **3PKT15** **3PKT19** （FOR 特固克 TEAGUTEC）	 90° Max ap Max ap=3PKT10:7mm 3PKT15:11mm 3PKT19:15mm • K r=90°	●直徑範圍:Φ50~63mm (3PKT10) DIA RANGE Φ50~125mm (3PKT15) Φ63~160mm (3PKT19) ●通用方肩銑、通槽銑、仿形銑、螺旋斜坡銑等 General purpose end mill for shouldering, slotting, contouring and ramping operations ●三角螺旋切削刃刀片 3 corner inserts with helical cutting edges ●中心出水型 Coolant through type
TAP系列平面銑刀 TAP SERIES FACE MILL CUTTER  P74	 **APMT1604** (三菱 MITSUBISHI)	 90° 14mm • K r=90°	●直徑範圍：Φ50~160mm DIA RANGE ●通用面銑削 General purpose face mill for mixed operations ●標準和密齒刀盤 Available in regular & fine pitch cutters ●中心出水型、無中心出水型 Coolant through type or no.

型號 Model	刀片 Insert	應用 Application	說明 Specification
BL快速平面銑刀 BL HIGH FEED FACE MILL CUTTER  P75	 **BLMP0603R** **BLMP0904R** （FOR 特固克 TEAGUTEC）	 Max ap **BLMP0603R ap=1.0mm** **BLMP0904R ap=1.5mm**	●直徑範圍： Φ40~63mm DIA RANGE ●適合高進給加工 Particularly suitable for high feed machining ●4刃刀片，低切削阻力 4 Corner inserts with low cutting forces ●標準和密齒刀盤 Available in regular & fine pitch cutters ●中心出水型 Coolant through type
BL快速平面銑刀 BL HIGH FEED FACE MILL CUTTER  P76	 **BLMP1205R** （FOR 特固克 TEAGUTEC）	 2.0mm	●直徑範圍： Φ50~125mm DIA RANGE ●適合高進給加工 Particularly suitable for high feed machining ●6刃刀片 6 Corner inserts ●標準和密齒刀盤 Available in regular & fine pitch cutters ●中心出水型 Coolant through type
TRSP系列R角平面銑刀 TRSP SERIES RADIUS FACE MILL CUTTER  P77	 **RP..1204** **RP..1606** (三菱 MITSUBISHI)	 Max ap RP..1204 ap=6mm RP..1606 ap=8mm	●直徑範圍:Φ40~80 mm(RP..1204) DIA RANGE Φ63~100mm(RP..1606) ●通用模銑刀盤 General purpose copy milling cutter ●通用仿形粗加工刀盤 For general purpose rough face milling for profiling ●中心出水型 Coolant through type
TRS系列R角平面銑刀 TRS SERIES RADIUS FACE MILL CUTTER  P78	 **RD..10T3** **RD..1604** (日立 HITACHI)	 Max ap RD..10T3 ap=5mm RD..1604 ap=8mm	●直徑範圍:Φ50~63 mm(RD..10T3) DIA RANGE Φ50~116mm(RD..1604) ●通用模銑刀盤 General purpose copy milling cutter ●通用仿形粗加工刀盤 For general purpose rough face milling for profiling ●中心出水型 Coolant through type
鋁合金刀盤 ALUMINIUM ALLOY CUTTER  P80	 刀夾: Tool holder: SSSER12CY-12AL 刀片: Insert: SE__1204	 45° 7mm • K r=45°	●直徑範圍： Φ80~315mm DIA RANGE ●重量是普通刀盤的1/2~1/3 The weight is 1/2~1/3 than the ordinary cutter. ●特別適合鋁合金高速切削，配合PCD刀片效果更佳 Specially fit for aluminium high speed milling, coupling PCD insert for better effect. ●中心出水型 Coolant through type
鋁合金刀盤 ALUMINIUM ALLOY CUTTER  P80	 刀夾: Tool holder: SAFPR12CY-16AL 刀片: Insert: AP__1604	 90° 14mm • K r=90°	●直徑範圍： Φ80~315mm DIA RANGE ●重量是普通刀盤的1/2~1/3 The weight is 1/2~1/3 than the ordinary cutter. ●特別適合鋁合金高速切削，配合PCD刀片效果更佳 Specially fit for aluminium high speed milling, coupling PCD insert for better effect. ●中心出水型 Coolant through type

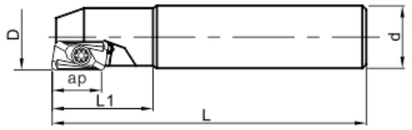
型號 Model	刀片 Insert	應用 Application	說明 Specification
EM小銑頭APMT系列端銑刀 APMT SERIES EM SMALL MILLING CUTTERS  P81	 **APMT090308R** **APMT15T3PDR**	 K r=90° APMT090308R ap=7mm APMT15T3PDR ap=13mm	●直徑範圍:Φ16、20mm (APMT090308R) DIA RANGE Φ25、32mm (APMT15T3PDR) ●通用方肩銑、通槽銑、仿形銑、螺旋斜坡銑等 General purpose end mill for shouldering, slotting, contouring and ramping operations
EM小銑頭TRS系列R角端銑刀 TRS SERIES EM SMALL MILLING CUTTERS  P81	 **RD..05** **RD..07** **RD..08**		● 直徑範圍： Φ10~35mm DIA RANGE ● 通用仿形粗銑削 For general purpose rough milling for profiling
EM小銑頭TCF系列球型銑刀 TCF SERIES BALL TYPE EM SMALL MILLING CUTTERS  P82	 **ZCEW100CE** **ZCEW100SE** **ZCEW125CE** **ZCEW125SE** **ZCEW150CE** **ZCEW150SE** (日立 HITACHI)		●直徑範圍： Φ20~30 mm DIA RANGE ●通用仿形粗銑削 For general purpose rough milling for profiling
EM小銑頭T2139系列球型精銑刀 T2139 SERIES BALL TYPE EM SMALL MILLING CUTTERS FOR FINE MILLING  P82	 **P3200D12** **P3200D16** **P3200D20** **P3200D25**		● 直徑範圍： Φ12~25 mm DIA RANGE ● 通用仿形精和半精加工 For general purpose finish & semi-finishing copy milling for profiling
SC系列三面刃銑刀 SC SERIES FULL SLOT FIXED POCKET MILL CUTTER  P83	 **SCMT0702** **SCMT09T3** **SCMT1204**		● 直徑範圍： Φ63~125mm DIA RANGE ● 切寬（B）：10~20mm Width of cut(B): ● 多功能法蘭型刀盤 Multi-purpose flange type side cutter. ● 三面刃 Full slot fixed pocket ●基于SCMT刀片的獨有設計 Unique cutter design for SCMT inserts.
LNKX三面刃蝴蝶銑刀 FULL SLOT FIXED POCKET MILL CUTTER WITH LNKX1506 TANGENTIALLY CLAMPED INSERTS  P84	 **LNKX1506** （FOR 伊斯卡 ISCAR)		●直徑範圍： Φ125~200mm DIA RANGE ● 切寬（B）：20mm Width of cut(B): ● 多功能法蘭型刀盤 Multi-purpose flange type side cutter. ● 三面刃 Full slot fixed pocket

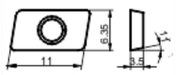
型號 Model	刀片 Insert	應用 Application	說明 Specification
螺紋銑刀杆 THREADING MILLING TOOLHOLDERS  P85	 **6.0□0.5ISOTM□** **~6□6.0ISOTM2** (瓦格斯 VARGUS)		●直徑範圍： Φ9.0~46mm DIA RANGE ●螺距(P)：0.5~6.0mm PITCH
螺紋立銑刀 THREADING MILLING CUTTER  P86	 **12□□ISO** **~40□□ISO** (成都鋒宜 FENGYI)		●直徑範圍： Φ9.5~48mm DIA RANGE ●螺距(P)：0.5~6.0mm PITCH
TC45° 倒角刀 TC STYLE 45 DEGREE CHAMFERING MILL CUTTER  P87	 **TCMT16T3**		●直徑範圍： Φ3~36 mm DIA RANGE ●倒角和去毛刺用銑刀 Milling cutter for chamfering and deburring operations
AD45° 倒角刀 AD STYLE 45 DEGREE CHAMFERING MILL CUTTER  P87	 **ADNT1603** (日立 HITACHI)		●直徑範圍： Φ3~20 mm DIA RANGE ●倒角和去毛刺用銑刀 Milling cutter for chamfering and deburring operations
TPR45° 倒角刀 TPR 45 DEGREE CHAMFERING MILL CUTTER  P88	 **TPMN1603** **TPMN2204**		●直徑範圍： Φ5~63mm DIA RANGE ●倒角和去毛刺用銑刀 Milling cutter for chamfering and deburring operations
SC45° 倒角刀 SC STYLE 45 DEGREE CHAMFERING MILL CUTTER  P88	 **SC..0702** **SC..09T3** (住友 SUMITOMO)		●直徑範圍： Φ8~45mm DIA RANGE ●倒角和去毛刺用銑刀 Milling cutter for chamfering and deburring operations ●反倒角 Back chamfering

型　　號 Model	刀 片 Insert	應 用 Application	說 明 Specification
180° 正向鏜孔銑刀 180DEGREE SPOT FACING CUTTER  P89	 CCMT0602 CCMT09T3		●直徑範圍：Φ15.7~42mm DIA RANGE ●正向鏜孔 FOR SPOT FACING
180° 反向鏜孔銑刀 180DEGREE BACK SPOT FACING CUTTER  P91	 CCMT0602 CCMT09T3 CCMT1204		●直徑範圍：Φ18~76mm DIA RANGE ●反向鏜孔 FOR BACK SPOT FACING



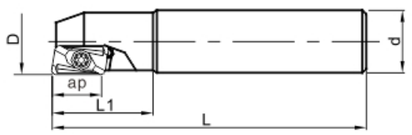
- 通用方肩銑、通槽銑、仿形銑、螺旋斜坡銑等
  General purpose end mill for shouldering, slotting, contouring and ramping operations
- 螺旋切削刃
  Helical cutting edge
- 多刃設計,大進給加工
  Multiple inserts, suitable for large feed machining
- 中心出水型
  Coolant through type

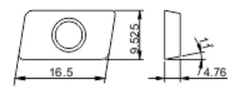


訂貨型號 Order Code	ØD	Ød	ap	L1	L	刃數 Number of insert	刀片型號 Insert Type	刀片螺絲 Insert Screw	扳手 Spanner
TAP300R-1016×100	10	16	9	25	100	1	(三菱 MITSUBISHI) APMT1135 	CSTB2.5	T8
TAP300R-1216×100	12	16	9	25	100	1			
TAP300R-1616×120	16	16	9	25	120	2			
TAP300R-1616×150	16	16	9	25	150	2			
TAP300R-2020×120	20	20	9	30	120	2			
TAP300R-2020×150	20	20	9	30	150	2			
TAP300R-2020×200	20	20	9	30	200	2			
TAP300R-2120×150	21	20	9	–	150	2			
TAP300R-2120×200	21	20	9	–	200	2			
TAP300R-2120×250	21	20	9	–	250	2			



- 通用方肩銑、通槽銑、仿形銑、螺旋斜坡銑等
  General purpose end mill for shouldering, slotting, contouring and ramping operations
- 螺旋切削刃
  Helical cutting edge
- 多刃設計,大進給加工
  Multiple inserts, suitable for large feed machining
- 中心出水型
  Coolant through type



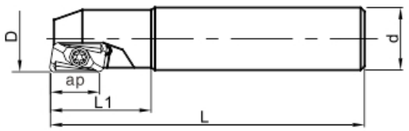
訂貨型號 Order Code	ØD	Ød	ap	L	刃數 Number of insert	刀片型號 Insert Type	刀片螺絲 Insert Screw	扳手 Spanner
TAP400R-2525×150	25	25	14	150	2	(三菱 MITSUBISHI) APMT1604 	CSTB4	T15
TAP400R-2525×200	25	25	14	200	2			
TAP400R-2525×250	25	25	14	250	2			
TAP400R-2525×300	25	25	14	300	2			
TAP400R-2625×150	26	25	14	150	2			
TAP400R-2625×200	26	25	14	200	2			
TAP400R-2625×250	26	25	14	250	2			
TAP400R-3025×150	30	25	14	150	2			
TAP400R-3025×200	30	25	14	200	2			
TAP400R-3232×150	32	32	14	150	3			
TAP400R-3232×200	32	32	14	200	3			
TAP400R-3232×250	32	32	14	250	3			
TAP400R-3232×300	32	32	14	300	3			
TAP400R-3232×350	32	32	14	350	3			
TAP400R-3232×400	32	32	14	400	3			
TAP400R-3532×150	35	32	14	150	3			
TAP400R-3532×200	35	32	14	200	3			
TAP400R-3532×250	35	32	14	250	3			
TAP400R-3532×300	35	32	14	300	3			
TAP400R-3532×350	35	32	14	350	3			
TAP400R-3532×400	35	32	14	400	3			
TAP400R-4032×150	40	32	14	150	3			
TAP400R-4032×200	40	32	14	200	3			
TAP400R-5032×150	50	32	14	150	4			
TAP400R-5032×200	50	32	14	200	4			
TAP400R-5042×150	50	42	14	150	4			

TAP400R系列端銑刀
TAP400R SERIES END MILL CUTTER

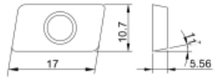
Evermore®



- 通用方肩銑、通槽銑、仿形銑、螺旋斜坡銑等
  General purpose end mill for shouldering, slotting, contouring and ramping operations
- 螺旋切削刃
  Helical cutting edge
- 刀片堅固，切削阻力低
  Strong inserts with low cutting forces
- 中心出水型
  Coolant through type

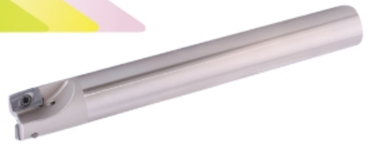


訂貨型號 Order Code	ØD	Ød	ap	L	刃數 Number of insert	L1	刀片型號 Insert Type	刀片螺絲 Insert Screw	扳手 Spanner
TAP400R-2020-17X90	20	20	16.1	90	1	32	（FOR 特固克 TEAGUTEC） APKT1705	CSTB4	T15
TAP400R-2525-17X100	25	25	16.1	100	2	39			
TAP400R-3232-17X110	32	32	16.1	110	3	40			
TAP400R-4032-17X115	40	32	16.1	115	4	45			



TAP300R / TAP400R系列端銑刀
TAP300R / TAP400R SERIES END MILL CUTTER

切削數據
Cutting data



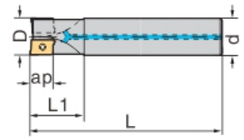
被切削材質 Cutting material	硬度 Hardness	刀片材質 insert material	切削速度 Cutting speed m/min	每刃進給量 Feed mm/ tooth
軟鋼 soft steel SS400,S10C	180HB以下	F620	180（150～200）	0.2（0.1～0.25）
		UT120T，UP20M	160（120～200）	0.2（0.1～0.25）
		NX2525	160（120～180）	0.1（0.05～0.17）
碳素鋼、合金鋼 Carbon steel,Alloy steel （30HRC以下）	180–280HB	F620	150（120～200）	0.1（0.1～0.25）
		UT120T，UP20M	120（100～160）	0.1（0.1～0.2）
		NX2525	120（100～160）	0.05（0.05～0.1）
	280–350HB	F620	140（120～160）	0.1（0.1～0.2）
		UT120T，UP20M	100（80～120）	0.1（0.05～0.15）
		NX2525	100（80～120）	0.05（0.05～0.1）
白鐵不銹鋼 Stainless steel （SUS304）	200HB以下	F620	160（150～180）	0.15（0.1～0.25）
		UP20M	160（150～180）	0.1（0.1～0.15）
		UT120T	120（100～150）	0.1（0.1～0.2）
普通鑄鐵 Common cast iron （FC250）	高張力強度 350N/mm2以下	HT110	120（100～150）	0.2（0.1～0.25）
		UT120T	120（100～140）	0.2（0.1～0.25）
鑄鐵 Cast iron	高張力強度 450N/mm2以下	HT110	100（80～120）	0.15（0.1～0.2）
		UT120T	100（80～120）	0.15（0.1～0.2）
	高張力強度 500–800N/mm2	HT110	80（60～100）	0.1（0.05～0.15）
		UT120T	80（60～100）	0.1（0.05～0.15）
鋁合金 Aluminium alloy	---	HT110	300（300～500）	0.1（0.05～0.15）

AD系列端銑刀
AD SERIES END MILL CUTTER

Evermore®

- 大前角刀具,切削特別輕快
  Inerts with big rake angle,cutting easily
- 準確90度的粗精加工
  Roughing or finishing for accurate 90° plane.
- 中心出水型
  Coolant through type

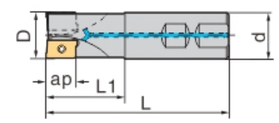




直刀柄尺寸 Dimension–Plain cylindrical shanks

訂貨型號 Order Code	刀片型號 Insert Type	刃數 Number of insert	ØD	L1	Ød	L	ap	刀片螺絲 Insert Screw	扳手 Spanner
EAD08-10-16P	（FOR 瓦爾特 WALTER） ADMT0803	1	10	31	16	160	8	CSTB2.5	T8
EAD08-12-16P		1	12	31	16	160	8		
EAD08-16-16P		2	16	41	16	180	8		
EAD08-20-20P		2	20	39	20	200	8		
EAD08-25-25P		3	25	43	25	200	8		
EAD12-25-25P	（FOR 瓦爾特 WALTER） ADMT1204	3	25	38	25	200	11.7	CSTB3	T8
EAD12-32-32P		4	32	39	32	250	11.7		
EAD12-40-32P		5	40	44	32	250	11.7		



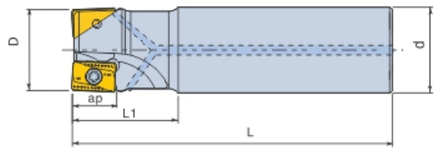


側固式刀柄尺寸 Dimension–Flatted cylindrical shanks

訂貨型號 Order Code	刀片型號 Insert Type	刃數 Number of insert	ØD	L1	Ød	L	ap	刀片螺絲 Insert Screw	扳手 Spanner
EAD08-10-16F	（FOR 瓦爾特 WALTER） ADMT0803	1	10	31	16	80	8	CSTB2.5	T8
EAD08-12-16F		1	12	31	16	80	8		
EAD08-16-16F		2	16	41	16	90	8		
EAD08-20-20F		3	20	39	20	90	8		
EAD08-25-25F		4	25	43	25	100	8		
EAD08-32-32F		5	32	49	32	110	8		
EAD08-40-32F		6	40	49	32	110	8		
EAD12-25-25F	（FOR 瓦爾特 WALTER） ADMT1204	3	25	43	25	100	11.7	CSTB3	T8
EAD12-32-32F		4	32	49	32	110	11.7		
EAD12-40-32F		5	40	49	32	110	11.7		



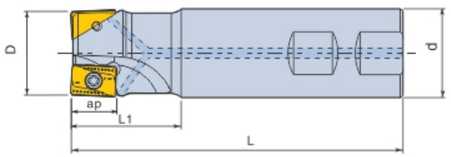
- 正型刀片，保障了操作安全性
  Inserts with positive cutting edge,ensuring operation security
- 每個刀片4個切削刃,大前角保證了極佳的加工表面質量
  4 corner inserts with big rake angle,guarantees excellent machining surface quality
- 中心出水型
  Coolant through type



直刀柄尺寸 Dimension–Plain cylindrical shanks

訂貨型號 Order Code	刀片型號 Insert Type	刃數 Number of insert	ØD	L1	Ød	L	ap	刀片螺絲 Insert Screw	扳手 Spanner
EAN16-32-32P-150	(FOR 特固克 TEAGUTEC) ANMX1607	2	32	45	32	150	15	CSTB4	T15
EAN16-32-32P-250		2	32	40	32	250	15		
EAN16-33-32P-200		2	33	55	32	200	15		
EAN16-40-32P-150		3	40	45	32	150	15		
EAN16-40-32P-250		3	40	45	32	250	15		
EAN16-50-32P-200		4	50	50	32	200	15		

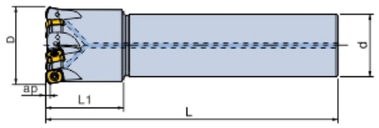




側固式刀柄尺寸 Dimension–Flatted cylindrical shanks

訂貨型號 Order Code	刀片型號 Insert Type	刃數 Number of insert	ØD	L1	Ød	L	ap	刀片螺絲 Insert Screw	扳手 Spanner
EAN11-25-25F	(FOR 特固克 TEAGUTEC) ANMX1106	2	25	40	25	100	11.1	CSTB3.5	T10
EAN11-32-32F		3	32	40	32	110	11.1		
EAN11-40-32F		4	40	40	32	115	11.1		
EAN16-32-32F	(FOR 特固克 TEAGUTEC) ANMX1607	2	32	30	32	110	15	CSTB4	T15
EAN16-40-32F		3	40	35	32	115	15		





- 適合高進給加工
  Particularly suitable for high feed machining
- 刀片强度增加
  Increased density of inserts
- 4刃刀片，低切削阻力
  4 Corner inserts with low cutting forces
- 中心出水型
  Coolant through type

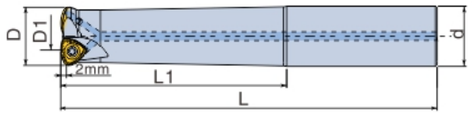
訂貨型號 Order Code	刀片型號 Insert Type	刃數 Number of insert	ØD	ap	Ød	L1	L	刀片螺絲 Insert Screw	扳手 Spanner
EBL06-16-16-100	(FOR 特固克 TEAGUTEC) BLMP0603R	2	16	0.7	16	30	100	CSTB2.5	T8
EBL06-16-16-150		2	16	0.7	16	40	150		
EBL06-18-16-150		2	18	0.7	16	25	150		
EBL06-20-20-130		3	20	1	20	50	130		
EBL06-20-20-160		3	20	1	20	80	160		
EBL06-21-20-200		3	21	1	20	20	200		
EBL06-25-25-140		4	25	1	25	60	140		
EBL06-25-25-180		4	25	1	25	60	180		
EBL06-26-25-200		4	26	1	25	30	200		
EBL06-30-32-150		5	30	1	32	70	150		
EBL06-30-32-200		5	30	1	32	120	200		
EBL06-32-32-150		5	32	1	32	70	150		
EBL06-32-32-200		5	32	1	32	120	200		
EBL06-33-32-200		5	33	1	32	40	200		
EBL06-33-32-250		5	33	1	32	40	250		
EBL06-40-32-150		6	40	1	32	40	150		
EBL06-40-32-220		6	40	1	32	40	220		
EBL09-25-25-150	(FOR 特固克 TEAGUTEC) BLMP0904R	2	25	1.5	25	70	150	CSTB3.5	T10
EBL09-25-25-200		2	25	1.5	25	100	200		
EBL09-25-25-150M		3	25	1.5	25	70	150		
EBL09-25-25-200M		3	25	1.5	25	110	200		
EBL09-26-25-150		3	26	1.5	25	30	150		
EBL09-26-25-220		3	26	1.5	25	30	220		
EBL09-30-32-160		3	30	1.5	32	70	160		
EBL09-30-32-220		3	30	1.5	32	120	220		
EBL09-32-32-160		3	32	1.5	32	70	160		
EBL09-32-32-220		3	32	1.5	32	120	220		
EBL09-32-32-160M		4	32	1.5	32	70	160		
EBL09-32-32-220M		4	32	1.5	32	120	220		
EBL09-33-32-180		4	33	1.5	32	30	180		
EBL09-33-32-250		4	33	1.5	32	30	250		
EBL09-40-32-180		4	40	1.5	32	40	180		
EBL09-40-32-250		4	40	1.5	32	40	250		
EBL09-40-32-180M		5	40	1.5	32	40	180		
EBL09-40-32-250M		5	40	1.5	32	40	250		

BI系列端銑刀
BL SERIES END MILL CUTTER

Evermore®



- 面銑和腔銑用超高進給刀盤
  Particularly suitable for high feed machining when face milling and milling chamber
- 設計結合大的圓角和獨特的刀片形狀
  The unique design of the insert shape and big Radius
- 切削深度爲2mm時，每齒進給可達4mm
  When cutting depth is 2mm,the feed per insert can be 4mm
- 適於模具加工
  Cutter for Mold & Die
- 中心出水型
  Coolant through type



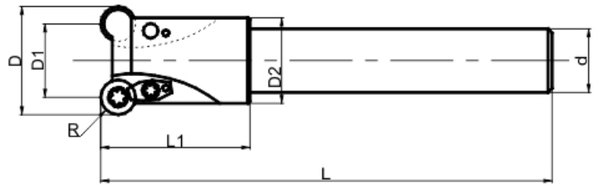
訂貨型號 Order Code	刀片型號 Insert Type	刃數 Number of insert	ØD	ØD1	Ød	L1	L	刀片螺絲 Insert Screw	扳手 Spanner
EBL12-32-32-150	(FOR 特固克 TEAGUTEC) BLMP1205R	2	32	15.4	32	70	150	CSTB4	T15
EBL12-32-32-200		2	32	15.4	32	45	200		
EBL12-32-32-200L		2	32	15.4	32	120	200		
EBL12-33-32-250		2	33	16.4	32	45	250		
EBL12-40-32-150		3	40	23.1	32	30	150		
EBL12-40-32-200		3	40	23.1	32	30	200		
EBL12-40-42-150		3	40	23.1	42	70	150		
EBL12-40-42-300		2	40	23.1	42	120	300		

TRS系列 R角端銑刀
TRS SERIES RADIUS END MILL CUTTER

Evermore®



- R型刀片具有極强的切削刃口
  High density of inserts
- 適用於模具的曲面加工
  Cutter for Die & Mold
- 中心出水型
  Coolant through type



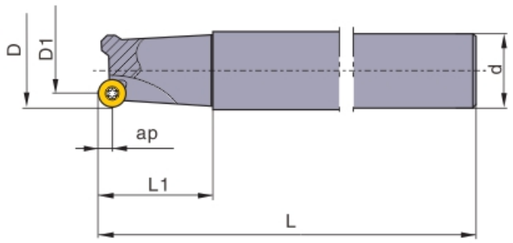
訂貨型號 Order Code	ØD	ØD1	ØD2	Ød	L1	L	刃數 Number of insert	刀片型號 Insert Type	刀片螺絲 Insert Screw	扳手 Spanner	壓板 compacting block
TRS-2.5R10x70	10	5	8.5	10	30	70	2	(日立 HITACHI) RDMT0501	CSTB2	T6	–
TRS-2.5R12x75	12	7	10.5	12	30	75	3				–
TRS-2.5R15x80	15	10	13.5	16	30	80	3				–
TRS-2.5R16x80	16	11	14.5	16	30	80	4				–
TRS-4R12×120	12	4	9.8	12	25	120	1	(日立 HITACHI) RDMT0802	CSTB3	T8	CL-4R
TRS-4R12×150	12	4	9.8	12	25	150	1				CL-4R
TRS-4R16×120	16	8	13.8	16	25	120	1				CL-4R
TRS-4R16×150	16	8	13.8	16	25	150	1				CL-4R
TRS-4R20×150	20	12	17.5	20	25	150	2				CL-5R
TRS-4R20×200	20	12	17.5	20	25	200	2				CL-5R
TRS-5R20x115	20	10	16	20	60	115	2	(日立 HITACHI) RDMT10T3	CSTB4	T15	–
TRS-5R25x115	25	15	21	25	60	115	4				–
TRS-5R25×150	25	15	21	25	35	150	2				CL-5R
TRS-5R25×200	25	15	21	25	35	200	2				CL-5R
TRS-5R25×250	25	15	21	25	35	250	2				CL-5R
TRS-5R30×150	30	20	26	25	35	150	2				CL-5R
TRS-5R30×200	30	20	26	25	35	200	2				CL-5R
TRS-5R30×250	30	20	26	25	35	250	2				CL-5R
TRS-5R35×150	35	25	31	32	35	150	3				CL-5R
TRS-5R35×200	35	25	31	32	35	200	3				CL-5R
TRS-5R35×250	35	25	31	32	35	250	3				CL-5R

TRS系列 R角端銑刀
TRS SERIES RADIUS END MILL CUTTER

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- R型刀片具有極强的切削刃口
  High density of inserts
- 適用於模具的曲面加工
  Cutter for Mold & Die
- 中心出水型
  Coolant through type



訂貨型號 Order Code	ØD	ØD1	Ød	ap	L1	L	刃數 Number of insert	刀片型號 Insert Type	刀片螺絲 Insert Screw	扳手 Spanner
TRSP-4R12X85	12	3.8	12	4	25	85	1	(三菱 MITSUBISHI) RPMT08T2	CSTB2.5	T8
TRSP-4R12X150	12	3.8	12		70	150	1			
TRSP-4R16X85	16	7.8	16		25	85	1			
TRSP-4R16X150	16	7.8	16		70	150	1			
TRSP-4R20X100	20	11.8	20		30	100	2			
TRSP-4R20X180	20	11.8	20		100	180	2			
TRSP-4R25X115	25	16.8	25		30	115	3			
TRSP-4R25X180	25	16.8	25		100	180	3			
TRSP-5R16X80	16	5.8	16	5	25	80	1	(三菱 MITSUBISHI) RPMT10T3	CSTB3.5	T15
TRSP-5R16X150	16	5.8	16		70	150	1			
TRSP-5R20X100	20	9.8	20		30	100	1			
TRSP-5R20X180	20	9.8	20		100	180	1			
TRSP-5R25X115	25	14.8	25		35	115	2			
TRSP-5R25X180	25	14.8	25		100	180	2			
TRSP-5R32X125	32	21.8	32		45	125	3			
TRSP-5R32X200	32	21.8	32		120	200	3			
TRSP-6R32X125	32	19.8	32	6	45	125	2	(三菱 MITSUBISHI) RPMT1204	CSTB4	T15
TRSP-6R32X200	32	19.8	32		120	200	2			
TRSP-6R40X125	40	27.9	32		45	125	3			
TRSP-6R40X200	40	27.9	32		120	200	3			

AQX 多功能鑽銑刀
AQX MULTIFUNCTION END MILL CUTTER

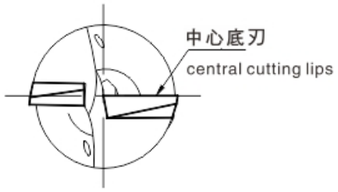
Evermore®



特點 Characteristics

中心底刃設計
Designed with central cutting lips

AQX型立銑刀設計有中心底刃，因此無須底孔即可進行鑽、銑加工。
AQX type end mill cutter is designed to have a central cutting lips so that it can do drilling and milling without a bottom hole.



切削刃尖端爲2刃
Cutting lip has 2 lips

刀具尖端部位爲2刃結構，因此切削刃强度高，壽命長。
The cutting tip is designed to have 2 lips configuration so that it has an amazing strength and long service life.



短長刃型產品
Short-long cutting lip type product

軸向切深小時可選用只在刀具頂端配置刀片的短長刃型規格，大大提高經濟性。
If the axial cutting depth is small,you can use the short-long cutting lip type product to improve the economy.

刀體冷卻孔
Cutter body coolant hole

通過在刀體上設置冷卻孔，大幅度提高了散熱性及排屑性能。另外也備有無冷卻孔系列產品，可根據用途選擇。
The cooling hole through the cutter body significantly enhance the radiation of heat and chip removal performance in addition,products without cooling hole are also available according to the customer's requirements.

切削刃偏置設計
Cutting lip offset design

刃徑比柄徑大1mm的偏置型設計，解決了軸向切深較大時柄部的干涉問題。
The diameter of the cutting lip is 1mm larger than the diameter of the shank,so that it has no interference when the axial cutting depth is large.

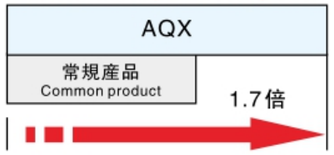
型 號	D1	D4
AQXR17□S□16□	17	16
AQXR21□S□20□	21	20
AQXR26□S□25□	26	25
AQXR33□S□32□	33	32



耐熱刀體經特殊表面處理
Heat resistant cutter body by special surface treatments

刀體採用耐高溫特殊合金鋼，表面經特殊處理。耐腐蝕、耐磨損性能高於常規產品。
The holder made from special high heat-resistant alloy steel,its surface has been specially treated.Characters of corrosive resistant,abrasion resistant are higher than usual production.

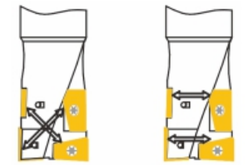
耐熱温度對比
Heat resistant temperature comparison



只使用一種刀片
One type of cutter is used

只使用一種刀片，並且更換刀片的安裝位置即可再次使用。
It used one type of cutter and can be used again after changing the installation position of insert.

刀片替換方向
changing position of insert



刀片多樣化
Diversified inserts

M2斷屑槽
M2 Chip breaker groove



低成本，無研磨級通用刀片。適用於各種工件材料與切削條件。
Low cost,general cutter without grinding.It is applicable to various types of workpiece materials and cutting conditions.

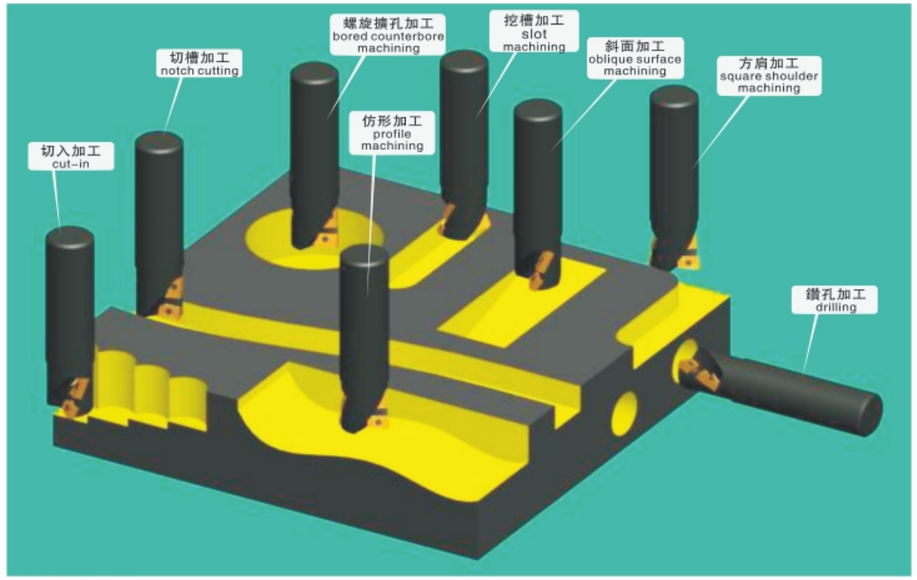
G1斷屑槽
G1 Chip breaker groove



高精度外周研磨級刀片。大前角，切削鋒利。加工鋁合金用HI10刀片爲鏡面型前刀面，耐熔敷性極好。
High precision grade cutter with periphery grinding.Grate angle,sharp cutting.H10 cutter is used for machining aluminium alloys.Blade is a mirror type.It is highly refractory.

加工類型圖示
DIAGRAM OF MACHINING TYPE

切削直徑 cutting diameter	Ø16. Ø17. Ø20. Ø25. Ø26. Ø32. Ø33. Ø40. Ø50.
使用用途 suitable machining	方肩加工，螺旋擴孔加工，鑽孔加工，斜面加工，切槽加工，挖槽加工，仿形加工 Square shoulder machining,spiral boring machining,drilling,oblique surface machining, notch cutting,slot machining,profile machining



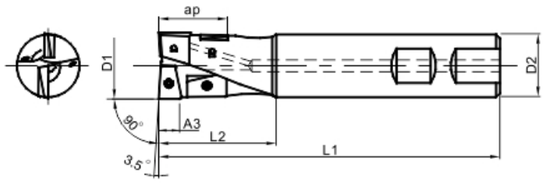
材質與塗層
MATERIAL AND COATING

材質 Material	VP15TF	VP30RT
塗層 Coating	MIRACLE	MIRACLE
特性 Features	耐磨損性與耐欠損性平衡的超微粒硬質合金TF15與MIRACLE塗層組合，可使用於從普通鋼到軟鋼、低碳鋼乃至淬火鋼材料的廣泛領域。 The wear-resistant,micro particle hard-metal combined with MIRACLE coating which can be extensively used from normal steel,low carbon steel andhard steel.	專用強韌硬質合金基體與MIRACLE塗層組合，發揮卓越的耐欠損性，最適於不銹鋼加工及普通鋼的斷續加工。 The super hard alloy steel combined with MIRACLE coating which provides excellent wear-resistant ability.It is particularly suitable for stainless steel machining.

刀片型號
INSERT TYPE

刀片型號 Insert Type	適用切削刃直徑 Cutting diameter	精度 Precision	刀片尺寸 Insert Size L1	L2	R	T	刀片形狀 Insert shape
QOMT0830R-M2	Ø16,17	M	8.4	5.5	0.8	3.0	
1035R-M2	Ø20,17	M	10.6	7.0	0.8	3.5	
1342R-M2	Ø25,26	M	13.1	8.7	0.8	4.2	
1651R-M2	Ø32,33	M	16.5	11.0	0.8	5.1	
2062R-M2	Ø40	M	20.4	13.6	0.8	6.2	
QOGT0830R-G1	Ø16,17	G	8.4	5.5	0.4	3.0	
1035R-G1	Ø20,17	G	10.6	7.0	0.4	3.5	
1342R-G1	Ø25,26	G	13.1	8.7	0.4	4.2	
1651R-G1	Ø32,33	G	16.5	11.0	0.4	5.1	
2062R-G1	Ø40	G	20.4	13.6	0.4	6.2	





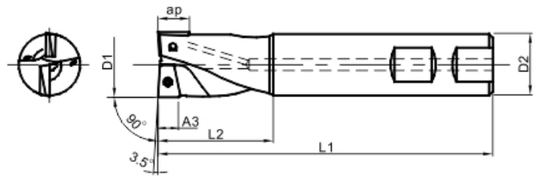
規格只有右手刀 (R)
Right-hand

	訂貨型號 Order Code	冷卻孔 coolant hole	ØD1	ØD2	L1	L2	A3 ※1	ap ※2	刀片型號 Insert Type (三菱 MITSUBISHI)	刀片螺絲 Insert screw	扳手 Spanner
標準型 Standard	AQXR-164SN16S	——	16	16	120	30	4.5	17.6	QOG/MT0830R-G1/M2	TS2A	TKY06F
	-174SN16S	——	17	16	120	30	4.5	17.6	QOG/MT0830R-G1/M2	TS2A	TKY06F
	-204SN20S	——	20	20	130	35	6	22	QOG/MT1035R-G1/M2	TS25	TKY08F
	-214SN20S	——	21	20	130	35	6	22	QOG/MT1035R-G1/M2	TS25	TKY08F
	-254SN25S	——	25	25	140	40	7.5	27.5	QOG/MT1342R-G1/M2	TS33	TKY06D
	-264SN25S	——	26	25	140	40	7.5	27.5	QOG/MT1342R-G1/M2	TS33	TKY06D
	-324SN32S	——	32	32	150	50	9.5	35.2	QOG/MT1651R-G1/M2	TS407	TKY15D
	-334SN32S	——	33	32	150	50	9.5	35.2	QOG/MT1651R-G1/M2	TS407	TKY15D
	-404SN32S	——	40	32	160	60	12	44	QOG/MT2062R-G1/M2	TS55	TKY25D
加長型 Extension	AQXR-164SN16L	——	16	16	175	50	4.5	17.6	QOG/MT0830R-G1/M2	TS2A	TKY06F
	-174SN16L	——	17	16	175	30	4.5	17.6	QOG/MT0830R-G1/M2	TS2A	TKY06F
	-204SN20L	——	20	20	185	60	6	22	QOG/MT1035R-G1/M2	TS25	TKY08F
	-214SN20L	——	21	20	185	35	6	22	QOG/MT1035R-G1/M2	TS25	TKY08F
	-254SN25L	——	25	25	220	75	7.5	27.5	QOG/MT1342R-G1/M2	TS33	TKY06D
	-264SN25L	——	26	25	220	40	7.5	27.5	QOG/MT1342R-G1/M2	TS33	TKY06D
	-324SN32L	——	32	32	230	90	9.5	35.2	QOG/MT1651R-G1/M2	TS407	TKY15D
	-334SN32L	——	33	32	230	50	9.5	35.2	QOG/MT1651R-G1/M2	TS407	TKY15D
	-404SN32L	——	40	32	240	60	12	44	QOG/MT2062R-G1/M2	TS55	TKY25D

※1.A3爲頂端2刃的切深
※2.ap爲最大切深

※A3 is the cutting depth of topmost two edge
※ap is the largest cutting depth





規格只有右手刀 (R)
Right-hand

訂貨型號 Order Code		冷卻孔 coolant hole	ØD1	ØD2	L1	L2	A3 ※1	ap ※2	刀片型號 Insert Type (三菱 MITSUBISHI)	刀片螺絲 Insert screw	扳手 Spanner
標準型 Standard	AQXR-162SN16S	無	16	16	120	30	4.5	7.4	QOG/MT0830R-G1/M2	TS2A	TKY06F
	-172SN16S	無	17	16	120	30	4.5	7.4	QOG/MT0830R-G1/M2	TS2A	TKY06F
	-202SN20S	無	20	20	130	35	6	9.2	QOG/MT1035R-G1/M2	TS25	TKY08F
	-212SN20S	無	21	20	130	35	6	9.2	QOG/MT1035R-G1/M2	TS25	TKY08F
	-252SN25S	無	25	25	140	40	7.5	11.5	QOG/MT1342R-G1/M2	TS33	TKY06D
	-262SN25S	無	26	25	140	40	7.5	11.5	QOG/MT1342R-G1/M2	TS33	TKY06D
	-322SN32S	無	32	32	150	50	9.5	14.5	QOG/MT1651R-G1/M2	TS407	TKY15D
	-332SN32S	無	33	32	150	50	9.5	14.5	QOG/MT1651R-G1/M2	TS407	TKY15D
	-402SN32S	無	40	32	160	60	12	18	QOG/MT2062R-G1/M2	TS55	TKY25D
加長型 Extension	AQXR-162SN16L	無	16	16	175	50	4.5	7.4	QOG/MT0830R-G1/M2	TS2A	TKY06F
	-172SN16L	無	17	16	175	30	4.5	7.4	QOG/MT0830R-G1/M2	TS2A	TKY06F
	-202SN20L	無	20	20	185	60	6	9.2	QOG/MT1035R-G1/M2	TS25	TKY08F
	-212SN20L	無	21	20	185	35	6	9.2	QOG/MT1035R-G1/M2	TS25	TKY08F
	-252SN25L	無	25	25	220	75	7.5	11.5	QOG/MT1342R-G1/M2	TS33	TKY06D
	-262SN25L	無	26	25	220	40	7.5	11.5	QOG/MT1342R-G1/M2	TS33	TKY06D
	-322SN32L	無	32	32	230	90	9.5	14.5	QOG/MT1651R-G1/M2	TS407	TKY15D
	-332SN32L	無	33	32	230	50	9.5	14.5	QOG/MT1651R-G1/M2	TS407	TKY15D
	-402SN32L	無	40	32	240	60	12	18	QOG/MT2062R-G1/M2	TS55	TKY25D

※1.A3爲頂端2刃的切深
※2.ap爲最大切深

※A3 is the cutting depth of topmost two edge
※ap is the largest cutting depth

方肩加工參考數據
REFERENCE DATA OF SQUARE SHOULDER

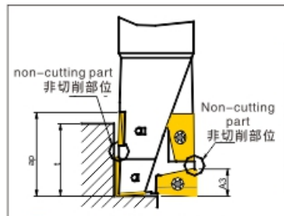
工件材料 Workpiece material		硬度 Hardness	刀片材料 Insert material	切削速度 Cutting speed (m/min)	Ø16, 17		Ø20, 21		Ø25, 26		Ø32, 33		Ø40		Ø50	
					切深 (mm)	進給 (mm/rev)	切深 (mm)	進給 (mm/rev)	切深 (mm)	進給 (mm/rev)	切深 (mm)	進給 (mm/rev)	切深 (mm)	進給 (mm/rev)	切深 (mm)	進給 (mm/rev)
P	軟鋼 soft steel (SS440 S10C等)	≤HB180	VP15TF	180 (150-200)	-4.5	0.25	-6	0.30	-7.5	0.35	-9.5	0.40	-12	0.50	-15	0.60
					4.5-12	0.16	6-14	0.25	7.5-17	0.28	9.5-22	0.32	12-28	0.40	15-35	0.50
					12-17	0.10	14-22	0.18	17-27	0.20	22-35	0.25	28-44	0.30	35-55	0.35
	碳鋼 合金鋼 Carbon steel Alloy steel (S50C, SCM440等)	HB180-350	VP15TF	160 (120-200)	-4.5	0.2	-6	0.25	-7.5	0.30	-9.5	0.35	-12	0.40	-15	0.50
					4.5-12	0.14	6-14	0.20	7.5-17	0.25	9.5-22	0.28	12-28	0.32	15-35	0.40
					12-17	0.08	14-22	0.16	17-27	0.18	22-35	0.20	28-44	0.25	35-55	0.30
M	不銹鋼 Stainless steel (SUS304等)	≤HB270	VP30TF (VP15TF)	150 (120-180)	-4.5	0.2	-6	0.25	-7.5	0.30	-9.5	0.35	-12	0.40	-15	0.50
					4.5-12	0.14	6-14	0.20	7.5-17	0.25	9.5-22	0.28	12-28	0.32	15-35	0.40
					12-17	0.08	14-22	0.16	17-27	0.18	22-35	0.20	28-44	0.25	35-55	0.30
K	鑄鐵 Cast iron (FC300等)	抗拉强度 ≤450MPa	VP15TF	180 (150-220)	-4.5	0.25	-6	0.30	-7.5	0.35	-9.5	0.40	-12	0.50	-15	0.60
					4.5-12	0.16	6-14	0.25	7.5-17	0.28	9.5-22	0.32	12-28	0.40	15-35	0.50
					12-17	0.1	14-22	0.18	17-27	0.20	22-35	0.25	28-44	0.30	35-55	0.35
N	鋁合金 Aluminium alloy	----	HTI10 (G1斷屑槽)	500 (200-800)	-4.5	0.3	-6	0.35	-7.5	0.40	-9.5	0.45	-12	0.55	-15	0.65
					4.5-12	0.21	6-14	0.30	7.5-17	0.33	9.5-22	0.37	12-28	0.45	15-35	0.55
					12-17	0.15	14-22	0.23	17-27	0.25	22-35	0.30	28-44	0.35	35-55	0.40
H	淬火鋼 Hard steel	HRC40-55	VP15TF	80 (50-120)	-4.5	0.16	-6	0.20	-7.5	0.22	-9.5	0.25	-12	0.30	-15	0.35
					4.5-12	0.10	6-14	0.16	7.5-17	0.18	9.5-22	0.20	12-28	0.24	15-35	0.30
					12-17	0.06	14-22	0.12	17-27	0.14	22-35	0.16	28-44	0.18	35-55	0.22

※短長刃型請注意切深大小。
※使用G1斷屑槽VP15TF時，請將進給降到80%以下使用。
※For short-long cutting lip type,please notice the size of cutting depth.
※When using G1 chip grooves VF15TF,please reduce the feed rate under 80% of the reference data.

工件材料 Workpiece material		硬度 Hardness	刀片材料 Insert material	切削速度 Cutting speed (m/min)	Ø16, 17		Ø20, 21		Ø25, 26		Ø32, 33		Ø40		Ø50	
					切深 (mm)	進給 (mm/rev)	切深 (mm)	進給 (mm/rev)	切深 (mm)	進給 (mm/rev)	切深 (mm)	進給 (mm/rev)	切深 (mm)	進給 (mm/rev)	切深 (mm)	進給 (mm/rev)
P	軟鋼 soft steel (SS440 S10C等)	≤HB180	VP15TF	180 (150-200)	-4.5	0.16	-6	0.18	-7.5	0.20	-9.5	0.25	-12	0.30	-15	0.35
					4.5-12	0.10	6-14	0.14	7.5-17	0.16	9.5-22	0.20	12-28	0.25	15-35	0.30
					12-17	0.07	14-22	0.10	17-27	0.12	22-35	0.14	28-44	0.18	35-55	0.22
	碳鋼 合金鋼 Carbon steel Alloy steel (S50C, SCM440等)	HB180-350	VP15TF	160 (120-200)	-4.5	0.14	-6	0.16	-7.5	0.18	-9.5	0.20	-12	0.25	-15	0.30
					4.5-12	0.09	6-14	0.12	7.5-17	0.14	9.5-22	0.16	12-28	0.20	15-35	0.25
					12-17	0.05	14-22	0.10	17-27	0.10	22-35	0.12	28-44	0.14	35-55	0.16
M	不銹鋼 Stainless steel (SUS304等)	≤HB270	VP30RT (VP15TF)	150 (120-180)	-4.5	0.14	-6	0.16	-7.5	0.18	-9.5	0.20	-12	0.25	-15	0.30
					4.5-12	0.09	6-14	0.12	7.5-17	0.14	9.5-22	0.16	12-28	0.20	15-35	0.25
					12-17	0.05	14-22	0.10	17-27	0.10	22-35	0.12	28-44	0.14	35-55	0.16
K	鑄鐵 Cast iron (FC300等)	抗拉强度 ≤450MPa	VP15TF	180 (150-220)	-4.5	0.16	-6	0.18	-7.5	0.20	-9.5	0.25	-12	0.30	-15	0.35
					4.5-12	0.10	6-14	0.14	7.5-17	0.16	9.5-22	0.20	12-28	0.25	15-35	0.30
					12-17	0.07	14-22	0.10	17-27	0.12	22-35	0.14	28-44	0.18	35-55	0.22
N	鋁合金 Aluminium alloy	----	HTI10 (G1斷屑槽)	500 (200-800)	-4.5	0.18	-6	0.20	-7.5	0.22	-9.5	0.27	-12	0.32	-15	0.37
					4.5-12	0.12	6-14	0.16	7.5-17	0.18	9.5-22	0.22	12-28	0.27	15-35	0.32
					12-17	0.09	14-22	0.12	17-27	0.14	22-35	0.16	28-44	0.20	35-55	0.25
H	淬火鋼 Hard steel	HRC40-55	VP15TF	80 (50-120)	-4.5	0.10	-6	0.12	-7.5	0.14	-9.5	0.16	-12	0.18	-15	0.22
					4.5-12	0.07	6-14	0.10	7.5-17	0.12	9.5-22	0.12	12-28	0.14	15-35	0.16

※短長刃型請注意切深大小。
※使用G1斷屑槽VP15TF時，請將進給降到80%以下使用。
※For short-long cutting lip type,please notice the size of cutting depth.
※When using G1 chip grooves VF15TF,please reduce the feed rate under 80% of the reference data.

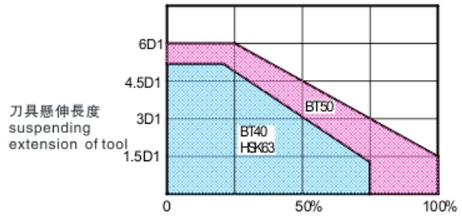
推薦切削條件
RECOMMENDED CUTTING CONDITION



工具直徑 Tool diameter	最佳切深t（mm） Best cutting depth
ø16，17	12–14
ø20，21	14–17
ø25，26	17–22
ø32，33	22–28
ø40	28–35
ø50	35–45

■A3,ap數值參考刀具規格表
The data of A3 and ap reference the tool size table.

■切身在A3以內時為2刃切削。切深超過A3時，由於存在刀片之間的非切削部位，會出現一段1刃切削的範圍。請注意切身與進給速度的關係。
■一般在邊界部位刀片容易出現大的損傷。當切削深度較大時，推薦在邊界部位使用2刃切深。
■It is the two-edge cutting when the cuttingdepth is within A3.When the cutting depth exceeds A3,because of non-cutting part between cutters,then there appears a section of one edge.Pleasepay attention to the relationship between the cutting depth and feed rate.
■On the position of boundary,cutter can be easily damaged.When the cutting is quite deep,we suggest that you use 2 -edge cutting depth on the boundary.



■D1爲刀具切削刃直徑
D1 is cutting diameter

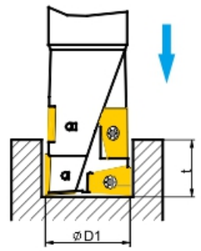
■刀具懸伸過長或機床剛性不足時易產生震動，形成不穩定切削。請參考上圖，適當降低進給速度。
■When tool suspending extension is too long,or the rigidity of machine is not enough,vibration will easily take place.Then cause unstable cutting.Above diagram is for your reference,please reduce feed rate according to the reference data.

鑽孔、切入加工參考數據
REFERENCE DATA OF DRILL AND CUTTING

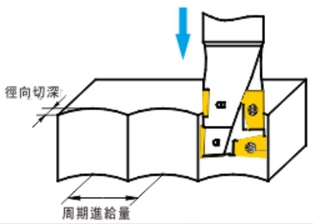
●鑽孔加工
Drilling operation

■鑽孔深度t≤0.5D1
■請用步進進給有利於碎斷切屑。並使用壓縮空氣排屑（鋁加工用冷卻液）
■請充分注意安全，防止切屑飛散出來造成傷害。

■The depth of drill t≤0.5D1
■Please use steping feed to facilitate the breakage of cutting chips and also use compressed air to remove chips.(Use coolant for Aluminium processing)
■Please pay attention to the safety and prevent chip dispersion from operator's injury.



●切入加工
Cutting operation



徑向切深 Radial cutting depth	≤0.4D1
周期進給量 Feed length	≤0.5D1

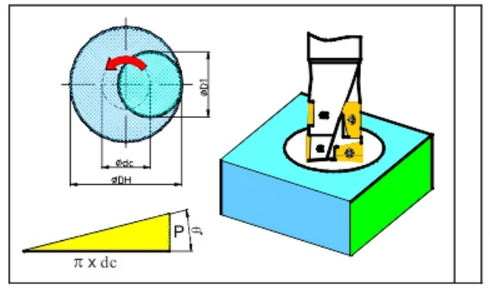
■切入加工時的進給速度與鑽孔相同。且不需步進進給。
■切入加工時切深參照下表。

■The cutting feed speed is the same as drilling operation,stepping feed is not necessary.
■Cutting depth data is provided for your reference during cutting operation.

工件材料 Workpiece material		硬度 Hardness	刀片材料 Insert material	切削速度 Cutting speed (M/min)	Ø16，17		Ø 20，21		Ø 25，26		Ø32，33		Ø40		Ø50	
					切深 (mm/pass)	進給 (mm/rev)	切深 (mm/pass)	進給 (mm/rev)	切深 (mm/pass)	進給 (mm/rev)	切深 (mm/pass)	進給 (mm/rev)	切深 (mm/pass)	進給 (mm/rev)	切深 (mm/pass)	進給 (mm/rev)
P	軟鋼 soft steel（SS440 S10C等）	≤HB180	VP15TF	180（150–200）	0.035	0.2	0.045	0.3	0.05	0.3	0.055	0.3	0.06	0.3	0.065	0.3
	碳鋼/合金鋼 Carbon steel Alloy steel（S50C, SCM440等）	HB180–350	VP15TF	160（120–200）	0.03	0.2	0.04	0.3	0.045	0.3	0.05	0.3	0.055	0.3	0.06	0.3
M	不銹鋼 Stainless steel (SUS304等)	≤HB270	VP30TF (VP15TF)	150（120–180）	0.03	0.15	0.04	0.25	0.045	0.25	0.05	0.25	0.055	0.25	0.06	0.25
K	鑄鐵 Cast iron（FC300等）	抗拉强度 ≤450MPa	VP15TF	180（150–220）	0.04	0.4	0.05	0.5	0.06	0.5	0.065	0.5	0.07	0.5	0.075	0.5
N	鋁合金 Aluminium alloy	----	HTI10 (G1斷屑槽)	500（200–800）	0.04	0.2	0.05	0.3	0.06	0.3	0.065	0.3	0.07	0.3	0.075	0.3
H	淬火鋼 Hard steel	HRC40–55	VP15TF	80（50–120）	0.02	0.15	0.03	0.25	0.035	0.25	0.04	0.25	0.045	0.25	0.05	0.25

※淬火鋼請盡量用螺旋進給法加工。
※當使用VP15TF材質的刀具配合G1斷屑槽的刀片時，請將進給降到80%以下使用。
※Bored feed is suitable for machining hard steel.
※When using G1 chip grooves VF15TF,please reduce the feed rate under 80% of the reference data.

螺旋擴孔加工參考數據
REFERENCE DATA OF BORED COUNTERBORE MACHINING



■刀具中心軌跡計算公式：
Cutter center track calculation formula

$$dc\varnothing = DH\varnothing - D1\varnothing$$

dcØ 刀具中心軌跡 Cutter center track
DHØ 目標孔徑 Target bore
D1Ø 刀具切削刃直徑 Cutter edge's diameter

■每轉切深計算公式：
Cutting depth per revoluation calculation formula

$$P = \pi \times dc \times \tan\theta°$$

※ θ° 請設定在3° 以下
Please set θ less than 3 degree

■螺旋擴孔加工最小直徑爲1.2D1，最大直徑爲1.8 D1。
■請在加工的同時使用壓縮空氣排屑。（加工鋁時使用冷卻液）
■當使用VP15TF材質的刀具配合G1斷屑槽的刀片時，請將進給降到80%以下使用。

■The minimum diameter of bored counterbore machining is 1.2D1,the max is 1.8D1.
■During the processing,please use compressed air to remove chips.(use coolant to process aluminium)
■When using G1 chip grooves VP15TF ,please reduce the feed rate under 80% according to reference data.

工件材料 Workpiece material		硬度 Hardness	刀片材料 Insert material	切削速度 Cutting speed (m/min)	Ø 16，17				Ø 20，21				Ø 25，26			
					加工孔徑 (mm)	邊界深度 (mm)	每轉切深 (mm/pass)	進給 (mm/rev)	加工孔徑 (mm)	邊界深度 (mm)	每轉切深 (mm/pass)	進給 (mm/rev)	加工孔徑 (mm)	邊界深度 (mm)	每轉切深 (mm/pass)	進給 (mm/rev)
P	軟鋼 soft steel（SS440 S10C等）	≤HB180	VP15TF	180（150–200）	20	8	0.44	0.16	24	10	0.44	0.18	30	12.5	0.55	0.20
					25	12	0.99	0.14	30	15	1.10	0.16	38	19	1.43	0.18
					29	16	1.43	0.12	36	20	1.76	0.14	45	25	2.20	0.16
	碳鋼 合金鋼 Carbon steel Alloy steel（S50C, SCM440等）	HB180–350	VP15TF	160（120–200）	20	8	0.33	0.14	24	10	0.33	0.16	30	12.5	0.41	0.18
					25	12	0.74	0.12	30	15	0.82	0.14	38	19	1.07	0.16
					29	16	1.07	0.10	36	20	1.32	0.12	45	25	1.65	0.14
M	不銹鋼 Stainless steel (SUS304等)	≤HB270	VP30TF (VP15TF)	150（120–180）	20	3	0.22	0.14	24	4	0.22	0.16	30	5	0.27	0.18
					25	5	0.49	0.12	30	7	0.55	0.14	38	9	0.71	0.16
					29	8	0.71	0.10	36	10	0.88	0.12	45	12.5	1.10	0.14
K	鑄鐵 Cast iron（FC300等）	抗拉强度 ≤450MPa	VP15TF	180（150–220）	20	10	0.55	0.16	24	14	0.55	0.18	30	18	0.69	0.20
					25	13	1.23	0.14	30	17	1.37	0.16	38	21	1.78	0.18
					29	16	1.78	0.12	36	20	2.19	0.14	45	25	2.74	0.16
N	鋁合金 Aluminium alloy	----	HTI10 (G1斷屑槽)	500（200–800）	20	10	0.44	0.18	24	14	0.44	0.20	30	18	0.55	0.22
					25	13	0.99	0.16	30	17	1.10	0.18	38	21	1.43	0.20
					29	16	1.43	0.14	36	20	1.76	0.16	45	25	2.20	0.18
H	淬火鋼 Hard steel	HRC40–55	VP15TF	80（50–120）	20	3	0.22	0.10	24	4	0.22	0.12	30	5	0.27	0.14
					25	5	0.49	0.08	30	7	0.55	0.10	38	9	0.71	0.12
					29	8	0.71	0.06	36	10	0.88	0.08	45	12.5	1.10	0.10

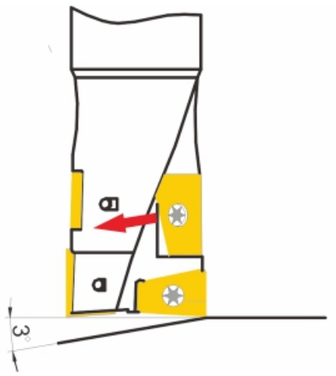
工件材料 Workpiece material		硬度 Hardness	刀片材料 Insert material	切削速度 Cutting speed (m/min)	Ø 32，33				Ø 40				Ø 50			
					加工孔徑 (mm)	邊界深度 (mm)	每轉切深 (mm/pass)	進給 (mm/rev)	加工孔徑 (mm)	邊界深度 (mm)	每轉切深 (mm/pass)	進給 (mm/rev)	加工孔徑 (mm)	邊界深度 (mm)	每轉切深 (mm/pass)	進給 (mm/rev)
P	軟鋼 soft steel（SS440 S10C等）	≤HB180	VP15TF	180（150–200）	38	16	0.66	0.25	48	20	0.88	0.30	60	25	1.10	0.35
					48	24	1.76	0.22	60	30	2.19	0.26	75	38	2.74	0.30
					58	32	2.85	0.20	72	40	3.51	0.22	90	50	4.39	0.26
	碳鋼 合金鋼 Carbon steel Alloy steel（S50C, SCM440等）	HB180–350	VP15TF	160（120–200）	38	16	0.49	0.20	48	20	0.66	0.25	60	25	0.82	0.28
					48	24	1.32	0.18	60	30	1.65	0.22	75	38	2.06	0.26
					58	32	2.14	0.16	72	40	2.63	0.20	90	50	3.29	0.24
M	不銹鋼 Stainless steel (SUS304等)	≤HB270	VP30TF (VP15TF)	150（120–180）	38	6	0.33	0.20	48	8	0.44	0.25	60	10	0.55	0.28
					48	11	0.88	0.18	60	14	1.10	0.22	75	18	1.37	0.26
					58	16	1.43	0.16	72	20	1.75	0.20	90	25	2.19	0.24
K	鑄鐵 Cast iron（FC300等）	抗拉强度 ≤450MPa	VP15TF	180（150–220）	38	22	0.82	0.25	48	28	1.10	0.30	60	35	1.37	0.35
					48	27	2.19	0.22	60	34	2.74	0.26	75	43	3.43	0.30
					58	32	3.57	0.20	72	40	4.39	0.22	90	50	5.49	0.26
N	鋁合金 Aluminium alloy	----	HTI10 (G1斷屑槽)	500（200–800）	38	22	0.66	0.27	48	28	0.88	0.32	60	35	1.10	0.37
					48	27	1.76	0.24	60	34	2.19	0.28	75	43	2.74	0.32
					58	32	2.85	0.22	72	40	3.51	0.24	90	50	4.39	0.27
H	淬火鋼 Hard steel	HRC40–55	VP15TF	80（50–120）	38	6	0.33	0.16	48	8	1.44	0.18	60	10	0.55	0.20
					48	11	0.88	0.14	60	14	1.10	0.16	75	18	1.37	0.18
					58	16	1.43	0.12	72	20	1.75	0.14	90	25	2.19	0.16

斜面加工條件
OBLIQUE SURFACE MACHINING CONDITIONS

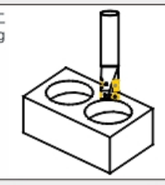
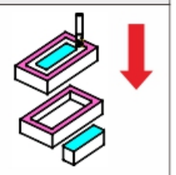
■推薦可加工斜面角度在3° 以下。
Recommended machining oblique surface angle less than 3 degree.

⚠ 注意 CAUTION

加工斜面角度3° 以上切屑不易碎斷，切屑繞在刀體上很危險！
If the angle is larger than 3 degree,it is difficult to break chips,it will be very dangerous if chips roll up in the tool body.



使用實例
USAGE EXAMPLE

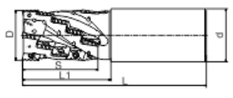
使用刀具 Tool type	AQXR254SA25S(VP15TF)	AQXR324SA32S(VP15TF)	AQXR204SA20S(VP15TF)
工件材料 Workpiece material	S55C	FC250	S55C
加工方法 Machining method	鑽削加工 Drilling 	螺旋擴孔加工 Spiral boring 	挖槽套料加工 Trepanning machining 
切削速度(m/min) Cutting speed	常規產品：20(common products) AQX：160	常規產品：80(common products) AQX：120	120–160
進給量(mm/rev) Feed	常規產品：0.05(common products) AQX：0.05	常規產品：0.1(common products) AQX：0.2	0.1–0.15
優點 Features	●普通鑽頭加工斜孔較困難，可改用AQX，時間縮短至1/8，壽命提高5倍以上，成本大幅度下降。 Common drills is difficult to drill declivity hole,you can use AQX cutters,so that the machining time can be reduced to 1/8,improve service life 500%,minimize cost.	●常規產品頂端外周只有1刃，刀片易損，進給也無法提升。 ●AQX頂端外周為2刃，進給速度可提至2倍。 The common product only has one cutting lip,so the insert is easy to be damaged and the feeding is slow. AQX cutter has two cutting lips,so the feeding can be improved to twice.	●AQX可穩定地進行挖槽套料加工。原成為切屑的部分餘料可用於其他零件。 The AQX cutter can be used for trepanning machining,the surplus material can be used for machining other parts.

⚠ 安全防範措施 Safety measures

- 請不要直接用手觸摸切削刃，切屑。
- 請在推薦條件範圍內使用，提早更換刀具。
- 有時會有高溫的切屑飛出，伸長的切屑排出。請使用安全罩，防護鏡等防護用具。
- 使用非水溶性切削液時，務必採取防火措施。
- 安裝刀片或零件時，請使用附帶的板手穩定安裝。
- 使用旋轉刀具時，務必進行試迴轉，確認有無震動，晃動或異常聲響。

- Do not touch cuttering edges and cutting chips with hands directly.
- To be used within the range of recommended conditions,replace the cutter at earlier stage.
- In the event that the hot chips fly out and the stretched chips come out.Please be sure to wear safety masks and goggles for the removal of chips.
- When using water–insoluble cutting fluid,measures must be taken to prevent from fire.
- When installing cutters or parts,please use spanners to tighten them.
- When using rotary tools,be sure to test–run and make sure that there will be no vibration,shakening and abnormal noise.




圖1
Fig1

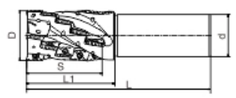
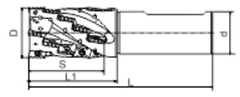

圖2
Fig2


圖3
Fig3


圖4
Fig4

- 良好的排屑，提高切削效率
  Flute with flat–cut enables good chip evacuation
- 特殊的刀身結構設計，抑制震刀
  Low cutting force
- 前端刀刃出水孔設計
  Coolant hole for bottom insert (endmill only)
- 長的切削深度，使加工效率提高
  Long depth of cut enable high efficiency machining

直刀柄尺寸
Dimension –Plain cylindrical shanks

訂貨型號 Order Code	刀具排列 Number of columns	段數 Number of rows	刃數 Number of insert	ØD	Ød	L	L1	S	前角(°) Tool orthogonal rake A.R. (Max)	前角(°) Tool orthogonal rake R.R.	圖號 Fig	刀片螺絲 Insert screw	扳手 Spanner	刀片型號 Insert Type
MECH025-D25-11-2T-37L	2	4	8	25	25	120	46	37	21°	–10°				
MECH032-D32-11-2T-46L		5	10	32	32	140	55	46		–9°	1			
MECH032-D32-11-4T-46L	4		20											
MECH040-D32-11-4T-55L		6	24	40		150	64	55	23°	–8°	2	CSTB –2.5	T8	(FOR 京瓷 KYOCERA) BDMT11T3 –N2 BDMT11T3 –N3
MECH040-D42-11-4T-55L					42	160					1			
MECH050-D42-11-4T-64L		7	28	50		170	75	64		–7°	2			
MECH050-D42-11-6T-64L	6		42											
MECH040-D32-17-2T-59L	2	4	8	40	32	160	73	59	19°					
MECH040-D42-17-2T-59L					42	170					1	CSTB –4	T15	(FOR 京瓷 KYOCERA) BDMT1704 –N3 BDMT1704 –N4
MECH050-D42-17-4T-75L	4	5	20	50		185	88	75			2			

側固式刀柄尺寸
Dimension –Flatted cylindrical shanks

訂貨型號 Order Code	刀具排列 Number of columns	段數 Number of rows	刃數 Number of insert	ØD	Ød	L	L1	S	前角(°) Tool orthogonal rake A.R. (Max)	前角(°) Tool orthogonal rake R.R.	圖號 Fig	刀片螺絲 Insert screw	扳手 Spanner	刀片型號 Insert Type
MECH025-D25C-11-2T-37L	2	4	8	25	25	104	46	37	21°	–10°				
MECH032-D32C-11-2T-46L		5	10	32	32	117	55	46		–9°	3			
MECH032-D32C-11-4T-46L	4		20											
MECH040-D32C-11-4T-55L		6	24	40		126	64	55	23°	–8°		CSTB –2.5	T8	(FOR 京瓷 KYOCERA) BDMT11T3 –N2 BDMT11T3 –N3
MECH050-D40C-11-4T-64L		7	28	50	40	147	75	64		–7°	4			
MECH050-D40C-11-6T-64L	6		42											
MECH040-D32C-17-2T-59L	2	4	8	40	32	136	73	59	19°					
MECH050-D40C-17-4T-75L	4	5	20	50	40	161	83	74				CSTB –4	T15	(FOR 京瓷 KYOCERA) BDMT1704 –N3 BDMT1704 –N4

MECH型玉米銑刀
MECH HELICAL END MILL CUTTER

Evermore®

- 良好的排屑，提高切削效率
  Flute with flat-cut enables good chip evacuation
- 特殊的刀身結構設計，抑制震刀
  Low cutting force
- 長的切削深度，使加工效率提高
  Long depth of cut enable high efficiency machining



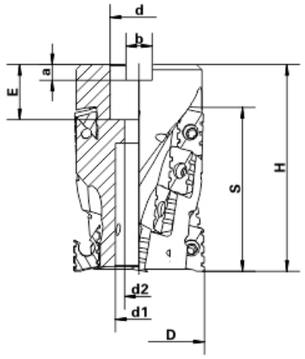


圖1
Fig1

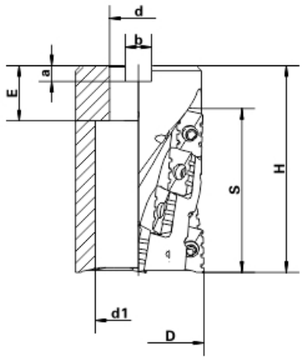


圖2
Fig2

尺寸
Dimension

訂貨型號 Order Code	刀具排列 Number of columns	段數 Number of rows	刃數 Number of insert	ØD	Ød	Ød1	Ød2	H	E	a	b	S	圖號 Fig
MECH050R-11-5-6T-22	6	5	30	50	22	18	11	63	21	6.3	10.4	46	1
MECH050R-17-2-4T-22	4	2	8					52				30	
MECH050R-17-4-4T-22		4	16					78				59	
MECH063R-17-3-4T-27		3	12	63	27	20	14	70	24	7	12	45	
MECH080R-17-4-6T-32	6	4	24	80	32	26	18	85	28	8	14	59	
MECH100R-17-4-6T-40				100	40	56	–		30	9	16		2
MECH063R-17-3-4T-25.4	4	3	12	63	25.4	20	14	70	26	6	9.5	45	1
MECH080R-17-4-6T-31.75	6	4	24	80	31.75	26	18	85	32	8	13	59	
MECH100R-17-4-6T-38.1				100	38.1	56	–		38	10	16		2

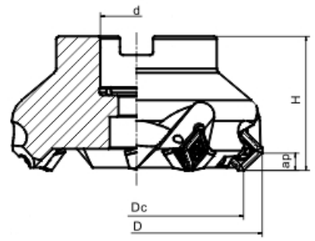
訂貨型號 Order Code	前角(°) Tool orthogonal rake A.R. (Max)	前角(°) Tool orthogonal rake R.R.	刀片螺絲 Insert screw	扳手 Spanner	專用螺絲 screw	刀片型號 Insert Type
MECH050R-11-5-6T-22	23°	-8°	CSTB-2.5	T8	M10X30	BDMT11T3 -N2 BDMT11T3 -N3
MECH050R-17-2-4T-22	19°	-7°	CSTB-4	T15	M10X30	(FOR 京瓷 KYOCERA) BDMT1704 -N3 BDMT1704 -N4
MECH050R-17-4-4T-22					M10X40	
MECH063R-17-3-4T-27					M12X40	
MECH080R-17-4-6T-32					M16X45	
MECH100R-17-4-6T-40					M20X32	
MECH063R-17-3-4T-25.4					M12X40	
MECH080R-17-4-6T-31.75					M16X45	
MECH100R-17-4-6T-38.1					M20X32	

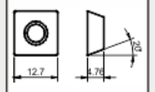
Se45°高速平面銑刀
SE45 DEGREE HIGH SPEED FACE MILL CUTTER

Evermore®

- 良好的排屑，提高切削效率
  Flute with flat-cut enables good chip evacuation
- 特殊的刀身結構設計，抑制震刀
  Low cutting force
- 快速銑出平順光潔面
  Excellent surface finish





訂貨型號 Order Code	ØDc	ØD	Ød (mm)	H	刃數 Number of insert	ap (mm)	刀片型號 Insert Type	刀片螺絲 Insert Screw	扳手 Spanner
SE45R-50-22	50	65	22	45	4	6.7	(三菱 MITSUBISHI) SEKT1204 	CSTB5	T20
SE45R-50-22M	50	65	22	45	5				
SE45R-63-22	63	78	22	50	5				
SE45R-63-22M	63	78	22	50	6				
SE45R-80-27	80	95	27	50	6				
SE45R-80-27M	80	95	27	50	8				
SE45R-100-32	100	115	32	50	6				
SE45R-100-32M	100	115	32	50	9				
SE45R-125-40	125	140	40	60	8				
SE45R-125-40M	125	140	40	60	12				
SE45R-160-40 *	160	175	40	60	10				
SE45R-160-40M *	160	175	40	60	13				
SE45R-200-60 *	200	215	60	60	12				
SE45R-200-60M *	200	215	60	60	15				
SE45R-63-25.4	63	78	25.4	50	5				
SE45R-80-25.4	80	95	25.4	50	6				
SE45R-100-31.75	100	115	31.75	50	6				
SE45R-125-38.1	125	140	38.1	60	8				
SE45R-160-38.1	160	175	38.1	60	10				
SE45R-200-47.625*	200	215	47.625	60	12				

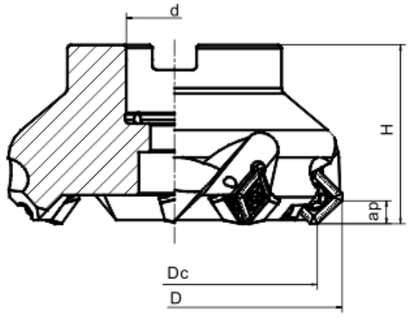
注：帶“*”的規格，刀盤固定方式爲4顆螺絲鎖緊
Note:with the "*" specification,tool disk is secured with 4 screws.

SE 45°高速平面銑刀(日系刀片)
SE 45 DEGREE HIGH SPEED FACE MILL CUTTER (JAPANESE INSERTS)

Evermore®



- 硬質合金刀墊，剛性高
  High rigidity with carbide seat
- 良好的排屑，提高切削效率
  Flute with flat-cut enables good chip evacuation
- 特殊的刀身結構設計，抑制震刀
  Low cutting force
- 快速銑出平順光潔面
  Excellent surface finish



訂貨型號 Order Code	ØDc	ØD	Ød (mm)	H	刃數 Number of insert	ap (mm)	刀片型號 Insert Type	刀片螺絲 Insert Screw	扳手 Spanner
SE45R-J-50-22	50	63	22	40	3	6.0	(三菱 MITSUBISHI) SEMT13T3	CSTB3.5	T15
SE45R-J-50-22M	50	63	22	40	4				
SE45R-J-63-22	63	75.9	22	40	4				
SE45R-J-63-22M	63	75.9	22	40	5				
SE45R-J-80-27	80	93.2	27	50	4				
SE45R-J-80-27M	80	93.2	27	50	6				
SE45R-J-100-32	100	113.2	32	50	5				
SE45R-J-100-32M	100	113.2	32	50	7				
SE45R-J-125-40	125	138	40	63	6				
SE45R-J-125-40M	125	138	40	63	8				
SE45R-J-160-40 *	160	173	40	63	7				
SE45R-J-160-40M *	160	173	40	63	10				
SE45R-J-200-60 *	200	212.9	60	63	8				
SE45R-J-200-60M *	200	212.9	60	63	12				

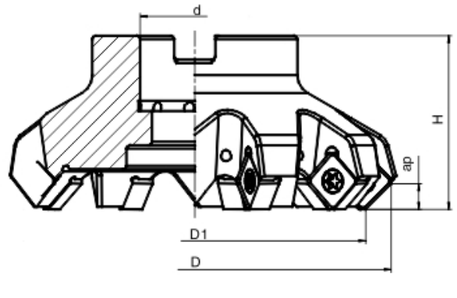
注：帶“*”的規格，刀盤固定方式爲4顆螺絲鎖緊
Note:with the "*" specification,tool disk is secured with 4 screws.

SN 45°高速平面銑刀
SN 45 DEGREE HIGH SPEED FACE MILL CUTTER

Evermore®



- 大前角刀具,切削特別輕快
  Inerts with big rake angle,cutting easily
- 刀片穩定性高，生產能力提高
  High stability,high machining efficiency
- 每個刀片有8個切削刃
  Eight cutting edges per insert
- 中心出水型
  Coolant through type



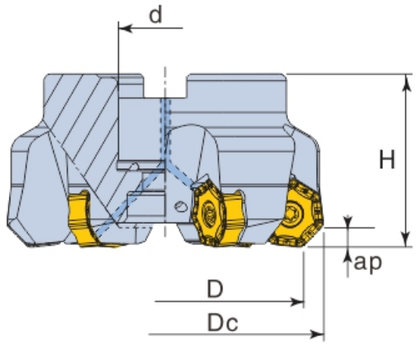
訂貨型號 Order Code	ØD1	ØD	Ød (mm)	H	刃數 Number of insert	ap (mm)	刀片型號 Insert Type	刀片螺絲 Insert Screw	扳手 Spanner
SN45R-50-22-4	50	65	22	40	4	6.0	(FOR 瓦爾特 WALTER) SNGX1205	CSTB5	T15
SN45R-50-22-6	50	65	22	40	6				
SN45R-63-22-6	63	78	22	40	6				
SN45R-63-22-8	63	78	22	40	8				
SN45R-80-27-8	80	95	27	50	8				
SN45R-80-27-10	80	95	27	50	10				
SN45R-100-32-8	100	115	32	50	8				
SN45R-100-32-10	100	115	32	50	10				
SN45R-125-40-10	125	140	40	63	10				
SN45R-125-40-12	125	140	40	63	12				

XN45°平面銑刀
XN45 DEGREE FACE MILL CUTTER

Evermore®



- 鑄鐵和鋼的粗加工及半精加工面銑刀
  Face mill for roughing and semi finishing of cast iron and steel
- 螺釘鎖緊
  Screw clamp type
- 14個切削刃,可降低加工成本
  14 cutting edges ,low cost

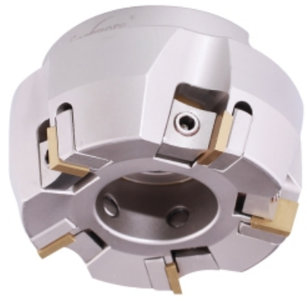


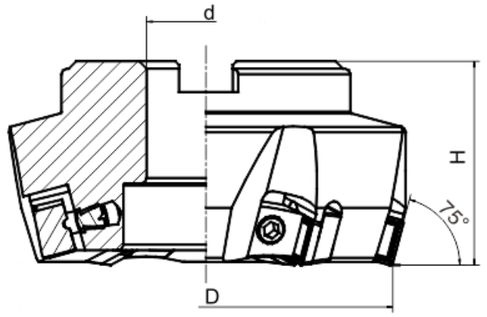
訂貨型號 Order Code	ØD	ØDc	Ød (mm)	H	刃數 Number of insert	ap (mm)	刀片型號 Insert Type	刀片螺絲 Insert Screw	扳手 Spanner
XN45R-63-22-5	63	74.9	22	50	5	5.0	(FOR 特固克 TEAGUTEC) XNMU0906-M XNHU0906-MM	CSTB5	T20
XN45R-63-22-6	63	74.9	22	50	6				
XN45R-80-27-6	80	91.9	27	50	6				
XN45R-80-27-7	80	91.9	27	50	7				
XN45R-100-32-7	100	112	32	55	7				
XN45R-100-32-9	100	112	32	55	9				
XN45R-125-40-8	125	137	40	63	8				
XN45R-125-40-10	125	137	40	63	10				
XN45R-125-40-12	125	137	40	63	12				
XN45R-160-40-10*	160	172	40	63	10				
XN45R-160-40-12*	160	172	40	63	12				
XN45R-160-40-14*	160	172	40	63	14				
XN45R-200-60-12*	200	212	60	63	12				
XN45R-200-60-16*	200	212	60	63	16				

注：帶“*”的規格，刀盤固定方式爲4顆螺絲鎖緊且無中心出水。
Note:with the "*" specification,tool disk is secured with 4 screws and no coolant through.

FP75°平面銑刀
FP75 DEGREE FACE MILL CUTTER

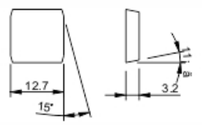
Evermore®





- 通用加工，輕加工面銑削
  For general purpose light face milling operations
- 可換式刀片墊塊及壓緊塊
  Interchangeable seat and wedge

訂貨型號 Order Code	ØD	Ød (mm)	H	刃數 Number of insert	刀片型號 Insert Type
FP-80-27	80	27	55	5	(三菱 MITSUBISHI) SPUN-120308 SPKN-1203EDR
FP-100-32	100	32	55	6	
FP-125-40	125	40*	60	8	
FP-160-40	160	40*	60	10	
FP-200-60	200	60*	65	12	
FP-250-60	250	60*	65	16	
FP-300-60	300	60*	65	20	
FP-80-25.4	80	25.4	55	5	
FP-100-31.75	100	31.75	55	6	
FP-125-38.1	125	38.1	60	8	
FP-160-50.8	160	50.8	60	10	
FP-200-47.625	200	47.625*	65	12	
FP-250-47.625	250	47.625*	65	16	
FP-300-47.625	300	47.625*	65	20	



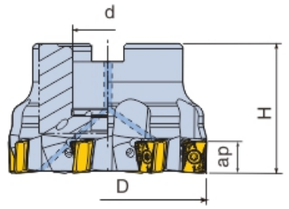
注：帶“*”的規格，刀盤固定方式爲4顆螺絲鎖緊
Note:with the "*" specification,tool disk is secured with 4 screws.

刀片墊塊 Insert shim	墊塊螺絲 Shim Screw	刀片壓緊塊 Insert clamping block	壓緊塊螺絲 Clamping block screw	扳手 Spanner
ST-S	SCR-ST-S4	CL-S	SCR-CL5/16	WRN-M4T

An90°高速平面銑刀
AN90 DEGREE HIGH SPEED FACE MILL CUTTER

Evermore®

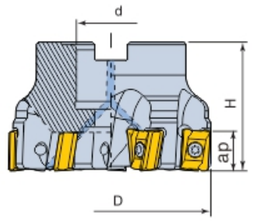




- 90度刀盤,4個切削刃刀片
  4 Corner inserts,90 degree face mill cutter
- 密齒刀盤最大限度提高生產效率
  Fine pitch cutter can maximize productivity
- 正型切削刃,保證加工平穩
  Positive cutting edge,machining steadily
- 中心出水型
  Coolant throgh type

訂貨型號 Order Code	刀片型號 Insert Type	刃數 Number of insert	ØD	Ød	H	ap	刀片螺絲 Insert Screw	扳手 Spanner
FMAN11-4-50-22	(FOR 特固克 TEAGUTEC) ANMX1106	4	50	22	40	11.1	CSTB3.5	T10
FMAN11-6-50-22		6	50	22	40	11.1		
FMAN11-5-63-22		5	63	22	40	11.1		
FMAN11-7-63-22		7	63	22	40	11.1		
FMAN11-8-80-27		8	80	27	50	11.1		
FMAN11-10-80-27		10	80	27	50	11.1		
FMAN11-9-100-32		9	100	32	50	11.1		
FMAN11-12-100-32		12	100	32	50	11.1		
FMAN11-10-125-40		10	125	40	63	11.1		
FMAN11-14-125-40		14	125	40	63	11.1		





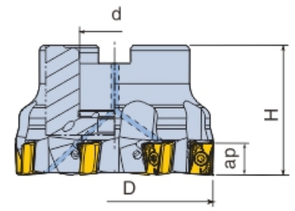
帶“*”的規格，刀盤固定方式爲4顆螺絲鎖緊
With the "*" specification,tool disk is secured with 4 screws.

訂貨型號 Order Code	刀片型號 Insert Type	刃數 Number of insert	ØD	Ød	H	ap	中心出水 Coolant through	刀片螺絲 Insert Screw	扳手 Spanner
FMAN16-3-50-22	(FOR 特固克 TEAGUTEC) ANMX1607	3	50	22	40	15	√	CSTB4	T15
FMAN16-4-50-22		4	50	22	40	15	√		
FMAN16-4-63-22		4	63	22	40	15	√		
FMAN16-6-63-22		6	63	22	40	15	√		
FMAN16-5-80-27		5	80	27	50	15	√		
FMAN16-7-80-27		7	80	27	50	15	√		
FMAN16-5-100-32		5	100	32	50	15	√		
FMAN16-8-100-32		8	100	32	50	15	√		
FMAN16-7-125-40		7	125	40	63	15	√		
FMAN16-10-125-40		10	125	40	63	15	√		
FMAN16-8-160-40 *		8	160	40	63	15	×		
FMAN16-12-160-40 *		12	160	40	63	15	×		
FMAN16-14-200-60 *		14	200	60	63	15	×		
FMAN16-5-80-25.4		5	80	25.4	50	15	√		
FMAN16-7-80-25.4		7	80	25.4	50	15	√		
FMAN16-5-100-31.75		5	100	31.75	50	15	×		
FMAN16-8-100-31.75		8	100	31.75	50	15	×		
FMAN16-7-125-38.1		7	125	38.1	63	15	×		
FMAN16-10-125-38.1		10	125	38.1	63	15	×		

R390 90°高速平面銑刀
R390 90 DEGREE HIGH SPEED FACE MILL CUTTER

Evermore®





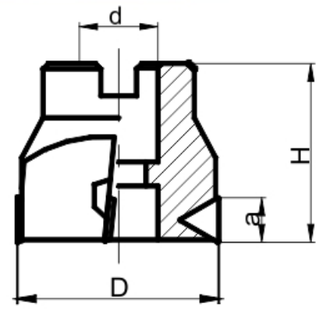
訂貨型號 Order Code	刀片型號 Insert Type	刃數 Number of insert	ØD	Ød	H	ap	刀片螺絲 Insert Screw	扳手 Spanner
FR390-4-50-22-18M	(FOR 山特維克 SANDVIK) R390-1806	4	50	22	40	15.4	CSTB4	T15
FR390-5-50-22-18H		5	50	22	40	15.4		
FR390-5-63-22-18M		5	63	22	40	15.4		
FR390-6-63-22-18H		6	63	22	40	15.4		
FR390-6-80-27-18M		6	80	27	50	15.4		
FR390-7-100-32-18M		7	100	32	50	15.4		
FR390-8-125-40-18M		8	125	40	63	15.4		
FR390-12-160-40-18M★		12	160	40	63	15.4		

註：帶“M”的爲密齒型，帶“H”的爲超密齒型
NOTE: with the "M" specification,the cutter is fine pitch type,and with the "H",is superfine pitch type.

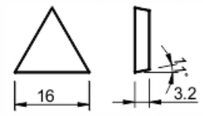
帶“*”的規格，刀盤固定方式爲4顆螺絲鎖緊且無中心出水
With the "*" specification,tool disk is secured with 4 screws ,no coolant through.

TPR-W/S 系列直角平面銑刀
TPR-W/S SERIES RIGHT-ANGLE FACE MILL CUTTER





訂貨型號 Order Code	ØD	Ød	H	a	刃數 Number of insert	刀片型號 Insert Type	刀片螺絲 Insert Screw	扳手 Spanner
TPR-50W/S	50	22	50	16	3	TPMN1603	SCR-W1/4-28	WRN-M4L
TPR-63W/S	63	25.4	50	16	4	TPMN1603	SCR-W1/4-28	WRN-M4L

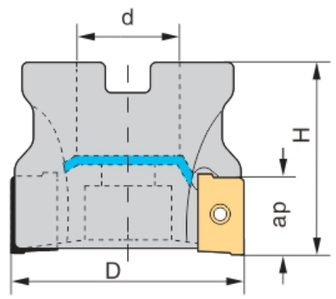
刀片型號 Insert Type	
TPMN1603	

Ad90°高速平面銑刀
AD90 DEGREE HIGH SPEED FACE MILL CUTTER

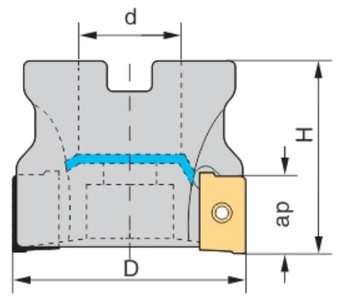
Evermore®

- 大前角刀具,切削特別輕快
  Inerts with big rake angle,cutting easily
- 準確90度的粗精加工
  Roughing or finishing for accurate 90° plane.
- 中心出水型
  Coolant through type
- 密齒刀盤最大限度提高生產效率
  Fine pitch cutter can maximize productivity





訂貨型號 Order Code	刀片型號 Insert Type	刃數 Number of insert	ØD	Ød	H	ap	刀片螺絲 Insert Screw	扳手 Spanner
FMAD08-7-50-22	(FOR 瓦爾特 WALTER) ADMT0803	7	50	22	40	8	CSTB2.5	T8



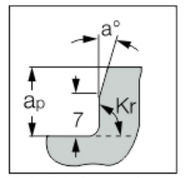


訂貨型號 Order Code	刀片型號 Insert Type	刃數 Number of insert	ØD	Ød	H	ap	刀片螺絲 Insert Screw	扳手 Spanner
FMAD12-4-50-22	(FOR 瓦爾特 WALTER) ADMT1204	4	50	22	40	12	CSTB3	T8
FMAD12-6-50-22		6	50	22	40	12		
FMAD12-5-63-22		5	63	22	40	12		
FMAD12-7-63-22		7	63	22	40	12		
FMAD12-6-80-27		6	80	27	50	12		
FMAD12-8-80-27		8	80	27	50	12		

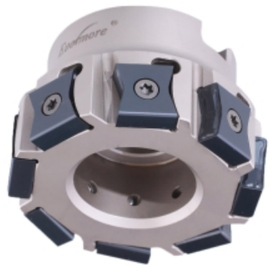
LNKX 螺旋刃蝴蝶銑刀
FACE MILL CUTTER WITH NKX1506 TANGENTIALLY CLAMPED INSERTS

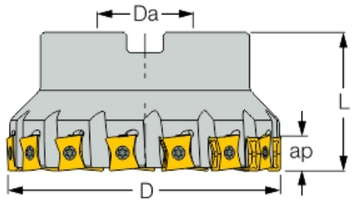
Evermore®

- 切削力小，加工輕快，穩定性高
  Low cutting force,cutting easily,high stability
- 通用面銑削刀盤
  General purpose face mill for mixed operations
- 密齒刀盤最大限度提高生產效率
  Fine pitch cutter can maximize productivity



D=50, a=8°, Kr=91°
D=63, 80 , a=6°, Kr=90°
D≥100, a=4.5°, Kr=90°

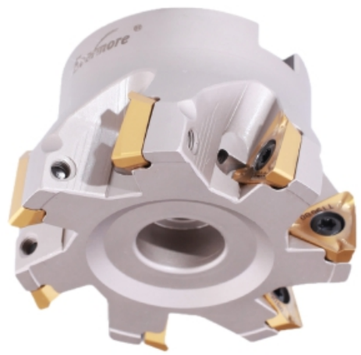




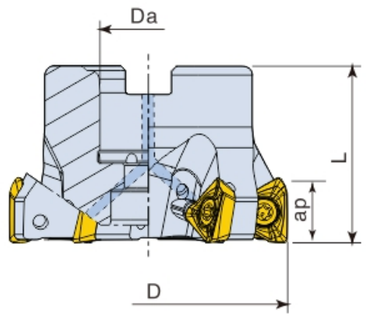
訂貨型號 Order Code	刀片型號 Insert Type	刃數 Number of insert	ØD	ØDa	L	ap	刀片螺絲 Insert Screw	扳手 Spanner
FMLN-5-50-22	(FOR 伊斯卡 ISCAR) LNKX1506	5	50	22	40	14	CSTB4	T15
FMLN-5-63-22		5	63	22	40	14		
FMLN-8-63-22		8	63	22	40	14		
FMLN-7-80-27		7	80	27	50	14		
FMLN-10-80-27		10	80	27	50	14		
FMLN-8-100-32		8	100	32	50	14		
FMLN-12-100-32		12	100	32	50	14		
FMLN-9-125-40		9	125	40	63	14		
FMLN-15-125-40		15	125	40	63	14		
FMLN-10-160-40		10	160	40	63	14		
FMLN-20-160-40		20	160	40	63	14		
FMLN-12-200-60		12	200	60	63	14		
FMLN-25-200-60		25	200	60	63	14		

3P 90° 高速平面銑刀
3P 90 DEGREE HIGH SPEED FACE MILL CUTTER

Evermore®



- 通用方肩銑、通槽銑、仿形銑、螺旋斜坡銑等
  General purpose end mill for shouldering, slotting, contouring and ramping operations
- 三角螺旋切削刃刀片 ,强度高
  3 corner inserts with helical cutting edges ,high strength
- 中心出水型
  Coolant through type

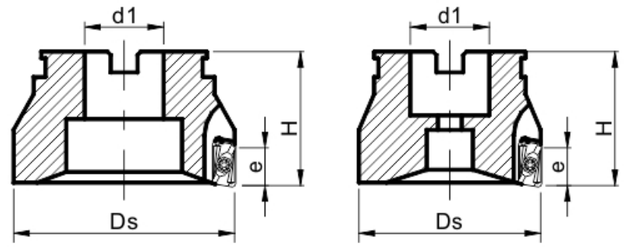


訂貨型號 Order Code	刀片型號 Insert Type	刃數 Number of insert	ØD	ØDa	L	ap	刀片螺絲 Insert Screw	扳手 Spanner
FM3P10-6-50-22	(FOR 特固克 TEAGUTEC) 3PKT1004	6	50	22	40	7	CSTB3	T8
FM3P10-7-50-22		7	50	22	40	7		
FM3P10-8-63-22		8	63	22	40	7		
FM3P10-9-63-22		9	63	22	40	7		
FM3P15-4-50-22	(FOR 特固克 TEAGUTEC) 3PKT1505	4	50	22	40	11	CSTB4.5	T20
FM3P15-5-50-22		5	50	22	40	11		
FM3P15-6-63-22		6	63	22	40	11		
FM3P15-7-80-27		7	80	27	50	11		
FM3P15-8-80-27		8	80	27	50	11		
FM3P15-8-100-32		8	100	32	50	11		
FM3P15-10-100-32		10	100	32	50	11		
FM3P15-10-125-40		10	125	40	63	11		
FM3P15-12-125-40		12	125	40	63	11		
FM3P19-4-63-22	(FOR 特固克 TEAGUTEC) 3PKT1906	4	63	22	40	15	CSTB 5	T20
FM3P19-6-63-22		6	63	22	40	15		
FM3P19-4-80-27		4	80	27	50	15		
FM3P19-7-80-27		7	80	27	50	15		
FM3P19-6-100-32		6	100	32	50	15		
FM3P19-8-100-32		8	100	32	50	15		
FM3P19-8-125-40		8	125	40	63	15		
FM3P19-10-125-40		10	125	40	63	15		

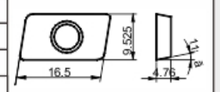
TAP 系列平面銑刀
TAP SERIES FACE MILL CUTTER

Evermore®

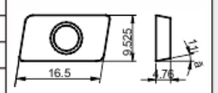




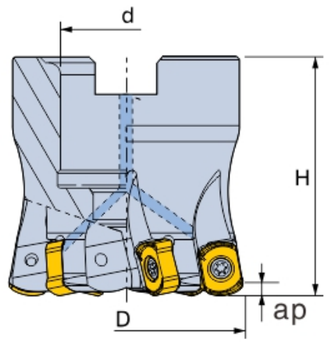
訂貨型號 Order Code	ØDs	H	Ød1 (mm)	e	刃數 Number of insert	刀片型號 Insert Type	刀片螺絲 Insert Screw	扳手 Spanner
TAP400R-50-22	50	40	22	14	4	(三菱 MITSUBISHI) APMT1604	CSTB4	T15
TAP400R-63-22	63	40	22	14	5			
TAP400R-80-27	80	50	27	14	6			
TAP400R-100-32	100	50	32	14	7			
TAP400R-125-40	125	63	40	14	8			
TAP400R-160-40 *	160	63	40	14	9			
TAP400R-50-22M	50	40	22	14	5			
TAP400R-63-22M	63	40	22	14	6			
TAP400R-80-27M	80	50	27	14	8			
TAP400R-100-32M	100	50	32	14	9			
TAP400R-125-40M	125	63	40	14	11			
TAP400R-160-40M *	160	63	40	14	12			
TAP400R-63-25.4	63	40	25.4	14	5			
TAP400R-80-25.4	80	50	25.4	14	6			
TAP400R-100-31.75	100	50	31.75	14	7			
TAP400R-125-38.1	125	63	38.1	14	8			
TAP400R-160-50.8	160	63	50.8	14	9			



訂貨型號 Order Code	ØDs	H	Ød1 (mm)	e	刃數 Number of insert	刀片型號 Insert Type	刀片螺絲 Insert Screw	扳手 Spanner
TAP400R-50-22H	50	40	22	14	4	(三菱 MITSUBISHI) APMT1604	CSTB4	T15
TAP400R-63-22H	63	40	22	14	5			
TAP400R-80-27H	80	50	27	14	6			
TAP400R-100-32H	100	50	32	14	7			
TAP400R-125-40H	125	63	40	14	8			
TAP400R-50-22MH	50	40	22	14	5			
TAP400R-63-22MH	63	40	22	14	6			
TAP400R-80-27MH	80	50	27	14	8			
TAP400R-100-32MH	100	50	32	14	9			
TAP400R-125-40MH	125	63	40	14	11			
TAP400R-63-25.4H	63	40	25.4	14	5			
TAP400R-80-25.4H	80	50	25.4	14	6			
TAP400R-100-31.75H	100	50	31.75	14	7			
TAP400R-125-38.1H	125	63	38.1	14	8			
TAP400R-160-50.8H	160	63	50.8	14	9			



- 帶 “*” 的規格，刀盤固定方式爲4顆螺絲鎖緊
  With the "*" specification,tool disk is secured with 4 screws.
- 帶 “H” 的規格爲中心出水型
  The tool disk with "H"specification is coolant through type.



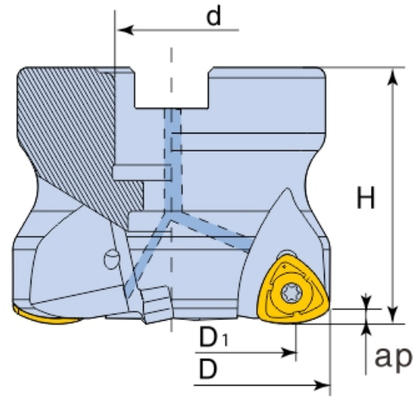


- 適合高進給加工
  Particularly suitable for high feed machining
- 刀片强度增加
  Increased density of inserts
- 4刃刀片，低切削阻力
  4 Corner inserts with low cutting forces
- 中心出水型
  Coolant through type

訂貨型號 Order Code	刀片型號 Insert Type	刃數 Number of insert	ØD	Ød	H	ap	刀片螺絲 Insert Screw	扳手 Spanner
FMBL06-6-40-22R	(FOR 特固克 TEAGUTEC) BLMP0603R	6	40	22	40	1	CSTB2.5	T8
FMBL06-6-50-22R		6	50	22	50	1		
FMBL06-7-50-22R		7	50	22	50	1		
FMBL06-8-52-22R		8	52	22	50	1		
FMBL06-7-63-22R		7	63	22	50	1		
FMBL06-8-63-22R		8	63	22	50	1		
FMBL09-5-50-22R	(FOR 特固克 TEAGUTEC) BLMP0904	5	50	22	50	1.5	CSTB3.5	T10
FMBL09-6-50-22R		6	50	22	50	1.5		
FMBL09-7-50-22R		7	50	22	50	1.5		
FMBL09-6-63-22R		6	63	22	50	1.5		
FMBL09-7-63-22R		7	63	22	50	1.5		
FMBL09-8-63-22R		8	63	22	50	1.5		
FMBL09-7-80-27R		7	80	27	50	1.5		
FMBL09-8-80-27R		8	80	27	50	1.5		
FMBL09-9-80-27R		9	80	27	50	1.5		
FMBL09-10-80-27R		10	80	27	50	1.5		
FMBL09-9-100-32R		9	100	32	60	1.5		
FMBL09-10-100-32R		10	100	32	60	1.5		

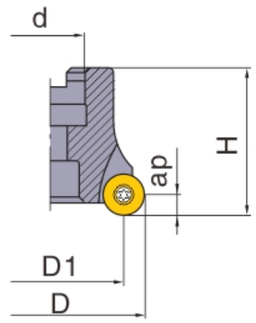


- 面銑用超高進給刀盤
  Particularly suitable for high feed machining when face milling
- 設計結合大的圓角和獨特的刀片形狀
  The unique design of the insert shape and big Radius
- 切削深度爲2mm時，每齒進給可達4mm
  When cutting depth is 2mm,the feed per insert can be 4mm
- 中心出水型
  Coolant through type

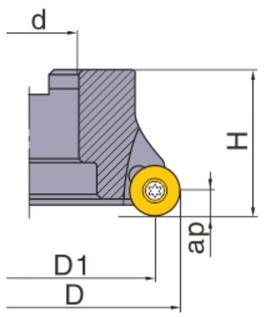


訂貨型號 Order Code	刀片型號 Insert Type	刃數 Number of insert	ØD	ØD1	Ød	H	ap	刀片螺絲 Insert Screw	扳手 Spanner
FMBL12-3-50-22R	(FOR 特固克 TEAGUTEC) BLMP1205R	3	50	33.3	22	40	2	CSTB4	T15
FMBL12-4-50-22R		4	50	33.3	22	40	2		
FMBL12-4-63-22R		4	63	46	22	50	2		
FMBL12-5-63-22R		5	63	46	22	50	2		
FMBL12-5-80-25.4R		5	80	63.2	25.4	60	2		
FMBL12-5-80-27R		5	80	63.2	27	60	2		
FMBL12-5-80-31.75R		5	80	63.2	31.75	60	2		
FMBL12-5-80-32R		5	80	63.2	32	60	2		
FMBL12-6-100-31.75R		6	100	83	31.75	60	2		
FMBL12-6-100-32R		6	100	83	32	60	2		
FMBL12-7-125-40R		7	125	108	40	60	2		



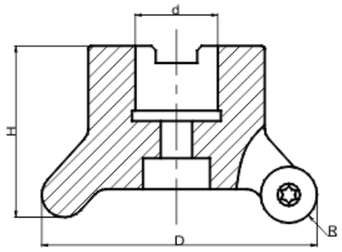


- R型刀片具有極強的切削刃口
  High density of inserts
- 通用模銑刀盤
  General purpose copy milling cutter
- 通用仿形粗加工刀盤
  For general purpose rough face milling for profiling
- 中心出水型
  Coolant through type



訂貨型號 Order Code	ØD	ØD1	Ød (mm)	H	ap	刃數 Number of insert	刀片型號 Insert Type	刀片螺絲 Insert Screw	扳手 Spanner
TRSP-6R50-22	50	37.8	22	50	6	4	(三菱 MITSUBISHI) RP..1204	CSTB4	T15
TRSP-6R50-22.225	50	37.8	22.225	63	6	4			
TRSP-6R63-22	63	50.8	22	50	6	5			
TRSP-6R63-22.225	63	50.8	22.225	63	6	5			
TRSP-6R80-25.4	80	67.8	25.4	50	6	6			
TRSP-8R63-22	63	46.8	22	50	8	4	(三菱 MITSUBISHI) RP..1606	CSTB5	T20
TRSP-8R63-22.225	63	46.8	22.225	63	8	4			
TRSP-8R80-25.4	80	63.8	25.4	50	8	5			
TRSP-8R100-31.75	100	83.8	31.75	50	8	6			

- R型刀片具有極強的切削刃口
  High density of inserts
- 通用模銑刀盤
  General purpose milling cutter
- 通用仿形粗加工刀盤
  For general purpose rough face milling for profiling
- 中心出水型
  Coolant through type



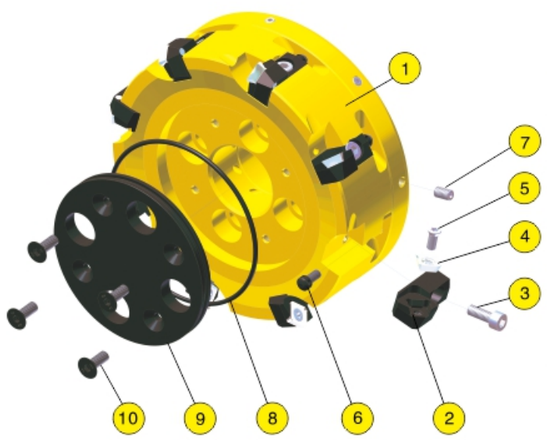


訂貨型號 Order Code	ØD	Ød (mm)	H	R	刃數 Number of insert	刀片型號 Insert Type	刀片螺絲 Insert Screw	扳手 Spanner
TRS-5R50-22	50	22	45	5	4	(日立 HITACHI) RD..10	CSTB4	T15
TRS-5R52-22	52	22	50	5	5			
TRS-5R63-25.4	63	25.4	50	5	5			
TRS-5R63-27	63	27	50	5	5			
TRS-8R50-22	50	22	45	8	3	(日立 HITACHI) RD..16	CSTB5	T20
TRS-8R63-25.4	63	25.4	50	8	4			
TRS-8R63-27	63	27	50	8	4			
TRS-8R80-25.4	80	25.4	50	8	5			
TRS-8R80-27	80	27	50	8	5			
TRS-8R100-31.75	100	31.75	55	8	6			
TRS-8R100-32	100	32	55	8	6			
TRS-8R116-31.75	116	31.75	55	8	7			
TRS-8R116-32	116	32	55	8	7			

鋁合金特色：
Aluminium alloy feature:

- **本體採用特殊鋁合金材料，提高整體剛性，重量是普通刀盤的1/2~1/3**
  The mainbody uses special aluminium alloy material improve the whole rigidity. The weight is 1/2~1/3than the ordinary cutter.
- **45°主偏角和90°主偏角鋁合金本體相同，更換方便滿足不同的加工需要**
  The same of the aluminium alloy mainbody for45° and 90° edge angle. Change conveniently and satisfy different process need.
- **特別適合鋁合金高速銑削,尤其配合PCD刀片效果更佳**
  Specially fit for aluminium high speed milling,coupling PCD insert for better effect.
- **結合中心給水功能,使排屑更加理想**
  Combinate internal coolant function,make chip removal more ideal.

零件組
Parts

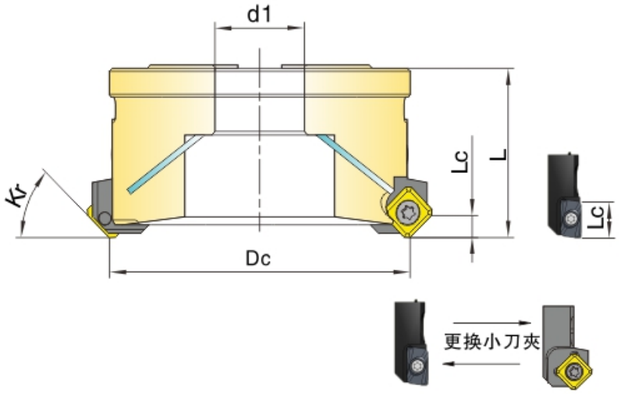


NO	零件	Part
1	鋁合金本體	Aluminium alloy mainbody
2	卡式刀夾45°	tool holder cartridges45°
3	刀夾螺絲	tool holder screw
4	刀片	Insert
5	刀片螺絲	insert screw
6	軸向調整螺絲	axial adjustment screw
7	平衡螺絲	Equilibrate screw
8	O型圈	O ring
9	密封蓋	sealing cover
10	密封蓋螺絲	sealing cover screw

卡式刀夾
Cartridges

刀夾 Tool older	型號 Model	螺釘 Screw	扳手 Wrench	螺釘 Screw	扳手 Wrench	刀片 Insert
卡式刀夾45°	SSSER12CY-12AL	M6X20	L5mm	CSTB-5	T20	SE__1204
卡式刀夾90°	SAFPR12CY-16AL			CSTB-4	T15	AP__1604





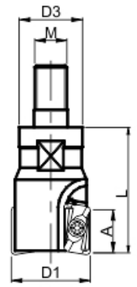
安裝形式 Installing form				
型號 Model	HSM80AL	HSM100AL HSM125AL	HSM160AL HSM200AL HSM250AL	HSM315AL

Kr 主偏角 Toll cutting edge angle	訂貨型號 Order code	Dc	L	Lc	刃數 Numbel of insert	d1	重量 Weight (kg)	適用刀片 Insert
45°	HSM80AL-4T45-27	80	55	7	4	27	0.67	SE__1204
	HSM100AL-6T45-32	100	55		6	32	1.06	
	HSM125AL-6T45-40	125	58		6	40	1.58	
	HSM160AL-8T45-40	160	63		8	40	2.91	
	HSM200AL- 8 T45-60	200	63		8	60	4.35	
	HSM250AL-10T45-60	250	63		10	60	7.06	
	HSM315AL-12T45-60	315	63		12	60	13.36	
90°	HSM80AL-4T90-27	80	55	14	4	27	0.64	AP__1604
	HSM100AL-6T90-32	100	55		6	32	1.01	
	HSM125AL-6T90-40	125	58		6	40	1.53	
	HSM160AL-8T90-40	160	63		8	40	2.85	
	HSM200AL- 8 T90-60	200	63		8	60	4.27	
	HSM250AL-10T90-60	250	63		10	60	6.96	
	HSM315AL-12T90-60	315	63		12	60	13.24	



- 獨特的螺紋連接，裝卸方便
  Connected by thread,loading and unloading easy
- 換刀時間短，提高了加工效率，降低了生產成本
  Shortening tool chang time ,Improving the processing efficiency and lowering production costs
- 模塊式設計,配用EM小銑頭刀柄
  Modular type,matched with EM small milling cutter holders
- 適用於仿型銑等
  For general purpose milling for profiling

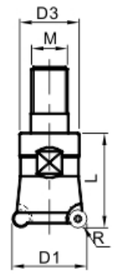
APMT系列端銑刀
APMT series end mill cutters





TRS系列R角端銑刀
TRS series radius end mill cutters

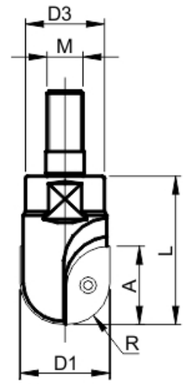




訂貨型號 Order Code	ØD1	ØD2	ØD3	A	L	M	刃數 No. of Cutters	刀片型號 Insert type	刀片螺絲 Insert Screw	扳手 spanner
APMT系列端銑刀 APMT series end mill cutters										
APMT-16	16	--	13.5	7	35	M8	2	APMT090308R	CSTB2.5	T8
APMT-20	20	--	18	7	35	M10	2		CSTB2.5	T8
APMT-25	25	--	21.5	13	40	M12	2	APMT15T3PDR	CSTB4	T15
APMT-32	32	--	30	13	40	M16	3		CSTB4	T15
TRS系列R角端銑刀 TRS series radius end mill cutters										
TRS-2.5R10	10	--	10	--	20	M5	2	RD..05	CSTB2	T6
TRS-2.5R12	12	--	12	--	20	M8	3			
TRS-3.5R15	15	--	16	--	23	M8	2	RD..07	CSTB2.5	T8
TRS-3.5R16	16	--	16	--	23	M8	3			
TRS-3.5R20	20	--	20	--	30	M10	4			
TRS-3.5R25	25	--	25	--	35	M12	5			
TRS-3.5R32	32	--	25	--	42	M16	5			
TRS-3.5R35	35	--	25	--	42	M16	6			
TRS-4R25	25	--	21.5	--	30	M12	3	(日立 HITACHI) RD..08	CSTB3	
TRS-4R32	32	--	30	--	30	M16	4			



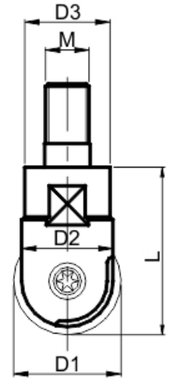




TCF系列球型銑刀
TCF series ball type mill cutters

訂貨型號 Order Code	ØD1	ØD2	ØD3	A	L	M	刃數 No. of Cutters	(日立 HITACHI) 刀片型號 Insert type	刀片螺絲 Insert screw	扳手 spanner
TCFM-10R	20	--	18	18	38	M10	2	ZCEW100CE ZCEW100SE	BR10	T10
TCFM-12.5R	25	--	21.5	23	38	M12	2	ZCEW125CE ZCEW125SE	BR12.5	T15
TCFM-15R	30	--	30	28	47	M16	2	ZCEW150CE ZCEW150SE	BR 15	T20



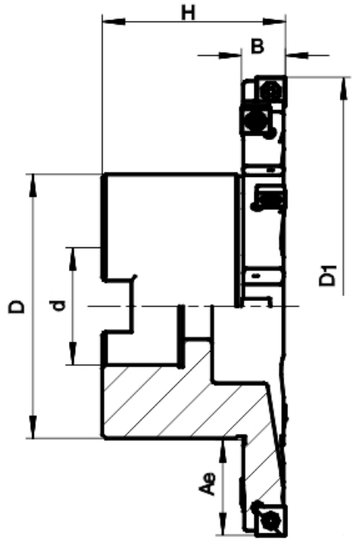


T2139系列球型精銑刀
T2139 series ball type fine mill cutters

訂貨型號 Order Code	ØD1	ØD2	ØD3	A	L	M	刃數 No. of Cutters	刀片型號 Insert type	刀片螺絲 Insert screw	扳手 spanner
T2139M-6R	12	10	13.5	--	38	M8	1	P3200D12	CR 6	T20
T2139M-8R	16	14	13.5	--	38	M8	1	P3200D16	CR 8	T20
T2139M-10R	20	18	18	--	38	M10	1	P3200D20	CR 10	T20
T2139M-12.5R	25	23	21.5	--	35	M12	1	P3200D25	CR 12	T20

SC 系列三面刃銑刀
SC SERIES FULL SLOT FIXED POCKET MILL CUTTER

Evermore®





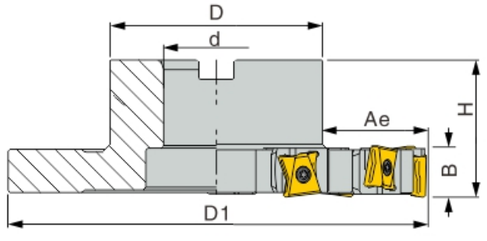
- 多功能法蘭型刀盤
  Multi-purpose flange type side cutter.
- 三面刃
  Full slot fixed pocket
- 基於SCMT刀片的獨有設計
  Unique cutter design for SCMT inserts.

訂貨型號 Order Code	ØD1	ØD	Ød	H	刃數 Number of Insert	B	Ae	刀片型號 Insert Type	刀片螺絲 Insert Screw	扳手 Spanner
ESC-63-10-22-SC07	63	48	22	50	3+3	10	7	(住友 SUMITOMO) SCMT0702	CSTB2.5	T8
ESC-80-10-22-SC07	80	48	22	50	4+4	10	15.5			
ESC-100-10-27-SC07	100	60	27	50	5+5	10	19.5			
ESC-125-10-32-SC07	125	72	32	50	6+6	10	26			
ESC-63-12-22-SC07	63	48	22	50	3+3	12	7			
ESC-80-12-22-SC07	80	48	22	50	4+4	12	15.5			
ESC-100-12-27-SC07	100	60	27	50	5+5	12	19.5			
ESC-125-12-32-SC07	125	72	32	50	6+6	12	26			
ESC-63-14-22-SC09	63	48	22	50	3+3	14	7	(住友 SUMITOMO) SCMT09T3	CSTB4	T15
ESC-80-14-22-SC09	80	48	22	50	4+4	14	15.5			
ESC-100-14-27-SC09	100	60	27	50	5+5	14	19.5			
ESC-125-14-32-SC09	125	72	32	50	6+6	14	26			
ESC-80-17-22-SC09	80	48	22	50	4+4	17	15.5			
ESC-100-17-27-SC09	100	60	27	50	5+5	17	19.5			
ESC-125-17-32-SC09	125	72	32	50	6+6	17	26			
ESC-80-20-22-SC12	80	48	22	50	4+4	20	15.5	(住友 SUMITOMO) SCMT1204	CSTB5	T20
ESC-100-20-27-SC12	100	60	27	50	5+5	20	19.5			
ESC-125-20-32-SC12	125	72	32	50	6+6	20	26			

LNKX 三面刃蝴蝶銑刀
FULL SLOT FIXED MILL CUTTER WITH LNKX1506 TANGENTIALLY CLAMPED INSERTS

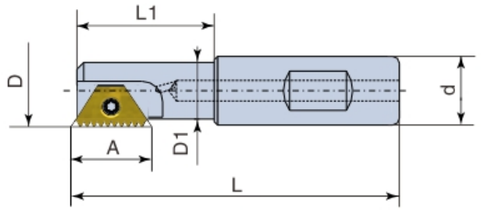
Evermore®





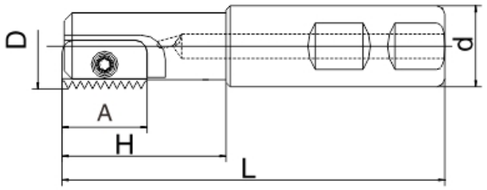
訂貨型號 Order Code	ØD1	ØD	Ød	H	刃數 Number of insert	B	Ae	刀片型號 Insert Type	刀片螺絲 Insert Screw	扳手 Spanner
ELN-125-20-32	125	72	32	40	4+4	20	26	(FOR 伊斯卡 ISCAR) LNKX1506	CSTB4	T15
ELN-160-20-40	160	80	40	50	5+5	20	40			
ELN-200-20-40	200	90	40	50	7+7	20	55			





訂貨型號 Order Code	ØD	A	Ød	L1	ØD1	L	刀杆類型 Shank Style	齒數 Nummber of inserts	(瓦格斯 VARGUS) 刀片型號 Insert Type	螺距 Pitch	刀片螺絲 Insert Screw	扳手 Spanner
TMC-9.0-12-6.0	9.0	10.4	12	12	6.8	69	SL12	1	6.0□□ISO□	0.5~1.5	CSTB2.2	T7
TMC-9.0-20-6.0	9.0	10.4	20	17	6.8	84	SL20	1		0.5~1.5		
TMC-11.5-12-2	11.5	11	12	12	8.9	70	SL12	1	2□□ISO□	0.5~1.5	CSTB2.5	T8
TMC-11.5-20-2	11.5	11	20	20	8.9	85	SL20	1		0.5~1.5		
TMC-17-16-3	17	16	16	22	13.6	90	SL16	1	3□□ISO□	0.5~2.0	CSTB3	T8
TMC-20-20-3	20	16	20	43	16.6	95	SL20	1		0.5~2.0		
TMC-17-16-3B	17	22	16	29	13.5	79.5	SL16	1	3B □□ISO□	1.0~2.0		
TMC-19-20-3B	19	22	20	29	15.5	81.5	SL20	1		1.0~2.0		
TMC-19-25-3B	19	22	25	30	15.5	92.3	SL25	1		1.0~2.0		
TMC-22-25-3B	22	22	25	30	18.5	90.8		1		1.0~2.0		
TMC-30-25-5	30	27	25	52	24	110		1	5□□ISO□	1.0~4.5	CSTB5	T20
TMC-37-32-5	37	27	32	58	31	120	SL32	1		1.0~4.5		
TMC-35-32-6B	35	38.5	32	53	27	115		1	6B□□ISO□	1.5~6.0	CSTB7	T30
TMC-46-40-6B	46	38.5	40	63	38	135	SL40	1		1.5~6.0		





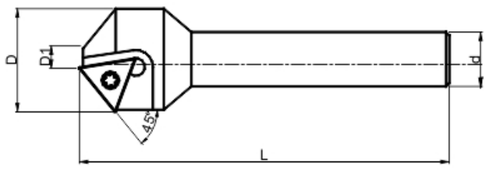
訂貨型號 Order Code	ØD	A	Ød	H	L	刀杆類型 Shank Style	齒數 Nummber of inserts	(成都鋒宜 FENGYI) 刀片型號 Insert Type	螺距 Pitch	刀片螺絲 Insert Screw	扳手 Spanner
MTSR-9.5-1T12	9.5	12	20	14	85	SL20	1	12□□ISO	0.5~1.5	CSTB3	T8
MTSR-9.9-1T12	9.9	12	20	16	85		1		0.5~1.5		
MTSR-12-1T14	12	14	20	20	85		1	14□□ISO	0.5~2.5		
MTSR-14.5-1T14	14.5	14	20	25	85		1		0.5~2.5		
MTSR-17-1T14	17	14	20	30	85		1		0.5~2.5		
MTSR-18-1T21	18	21	20	30	85		1	21□□ISO	1~3.5	CSTB4	T15
MTSR-21-1T21	21	21	20	40	94		1		1~3.5		
MTSR-29-1T30	29	30	25	50	110	SL25	1	30□□ISO	1.5~5.0	CSTB5	T20
MTSR-48-1T40	48	40	40	78	153	SL40	1	40□□ISO	1.5~6.0		

TC 45° 倒角刀
TC STYLE 45 DEGREE CHAMFERING MILL CUTTER

Evermore®



- 適合倒角銑和去毛刺
  Milling cutter for chamfering and deburring operations
- 可用於銑槽和埋頭螺釘孔
  Used for slot milling and countersunk screw hole machining

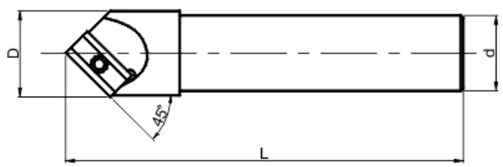


訂貨型號 Order Code	ØD	Ød	ØD1	L	倒角範圍 Chamfering Range	刀片型號 Insert Type	刀片螺絲 Insert Screw	扳手 Spanner
TC-12	25	12	3.5	100	4-24	TCMT16T304	CSTB4	T15
TC-40	40	12	18	100	20-36	TCMT16T304	CSTB4	T15

AD 45° 倒角刀
AD STYLE 45 DEGREE CHAMFERING MILL CUTTER

- 適合倒角銑和去毛刺
  Milling cutter for chamfering and deburring operations
- 可用於銑槽和埋頭螺釘孔
  Used for slot milling and countersunk screw hole machining





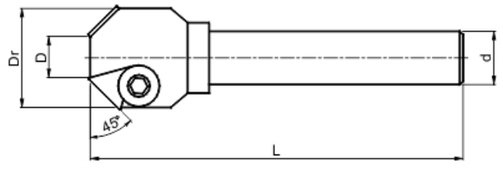
訂貨型號 Order Code	ØD	Ød	L	倒角範圍 Chamfering Range	刀片型號 Insert Type	刀片螺絲 Insert Screw	扳手 Spanner
AD-20	21	20	120	3-20	(日立 HITACHI) ADNT-16034SR	CSTB4	T15

TPR 45° 倒角刀
TRR STYLE 45 DEGREE CHAMFERING MILL CUTTER

Evermore®



- 適合倒角銑和去毛刺
  Milling cutter for chamfering and deburring operations
- 可用於銑槽和埋頭螺釘孔
  Used for slot milling and countersunk screw hole machining

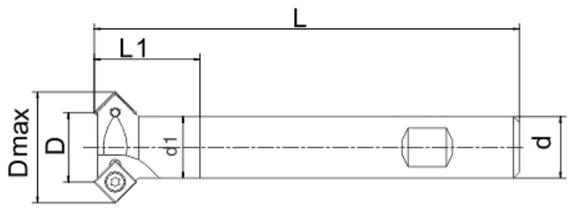


訂貨型號 Order Code	ØD	ØDr	Ød	L	切刃數 Cutting Edge No.	刀片型號 Insert Type	刀片螺絲 Insert Screw	扳手 Spanner
TPR45-0521×16	5	21	16	120	1	TPMN1603	SCR-W1/4-28	L4
TPR45-1031×20	10	31	20	120	2	TPMN1603	SCR-W1/4-28	L4
TPR45-2050×20	20	50	20	120	3	TPMN2204	SCR-W5/16-24	L5
TPR45-2050×25	20	50	25	120	3	TPMN2204	SCR-W5/16-24	L5
TPR45-2050×32	20	50	32	120	3	TPMN2204	SCR-W5/16-24	L5
TPR45-3563×25	35	63	25	120	3	TPMN2204	SCR-W5/16-24	L5
TPR45-3563×32	35	63	32	120	3	TPMN2204	SCR-W5/16-24	L5

SC 45° 倒角刀
SC STYLE 45 DEGREE CHAMFERING MILL CUTTER

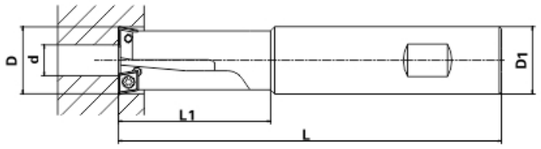
- 適合倒角銑和去毛刺
  Milling cutter for chamfering and deburring operations
- 可用於銑槽和埋頭螺釘孔
  Used for slot milling and countersunk screw hole machining
- 可用於銑側槽和反倒角
  Used for side groove milling and back chamfering





訂貨型號 Order Code	ØD	ØDmax	Ød	Ød1	L	L1	切刃數 Cutting Edge No.	(住友 SUMITOMO) 刀片型號 Insert Type
T45-SL16-8-20	8	20	16	15.5	80	17	1	SC□□0702□□
T45-SL16-18-28.2	18	28.2	16	15.5	110	20.5	2	SC□□0702□□
T45-SL20-23.5-35	23.5	35	20	19.5	130	30	3	SC□□09T3□□
T45-SL25-25-38	25	38	25	24.5	130	27	3	SC□□09T3□□
T45-SL25-33.5-45	33.5	45	25	24.5	140	30	3	SC□□09T3□□



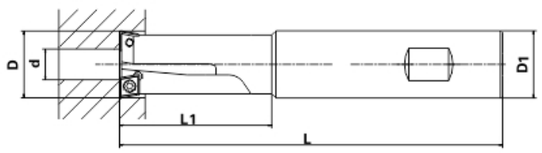


訂貨型號 Order Code	ØD	ØD1	Ød min	L1	L	刃數 Number of insert	刀片型號 Insert Type	刀片螺絲 Insert Screw	扳手 Spanner
SL12-16-30	16	12	5	30	92	2	CCMT0602	CSTB2.5	T8
SL16-17-32	17	16	6	32	94				
SL16-18-41	18		7	41	97				
SL16-19-41	19		8		100				
SL16-20-41	20		9		102				
SL16-21-41	21		10		105				
SL16-22-41	22		11		110				
SL16-23-41	23		12		112				
SL16-24-41	24		13		115				
SL16-25-40	25		8	40	120				
SL20-26-55	26	20	9	55	125		CCMT09T3	CSTB4	T15
SL20-27-55	27		10		128				
SL20-28-55	28		11		130				
SL20-29-55	29		12		132				
SL20-30-55	30		13		134				
SL20-31-55	31		14		136				
SL20-32-55	32		15		138				
SL20-33-55	33		16		140				
SL25-34-60	34	25	16	60					
SL25-35-60	35		17						
SL25-36-60	36		18						
SL25-37-60	37		19						
SL25-38-60	38		20						
SL25-39-60	39		21						
SL25-40-60	40		22						
SL25-41-60	41		23						
SL25-42-60	42		24						

★ 用於鑽孔中加工正向的沉孔。
Used for processing positive countersink when drilling.

180° 正面總孔銑刀
180 DEGREE SPOT FACING CUTTER
Evermore®
銑刀產品介紹 Cutting Tools



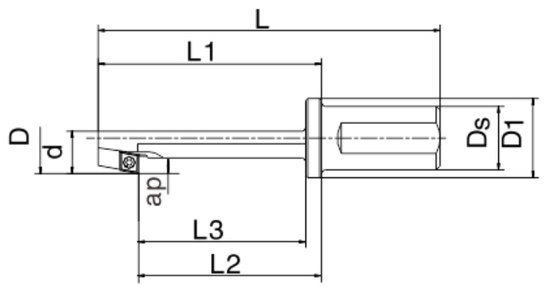


訂貨型號 Order Code	ØD	ØD1	Ød min	L1	L	刃數 Number of insert	刀片型號 Insert Type	刀片螺絲 Insert Screw	扳手 Spanner
SL12-15.7-30	15.7	12	5	30	92	2	CCMT0602	CSTB2.5	T8
SL16-16.7-32	16.7	16	6	32	94				
SL16-17.7-41	17.7		7	41	97				
SL16-18.7-41	18.7		8		100				
SL16-19.7-41	19.7		9		102				
SL16-20.7-41	20.7		10		105				
SL16-21.7-41	21.7		11		110				
SL16-22.7-41	22.7		12		112				
SL16-23.7-41	23.7		13		115				
SL16-24.7-40	24.7		8	40	120				
SL20-25.7-55	25.7	20	9	55	125		CCMT09T3	CSTB4	T15
SL20-26.7-55	26.7		10		128				
SL20-27.7-55	27.7		11		130				
SL20-28.7-55	28.7		12		132				
SL20-29.7-55	29.7		13		134				
SL20-30.7-55	30.7		14		136				
SL20-31.7-55	31.7		15		138				
SL20-32.7-55	32.7		16		140				
SL25-33.7-60	33.7	25	16	60					
SL25-34.7-60	34.7		17						
SL25-35.7-60	35.7		18						
SL25-36.7-60	36.7		19						
SL25-37.7-60	37.7		20						
SL25-38.7-60	38.7		21						
SL25-39.7-60	39.7		22						
SL25-40.7-60	40.7		23						
SL25-41.7-60	41.7		24						

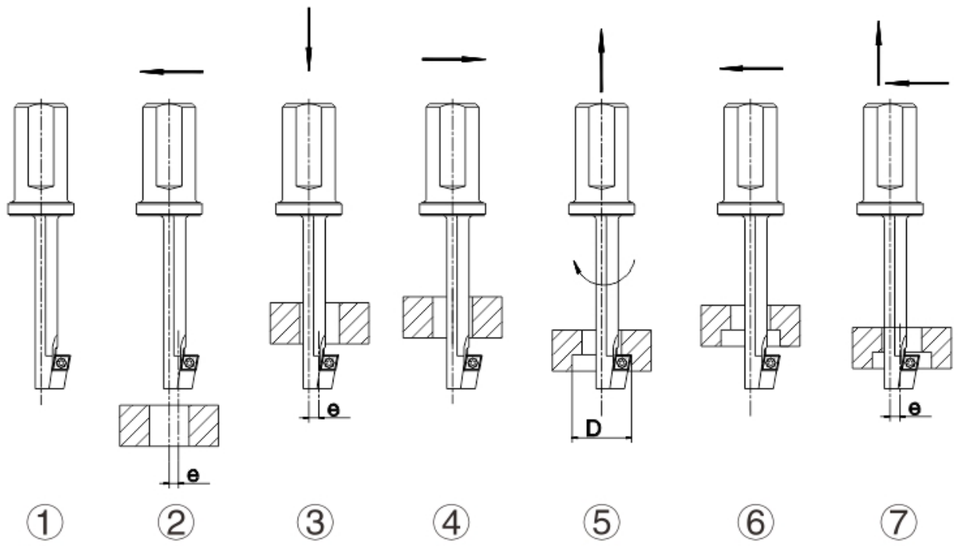
★ 用於鑽孔中加工正向的沉孔。
Used for processing positive countersink when drilling.

★ 可以用於粗鏜孔。
Used for rough boring.





訂貨型號 Order Code	ØD	Ød min	L1	L2	L3	ØD1	e	L	ØDs	ap	刀片型號 Insert Type	刀片螺絲 Insert Screw	扳手 Spanner
SL20-18-40B	18	10.5	62	47	40	25	4.05	112	20	3.75	CCMT0602	CSTB2.5	T8
SL20-20-45B	20	13	67	52	45	25	3.80	117	20	3.5			
SL20-24-50B	24	15	72	57	50	25	4.80	122	20	4.5			
SL20-26-60B	26	17	82	67	60	25	5.05	132	20	4.5			
SL20-30-65B	30	19	92	77	65	25	6.05	142	20	5.5			
SL20-33-75B	33	21	102	82	75	25	6.65	152	20	6	CCMT09T3	CSTB4.0	T15
SL32-36-85B	36	23	113	93	85	40	7.05	173	32	6.5			
SL32-40-95B	40	25	123	103	95	40	8.05	183	32	7.5			
SL32-43-95B	43	30	123	103	95	40	7.05	183	32	6.5			
SL32-48-135B	48	33	163	143	135	40	8.05	223	32	7.5			
SL40-53-110B	53	36	140	-	110	-	9.05	210	40	8.5	CCMT1204	CSTB5.0	T20
SL40-57-120B	57	39	150	-	120	-	9.55	220	40	9			
SL50-66-135B	66	45	165	-	135	-	11.05	245	50	10.5			
SL50-76-155B	76	52	185	-	155	-	12.55	265	50	12			

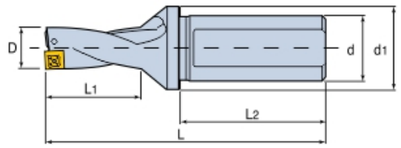


鑽深：2倍直徑
Drilling depth:2Diameter



★ 受力均衡設計保證了穩定、高精度的孔加工
Balanced design enables stable and precise drilling.

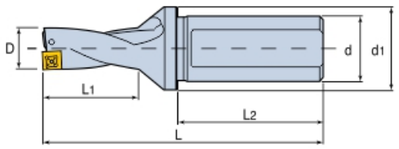
★ 可進行鑽、擴、鏜孔等多種加工
Used for a variety of machining applications,such as hole widening and spot facing and drilling.



訂貨型號 Order Code		ØD	Ød	Ød1	L1	L2	L	刀片 Insert	螺釘 Screw	扳手 Wrench
SPT2D	12520-05	12.5	20	25	26	50	94	SPMG050204	CSTB2.0	T6
	13020-05	13.0	20	25	26	50	94			
	13520-05	13.5	20	25	28	50	96			
	14020-05	14.0	20	25	28	50	96			
	14520-05	14.5	20	25	30	50	99			
	15020-05	15.0	20	25	30	50	99			
	15525-06	15.5	25	32	32	56	108	SPMG060204	CSTB2.2	T7
	16025-06	16.0	25	32	32	56	108			
	16525-06	16.5	25	32	34	56	110			
	17025-06	17.0	25	32	34	56	110			
	17525-06	17.5	25	32	36	56	113			
	18025-06	18.0	25	32	36	56	113			
	18525-06	18.5	25	32	38	56	115			
	19025-06	19.0	25	32	38	56	115			
	19525-06	19.5	25	32	40	56	119			
	20025-06	20.0	25	32	40	56	119			
	20525-06	20.5	25	32	42	56	121			
	21025-06	21.0	25	32	42	56	121			
	21525-06	21.5	25	32	44	56	123			
	22025-07	22.0	25	32	44	56	123	SPMG07T308	CSTB2.5	T8
	22525-07	22.5	25	45	46	56	127			
	22532-07	22.5	32	45	46	60	131			
	23025-07	23.0	25	45	46	56	127			
	23032-07	23.0	32	45	46	60	131			
	23525-07	23.5	25	45	48	56	130			
	23532-07	23.5	32	45	48	60	134			
	24025-07	24.0	25	45	48	56	130			
	24032-07	24.0	32	45	48	60	134			
	24525-07	24.5	25	45	50	56	133			
	24532-07	24.5	32	45	50	60	137			
	25025-07	25.0	25	45	50	56	133			
	25032-07	25.0	32	45	50	60	137			
	25525-07	25.5	25	45	52	56	135			
	25532-07	25.5	32	45	52	60	139			
	26025-07	26.0	25	45	52	56	135			
	26032-07	26.0	32	45	52	60	139			
	26525-07	26.5	25	45	54	56	137			
	26532-07	26.5	32	45	54	60	141			
	27025-07	27.0	25	45	54	56	137			

鑽深：2倍直徑
Drilling depth:2Diameter

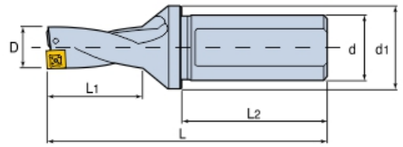




訂貨型號 Order Code	ØD	Ød	Ød1	L1	L2	L	刀片 Insert	螺釘 Screw	扳手 Wrench
SPT2D 27032-07	27.0	32	45	54	60	141	SPMG07T308	CSTB2.5	T8
27525-07	27.5	25	45	56	56	140			
27532-07	27.5	32	45	56	60	144			
28025-09	28.0	25	45	56	56	140	SPMG090408	CSTB3.5	T15
28032-09	28.0	32	45	56	60	144			
28525-09	28.5	25	45	58	56	142			
28532-09	28.5	32	45	58	60	146			
29025-09	29.0	25	45	58	56	142			
29032-09	29.0	32	45	58	60	146			
29532-09	29.5	32	55	60	60	151			
29540-09	29.5	40	55	60	70	161			
30032-09	30.0	32	55	60	60	151			
30040-09	30.0	40	55	60	70	161			
30532-09	30.5	32	55	62	60	154			
30540-09	30.5	40	55	62	70	164			
31032-09	31.0	32	55	62	60	154			
31040-09	31.0	40	55	62	70	164			
31532-09	31.5	32	55	64	60	156			
31540-09	31.5	40	55	64	70	166			
32032-09	32.0	32	55	64	60	156			
32040-09	32.0	40	55	64	70	166			
32532-09	32.5	32	55	66	60	159			
32540-09	32.5	40	55	66	70	169			
33032-09	33.0	32	55	66	60	159			
33040-09	33.0	40	55	66	70	169			
34032-11	34.0	32	55	68	60	161	SPMG110408	CSTB4	T15
34040-11	34.0	40	55	68	70	171			
35032-11	35.0	32	55	70	60	164			
35040-11	35.0	40	55	70	70	174			
36032-11	36.0	32	55	72	60	167			
36040-11	36.0	40	55	72	70	177			
37032-11	37.0	32	55	74	60	170			
37040-11	37.0	40	55	74	70	180			
38032-11	38.0	32	55	76	60	173			
38040-11	38.0	40	55	76	70	183			
39032-11	39.0	32	55	78	60	175			
39040-11	39.0	40	55	78	70	185			
40032-11	40.0	32	60	80	60	178			
40040-11	40.0	40	60	80	70	188			

鑽深：2倍直徑
Drilling depth:2Diameter





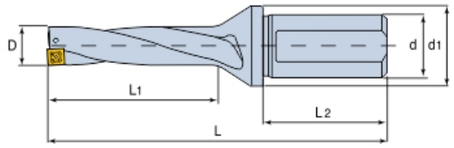
訂貨型號 Order Code	ØD	Ød	Ød1	L1	L2	L	刀片 Insert	螺釘 Screw	扳手 Wrench
SPT2D 41040-11	41.0	40	60	82	70	191	SPMG110408	CSTB4	T15
42040-14	42.0	40	60	84	70	193	SPMG140512	CSTB5	T20
43040-14	43.0	40	60	86	70	196			
44040-14	44.0	40	60	88	70	198			
45040-14	45.0	40	60	90	70	202			
46040-14	46.0	40	60	92	70	205			
47040-14	47.0	40	60	94	70	207			
48040-14	48.0	40	60	96	70	210			
49040-14	49.0	40	60	98	70	212			
50040-14	50.0	40	60	100	70	215			

★ 受力均衡設計保證了穩定、高精度的孔加工
Balanced design enables stable and precise drilling.

★ 可進行鑽、擴、鏜孔等多種加工
Used for a variety of machining applications,such as hole widening and spot facing and drilling.

鑽深：3倍直徑
Drilling depth:3Diameter



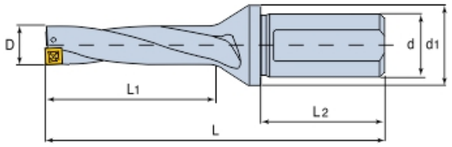


訂貨型號 Order Code		ØD	Ød	Ød1	L1	L2	L	刀片 Insert	螺釘 Screw	扳手 Wrench
SPT3D	12520-05	12.5	20	25	39	50	107	SPMG050204	CSTB2.0	T6
	13020-05	13.0	20	25	39	50	107			
	13520-05	13.5	20	25	42	50	110			
	14020-05	14.0	20	25	42	50	110			
	14520-05	14.5	20	25	45	50	114			
	15025-05	15.0	25	25	45	50	114			
	15525-06	15.5	25	32	48	56	124	SPMG060204	CSTB2.2	T7
	16025-06	16.0	25	32	48	56	124			
	16525-06	16.5	25	32	51	56	127			
	17025-06	17.0	25	32	51	56	127			
	17525-06	17.5	25	32	54	56	131			
	18025-06	18.0	25	32	54	56	131			
	18525-06	18.5	25	32	57	56	134			
	19025-06	19.0	25	32	57	56	134			
	19525-06	19.5	25	32	60	56	139			
	20025-06	20.0	25	32	60	56	139			
	20525-06	20.5	25	32	63	56	142			
	21025-06	21.0	25	32	63	56	142			
	21525-06	21.5	25	32	66	56	145			
	22025-07	22.0	25	32	66	56	145	SPMG07T308	CSTB2.5	T8
	22525-07	22.5	25	45	69	56	150			
	22532-07	22.5	32	45	69	60	154			
	23025-07	23.0	25	45	69	56	150			
	23032-07	23.0	32	45	69	60	154			
	23525-07	23.5	25	45	72	56	154			
	23532-07	23.5	32	45	72	60	158			
	24025-07	24.0	25	45	72	56	154			
	24032-07	24.0	32	45	72	60	158			
	24525-07	24.5	25	45	75	56	158			
	24532-07	24.5	32	45	75	60	162			
	25025-07	25.0	25	45	75	56	158			
	25032-07	25.0	32	45	75	60	162			
	25525-07	25.5	25	45	78	56	161			
	25532-07	25.5	32	45	78	60	165			
	26025-07	26.0	25	45	78	56	161			
	26032-07	26.0	32	45	78	60	165			
	26525-07	26.5	25	45	81	56	164			
	26532-07	26.5	32	45	81	60	168			
	27025-07	27.0	25	45	81	56	164			

SPT 捨棄式快速鑽頭
SPT HIGH SPEED CUTTING TOOLS
Evermore®
捨棄式快速鑽頭 Cutting Tools

鑽深：3倍直徑
Drilling depth:3Diameter

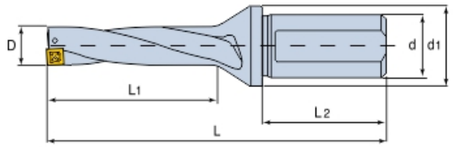




訂貨型號 Order Code		ØD	Ød	Ød1	L1	L2	L	刀片 Insert	螺釘 Screw	扳手 Wrench
SPT3D	27032-07	27.0	32	45	81	60	168	SPMG07T308	CSTB2.5	T8
	27525-07	27.5	25	45	84	56	168			
	27532-07	27.5	32	45	84	60	172			
	28025-09	28.0	25	45	84	56	168	SPMG090408	CSTB3.5	T15
	28032-09	28.0	32	45	84	60	172			
	28525-09	28.5	25	45	87	56	171			
	28532-09	28.5	32	45	87	56	171			
	29025-09	29.0	25	45	87	56	171			
	29032-09	29.0	32	45	87	60	175			
	29532-09	29.5	32	55	90	60	181			
	29540-09	29.5	40	55	90	70	191			
	30032-09	30.0	32	55	90	60	181			
	30040-09	30.0	40	55	90	70	191			
	30532-09	30.5	32	55	93	60	185			
	30540-09	30.5	40	55	93	70	195			
	31032-09	31.0	32	55	93	60	185			
	31040-09	31.0	40	55	93	70	195			
	31532-09	31.5	32	55	96	60	188			
	31540-09	31.5	40	55	96	70	198			
	32032-09	32.0	32	55	96	60	188			
	32040-09	32.0	40	55	96	70	198			
	32532-09	32.5	32	55	99	60	192			
	32540-09	32.5	40	55	99	70	202			
	33032-09	33.0	32	55	99	60	192			
	33040-09	33.0	40	55	99	70	202			
	34032-11	34.0	32	55	102	60	195	SPMG110408	CSTB4	T15
	34040-11	34.0	40	55	102	70	205			
	35032-11	35.0	32	55	105	60	199			
	35040-11	35.0	40	55	105	70	209			
	36032-11	36.0	32	55	108	60	203			
	36040-11	36.0	40	55	108	70	213			
	37032-11	37.0	32	55	111	60	207			
	37040-11	37.0	40	55	111	70	217			
	38032-11	38.0	32	55	114	60	211			
	38040-11	38.0	40	55	114	70	221			
	39032-11	39.0	32	55	117	60	214			
	39040-11	39.0	40	55	117	70	224			
	40032-11	40.0	32	60	120	60	218			
	40040-11	40.0	40	60	120	70	228			

鑽深：3倍直徑
Drilling depth:3Diameter





訂貨型號 Order Code		ØD	Ød	Ød1	L1	L2	L	刀片 Insert	螺釘 Screw	扳手 Wrench
SPT3D	41040-11	41.0	40	60	123	70	232	SPMG110408	CSTB4	T15
	42040-14	42.0	40	60	126	70	235	SPMG140512	CSTB5	T20
	43040-14	43.0	40	60	129	70	239			
	44040-14	44.0	40	60	132	70	242			
	45040-14	45.0	40	60	135	70	247			
	46040-14	46.0	40	60	138	70	251			
	47040-14	47.0	40	60	141	70	254			
	48040-14	48.0	40	60	144	70	258			
	49040-14	49.0	40	60	147	70	261			
	50040-14	50.0	40	60	150	70	265			

SPT 捨棄式快速鑽頭
SPT HIGH SPEED CUTTING TOOLS
Evermore®

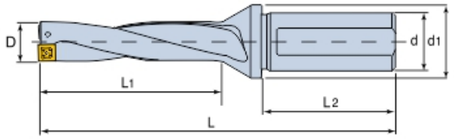
捨棄式快速鑽頭 Cutting Tools

★ 受力均衡設計保證了穩定、高精度的孔加工
Balanced design enables stable and precise drilling.

★ 可進行鑽、擴、鏜孔等多種加工
Used for a variety of machining applications,such as hole widening and spot facing and drilling.

鑽深：4倍直徑
Drilling depth:4Diameter

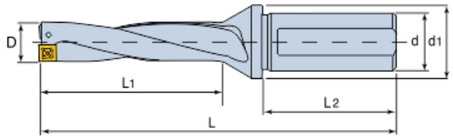




訂貨型號 Order Code		ØD	Ød	Ød1	L1	L2	L	刀片 Insert	螺釘 Screw	扳手 Wrench
SPT4D	12520-05	12.5	20	25	52	50	120	SPMG050204	CSTB2.0	T6
	13020-05	13.0	20	25	52	50	120			
	13520-05	13.5	20	25	56	50	124			
	14020-05	14.0	20	25	56	50	124			
	14520-05	14.5	20	25	60	50	129			
	15020-05	15.0	20	25	60	50	129			
	15525-06	15.5	25	32	64	56	140	SPMG060204	CSTB2.2	T7
	16025-06	16.0	25	32	64	56	140			
	16525-06	16.5	25	32	68	56	144			
	17025-06	17.0	25	32	68	56	144			
	17525-06	17.5	25	32	72	56	149			
	18025-06	18.0	25	32	72	56	149			
	18525-06	18.5	25	32	76	56	153			
	19025-06	19.0	25	32	76	56	153			
	19525-06	19.5	25	32	80	56	159			
	20025-06	20.0	25	32	80	56	159			
	20525-06	20.5	25	32	84	56	163			
	21025-06	21.0	25	32	84	56	163			
	21525-06	21.5	25	32	88	56	167			
	22025-07	22.0	25	32	88	56	167	SPMG07T308	CSTB2.5	T8
	22525-07	22.5	25	45	92	56	173			
	22532-07	22.5	32	45	92	60	177			
	23025-07	23.0	25	45	92	56	173			
	23032-07	23.0	32	45	92	60	177			
	23525-07	23.5	25	45	96	56	178			
	23532-07	23.5	32	45	96	60	182			
	24025-07	24.0	25	45	96	56	178			
	24032-07	24.0	32	45	96	60	182			
	24525-07	24.5	25	45	100	56	183			
	24532-07	24.5	32	45	100	60	187			
	25025-07	25.0	25	45	100	56	183			
	25032-07	25.0	32	45	100	60	187			
	25525-07	25.5	25	45	104	56	187			
	25532-07	25.5	32	45	104	60	191			
	26025-07	26.0	25	45	104	56	187			
	26032-07	26.0	32	45	104	60	191			
	26525-07	26.5	25	45	108	56	191			
	26532-07	26.5	32	45	108	60	195			
	27025-07	27.0	25	45	108	56	191			

鑽深：4倍直徑
Drilling depth:4Diameter



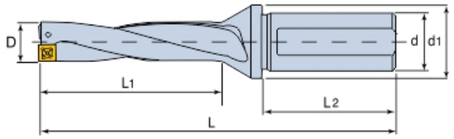


訂貨型號 Order Code		ØD	Ød	Ød1	L1	L2	L	刀片 Insert	螺釘 Screw	扳手 Wrench
SPT4D	27032-07	27.0	32	45	108	60	195	SPMG07T308	CSTB2.5	T8
	27525-07	27.5	25	45	112	56	196			
	27532-07	27.5	32	45	112	60	200			
	28025-09	28.0	25	45	112	56	196	SPMG090408	CSTB3.5	T15
	28032-09	28.0	32	45	112	60	200			
	28525-09	28.5	25	45	116	56	200			
	28532-09	28.5	32	45	116	56	204			
	29025-09	29.0	25	45	116	56	200			
	29032-09	29.0	32	45	116	60	204			
	29532-09	29.5	32	55	120	60	211			
	29540-09	29.5	40	55	120	70	221			
	30032-09	30.0	32	55	120	60	211			
	30040-09	30.0	40	55	120	70	221			
	30532-09	30.5	32	55	124	60	216			
	30540-09	30.5	40	55	124	70	226			
	31032-09	31.0	32	55	124	60	216			
	31040-09	31.0	40	55	124	70	226			
	31532-09	31.5	32	55	128	60	220			
	31540-09	31.5	40	55	128	70	230			
	32032-09	32.0	32	55	128	60	220			
	32040-09	32.0	40	55	128	70	230			
	32532-09	32.5	32	55	132	60	225			
	32540-09	32.5	40	55	132	70	235			
	33032-09	33.0	32	55	132	60	225			
	33040-09	33.0	40	55	132	70	235			
	34032-11	34.0	32	55	136	60	229	SPMG110408	CSTB4	T15
	34040-11	34.0	40	55	136	70	239			
	35032-11	35.0	32	55	140	60	234			
	35040-11	35.0	40	55	140	70	244			
	36032-11	36.0	32	55	144	60	239			
	36040-11	36.0	40	55	144	70	249			
	37032-11	37.0	32	55	148	60	244			
	37040-11	37.0	40	55	148	70	254			
	38032-11	38.0	32	55	152	60	249			
	38040-11	38.0	40	55	152	70	259			
	39032-11	39.0	32	55	156	60	253			
	39040-11	39.0	40	55	156	70	263			
	40032-11	40.0	32	60	160	60	258			
	40040-11	40.0	40	60	160	70	268			

SPT 捨棄式快速鑽頭
SPT HIGH SPEED CUTTING TOOLS
Evermore®
捨棄式快速鑽頭 Cutting Tools

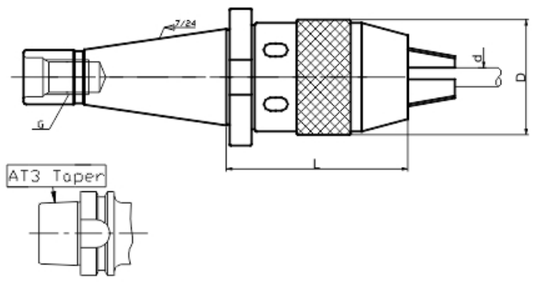
鑽深：4倍直徑
Drilling depth:4Diameter





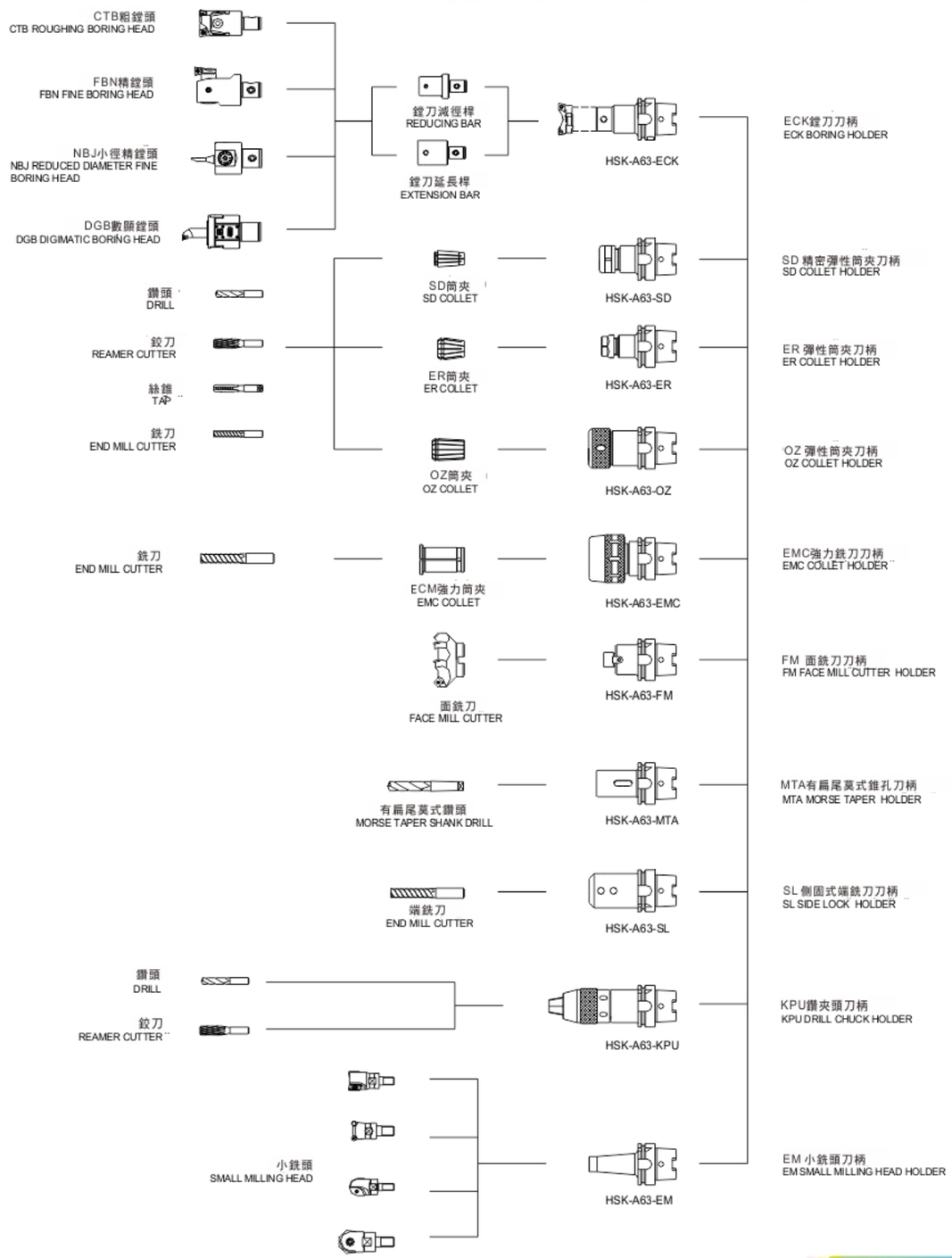
訂貨型號 Order Code		ØD	Ød	Ød1	L1	L2	L	刀片 Insert	螺釘 Screw	扳手 Wrench
SPT4D	41040-11	41.0	40	60	164	70	273	SPMG110408	CSTB4	T15
	42040-14	42.0	40	60	168	70	277	SPMG140512	CSTB5	T20
	43040-14	43.0	40	60	172	70	282			
	44040-14	44.0	40	60	176	70	286			
	45040-14	45.0	40	60	180	70	292			
	46040-14	46.0	40	60	184	70	297			
	47040-14	47.0	40	60	188	70	301			
	48040-14	48.0	40	60	192	70	306			
	49040-14	49.0	40	60	196	70	310			
	50040-14	50.0	40	60	200	70	315			





訂貨型號 Order Code	L	ØD	夾持能力ød Clamping range	G（英制）	重量(Kg) Weight
NT30–KPU08	70	36	0.5–8	1/2″ –12UNC	0.7
–KPU13	85.5	50	0.5–13		1.2
NT40–KPU08	70	36	0.5–8	5/8″ –11UNC	1.1
–KPU13	85	50	0.5–13		1.6
–KPU16	105	57	3–16		2.3
NT50–KPU13	95	50	0.5–13	1 " –8UNC	3.9
–KPU16	100	57	3–16		4.2

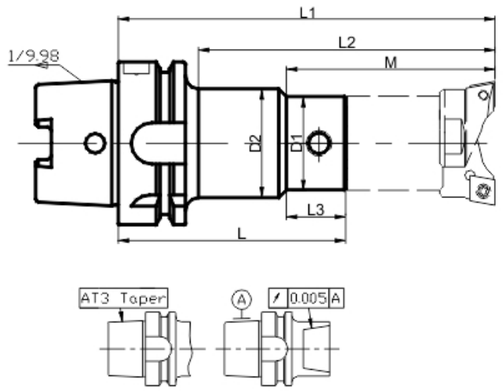
適用DIN69893–HSK–A63系統
DESIGNED FOR DIN69893–HSK–A63 SYSTEM



ECK 鏜刀刀柄 - HSK柄
ECK BORING HOLDERS - HSK SHANK

Evermore®





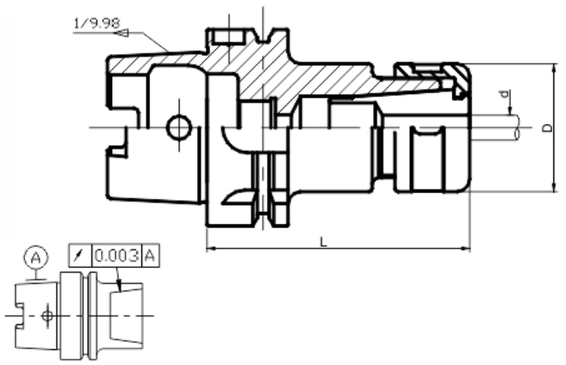
訂貨型號 Order Code	ØD1	ØD2	M	L	L1	L2	L3	重量(Kg) Weight
HSK–A63–ECK1–100	23	36	100	100	140	109	60	0.8
–ECK2–100	29	——	114	100	145	114	——	1.0
–125		40	121	125	170	139	76	1.2
–ECK3–100	37		128	100	155	128		1.2
–125			149	125	180	149		1.4
–ECK4–100	48	——	129	100	160	129	——	1.5
–125			153	125	185	153		1.8
–ECK5–100	60		144	100	175	144		1.7
–125			169	125	200	169		2.2
HSK–A100–ECK1–125	23	36	100	125	165	131	60	2.3
–ECK2–125	29	40	121	125	170	136	76	2.5
–150			121	150	195	161		2.7
–ECK3–100	37		121	100	155	121		2.5
–125			146	125	180	146		2.7
–150			171	150	205	171		2.9
–ECK4–100	48		126	100	210	126		2.8
–150		——	176	150	210	176	——	3.4
–200			226	200	260	226		4.1
–ECK5–150	60		191	150	225	191		4.2
–200			241	200	275	241		5.3
–250			291	250	325	291		6.5
–ECK6–150	80		206	150	240	206		5.7
–200			256	200	290	256		6.8
–250			306	250	340	306		8.1

★以上所有規格鏜刀刀柄均不含鏜刀頭及冷卻水管，如有需要請另外訂購。
The above model boring holders do not include boring head and coolant pipe,please order them separately if necessary..

SD 精密彈性筒夾刀柄 - HSK柄
SD COLLET HOLDER - HSK SHANK(DIN69893A)

Evermore®





訂貨型號 Order Code	L	ØD	夾持範圍 Ød Clamping range	重量(Kg) Weight
HSK–A32–SD10–60	60	29	1.75~10	0.25
–90	90			0.3
HSK–E32–SD06–50	50	20	1.75~6	0.2
–SD10–60	60	29	1.75~10	0.25
HSK–A40–SD10–90	90			0.5
HSK–E40–SD06–60	60	20	1.75~6	0.3
–SD10–80	80	29	1.75~10	0.5
HSK–A50–SD10–90	90			0.7
HSK–E50–SD06–60	60	20	1.75~6	0.5
–SD10–80	80	29	1.75~10	0.7
–SD16–80	80	41	2.75~16	0.9
HSK–A63–SD06–100	100	20	1.75~6	0.8
–150	150			1.0
–SD10– 80	80	29	1.75~10	0.9
–100	100			1.0
–150	150			1.3
–SD16– 80	80	41	2.75~16	1.1
–100	100			1.2
–150	150			1.7
–SD20– 100	100	50	4~20	1.3
–150	150			2.0
SD25–100	100	55	6~25	1.6
–150	150			2.2
HSK–A100–SD06–100	100	20	1.75~6	2.1
–150	150			2.3
–SD10–100	100	29	1.75~10	2.3
–150	150			2.6
SD16–100	100	41	2.75~16	2.5
–150	150			3.0
–SD20–100	100	50	4~20	2.6
–150	150			3.3
–SD25–100	100	55	6~25	2.9
–150	150			3.7
標準平衡等級：16000rpm/G6.3。如有特別要求，平衡等級可達：24000rpm/G2.5 Standard balance:16000rpm/G6.3 Optional balance:24000rpm/G2.5				

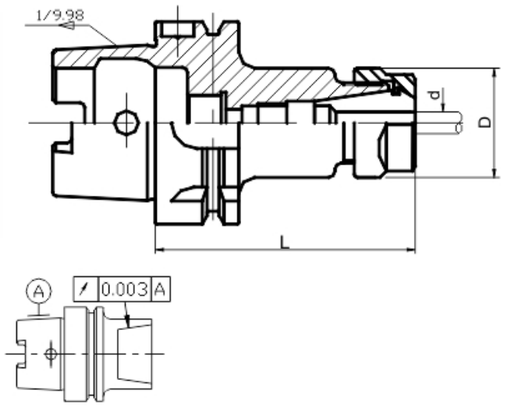
★以上規格均不含筒夾及冷卻水管，如有需要請另外訂購。
★The above model do not include collet and coolant pipe,please order them separately if necessary.

SD螺母 SD NUT P291 SD筒夾 SD COLLET P290 扳手 SPANNER P291 冷却水管 COOLANT PIPE P298

ER 彈性筒夾刀柄 - HSK柄
ER COLLET HOLDERS - HSK SHANK(DIN69893A)

Evermore®





訂貨型號 Order Code	L	ØD	夾持範圍 ød Clamping range	重量(Kg) Weight
HSK-E32-ER11-50M	50	17.5	2.5~7	0.2
-ER16-50M	50	22	2.0~10	0.3
HSK-E40-ER16-60	60	30	2.0~10	0.5
-ER20-80	80	34	2.0~13	0.6
HSK-E50-ER16-60	60	30	2.0~10	0.7
-ER20-80	80	34	2.0~13	0.8
-ER25-80	80	42	2.0~16	1.0
HSK-A63-ER16-100	100	30	2.0~10	1.0
-150	150			1.2
-ER20-100	100	34	2.0~13	1.1
-150	150			1.4
-ER25-100	100	42	2.0~16	1.2
-150	150			1.7
-ER32-100	100	50	2.0~20	1.4
-150	150			2.0
-ER40-100	100	63	3.0~26	1.5
-150	150			2.2
HSK-A100-ER16-100	100	30	2.0~10	2.3
-150	150			2.5
-ER20-100	100	34	2.0~13	2.4
-150	150			2.7
-ER25-100	100	42	2.0~16	2.6
-150	150			3.1
-ER32-100	100	50	2.0~20	2.7
-150	150			3.4
-ER40-100	100	63	3.0~26	3.1
-150	150			4.2

標準平衡等級：16000rpm/G6.3。如有特別要求，平衡等級可達：24000rpm/G2.5
Standard balance:16000rpm/G6.3 Optional balance:24000rpm/G2.5

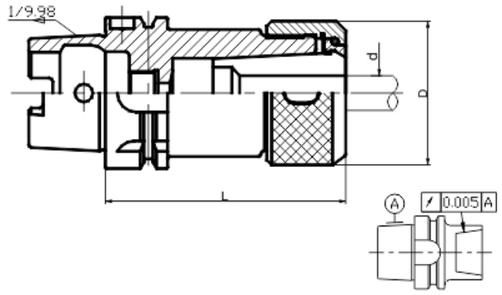
★以上所有規格鏜刀刀柄均不含鏜刀頭及冷卻水管，如有需要請另外訂購。
The above model boring holders do not include boring head and coolant pipe,please order them separately if necessary..

ER螺母 ER NUT P295 | ER筒夾 ER COLLET P294 | 扳手 SPANNER P295 | 冷却水管 COOLANT PIPE P298

OZ 彈性筒夾刀柄 - HSK柄
OZ COLLET HOLDER - HSK SHANK(DIN69893A)

Evermore®





訂貨型號 Order Code	L	ØD	夾持範圍 ød Clamping range	重量(Kg) Weight
HSK-A63-OZ25-100	100	60	6~25	1.6
-OZ32-120	120	78	6~32	2.3
HSK-A100-OZ25-100	100	60	6~25	2.9
-OZ32-120	120	78	6~32	3.6

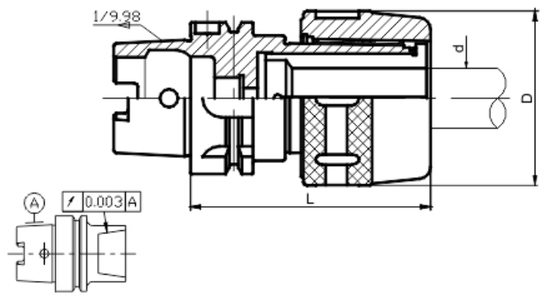
標準平衡等級：16000rpm/G6.3。
Standard balance:16000rpm/G6.3

★以上所有規格鏜刀刀柄均不含鏜刀頭及冷卻水管，如有需要請另外訂購。
The above model boring holders do not include boring head and coolant pipe,please order them separately if necessary..

OZ螺母 OZ NUT P297 | OZ筒夾 OZ COLLET P296 | 扳手 SPANNER P297 | 冷却水管 COOLANT PIPE P298

EMC 強力銑刀刀柄 - HSK柄
EMC POWERFUL MILLING HOLDER - HSK SHANK(DIN69893A)





訂貨型號 Order Code	L	ØD	夾持範圍 ød Clamping range	重量(Kg) Weight
HSK-A63-EMC32-100	100	73.5	6-32	2.1
HSK-A100-EMC32-110	110	73.5	6-32	3.4

標準平衡等級：16000rpm/G6.3。
Standard balance:16000rpm/G6.3

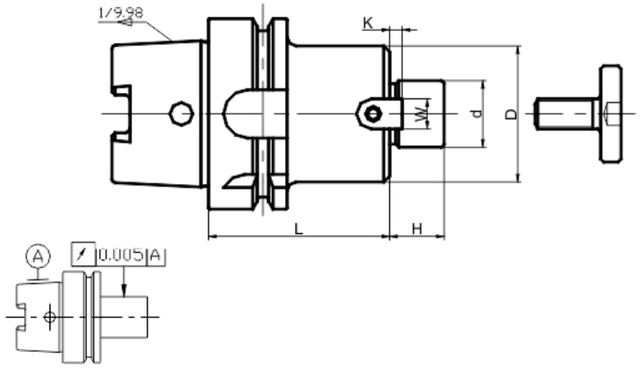
★單獨訂購均不帶筒夾及扳手，如有需要請另外訂購，也可訂購套裝產品（附帶筒夾7個及扳手1把）。
Single order does not include collet and spanner,please order them separately if necessary.Tool can be ordered whole set.(contain 7PCS collets and 1PCS spanner)

EMC筒夾 EMC COLLET P292 | 扳手 SPANNER P292

FMA 面銑刀柄 - HSK柄
FMA FACE MILL CUTTER HOLDERS - HSK SHANK(DIN69893A)

Evermore®





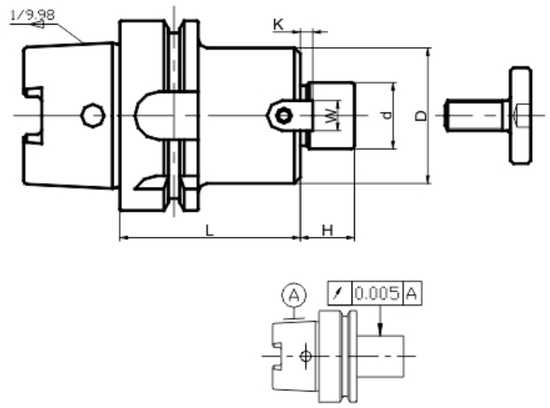
訂貨型號 Order Code	L	⌀d(h6)	⌀D	H	K	W	重量(Kg) Weight
HSK–A63–FMA25.4–60	60	25.4	50	20	5	9.5	1.4
–120	120						2.4
–FMA31.75–60	60	31.75	60	22	7	12.7	1.6
–120	120						2.6
–FMA38.1–60	60	38.1	80	25	9	15.9	2.0
–120	120						3.0
HSK–A100–FMA25.4–60	50	25.4	50	20	5	9.5	2.7
–120	120						3.7
–FMA31.75–60	60	31.75	60	22	7	12.7	2.9
–120	120						3.9
–FMA38.1–60	60	38.1	80	25	9	15.9	3.3
–120	120						4.3
–FMA50.8–60	60	50.8	100	28	12		4.1
–120	120						5.6

標準平衡等級：16000rpm/G6.3。
Standard balance:16000rpm/G6.3

FMB(C) 面銑刀柄 - HSK柄
FMB(C) FACE MILL CUTTER HOLDER - HSK SHANK(DIN69893A)

Evermore®





註：B型使用大頭鎖緊螺絲，C型使用小頭鎖緊螺絲。
B model use big clamping screw,C model use small clamping screw.

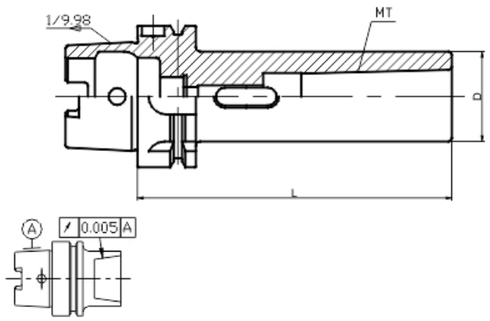
訂貨型號 Order Code	L	⌀d(h6)	⌀D	H	K	W	重量(Kg) Weight
HSK–A63–FMB (C) 22–50	50	22	48	18	5	10	1.1
–120	120						2.1
–FMB (C) 27–60	60	27	60	20	6	12	1.5
–120	120						2.8
–FMB (C) 32–60	60	32	72	22	7	14	1.8
–120	120						3.8
–FMB (C) 40–60	60	40	80	25	8	16	2.1
–120	120						3.2
HSK–A100–FMB (C) 22–50	50	22	48	18	5	10	2.5
–120	120						3.4
–FMB (C) 27–60	60	27	60	20	6	12	2.9
–120	120						4.3
–FMB (C) 32–60	60	32	72	22	7	14	3.4
–120	120						5.3
–FMB 40–60	60	40	80	25	8	16	3.6
–120	120						6.0

標準平衡等級：16000rpm/G6.3。如有特別要求，平衡等級可達：24000rpm/G2.5
Standard balance:16000rpm/G6.3 Optional balance:24000rpm/G2.5

MTA 有扁尾莫氏錐孔刀柄 - HSK柄
MTA MORSE TAPER HOLDERS - HSK SHANK(DIN69893A)

Evermore®





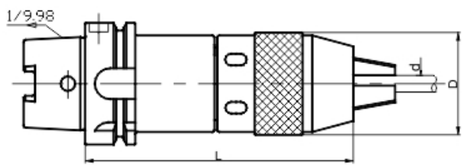
訂貨型號 Order Code	莫氏錐號 MT NO .	L	ØD	重量(Kg) Weight
HSK–A63–MTA1–100	1	100	25	0.9
–MTA2–120	2	120	35	1.2
–MTA3–140	3	140	40	1.5
–MTA4–160	4	160	50	2.0
HSK–A100–MTA1–110	1	110	25	2.2
–MTA2–120	2	120	35	2.5
–MTA3–150	3	150	40	2.9
–MTA4–170	4	170	50	3.5
–MTA5–200	5	200	65	5.3

★ 以上規格不含冷卻水管，如有需要請另外訂購。
The above model do not include coolant pipe,please order them separately if necessary.

冷却水管 COOLANT PIPE P298

KPU 鑽夾頭刀柄 - HSK柄
KPU DRILL CHUCK HOLDERS - HSK SHANK(DIN69893A)



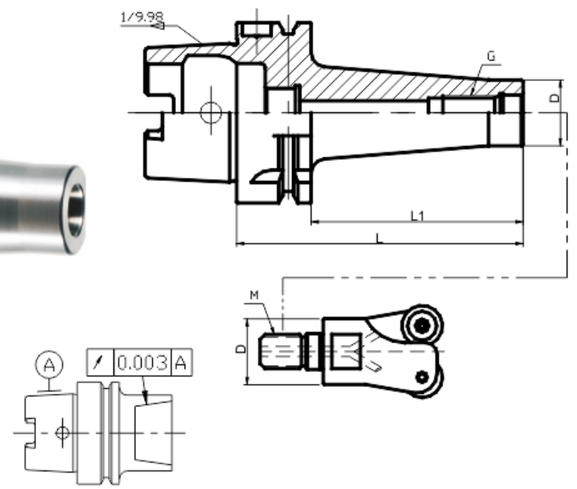


訂貨型號 Order Code	L	ØD	夾持範圍 ød Clamping range	重量(Kg) Weight
HSK–A63–KPU13	135	45	0.5~13	2.1
HSK–A100–KPU13	140	45	0.5~13	3.5

EM 小銑頭刀柄 - HSK柄
EM SMALL MILLING HEAD HOLDER - HSK SHANK(DIN69893A)

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訂貨型號 Order Code	L	L1	ØD	G	重量(Kg) Weight
HSK–A63–EM08–100	100	74	13.8	M8	0.7
–150	150	124			0.8
–EM10–100	100	74	18.5	M10	0.8
–150	150	124			0.9
–EM12–100	100	74	23	M12	0.9
–150	150	124			1.1
–EM16–100	100	74	30	M16	1.0
–150	150	124			1.3
HSK–A100–EM08–100	100	71	13.8	M8	2.0
–150	150	121			2.1
–EM10–100	100	71	18.5	M10	2.1
–150	150	121			2.2
–EM12–100	100	71	23	M12	2.2
150	150	121			2.4
–EM16–100	100	71	30	M16	2.3
–150	150	121			2.6
標準平衡等級：16000rpm/G6.3。如有特別要求，平衡等級可達：24000rpm/G2.5 Standard balance:16000rpm/G6.3 Optional balance:24000rpm/G2.5					

★ 以上規格均不含小銑頭及冷卻水管，如有需要請另外訂購。
The above model do not include small milling head and coolant pipe,please order them separately if necessary..

小銑頭 SMALL MILLING CUTTER P81
冷却水管 COOLANT PIPE P298

SL 側固式端銑刀柄 - HSK柄
SL SIDE LOCK HOLDERS - HSK SHANK(DIN69893A)

Evermore®



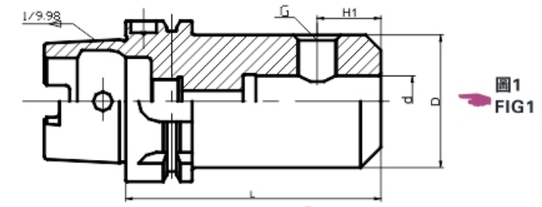


圖1
FIG1

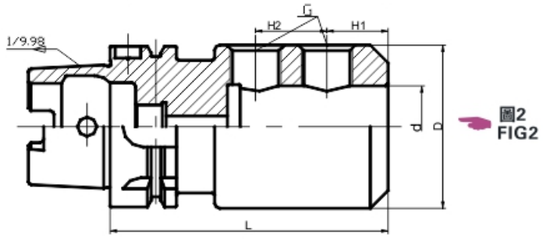
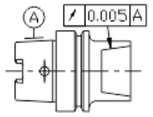


圖2
FIG2



訂貨型號 Order Code	圖號 FIG	L	ød	ØD	H1	H2	G	重量(Kg) Weight
HSK–A63–SL06–80		80	6	25	18		M6 × 0.75	0.8
–SL08–80		80	8	28	18		M8 × 1.0	0.9
–SL10–80		80	10	35	20		M10 × 1.0	1.0
–SL12–90	1	90	12	42	22.5		M12 × 1.5	1.2
SL14–90		90	14	45	23	——		1.3
–SL16–100		100	16	48	24		M14 × 1.5	1.5
–SL18–100		100	18	50				1.6
–SL20–100		100	20	52	25		M16 × 1.5	1.7
–SL25–110	2	110	25	62	24	25	M18 × 2.0	2.2
–SL32–110		110	32	63		28	M20 × 2.0	2.1
HSK–A100–SL10– 80		80	10	35	20		M10 × 1.0	2.4
–SL12– 90	1	90	12	42	22.5	——	M12 × 1.5	2.6
–SL16–100		100	16	48	24		M14 × 1.5	2.9
–SL20–100		100	20	52	25		M16 × 1.5	3.0
–SL25–110	2	110	25	64	24	25	M18 × 2.0	3.6
–SL32–110		110	32	72		28	M20 × 2.0	4.1
–SL40–120		120	40	80	30	32		4.7

標準平衡等級：16000rpm/G6.3。
Standard balance:16000rpm/G6.3

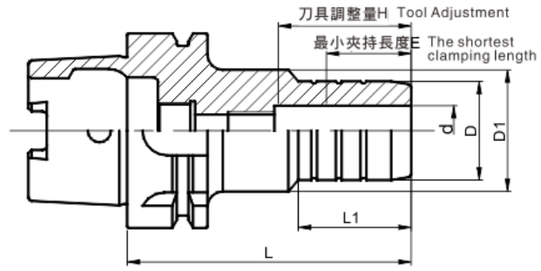
★ 以上規格均不含冷卻水管，如有需要請另外訂購。
The above model do not include coolant pipe,please order them separately if necessary.

冷却水管 COOLANT PIPE P298

HDC 油壓刀柄 - HSK柄
HDC HYDRAULIC HOLDERS - HSK SHANK(DIN69893A)

Evermore®





訂貨型號 Order Code	ød	ØD	ØD1	L	L1	刀具調整量 Tool Adjustment	最小夾持長度 The shortest clamping length	重量(Kg) Weight
HSK–A63–HDC06–70*	6	26	45	70	24	46	28	1.0
–120				120	44	28–48		1.2
–HDC08–70*	8	28		70	24	46		1.1
–120				120	44	28–48		1.3
–HDC10–80*	10	30		80	35	55	33	1.3
–120				120	45	33–53		1.5
–HDC12–85*	12	32	48	85	40	60	38	1.5
–120				120	45	38–58		1.8
–HDC16–90*	16	38	50	90	46	65	43	1.6
–120				120		58–68		1.9
–HDC20–90*	20	42	55	90	48	65		1.7
–120				120		58–68		2.0
–HDC25–120*	25	55	63	120	51	95	52	2.3
–HDC32–125*	32	60	75	125	56	100	56	2.3

標準平衡等級：16000rpm/G6.3。
Standard balance:16000rpm/G6.3

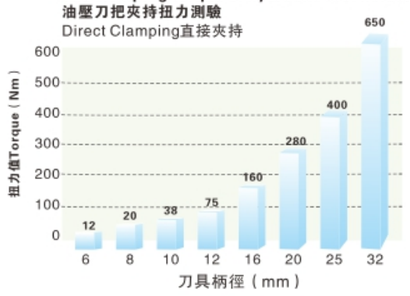
⚠注意CAUTION

- 刀具調整量H尺寸是指在使用可調螺絲情況下的調整量。
  The adjustable length of the tool is H dimension when using the setting screw.
- 標有 “*” 規格不能使用調節螺絲，此時H值爲刀具最大可插入值。
  The model marked with "*" can not use setting screw,the H dimension is the max. Clamp Length of the tool.
- 最小夾持長度不得小於表中E值，否則容易損壞刀柄。
  The Min. Clamp length can not be less than E dimension,it will break the holder.
- 禁止無刀狀態下進行空夾。
  Forbidden to clamp with no tool.
- 組裝刀具時，必須將刀具夾持面及刀柄內孔擦拭乾淨、清除油汙後，方可組裝。
  when assembly tools.the tool clamping surface and the shank inner hole must wipe clean,decontamination before It canbe assembled.

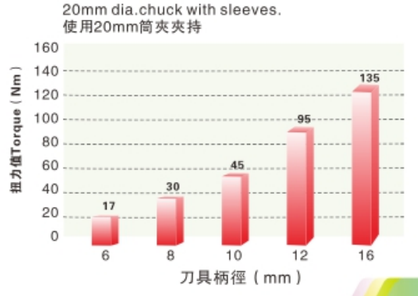
冷却水管 COOLANT PIPE P298

★ 本產品可用於中心給水冷卻，但標配不包含冷卻水管，如有需要請另外訂購。
It can be used for internal coolant,standard do not include coolant pipe,please order them separately if necessary.

The clamping torque of hydraulic tool holder/
油壓刀把夾持扭力測驗
Direct Clamping直接夾持

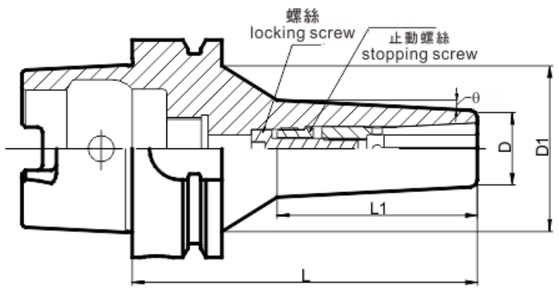


20mm dia.chuck with sleeves.
使用20mm筒夾夾持



跳動精度＜0.005mm，最高轉速可達30000rpm;G2.5，沒有螺母的內藏式夾頭設計，剛性强，穩定性高。
run-out＜0.005mm,max speed 30000rpm G2.5, non-nut and built-in collet design, it features high rigidity,stable clamping.





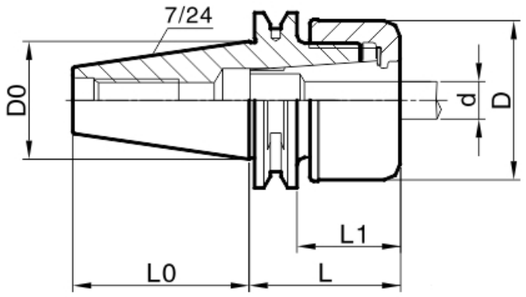
EC-E筒夾 EC-E collet P301

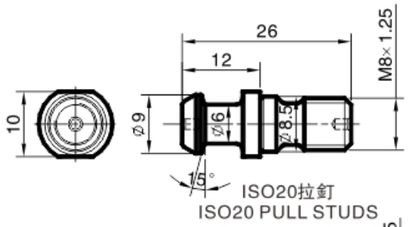
訂貨型號 Order Code	夾持範圍 Clamping range	L	L1	ØD	ØD1	θ	扳手 Spanner	螺絲 Locking screw	止動螺絲 Stopping screw	重量(Kg) Weight
HSK-A63-EC06-75	3-6	75	34	13	—	3°	M4	M5	EC-M10	0.7
-95	3-6	95	45	13	46	3°	M4	M5	EC-M10	0.8
-120	3-6	120	53	13	48	3°	M4	M5	EC-M10	1.0
-150	3-6	150	80	13	45	3°	M4	M5	EC-M10	1.2
-EC08-100	3-8	100	58	22	48	3°	M5	M6	EC-M12	1.0
-EC10-110	3-10	110	55	28	48	—	M6	M8	EC-M16	1.1
-EC12-120	3-12	120	55	34	50	—	M8	M10	EC-M18	1.2



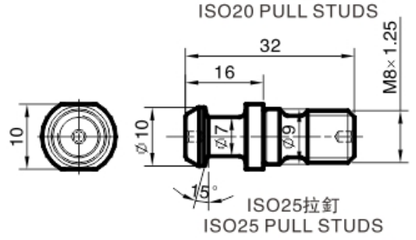
▲適用於鑽孔、銑削、雕刻加工。
▲動平衡等級：24000rpm/G2.5
▲標配含拉釘
▲扳手需另外購買

▲Suitable for drilling,milling and engraving.
▲Dynamic balance:24000rpm/G2.5
▲Standard contains pull studs.
▲Spanner is not included,please order it additionally if necessary.





ISO20拉釘
ISO20 PULL STUDS



ISO25拉釘
ISO25 PULL STUDS

訂貨型號 Order Code	夾持範圍 ød Clamping range	øD0	L0	L	L1	øD	重量 Kg Weight
ISO20-ER16-035MS	2.0-10	22.225	33.3	35	26	22	0.15
ISO20-SDP10-035	1.75-10	22.225	33.3	35	26	30	0.18
ISO25-ER16-035MS	2.0-10	25.4	39.7	35	26.2	22	0.20
ISO25-ER20-035MS	2.0-13	25.4	39.7	35	26.2	28	0.21

訂貨型號 Order Code	螺母 Nut	筒夾 Collet	扳手A(螺母用) Spanner A(Nut)	扳手B(刀柄用) Spanner B(Shank)
ISO20-ER16-035MS	CN-ER16MS	ER16	SP-ER16MS	SP-ISO20
ISO20-SDP10-035	CN-SDP10	SD10	SP-SDP10	SP-ISO20
ISO25-ER16-035MS	CN-ER16MS	ER16	SP-ER16MS	SP-ISO25
ISO25-ER20-035MS	CN-ER20MS	ER20	SP-ER20MS	SP-ISO25

直柄側鎖式ER彈性筒夾刀柄 - SL柄
SIDE LOCK STRAIGHT SHANK ER COLLET CHUCKS-SL SHANK

Evermore®



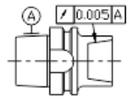


FIG 1
圖1

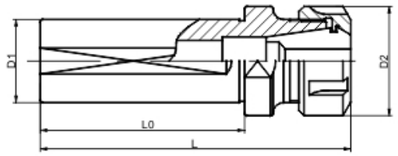


FIG 2
圖2

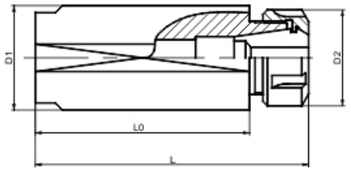
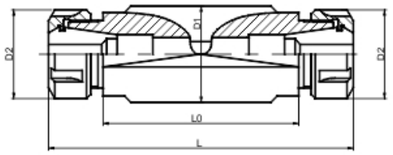


FIG 3
圖3



訂貨型號 Order Code	ØD1	ØD2	L0	L	圖號 FIG
SL16–ER11–70	16	19	70	76.5	2
–ER16–70		30	70	109.5	1
SL20–ER11–50D	20	19	52	85	3
–ER11–70		19	70	86.5	2
–ER16–70		30	70	109.5	1
–100		30	100	139.5	
–120		30	120	159.5	
–ER20–80		34	80	125.5	
–100		34	100	145.5	
–120		34	120	165.5	
SL25–ER16–50D	25	30	50	97	3
–ER16–70		30	70	93.5	2
–ER20–80		34	80	122	1
–ER25–70		42	70	122	
–80	32	42	80	132	
SL32–ER20–80		34	80	122	
–ER25–70		42	70	117	
–80		42	80	127	
–ER32–80		50	80	138	
–130		50	130	188	
–ER40–70	40	63	70	137	
SL40–ER25– 80		42	80	132	
–ER32– 80		50	80	131	
–135		50	135	193	
–ER40–80		63	80	147	

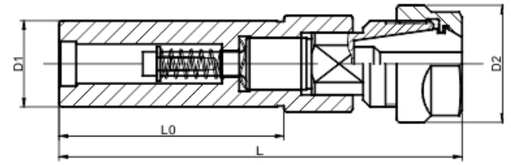
★以上規格均不含扳手及筒夾，如有需要請另外訂購。
The above model does not contain spanners and collets ,please order them additionally if necessary.

ER螺母 ER NUT P295 ER筒夾 ER COLLET P294 扳手 SPANNER P295

直柄側固式WER攻牙刀柄 - SL柄
SIDE LOCK STRAIGHT SHANK WER TAPPING HOLDERS-SL SHANK

Evermore®



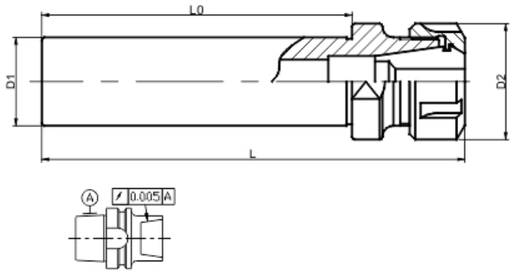


訂貨型號 Order Code	ØD1	L0	ØD2	L	筒夾型號 Collet Type
SL20–WER16–80	20	80	30	133.5	ER16
–WER20–80			34	134	ER20
SL25–WER16–80	25	80	30	133.5	ER16
–WER20–80			34	134	ER20
–WER25–80			42	148	ER25
SL32–WER20–80	32	80	34	134	ER20
–WER25–80			42	148	ER25
–WER32–80			50	149	ER 32
SL40–WER25–80	40	80	42	148	ER25
–WER32–80			50	149	ER 32
SL50–WER32–80	50	80	50	149	ER 32

★以上規格均不含扳手及筒夾，如有需要請另外訂購。
The above model does not contain spanners and collets ,please order them additionally if necessary.

ER螺母 ER NUT P295 ER筒夾 ER COLLET P294 扳手 SPANNER P295





訂貨型號 Order Code	ØD1	ØD2	L0	L
BC16–ER11–120	16	19	120	146.5
–130			130	156.5
–ER16–130		30		169.5
BC20–ER16–120	20	30	120	159.5
–180 *			180	219.5
–ER20–120		34	120	165.5
–150			150	195.5
–170 *			170	215.5
–ER25–120		42	120	172
–170 *			170	222
–ER32–100		50	100	161
BC25–ER16–130	25	30	130	169.5
–170 *			170	209.5
–ER20–130		34	130	172
–170 *			170	212
–ER25–130		42	130	182
–170 *			170	222
BC32–ER25–130	32	42	130	177
–170 *			170	217
–ER32–80		50	80	138
–130			130	188
–170 *			170	228

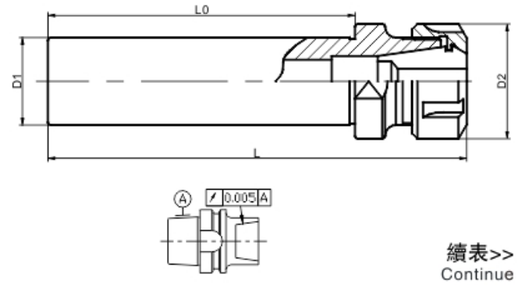
*註：當選用L＞150的產品時，不得用於橫向銑削加工，否則可能產生震刀。
When you select L>150mm model product, transverse milling is not allowed since it may cause vibration.

續表>>
Continue

★以上規格均不含扳手及筒夾，如有需要請另外訂購。
The above model does not contain spanners and collets ,please order them additionally if necessary.

ER螺母 ER NUT P295 ER筒夾 ER COLLET P294 扳手 SPANNER P295





●M型使用小徑ER螺母
The M type use small diameter ER nut

續表>>
Continue

訂貨型號 Order Code	ØD1	ØD2	L0	L
BC16–ER11–120M	16	17.5	120	146.5
–ER16–120M		23.5	120	160
BC20–ER16–100M	20	23.5	100	140
–120M			120	160
–150M			150	190
–ER20–100M		28	100	145.5
–120M			120	165.5
–150M			150	195.5
–170M *			170	215.5
BC25–ER16–120M	25	23.5	120	160
–170M *			170	210
–ER20–120M		28	120	162
–170M *			170	212
–ER25–120M		35	120	172
–170M *			170	222
–210M *			210	262

*註：當選用L＞150的產品時，不得用於橫向銑削加工，否則可能產生震刀。
When you select L>150mm model product, transverse milling is not allowed since it may cause vibration.

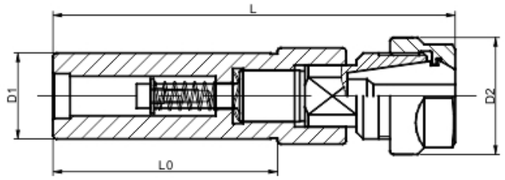
★以上規格均不含扳手及筒夾，如有需要請另外訂購。
The above model does not contain spanners and collets ,please order them additionally if necessary.

ER螺母 ER NUT P295 ER筒夾 ER COLLET P294 扳手 SPANNER P295

直柄WER攻牙刀柄 - BC柄
STRAIGHT SHANK WER TAPPING CHUCKS - BC SHANK

Evermore®





訂貨型號 Order Code	ØD1	L0	ØD2	L	筒夾型號 Collet Type
BC20–WER16–130	20	130	30	183.5	ER16
–WER20–130			34	184	ER20
BC25–WER16–130	25	130	30	183.5	ER16
–WER20–130			34	184	ER20
–WER25–130			42	198	ER25
BC32–WER25–130	32	130	42	198	ER25
–WER32–130			50	199	ER 32

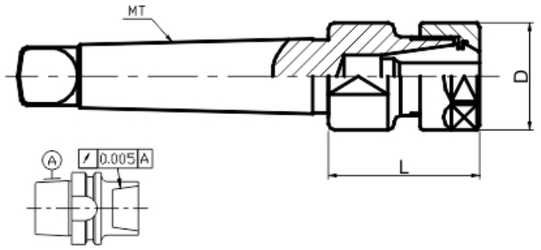
★以上規格均不含扳手及筒夾，如有需要請另外訂購。
The above model does not contain spanners and collets ,please order them additionally if necessary.

ER螺母 ER NUT P295 ER筒夾 ER COLLET P294 扳手 SPANNER P295

MTA有扁尾莫氏錐柄ER彈性筒夾刀柄 - MTA柄
MTA MORSE TAPER SHANK ER COLLET CHUCKS - MTA SHANK

Evermore®

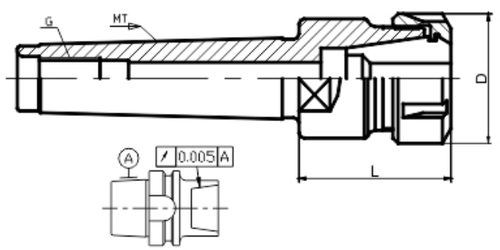




訂貨型號 Order Code	ØD	L	MT No .
MTA2–ER16–40	30	40	2
–ER25–60	42	60	
–ER32–65	50	65	
MTA3–ER20–50	34	50	3
–ER25–60	42	60	
–ER32–65	50	65	
MTA4–ER25–60	42	60	4
–ER32–65	50	65	
–ER40–70	63	70	

MTB無扁尾莫氏錐柄ER彈性筒夾刀柄 - MTB柄
MTB MORSE TAPER SHANK ER COLLET CHUCKS - MTB SHANK



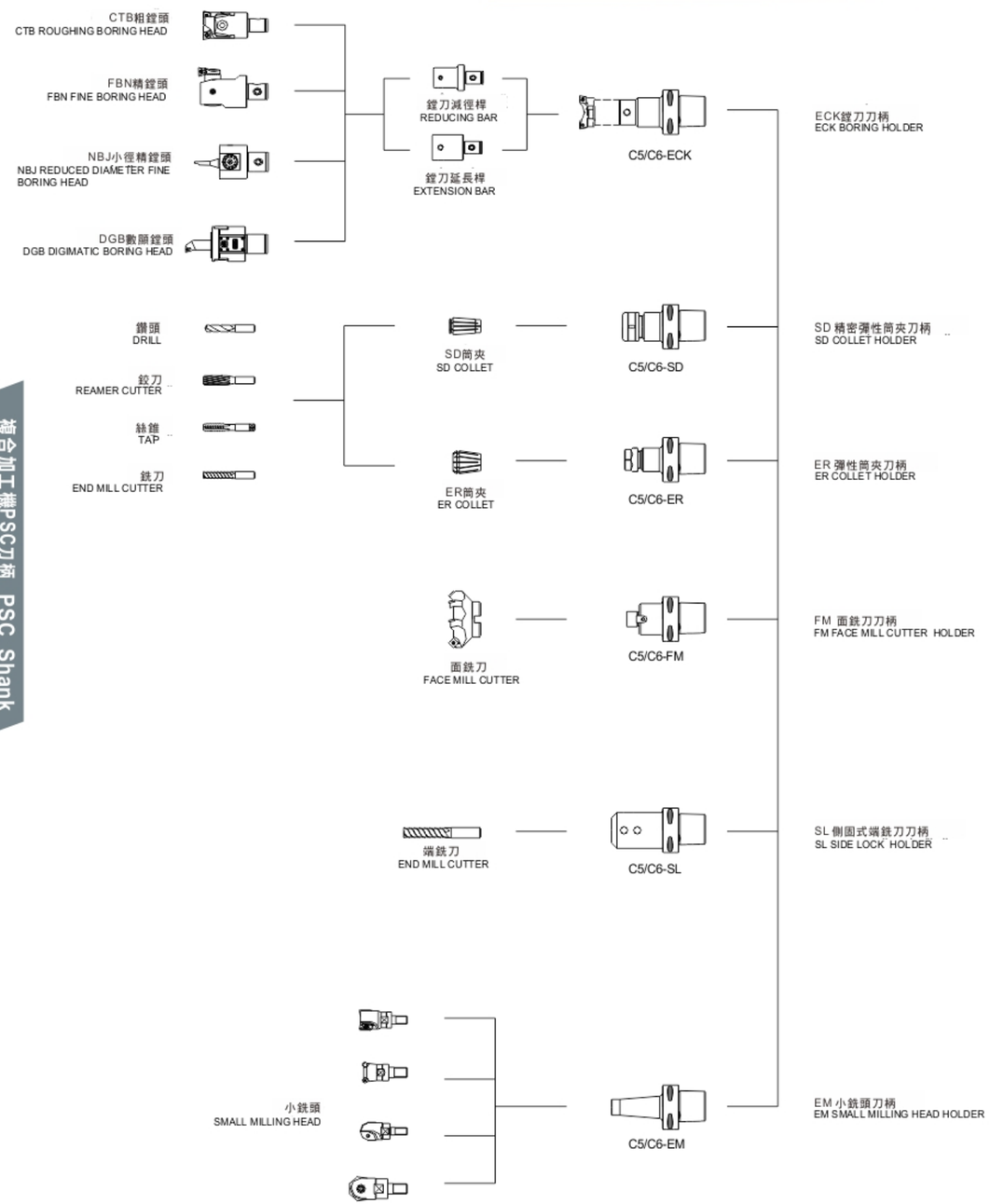


訂貨型號 Order Code	ØD	L	MT No .	G
MTB3–ER32–65	50	65	3	M12
MTB4–ER32–65	50	65	4	M16
–ER40–80	63	80		
MTB5–ER40–80	63	80	5	M20

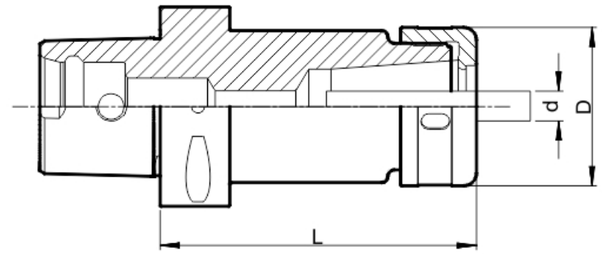
★以上規格均不含扳手及筒夾，如有需要請另外訂購。
The above model does not contain spanners and collets ,please order them additionally if necessary.

ER螺母 ER NUT P295 ER筒夾 ER COLLET P294 扳手 SPANNER P295

適用ISO26623-1 PSC系統
DESIGNED FOR ISO26623-1 PSC SYSTEM





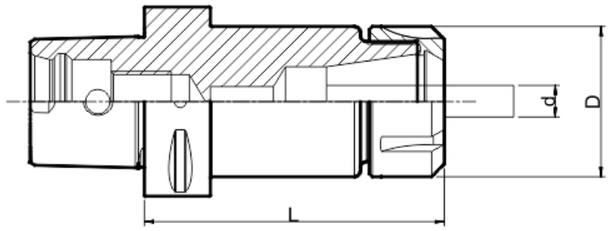


訂貨型號 Order Code	L	ØD	夾持範圍Ød Clamping range	重量(Kg) Weight
C5-SD06-100	100	20	1.75-6	0.6
-SD10-100	100	29	1.75-10	0.9
-SD16-80	80	41	2.75-16	1.1
-100	100	41	2.75-16	1.2
-SD20-100	100	50	4-20	1.3
-150	150	50	4-20	2.0
-SD25-100	100	55	6-25	1.6
-150	150	55	6-25	2.2
C6-SD06-100	100	20	1.75-6	1.0
-SD10-100	100	29	1.75-10	1.1
-SD16-80	80	41	2.75-16	1.3
-100	100	41	2.75-16	1.4
-SD20-100	100	50	4-20	1.5
-150	150	50	4-20	2.2
-SD25-100	100	55	6-25	1.8
-150	150	55	6-25	2.4

★以上規格均不含筒夾及冷卻水管，如有需要請另外訂購。
★The above model do not include collet and coolant pipe,please order them separately if necessary.

SD螺母 SD NUT P291
SD筒夾 SD COLLET P290
扳手 SPANNER P291



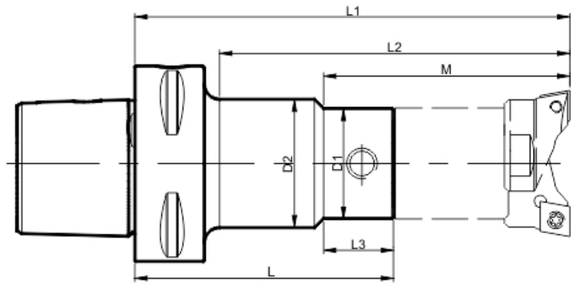


訂貨型號 Order Code	L	ØD	夾持範圍Ød Clamping range	重量(Kg) Weight
C5–ER16–100	100	30	0.5–10	1.0
–ER20–100	100	35	1.0–13	1.1
–ER25–100	100	42	1.0–16	1.4
–ER32–100	100	50	2.0–20	1.7
C6–ER16–100	100	30	0.5–10	1.3
–ER20–100	100	35	1.0–13	1.4
–ER25–100	100	42	1.0–16	1.5
–ER32–100	100	50	2.0–20	1.7
–150	150	50	2.0–20	2.4
–ER40–100	100	63	3.0–26	1.8
–150	150	63	3.0–26	2.8

★ 以上規格均不含扳手及筒夾，如有需要請另外訂購。
The above model do not include spanner and collet,please order them separately if necessary.

ER螺母 ER NUT P295
ER筒夾 ER COLLET P294
扳手 SPANNER P295





訂貨型號 Order Code	ØD1	ØD2	M	L	L1	L2	L3	重量(Kg) Weight
C5–ECK0–100	21	25	85	100	140	109	45	0.6
C5–ECK1–100	23	36	100	100	140	109	60	0.6
–ECK2–100	29	——	114	100	145	114	——	0.8
–125		40	121	125	170	139	76	1.0
–ECK3–100	37	——	128	100	155	128	——	1.0
–125			149	125	180	149		1.2
–ECK4–100	48		129	100	160	129		1.3
–125			153	125	185	153		1.6
–ECK5–100	60		144	100	175	144		1.5
–125			169	125	200	169		2.0
C6–ECK0–100	21	25	85	100	140	109	45	1.0
C6–ECK1–100	23	36	100	100	140	109	60	1.0
–ECK2–100	29	——	114	100	145	114	——	1.2
–125		40	121	125	170	139	76	1.4
–ECK3–100	37	——	128	100	155	128	——	1.4
–125			149	125	180	149		1.6
–ECK4–100	48		129	100	160	129		1.7
–125			153	125	185	153		2.0
–ECK5–100	60		144	100	175	144		1.9
–125			169	125	200	169		2.4

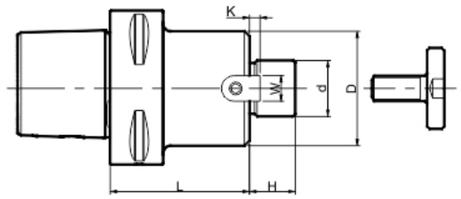
★ 以上所有規格鏜刀刀柄均不含鏜刀頭，如有需要請另外訂購。
The above model boring holders do not include boring head ,please order them separately if necessary.

鏜刀頭 BORING HEAD P1

FMA面銑刀柄 - PSC柄
FMA FACE MILL CUTTER HOLDER - PSC SHANK

Evermore®

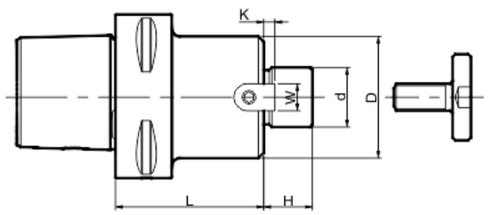




訂貨型號 Order Code	L	ød(h6)	øD	H	K	W	重量(Kg) Weight
C5–FMA25.4–50	50	25.4	50	20	5	9.5	0.9
–100	100						1.7
–FMA31.75–50	50	31.75	60	22	7	12.7	1.1
–100	100						2.2
–FMA38.1–50	50	38.1	80	25	9	15.9	1.7
–100	100						3.0
C6–FMA25.4–50	50	25.4	50	20	5	9.5	1.3
–100	100						2.1
–FMA31.75–50	50	31.75	60	22	7	12.7	1.5
–100	100						2.6
–FMA38.1–60	60	38.1	80	25	9	15.9	2.1
–120	120						3.4

FMB(C)面銑刀柄 - PSC柄
FMB(C) FACE MILL CUTTER HOLDER - PSC SHANK





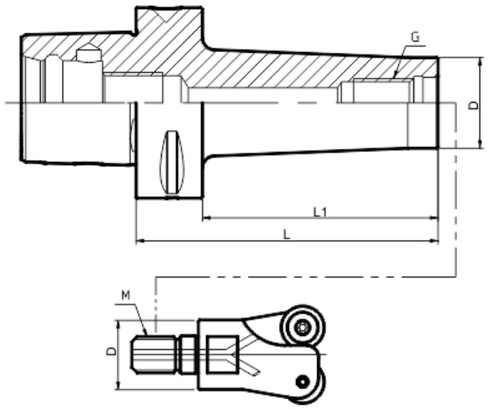
注：B型使用大頭鎖緊螺絲,C型使用小頭鎖緊螺絲。
B model use big clamping screw,C model use small clamping screw.

訂貨型號 Order Code	L	ød	øD	H	K	W	重量(Kg) Weight
C5–FMB(C)22–50	50	22	48	18	5	10	0.9
–120	120						1.4
–FMB(C)27–60	60	27	60	20	6	12	1.1
–120	120						2.2
–FMB(C)32–60	60	32	72	22	7	14	1.5
–120	120						2.9
–FMB(C)40–60	60	40	80	25	8	16	2.4
–120	120						3.7
C6–FMB(C)22–50	50	22	48	18	5	10	1.3
–100	100						1.8
–FMB(C)27–50	50	27	60	20	6	12	1.5
–100	100						2.6
–FMB(C)32–60	60	32	72	22	7	14	1.9
–120	120						3.3
–FMB 40–60	60	40	80	25	8	16	2.8
–120	120						4.1

EM小銑頭刀柄 - PSC柄
EM SMALL MILLING HEAD HOLDER - PSC SHANK

Evermore®



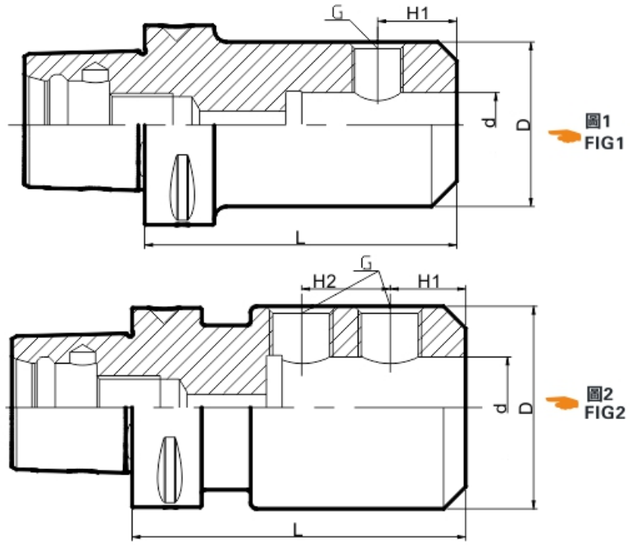


訂貨型號 Order Code	L	L1	ØD	G	重量(Kg) Weight
C5–EM08–100	100	74	13.8	M8	0.5
–150	150	124			0.6
–EM10–100	100	74	18.5	M10	0.6
–150	150	124			0.7
–EM12–100	100	74	23	M12	0.7
–150	150	124			0.9
–EM16–100	100	74	30	M16	0.8
–150	150	124			1.1
C6–EM08–100	100	74	13.8	M8	0.9
–150	150	124			1.0
–EM10–100	100	74	18.5	M10	1.0
–150	150	124			1.1
–EM12–100	100	74	23	M12	1.1
150	150	124			1.3
–EM16–100	100	74	30	M16	1.2
–150	150	124			1.5

★ 以上規格均不含小銑頭，如有需要請另外訂購。
The above model do not include small milling head ,please order them separately if necessary..

小銑頭 SMALL MILLING HEAD P81





訂貨型號 Order Code	圖號 FIG	L	ød	ØD	H1	H2	G	重量(Kg) Weight
C5–SL06–80	1	80	6	25	18	——	M6×0.75	0.6
–SL08–80		80	8	28	18		M8×1.0	0.7
–SL10–80		80	10	35	20		M10×1.0	0.8
–SL12–90		90	12	42	22.5		M12×1.5	1.0
SL14–90		90	14	45	23			1.1
–SL16–100		100	16	48	24		M14×1.5	1.3
–SL18–100		100	18	50				1.4
–SL20–100		100	20	52	25		M16×1.5	1.5
–SL25–110	2	110	25	62	24	25	M18×2.0	2.0
–SL32–110		110	32	63		28	M20×2.0	1.9
C6–SL06–80	1	80	6	25	18	——	M6×0.75	1.0
–SL08–80		80	8	28	18		M8×1.0	1.1
–SL10–80		80	10	35	20		M10×1.0	1.2
–SL12–90		90	12	42	22.5		M12×1.5	1.4
SL14–90		90	14	45	23			1.5
–SL16–100		100	16	48	24		M14×1.5	1.7
–SL18–100		100	18	50				1.8
–SL20–100		100	20	52	25		M16×1.5	1.9
–SL25–110	2	110	25	62	24	25	M18×2.0	2.4
–SL32–110		110	32	63		28	M20×2.0	2.3



HSK-MODULAR TOOLING SYSTEM

Adopt modular design, integral tool holder in the past, if the cutting head is broken, the whole tool will be useless. Modular tooling system, if cutting head is broken and the tool holder is not. Replace a new cutting head and the tool holder can be used continuously. The tool holder can assemble different cutting heads to reduce the cost. Reduce tool change time. Add the tool magazine capacity. And Reduce cost and improve efficiency. Tool holders always have internal coolant and correct coolant direction to the insert tip.

■ Feature:

- One modular tool holder can assemble four different cutting heads at same time.
- It may satisfy users different demand, such as rough turning, fine turning, grooving, threading and different requirements.
- Use modular tool adaptor may help you to save space in the tool magazine and you will spend less time changing tools.

複合加工機（モジュール化）
HSK ツーリングシステム

モジュール化された設計によりヘッドを自由に交換できます。ツールが衝撃を受けてもホルダ本体は破損しにくく、ヘッドを交換すれば引き続き使用できます。逆に一体式構造の場合はヘッドが破損するだけで、ツールすべてが使用できなくなります。モジュール化設計は異なるタイプのヘッドに交換するだけで、粗加工、仕上げ加工、溝切り、ねじ切りなど異なる旋盤加工が可能です。非常に便利で実用的な機能により生産コストを大幅にカットすることができます。センタークーラント供給設計はツール先端を効果的かつダイレクトに冷却し、旋盤加工時に発生する熱量とチップ磨耗を低減することにより、チップの使用寿命を延長します。

■ 特徴：

- 一つのホルダに用途の異なる四種類のモジュール化ヘッドを装着できます。
- 一回で粗加工、仕上げ加工、溝切り、ねじ切りなど異なる要求を満たせます。
- 一つのポジションが完成した後に、ATCでツール交換する必要はありません。機械主軸を90°の倍数で回転させるだけで、異なるヘッドで加工することができます。それにより加工時間とツール交換時間を短縮することができ、ツールマガジンの本数制限の問題を解決し、生産コストを効果的に低減します。
- 特殊設計されたツールは高剛性・高精度を保ち、自由な組合せと素早い使用を実現します。

適用於夾持標準ISO方形車刀桿，配件多樣化，組合簡單，採購方便。
Designed for standard ISO square shank holder,wide selection and easy to purchase

ICTM ISO

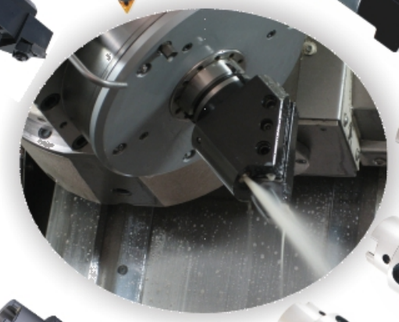
HSK軸向雙面外徑刀座
HSK AXIAL DOUBLE SIDE TURNING HOLDER

雙面可以同時夾持兩把車刀，可節省換刀時間。
Can hold square shank on both side,save time on tool change.

HSK軸向外徑刀座
HSK AXIAL TURNING HOLDER

HSK軸向三面外徑刀座
HSK AXIAL TURNING HOLDER WITH TRIPLE ADAPTER

HSK模組化內孔車刀座
HSK BORING BAR HOLDER WITH INTERCHANGEABLE HEAD



HSK45度外徑刀座
HSK 45 DEGREE TURNING HOLDER

HSK模組化外徑車刀座
HSK TURNING HOLDER WITH INTERCHANGEABLE HEAD

HSK模組化四工位車刀刀座
HSK TURNING HOLDER WITH QUAD-INTERCHANGEABLE HEAD

HSK徑向外徑刀座
HSK RADIAL TURNING HOLDER

HSK內孔刀座
HSK BORING BAR HOLDER

HSK整體式車刀刀座
HSK SOLID TYPE TURNING HOLDER

HSK模組化三工位車刀刀座
HSK TURNING HOLDER WITH TRIPLE INTERCHANGEABLE HEAD

適用於夾持標準ISO刀套與標準內徑車刀桿。
Designed to hold standard ISO cutter and standard boring bar.

整體式設計，剛性強，使用方便。
Solid type design,provides higher rigidity and balance for easier use.



外形採用斜45度緊湊型設計，只佔用一個ATC刀位，干涉更小，使用更方便。
Used 45 degree close fit design,only take single ATC slot,less interference for easier use.



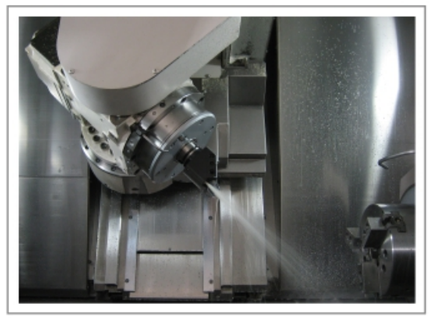
▲ 經精密銑削高精度驅動鍵槽，可確保在車削時的刀尖位於旋轉零件的中心，提高了加工精度，並且可以延長刀片使用壽命。驅動鍵槽按照ICTM標準生產，可同時適用於ICTM主軸與ISO主軸。

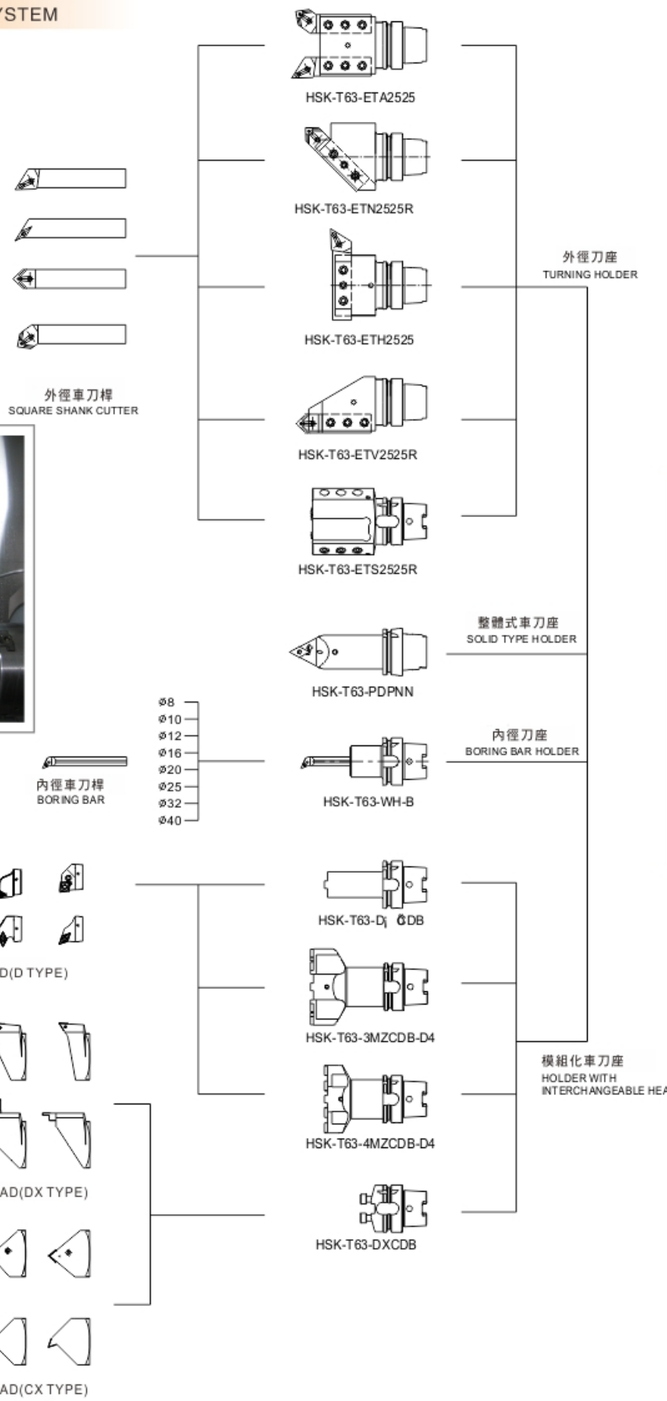
The HSK adapter is made by precision grinding,which allows the tip of the insert to stay in the center of the rotating work piece resulting in outstanding accuracy, balance and increase in the lifespan of the insert.
The HSK adapter is manufactured according to ICTM standard,it is suitable for both ICTM and ISO spindle.



可調式噴水頭，可任意調節方向，可用於中心出水。
Adjustable coolant head,can be used to adjust coolant direction,designed for internal coolant.

適用ISO12164-3 HSK-T63系統
DESIGNED FOR ISO12164-3 HSK-T63 SYSTEM

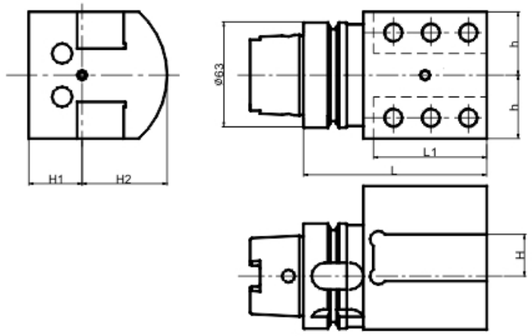




HSK軸向雙面外徑刀座
HSK DOUBLE SIDE TURNING HOLDER

Evermore®

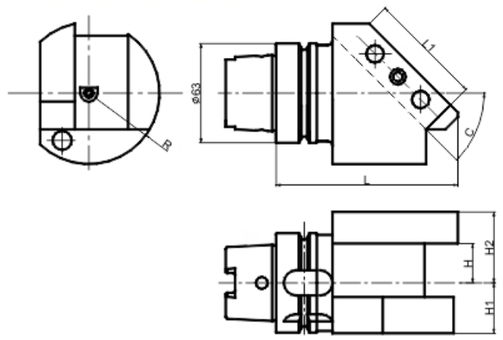




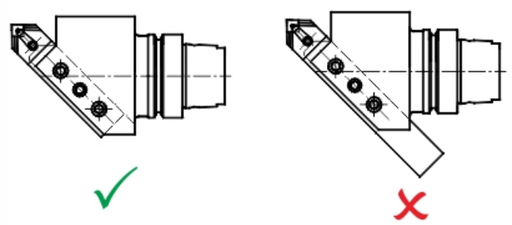
訂貨型號 Order Code	L	L1	H	H1	H2	h	重量(Kg) Weight
HSK-T63-ETA2525-105	105	65	25	32	51	38	3.5
HSK-T63-ETA1"×1"-4"	4"	2.5"	1"	1.25"	2"	1.5"	3.5

HSK45度外徑刀座
HSK 45 DEGREE TURNING HOLDER





訂貨型號 Order Code	L	L1	H	H1	H2	R	C	重量(Kg) Weight
HSK-T63-ETN2525R-115	115	70	25	32	45	45	45°	2.9
HSK-T63-ETN1"×1"R-4.5"	4.5"	2.75"	1"	1.25"	1.75"	1.75"	45°	2.9



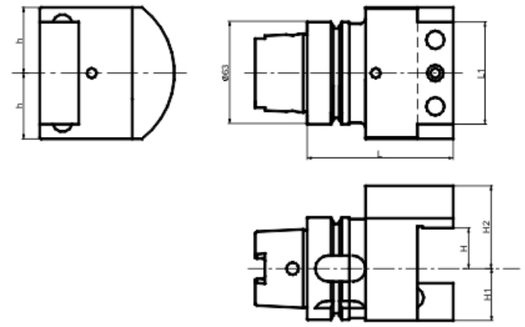
⚠ 注意CAUTION

刀桿安裝時禁止尾部突出，否則ATC換刀時可能會有干涉。
When installing square shank holder,please make sure the tail does not protrude on the bottom,it may cause interference during auto tool change.

HSK徑向外徑刀座
HSK RADIAL TURNING HOLDER

Evermore®

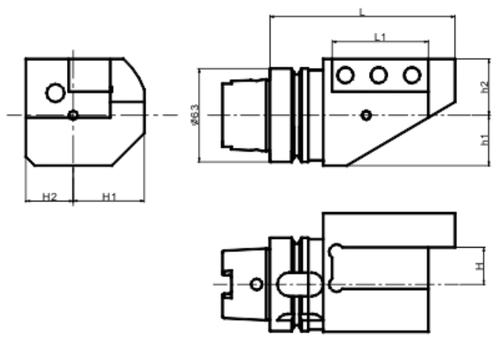




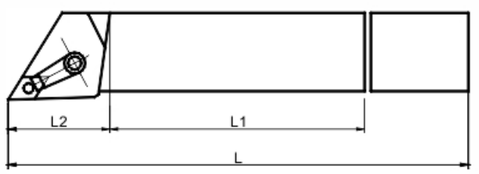
訂貨型號 Order Code	L	L1	H	H1	H2	h	重量(Kg) Weight
HSK-T63-ETH2525-90	90	63	25	32	51	40.5	2.9
HSK-T63-ETH1"×1"-3.5"	3.5"	2.5"	1"	1.25"	2"	1.5"	2.9

HSK軸向外徑刀座
HSK AXIAL TURNING HOLDER





訂貨型號 Order Code	L	L1	H	H1	H2	h1	h2	重量(Kg) Weight
HSK-T63-ETV2525R-125	125	65	25	48	32	34	38	2.9
HSK-T63-ETV1"×1"R-5"	5"	2.5"	1"	2"	1.25"	1.25"	1.5"	2.9



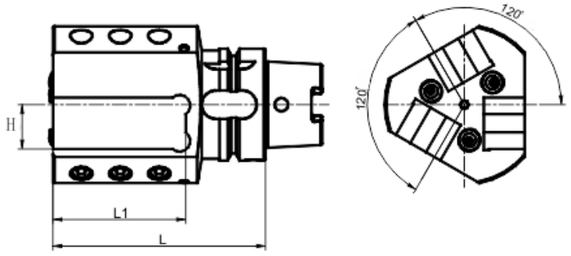
⚠ 注意CAUTION

爲了得到加工時的最佳效果，請將車刀桿割短至所用刀座的L1尺寸。
Please trim the square shank holder to L1 dimension for maximum efficiency.

HSK 軸向三面外徑刀座
HSK TURNING HOLDER WITH TRIPLE ADAPTER

Evermore®

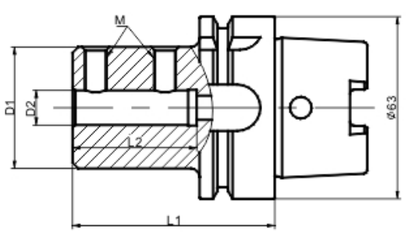




訂貨型號 Order Code	L	L1	H	適用刀杆 Square Shank dimension	刀杆鎖緊螺絲 Lock Screw	重量(Kg) Weight
HSK–T63–ETS2525R–120	120	75	25	25 × 25	M12–25	2.6
HSK–T63–ETS1" × 1"R–4.75"	4.75"	3"	1"	1" × 1"	M12–25	2.6

HSK 內孔刀座
HSK BORING BAR HOLDER



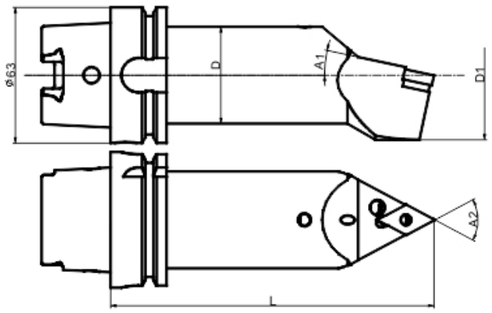


訂貨型號 Order Code	øD1	øD2	L1	L2	M	重量(Kg) Weight
HSK–T63–WH–B08–65	28	8	65	40	M8	0.8
HSK–T63–WH–B10–70	35	10	70	45	M8	1.0
HSK–T63–WH–B12–70	42	12	70	45	M8	1.0
HSK–T63–WH–B16–75	48	16	75	50	M10	1.2
HSK–T63–WH–B20–75	52	20	75	50	M10	1.3
HSK–T63–WH–B25–83	62	25	83	58	M12	1.7
HSK–T63–WH–B32–87	62	32	87	62	M12	1.6
HSK–T63–WH–B40–97	65	40	97	72	M16	1.6

HSK 整體式車刀座
HSK SOLID TYPE HOLDER

Evermore®

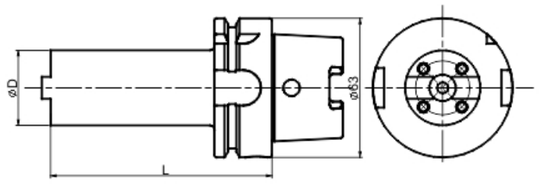




訂貨型號 Order Code	L	øD	øD1	A1	A2	重量(Kg) Weight
HSK–T63–PDPNN–150	150	45	60	12°	55°	1.8

使用刀片 Insert	墊片 Shim	C型環 C shaped washer	L型勾 Lever	螺絲 Lock Screw	扳手 Wrench
DN□□1506	171.35–851	174.3–861	174.3–847	174.3–821	M3

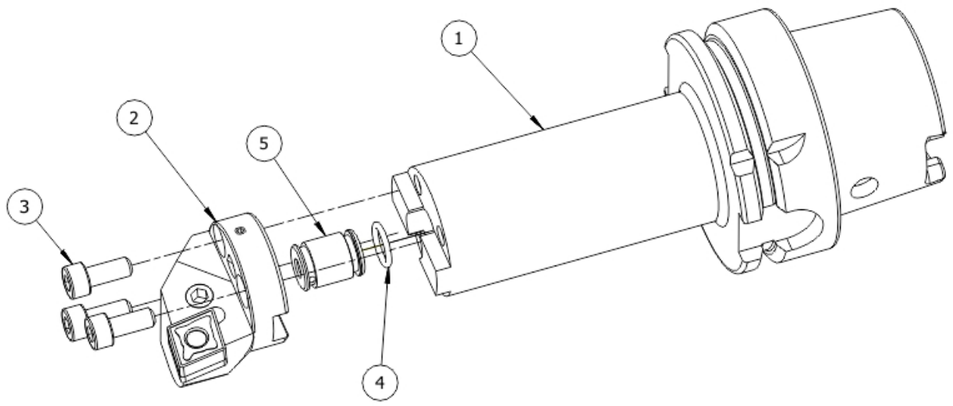




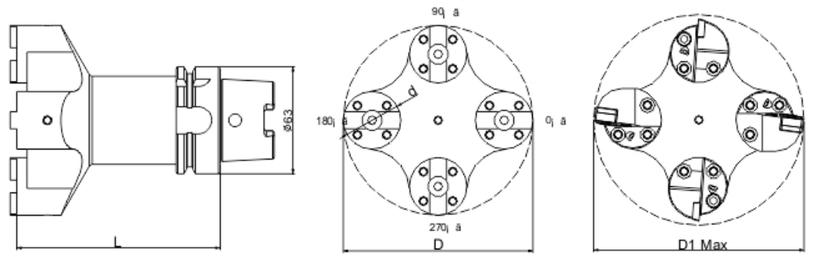
訂貨型號 Order Code	刀頭型號 Head Type	L	ØD	刀頭鎖緊螺絲 Lock Screw For The Head	出水銷 Nozzle	重量(Kg) Weight
HSK–T63–D1CDB–86	D1	86	16	M3–15	D1–DWX	0.8
HSK–T63–D2CDB–100	D2	100	20	M3–15	D2–DWX	0.9
HSK–T63–D3CDB–100	D3	100	25	M4–20	D3–DWX	1.0
HSK–T63–D4CDB–100	D4	100	34	M5–20	D4–DWX	1.2
HSK–T63–D4CDB–150	D4	150	34	M5–20	D4–DWX	1.2

▲ 採用模組化設計，如果刀頭損壞而刀柄無損壞，則可更換一個新的刀頭就可繼續使用。而以往整體式結構一但刀頭損壞則整支刀具都無法繼續再使用。模組化的設計可通過更換不同類型的刀頭即可實現粗車、精車、切槽、車螺紋等不同的車削要求，方便實用，降低生產成本。中心給水設計可直接對刀尖部分進行有效的冷卻，降低車削時的熱量，減少刀片磨耗，從而大大提高刀片的使用壽命。

Adopt modular design,integral tool holder in the past,if the cutting head is broken,the whole tool will be useless.Modular system tool,if cutting head is broken and the tool holder is not.replace a new cutting head and the tool holder can be used continuously. The tool holder can assemble different cutting heads to reduce the cost.



1	2	3	4	5
本體 Main Body	模組化車刀頭 Interchangeable Head	刀頭鎖緊螺絲 Lock Screw For The Head	O型圈 O–Ring	出水銷 Nozzle

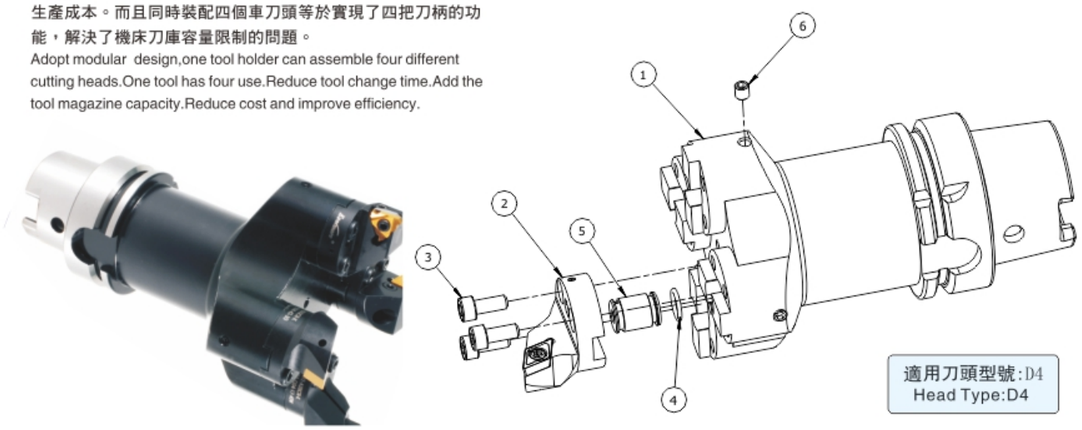


訂貨型號 Order Code	L	ØD	ØD1	Ød	堵水螺絲 Coolant Plug	刀頭鎖緊螺絲 Lock Screw For The Head	出水銷 Nozzle	O型圈 O–Ring	重量(Kg) Weight
HSK–T63–4MZCDB–D4–D100–120	120	90	100	34	M5–5	M5–20	D4–CSX	D9–1.5	2.7
HSK–T63–4MZCDB–D4–D125–120	120	120	125	34	M5–5	M5–20	D4–CSX	D9–1.5	3.2

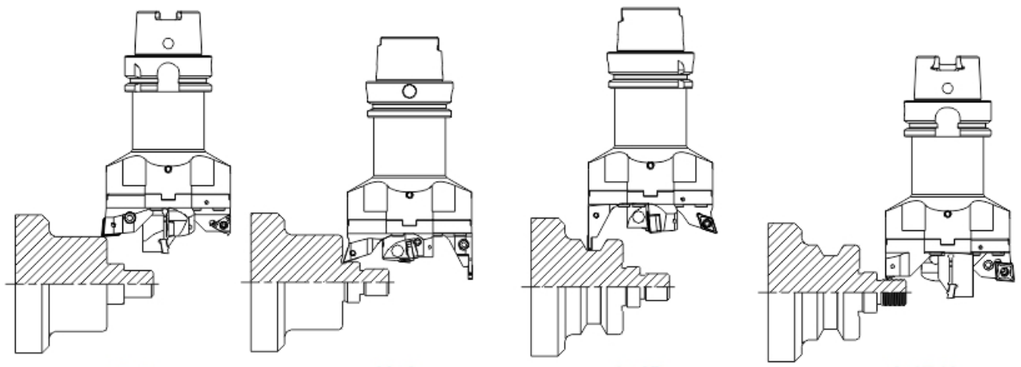
▲模組化四工位車刀座，在一把刀柄本體上安裝有四個不同用途的模組化車刀頭，滿足粗車、精車、切槽、車螺紋等不同的車削要求，當一個工位完成後，只需將刀具主軸旋轉90度的倍數就能用不同的刀具對不同的工序進行加工，減少了多次換刀的時間，縮短了零件加工的時間。每個工位上可以隨意更換不同用途的刀頭，不需要換刀柄，減少了備刀時間，能有效降低生產成本。而且同時裝配四個車刀頭等於實現了四把刀柄的功能，解決了機床刀庫容量限制的問題。

Adopt modular design,one tool holder can assemble four different cutting heads.One tool has four use.Reduce tool change time.Add the tool magazine capacity.Reduce cost and improve efficiency.

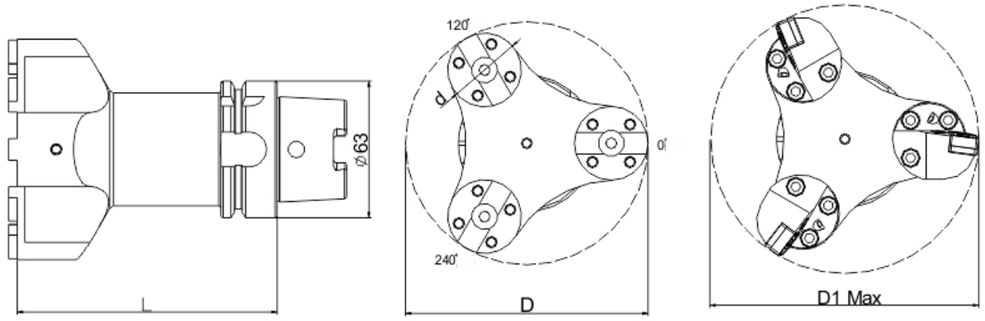
1	2	3	4	5	6
本體 Main Body	模組化車刀頭 Interchangeable Head	刀頭鎖緊螺絲 Lock Screw For The Head	O型圈 O–Ring	出水銷 Nozzle	堵水螺絲 Coolant Plug



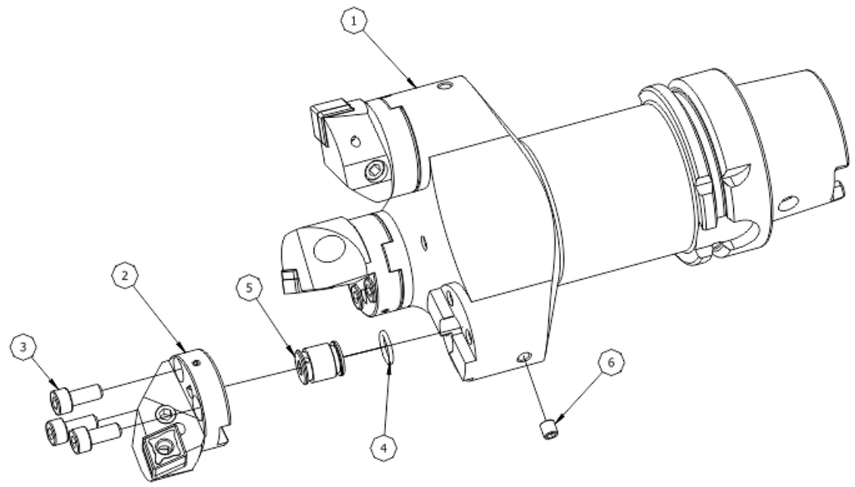
適用刀頭型號:D4
Head Type:D4



粗車 Rough turning
精車 Fine turning
切槽 Notch cutting
車螺紋 Screw cutting



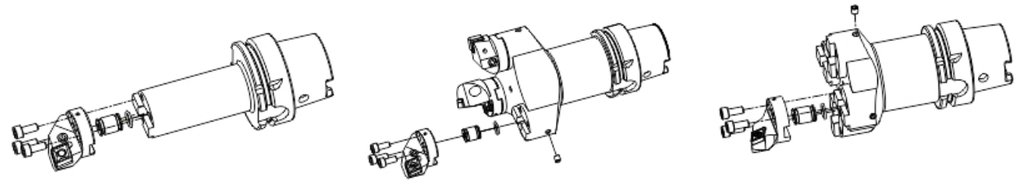
訂貨型號 Order Code	L	ØD	ØD1	Ød	堵水螺絲 Coolant Plug	刀頭鎖緊螺絲 Lock Screw For The Head	出水銷 Nozzle	O型圈 O-Ring	重量(Kg) Weight
HSK-T63-3MZCDB-D4-D100-120	120	90	100	34	M5-5	M5-20	D4-CSX	D9-1.5	2.6
HSK-T63-3MZCDB-D4-D125-120	120	112	125	34	M5-5	M5-20	D4-CSX	D9-1.5	3.0



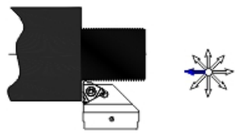
適用刀頭型號:D4
Head Type:D4

1	2	3	4	5	6
本體 Main Body	模組化車刀頭 Interchangeable Head	刀頭鎖緊螺絲 Lock Screw For The Head	O型圈 O-Ring	出水銷 Nozzle	堵水螺絲 Coolant Plug

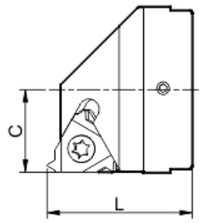


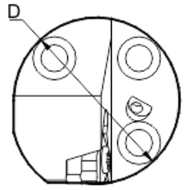


SER



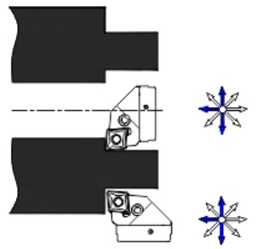




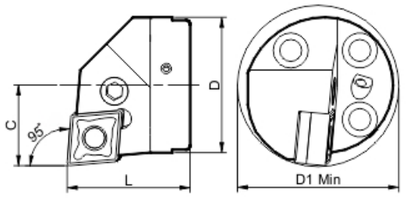


訂貨型號 Order Code	適用刀片 Insert	L	ØD	C	墊片 Shim	刀片鎖緊螺絲 Insert Lock Screw	扳手 Wrench	側螺絲 Side Screw
D4-SER-M16T-30-17W	16ER□□□□	30	34	17.5	AE16	CSTB-3.5	T15	M3X5

PCLNR

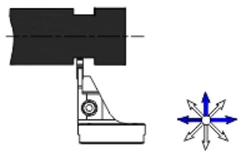




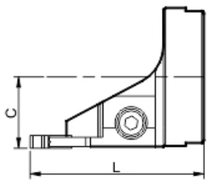


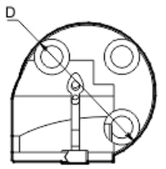
訂貨型號 Order Code	適用刀片 Insert	L	ØD	C	ØD1 (Min)	墊片 Shim	C型環 Cshaped washer	扳手 Wrench	鎖緊螺絲 Lock Screw	L型勾 Lever
D4-PCLNR-K12-40-30.5	CN□□1204	31	34	22.5	40	171.31-850M	174.3-861	L3	174.3-821	174.3-841M

A3SCR

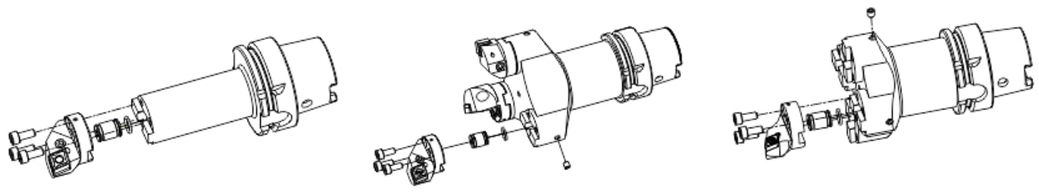




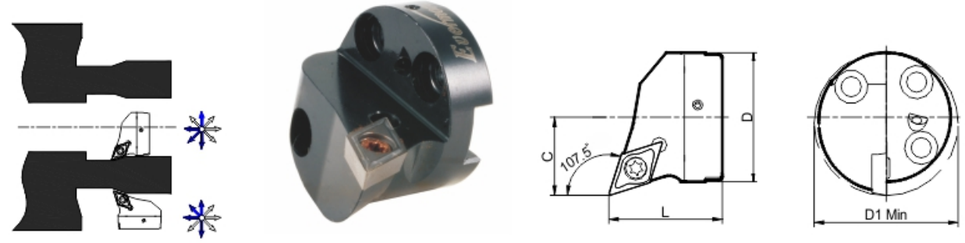




訂貨型號 Order Code	適用刀片 Insert	L	ØD	C	扳手 Wrench	鎖緊螺絲 Lock Screw
D4-A3SCR-K03-17-40W	KENNAMETAL 3.90030SNGB	43	34	17.5	L3	M4-15

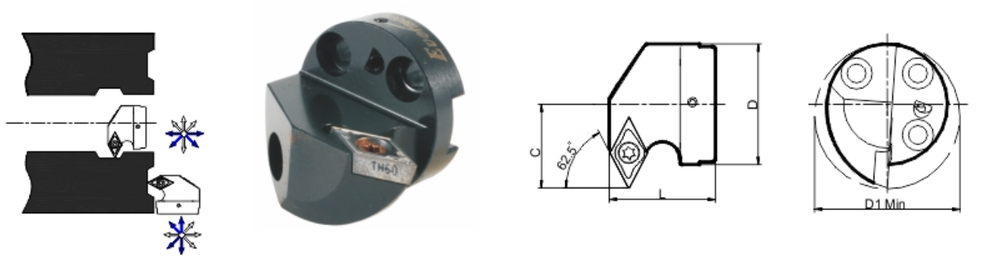


SDQCR

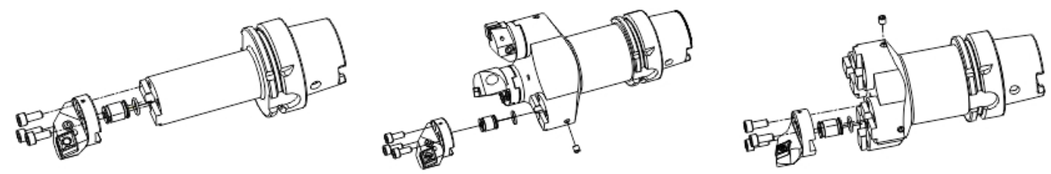


訂貨型號 Order Code	適用刀片 Insert	L	ØD	C	ØD1 (Min)	扳手 Wrench	鎖緊螺絲 Lock Screw
D1–SDQCR07–10.5–20	DC□□0702	20	16	10.5	18.5	T8	CSTB–2.5
D2–SDQCR11–13–20	DC□□11T3	20	20	13	23.5	T15	CSTB–4.0
D3–SDQCR11–16.5–26.5		26.5	25	16.5	30		
D4–SDQCR11–20.5–30		30	34	20.5	38		

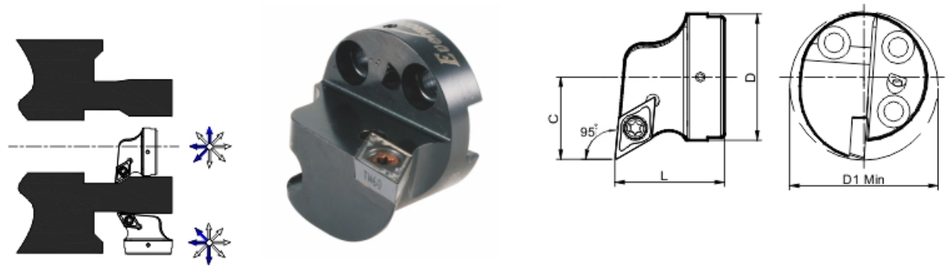
SDWCR



訂貨型號 Order Code	適用刀片 Insert	L	ØD	C	ØD1 (Min)	扳手 Wrench	鎖緊螺絲 Lock Screw
D1–SDWCR07–14–20	DC□□0702	20	16	14	22	T8	CSTB–2.5
D2–SDWCR07–15–22		22	20	15	26		
D3–SDWCR11–19–30	DC□□11T3	30	25	19	32	T15	CSTB–4.0
D4–SDWCR11–23.5–30		30	34	23.5	40		

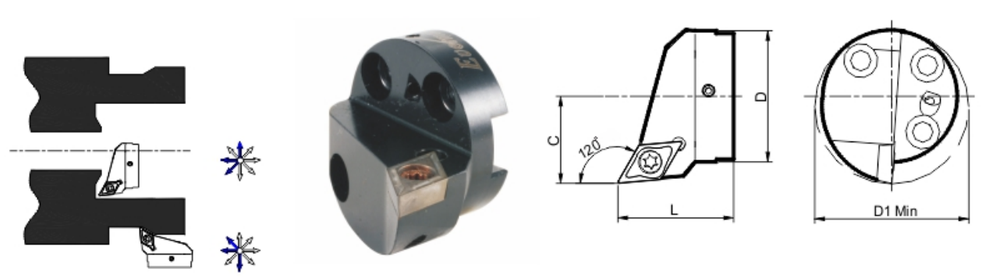


SDUCR

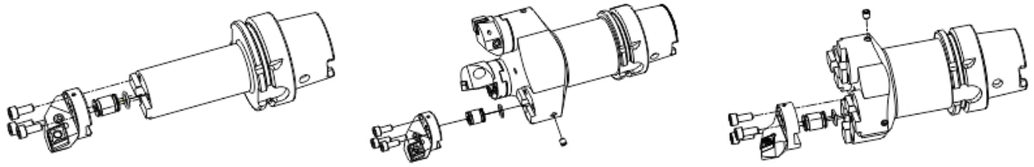


訂貨型號 Order Code	適用刀片 Insert	L	ØD	C	ØD1 (Min)	扳手 Wrench	鎖緊螺絲 Lock Screw
D1–SDUCR07–12.5–20	DC□□0702	20	16	12.5	20	T8	CSTB–2.5
D2–SDUCR11–15–25	DC□□11T3	20	20	15	25	T15	CSTB–4.0
D3–SDUCR11–18.5–29.5		29.5	25	18.5	32		
D4–SDUCR11–22.5–30		30	34	22.5	40		

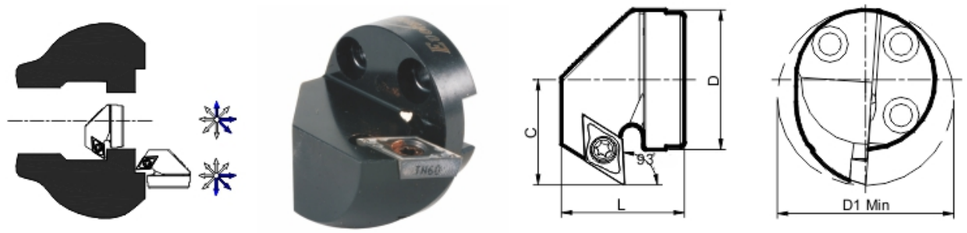
SDXCR



訂貨型號 Order Code	適用刀片 Insert	L	ØD	C	ØD1 (Min)	扳手 Wrench	鎖緊螺絲 Lock Screw
D1–SDXCR07–12–21	DC□□0702	21	16	12	20	T8	CSTB–2.5
D2–SDXCR11–14–25	DC□□11T3	25	20	14	25	T15	CSTB–4.0
D3–SDXCR11–18–30		30	25	18	32		
D4–SDXCR11–22.5–30		30	34	22.5	40		

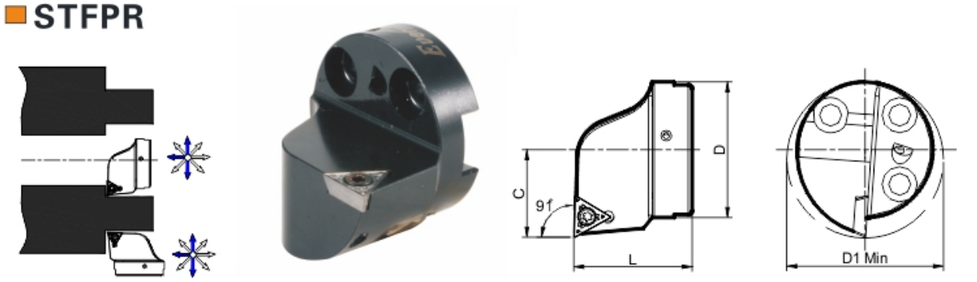


SDZCR

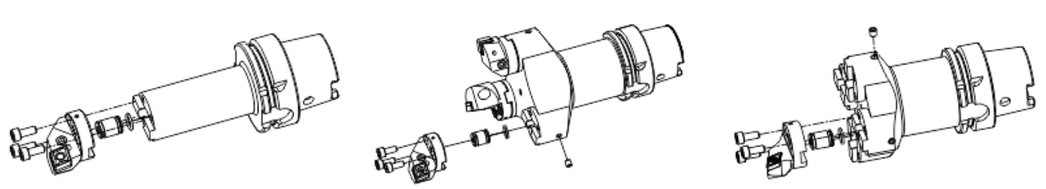


訂貨型號 Order Code	適用刀片 Insert	L	ØD	C	ØD1 (Min)	扳手 Wrench	鎖緊螺絲 Lock Screw
D1-SDZCR07-15-25	DC□□0702	25	16	15	23	T8	CSTB-2.5
D2-SDZCR07-15-25		25	20	15	25		
D3-SDZCR11-21-30	DC□□11T3	30	25	21	34	T15	CSTB-4.0
D4-SDZCR11-25.5-30		30	34	22.5	43		

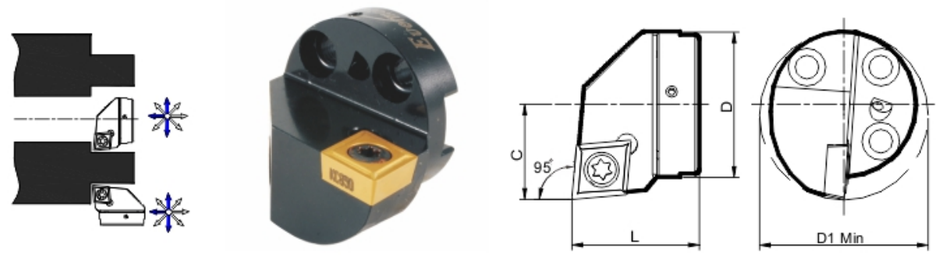
STFPR



訂貨型號 Order Code	適用刀片 Insert	L	ØD	C	ØD1 (Min)	扳手 Wrench	鎖緊螺絲 Lock Screw
D1-STFPR1103-12-20	TP□□1103	20	16	12	20	T 8	CSTB-3
D2-STFPR1103-13.5-25		25	20	13.5	25		
D3-STFPR1103-16.5-25		25	25	16.5	30		
D4-STFPR1103-22-30		30	34	22	40		

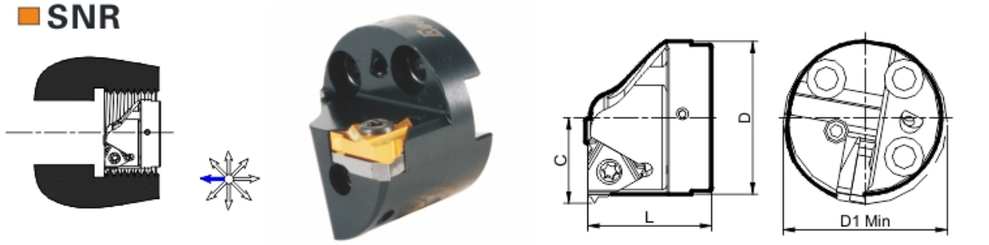


SCLCR



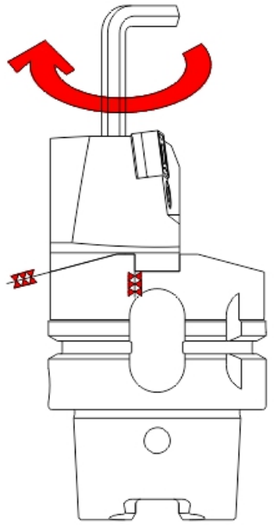
訂貨型號 Order Code	適用刀片 Insert	L	ØD	C	ØD1 (Min)	扳手 Wrench	鎖緊螺絲 Lock Screw
D1-SCLCR09-11.5-20	CC□□09T3	20	16	11.5	20	T15	CSTB-3.5
D2-SCLCR09-14-25		25	20	14	25		
D3-SCLCR09-16.5-30		30	25	16.5	30		
D4-SCLCR12-22-30	CC□□1204	30	34	22	40	T20	CSTB-5

SNR

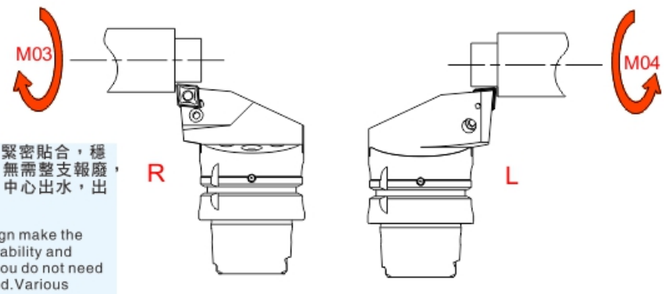


訂貨型號 Order Code	適用刀片 Insert	L	ØD	C	ØD1 (Min)	垫片 Shim	刀片鎖緊螺絲 Insert Lock Screw	扳手 Wrench	側螺絲 Side Screw
D1-SNR-S11-9.5-20	11IR□□□□	20	16	9.5	20	AI16	CSTB-3	T10	M3X5
D2-SNR-S16-12-27	16IR□□□□	27	20	12	25	AI16	CSTB-3.5	T15	M3X5
D3-SNR-S16-15.5-28	16IR□□□□	28	25	15.5	32	AI16	CSTB-3.5	T15	M3X5
D4-SNR-S16-17.5-30	16IR□□□□ 16NR□□□□	30	34	17.5	40	AI16	CSTB-3.5	T15	M3X5

雙斜面設計，刀頭可根據不同的使用條件，安裝在任意一個斜面上，只需改變主軸的旋轉方向，右手刀就可以成為左手刀，如圖所示：
Double oblique surface design,the cutting head can be fixed on any surface,according to different using conditions.Simply by changing the totation direction of the spindle,the right hand can change into left hand.



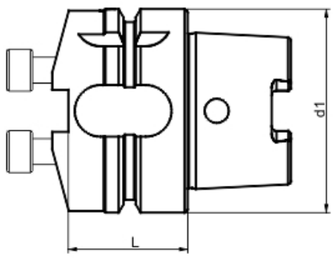


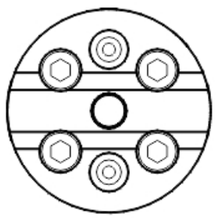


▲專利模組化設計，斜度設計使鎖緊後刀頭與刀柄緊密貼合，穩定性高，剛性強。刀頭分體設計，當刀頭損壞時，無需整支報廢，更換刀頭即可。有多種刀頭可供選擇，靈活組合。中心出水，出水口採用鋼球設計，調整方便。

▲The modular design is patented.Oblique degree design make the cutting head and the holder contact tightly.it has high stability and rigidity.Sub-body design,if the cutting head is broken,you do not need to change the whole holder,only replace the cutting head.Various cutting heads can be chosen,flexible combination.Internal coolant supply with steel ball design,adjustment easily.







訂貨型號 Order Code	刀頭型號 Head Type	L	ød1	刀頭鎖緊螺絲 Lock Screw For The Head	噴水頭 Nozzle	定位銷 Pin	重量(Kg) Weight
HSK-T63-DXCDB-40	DX/CX	40	63	M8-20	12×8PST	DX-DWX	1
HSK-T63-DXCDB-80	DX/CX	80	63	M8-20	12×8PST	DX-DWX	1.9

HSK外徑車削刀具型號表示
Models designations of HSK turning holders

接口尺寸 Interface size
T32
T40
T50
T63
T80
T100
T125
T160

刀片的後角 Insert clearance	
A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°

刀片切削刃長度 Insert edge length					
刀片內切圓 Insert inscribeb circle	6.35	7.94	9.525	12.00	12.70
80°	06	08	09	—	12
55°	07	—	11	—	15
35°	11	—	16	—	—
	—	—	—	12	—
	11	13	16	—	22
	—	—	09	—	12

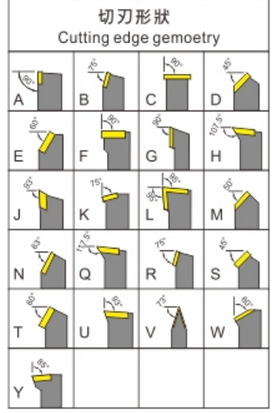
刀具軸角度(例1) Tool axle angle(CASE 1)	
DX	正交型 orthogonal type
CX	傾斜型 obliquity type

HSK	T63	P	C	L	N	R	GX	12	DX

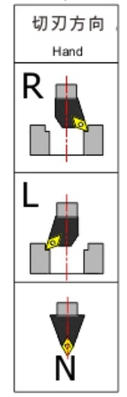
夾緊機構 Clamp mechanism	
A	背面夾緊式 Back clamp system
C	上壓夾緊式 Clamp-on system
D	雙夾緊式 Double clamp system
E	偏心銷式 Off-set pin system
M	複合夾緊式 Multi-clamp system
P	銷釘、杆楔式 Pin lock system
S	螺釘式 Screw-on system
T	錐孔鎖緊式 Taper lock system
W	上楔形式 Wedge-on system

刀片形狀 Insert gemoetry	
C	80°
D	55°
K	55°
R	
S	
T	
V	35°
W	80°
L	
H	120°
A	85°
B	82°
E	75°
M	86°
O	135°
P	108°

切刃形狀 Cutting edge gemoetry

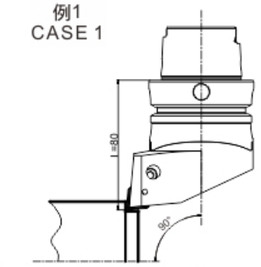


切刃方向 Hand

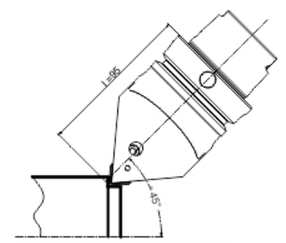


刀具長度 I (mm) Tool length					
A	32	H	100	P	170
B	40	HX	105	PX	175
BX	45	J	110	Q	180
C	50	JX	120	QX	190
CX	55	K	125	R	200
D	60	KX	130	S	250
DX	65	KXX	135	T	300
E	70	L	140	U	350
EX	75	LX	145	V	400
F	80	M	150	W	450
FX	85	MX	155	X	特殊尺寸
G	90	N	160	Y	500
GX	95	NX	165		

例1
CASE 1

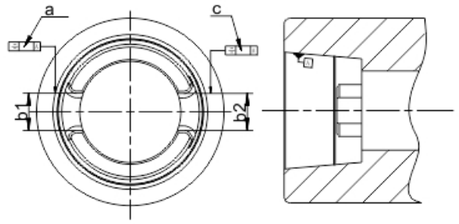


HSK-T63-PCLNR-F12-DX



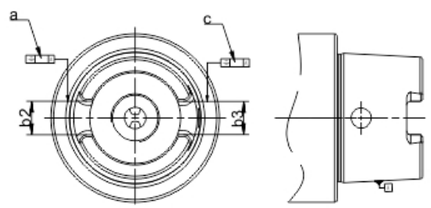
HSK-T63-PCLNR-G12-CX

ISO HSK63主軸內驅動鍵尺寸
The inside drive key dimensions of the ISO HSK63 spindle



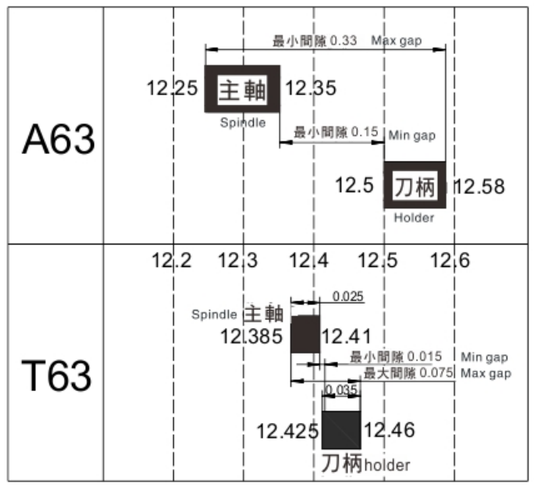
	b1	b2	a	c
A63	12.3 ±0.05		0.05	
T63	12.3±0.05	$12.41\ ^{0}_{-0.025}$	0.05	0.0125

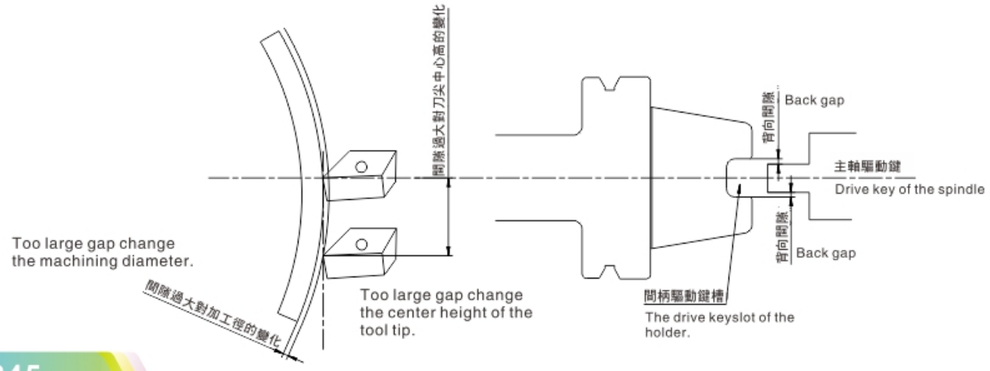
ISO HSK63刀柄驅動鍵槽尺寸
The drive keyslot dimensions of the ISO HSK63 holders



	b1	b2	a	c
A63	12.54 ±0.05		0.05	
T63	$12.425^{+0.035}_{0}$	12.54±0.04	0.025	0.05

刀柄與主軸配合間隙比較
The comparison for fit clearance of the holders and spindle



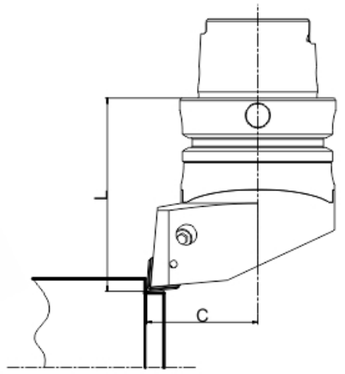


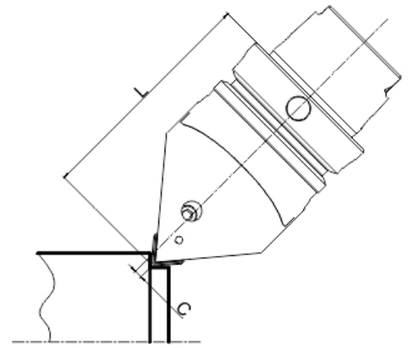
PCLN



CN□ □1204□ □

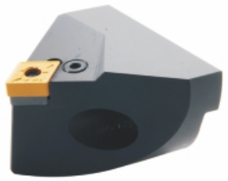


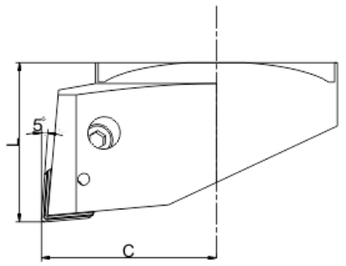


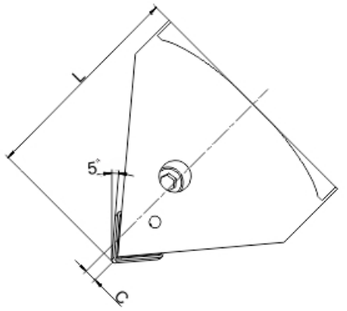


訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
HSK-T63-PCLNR-F12-DX	45	80	HSK-T63-DXCDB-40	PCLNR-4145-12-DX	1.5
HSK-T63-PCLNR-JX12-DX	45	120	HSK-T63-DXCDB-80		2.4
HSK-T63-PCLNR-GX12-CX	3	95	HSK-T63-DXCDB-40	PCLNR-0355-12-CX	1.4
HSK-T63-PCLNR-KXX12-CX	3	135	HSK-T63-DXCDB-80		2.4



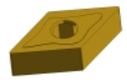






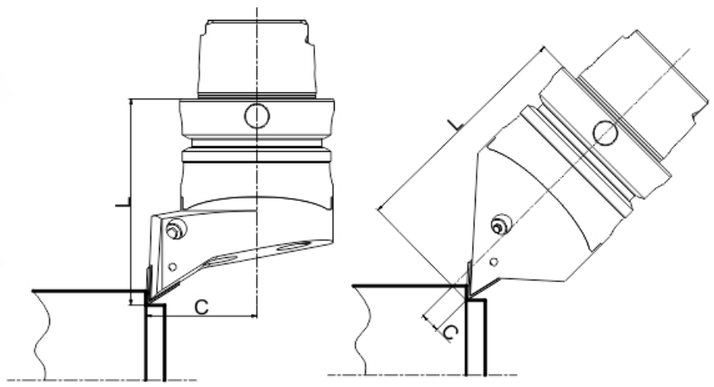
訂貨型號 Order Code	C	L	L型勾 Lever	鎖緊螺絲 Lock Screw	墊片 Shim	C型環 Cshaped washer	扳手 Wrench
PCLNR-4540-12-DX	45	40	174.3-841M	174.3-821	171.31-850M	174.3-861	L3
PCLNR-0355-12-CX	3	55					

PDJN



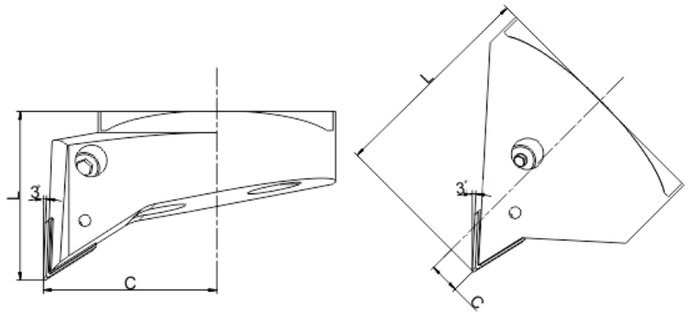
DN□ □1504□ □





訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
HSK–T63–PDJNR–FX15–DX	45	80	HSK–T63–DXCDB–40	PDJNR–4545–15–DX	1.4
HSK–T63–PDJNR–K15–DX	45	125	HSK–T63–DXCDB–80		2.3
HSK–T63–PDJNR–GX15–CX	8	95	HSK–T63–DXCDB–40	PDJNR–0855–15–CX	1.4
HSK–T63–PDJNR–KXX15–CX	8	135	HSK–T63–DXCDB–80		2.3





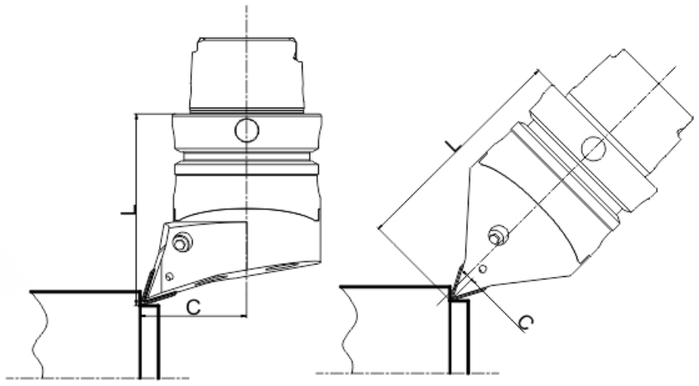
訂貨型號 Order Code	C	L	L型勾 Lever	鎖緊螺絲 Lock Screw	墊片 Shim	C型環 Cshaped washer	扳手 Wrench
PDJNR–4545–15–DX	45	45	174.3–847M	174.3–821	171.35–851	174.3–861	L3
PDJNR–0855–15–CX	8	55					

PDQN



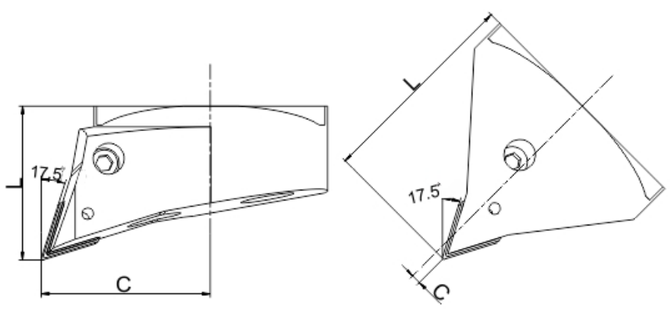
DN□ □1504□ □





訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
HSK–T63–PDQNR–F15–DX	45	80	HSK–T63–DXCDB–40	PDQNR–4540–15–DX	1.4
HSK–T63–PDQNR–JX15–DX	45	120	HSK–T63–DXCDB–80		2.3
HSK–T63–PDQNR–GX15–CX	2	95	HSK–T63–DXCDB–40	PDQNR–0255–15–CX	1.4
HSK–T63–PDQNR–KXX15–CX	2	135	HSK–T63–DXCDB–80		2.3



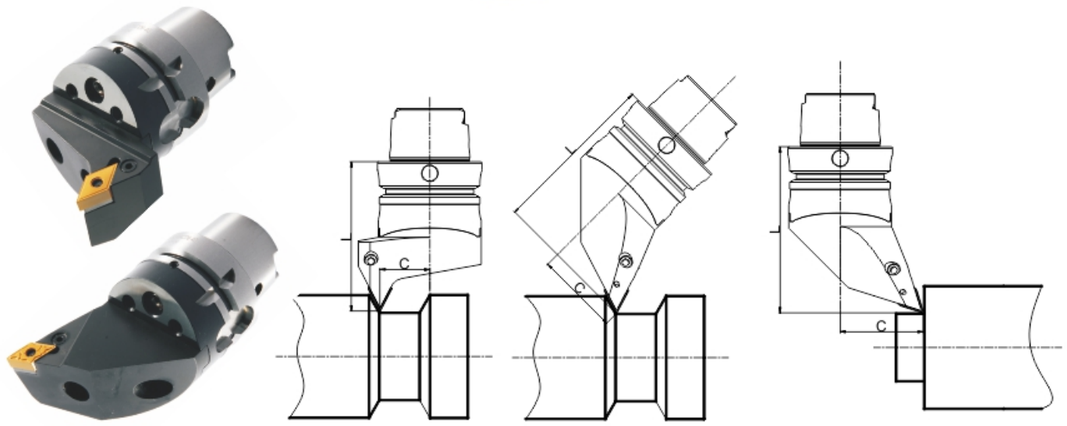


訂貨型號 Order Code	C	L	L型勾 Lever	鎖緊螺絲 Lock Screw	墊片 Shim	C型環 Cshaped washer	扳手 Wrench
PDQNR–4540–15–DX	45	40	174.3–847M	174.3–821	171.35–851	174.3–861	L3
PDQNR–0255–15–CX	2	55					

PDNN

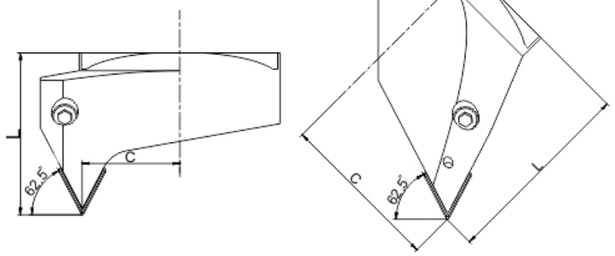


DN□ □1504□ □



訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
HSK-T63-PDNNR-G15-DX	30	90	HSK-T63-DXCDB-40	PDNNR-3050-15-DX	1.5
HSK-T63-PDNNR-KX15-DX	30	130	HSK-T63-DXCDB-80		2.4
HSK-T63-PDNNR-H15-CX	50	100	HSK-T63-DXCDB-40	PDNNR-5060-15-CX	1.6
HSK-T63-PDNNR-L15-CX	50	140	HSK-T63-DXCDB-80		2.5





訂貨型號 Order Code	C	L	L型勾 Lever	鎖緊螺絲 Lock Screw	墊片 Shim	C型環 Cshaped washer	扳手 Wrench
PDNNR-3050-15-DX	30	50	174.3-847	174.3-821	171.35-851	174.3-861	L3
PDNNR-5060-15-CX	50	60					

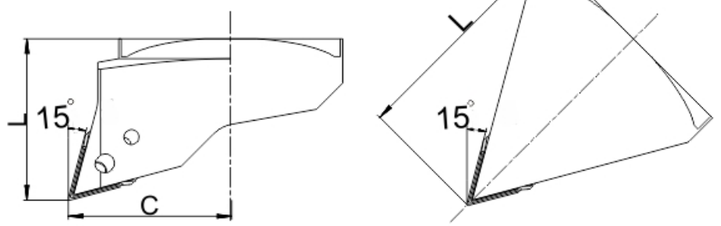
MTJN



TN□ □1604□ □

訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
HSK-T63-MTJNR-F16-DX	45	85	HSK-T63-DXCDB-40	MTJNR-4545-16-DX	1.5
HSK-T63-MTJNR-K16-DX	45	125	HSK-T63-DXCDB-80		2.4
HSK-T63-MTJNR-HK16-CX	0	105	HSK-T63-DXCDB-40	MTJNR-0065-16-CX	1.5
HSK-T63-MTJNR-LX16-CX	0	145	HSK-T63-DXCDB-80		2.4



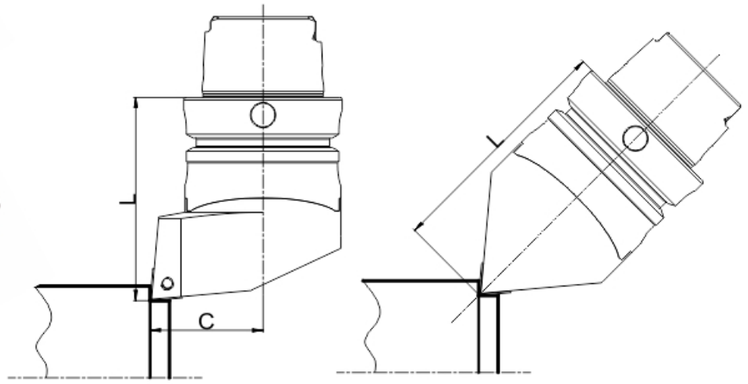


訂貨型號 Order Code	C	L	墊片 Shim	鎖緊螺絲 Lock Screw	中心銷 Pin	側固螺絲 Side Screw	扳手 Wrench
MTJNR-4545-16-DX	45	45	170.3-851	170.38-820-1	170.3-870	170.38-845	L4
MTJNR-0065-16-CX	0	65					

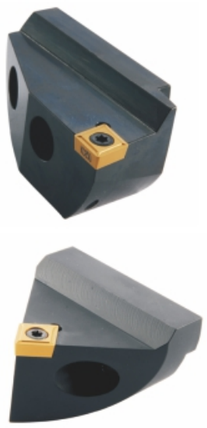
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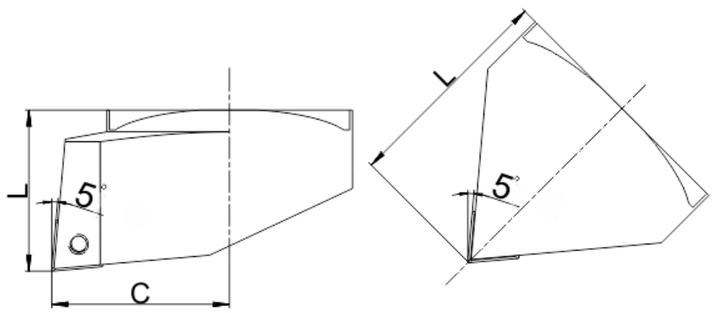
CC□ □1204□ □





訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
HSK-T63-SCLCR-F12-DX	45	80	HSK-T63-DXCDB-40	SCLCR-4540-12-DX	1.5
HSK-T63-SCLCR-JX12-DX	45	120	HSK-T63-DXCDB-80		2.4
HSK-T63-SCLCR-GX12-CX	0	95	HSK-T63-DXCDB-40	SCLCR-0055-12-CX	1.5
HSK-T63-SCLCR-KXX12-CX	0	135	HSK-T63-DXCDB-80		2.4



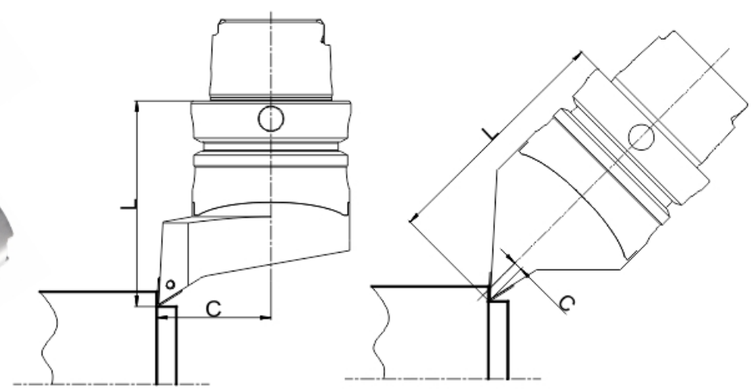


訂貨型號 Order Code	C	L	鎖緊螺絲 Lock Screw	扳手 Wrench
SCLCR-4540-12-DX	45	40	CSTB-5	T-20
SCLCR-0055-12-CX	0	55		

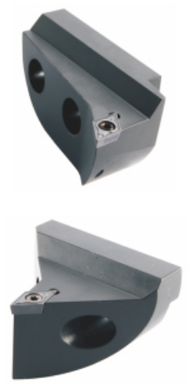
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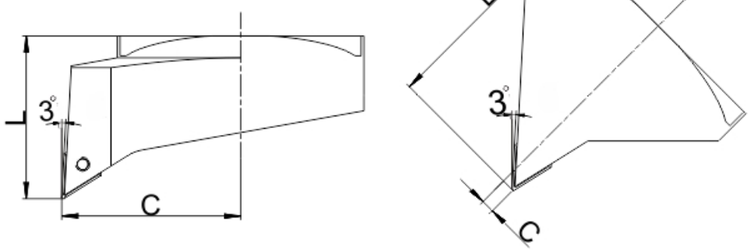
DC□ □11T3□ □





訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
HSK-T63-SDJCR-F11-DX	45	80	HSK-T63-DXCDB-40	SDJCR-4540-11-DX	1.4
HSK-T63-SDJCR-JX11-DX	45	120	HSK-T63-DXCDB-80		2.3
HSK-T63-SDJCR-GX11-CX	3	95	HSK-T63-DXCDB-40	SDJCR-0355-11-CX	1.4
HSK-T63-SDJCR-KXX11-CX	3	135	HSK-T63-DXCDB-80		2.3



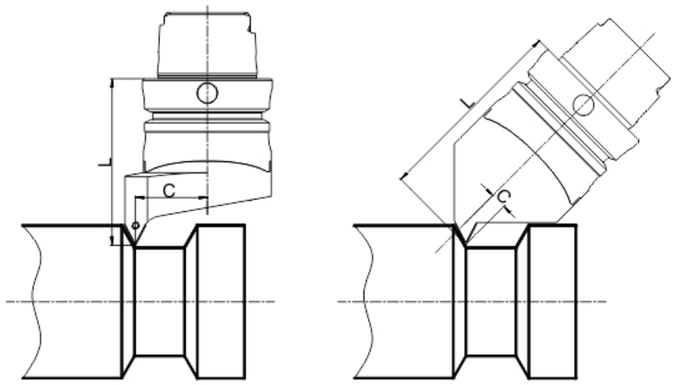


訂貨型號 Order Code	C	L	鎖緊螺絲 Lock Screw	扳手 Wrench
SDJCR-4540-11-DX	45	40	CSTB-4	T-15
SDJCR-0355-11-CX	3	55		

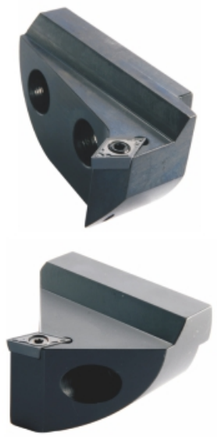
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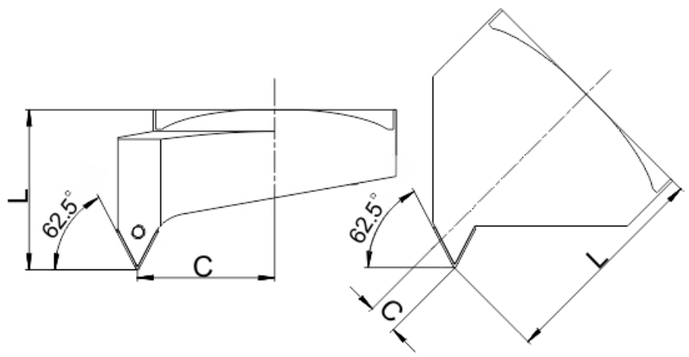
DC□ □11T3□ □





訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
HSK-T63-SDNCN-F11-DX	35	80	HSK-T63-DXCDB-40	SDNCN-3540-11-DX	1.4
HSK-T63-SDNCN-JX11-DX	35	120	HSK-T63-DXCDB-80		2.3
HSK-T63-SDNCN-GX11-CX	7	95	HSK-T63-DXCDB-40	SDNCN-0755-11-CX	1.5
HSK-T63-SDNCN-KXX11-CX	7	135	HSK-T63-DXCDB-80		2.4



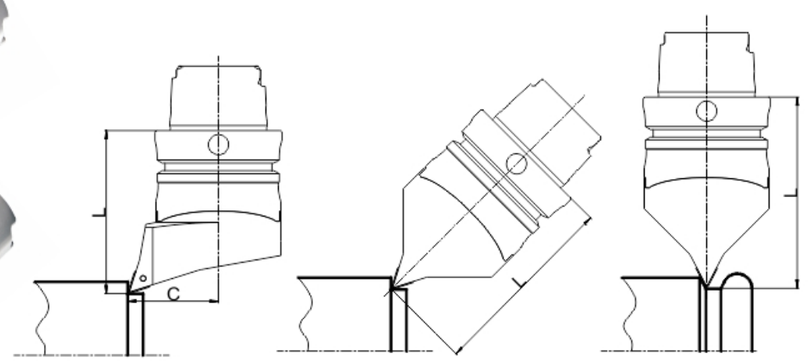


訂貨型號 Order Code	C	L	鎖緊螺絲 Lock Screw	扳手 Wrench
SDNCN-3540-11-DX	35	40	CSTB-4	T-15
SDNCN-0755-11-CX	7	55		

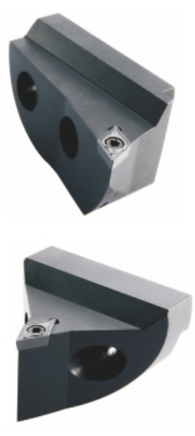
SDQC

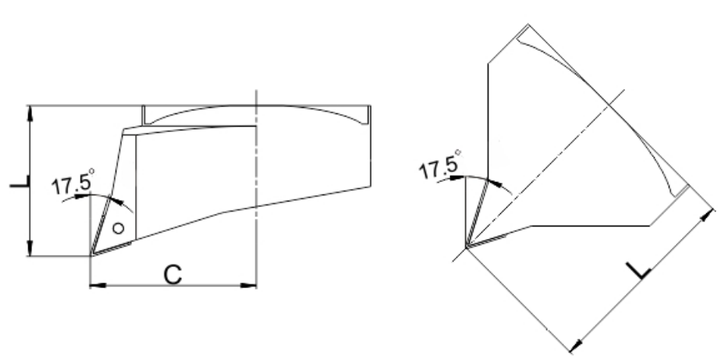
DC□ □11T3□ □





訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
HSK-T63-SDQCR-F11-DX	45	80	HSK-T63-DXCDB-40	SDQCR-4540-11-DX	1.4
HSK-T63-SDQCR-JX11-DX	45	120	HSK-T63-DXCDB-80		2.3
HSK-T63-SDQCR-GX11-CX	0	95	HSK-T63-DXCDB-40	SDQCR-0055-11-CX	1.4
HSK-T63-SDQCR-KXX11-CX	0	135	HSK-T63-DXCDB-80		2.3





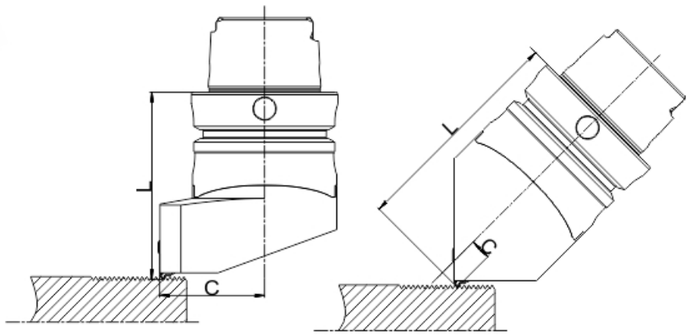
訂貨型號 Order Code	C	L	鎖緊螺絲 Lock Screw	扳手 Wrench
SDQCR-4540-11-DX	45	40	CSTB-4	T-15
SDQCR-0055-11-CX	0	55		

SER

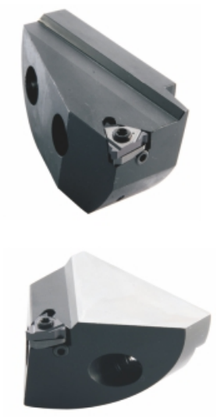


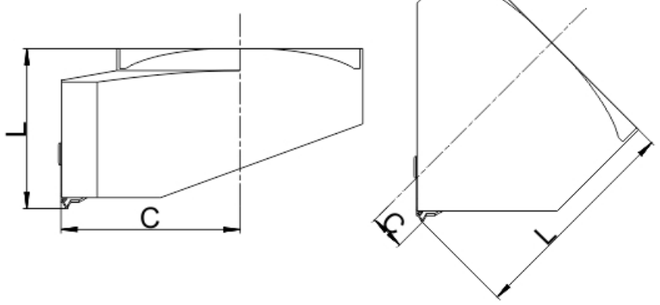
ISO 16ER





訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
HSK-T63-SER-F16-DX	45	80	HSK-T63-DXCDB-40	SER-4540-16-DX	1.5
HSK-T63-SER-JX16-DX	45	120	HSK-T63-DXCDB-80		2.4
HSK-T63-SER-GX16-CX	9	95	HSK-T63-DXCDB-40	SER-0955-16-CX	1.5
HSK-T63-SER-KXX16-CX	9	135	HSK-T63-DXCDB-80		2.4



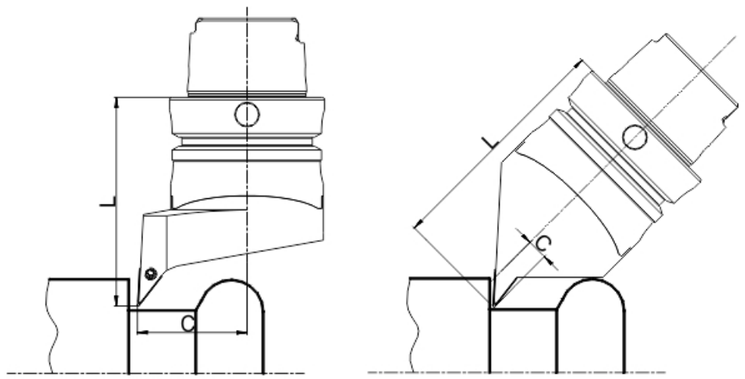


訂貨型號 Order Code	C	L	墊片 Shim	鎖緊螺絲 Lock Screw	側固螺絲 Side Screw	扳手 Wrench
SER-4540-16-DX	45	40	AE16	CSTB-3.5LP	M3×0.5	L2.5 T-15
SER-0955-16-CX	9	55				

SVJC

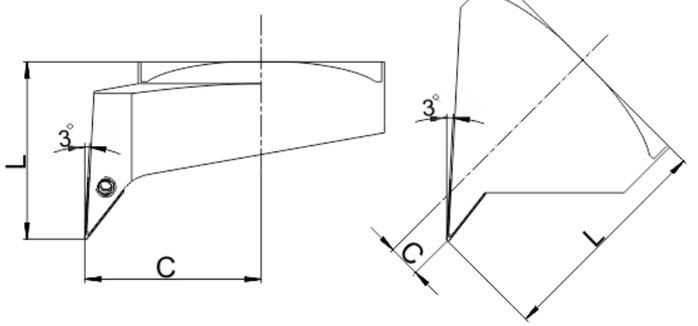
VC□ □1604□ □





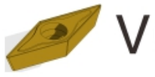
訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
HSK-T63-SVJCR-FX16-DX	45	80	HSK-T63-DXCDB-40	SVJCR-4545-16-DX	1.4
HSK-T63-SVJCR-K16-DX	45	120	HSK-T63-DXCDB-80		2.3
HSK-T63-SVJCR-GX16-CX	8	95	HSK-T63-DXCDB-40	SVJCR-0855-16-CX	1.4
HSK-T63-SVJCR-KXX16-CX	8	135	HSK-T63-DXCDB-80		2.3



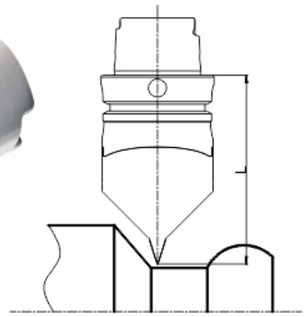


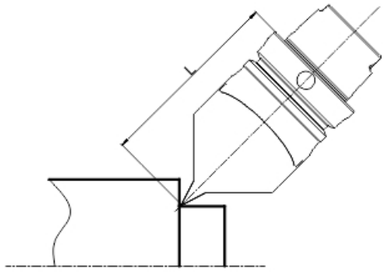
訂貨型號 Order Code	C	L	墊片 Shim	鎖緊螺絲 Lock Screw	墊片螺絲 Shim Screw	扳手 Wrench
SVJCR-4545-16-DX	45	45	SSV32	CSTB-3.5LP	DTS5-3.5	L3.5 T-15
SVJCR-0855-16-CX	8	55				

SVQC

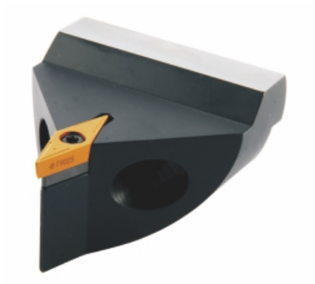

VC□ □1604□ □

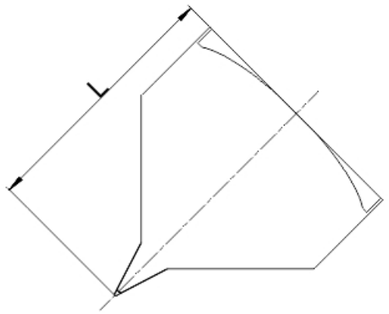






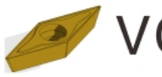
訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
HSK-T63-SVQCR-HX16-CX	0	105	HSK-T63-DXCDB-40	SVQCR-0065-16S-CX	1.5
HSK-T63-SVQCR-LX16-CX	0	145	HSK-T63-DXCDB-80		2.4



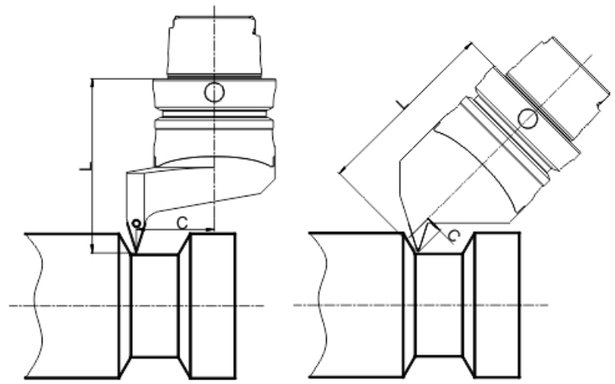


訂貨型號 Order Code	C	L	墊片 Shim	鎖緊螺絲 Lock Screw	側固螺絲 Side Screw	扳手 Wrench
SVQCR-0065-16S-CX	0	65	SSV32	CSTB-3.5LP	DTS5-3.5	L3.5 & T-15

SVVC

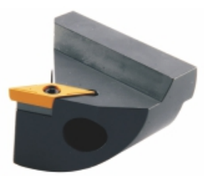

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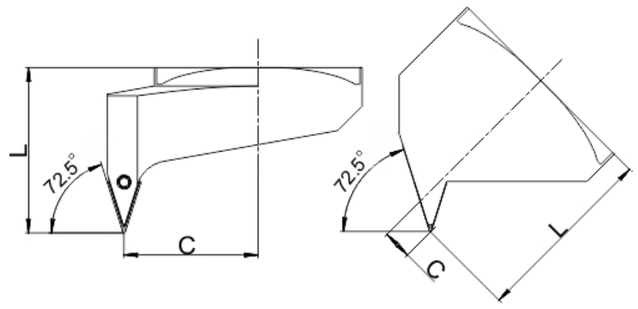




訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
HSK-T63-SVVCN-G16-DX	40	90	HSK-T63-DXCDB-40	SVVCN-4050-16-DX	1.4
HSK-T63-SVVCN-KXX16-DX	40	130	HSK-T63-DXCDB-80		2.3
HSK-T63-SVVCN-GX16-CX	9	95	HSK-T63-DXCDB-40	SVVCN-0955-16-CX	1.4
HSK-T63-SVVCN-KXX16-CX	9	135	HSK-T63-DXCDB-80		2.3







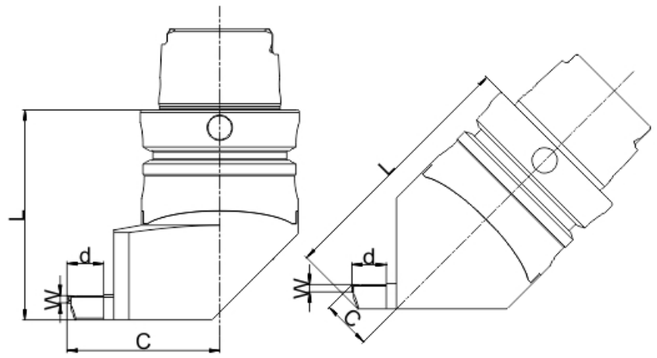
訂貨型號 Order Code	C	L	墊片 Shim	鎖緊螺絲 Lock Screw	墊片螺絲 Shim Screw	扳手 Wrench
SVVCN-4050-16-DX	40	50	SSV32	CSTB-3.5LP	DTS5-3.5	L3.5 T-15
SVVCN-0955-16-CX	9	55				

DMCD

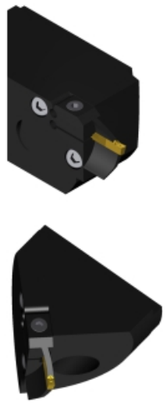


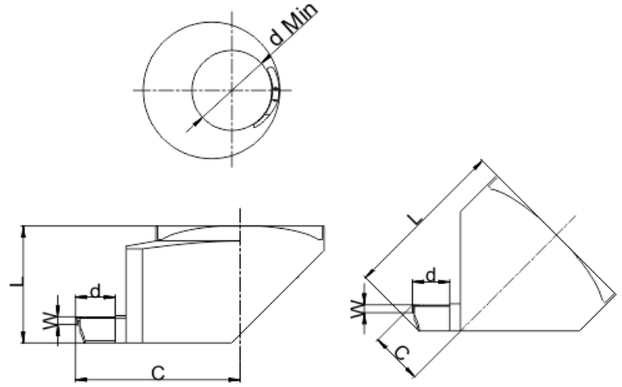
A4..03..





訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
HSK-T63-DMCD-FX3-DX	60	85	HSK-T63-DXCDB-40	DMCD-6045-3-DX	1.7
HSK-T63-DMCD-K3-DX	60	125	HSK-T63-DXCDB-80		2.6
HSK-T63-DMCD-H3-CX	19	100	HSK-T63-DXCDB-40	DMCD-1960-3-CX	1.5
HSK-T63-DMCD-L3-CX	19	140	HSK-T63-DXCDB-80		2.4





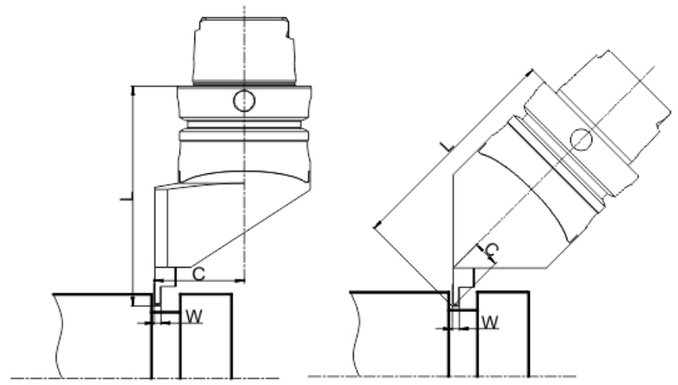
訂貨型號 Order Code	C	L	W	d	適用刀夾 Suitable Cutter Holder	鎖緊螺絲 Lock Screw	扳手 Wrench
DMCD-6045-3-DX	60	45	3	17	A4DR3	M5-16 M4-12	L3,L4
DMCD-1960-3-CX	19	60	3	17			

WJCD



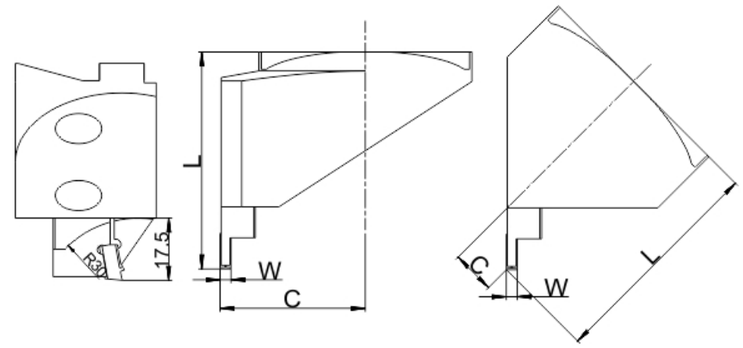
A3..03..





訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
HSK-T63-WJCD-H3-DX	45	100	HSK-T63-DXCDB-40	WJCD-4560-3-DX	1.6
HSK-T63-WJCD-L3-DX	45	140	HSK-T63-DXCDB-80		3.5
HSK-T63-WJCD-HX3-CX	12	105	HSK-T63-DXCDB-40	WJCD-1265-3-CX	1.5
HSK-T63-WJCD-LX3-CX	12	145	HSK-T63-DXCDB-80		2.4





訂貨型號 Order Code	C	L	W	d	適用刀夾 Suitable Cutter Holder	鎖緊螺絲 Lock Screw	扳手 Wrench
WJCD-4560-3-DX	45	60	3	17	A4DR3	M5-16 M4-12	L3,L4
WJCD-1265-3-CX	12	65	3	17			

PSC系列產品 高精度，高鋼性，高轉速！！
PSC High- Rigid, High- Precision, High- Efficiency!!



車銑複合加工高精度(模組化)刀柄 PSC POLYGON-SHANK TOOLING SYSTEM
複合加工機（モジュール化）PSCツーリングシステム

■ 特色：

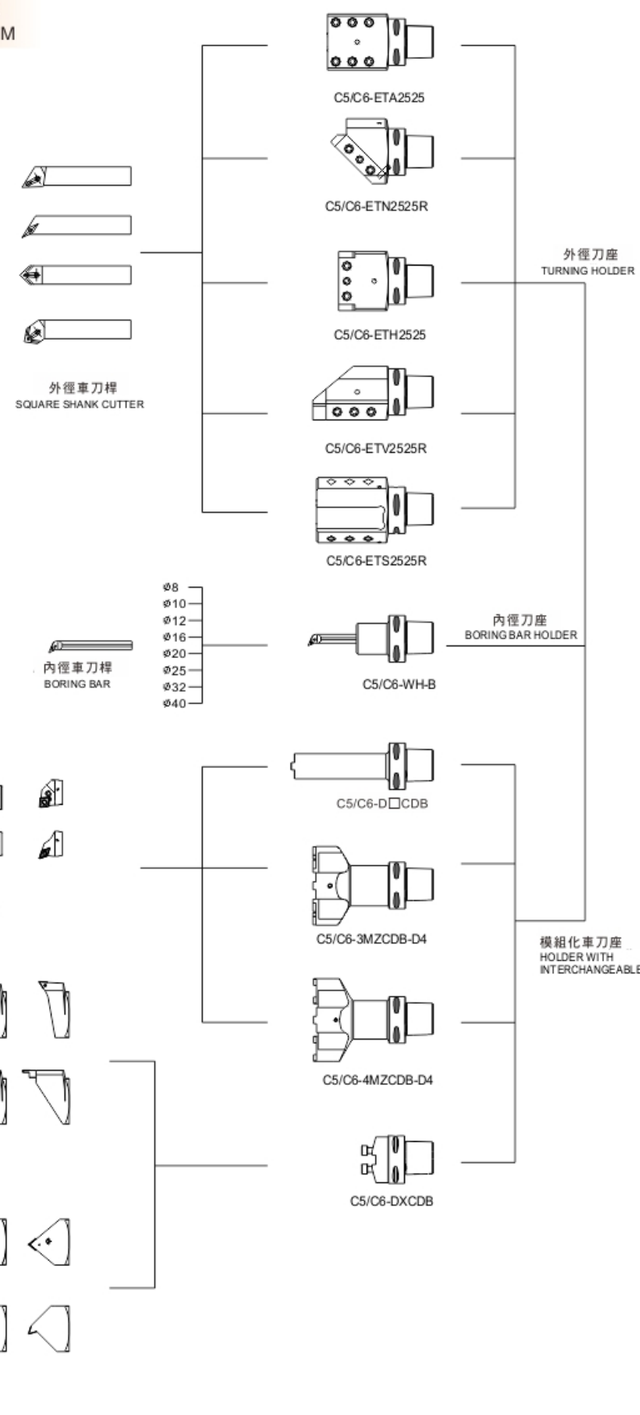
- PSC 模組化刀具系統能提高生產效率，可滿足更多複雜加工的需要。
- 刀頭分體設計，當刀頭損壞時，無需整支報廢，更換刀頭即可。
- 減少換刀時間。
- 節省刀具庫空間。
- 降低刀具成本，一把刀具代替多把刀具。

■ Feature:

- PSC modular design improves production efficiency.
- Sub-body design. If cutting head is broken, and the tool holder is not. Only replace a new cutting head, and the tool holder can be used continuously.
- It may satisfy users different demand, such as rough turning, fine turning, grooving, threading, drilling, and different requirements.
- Saving the capacity of the tool magazine.
- Spend less time changing tools.
- Reduce cost and improve efficiency.

Evermore®

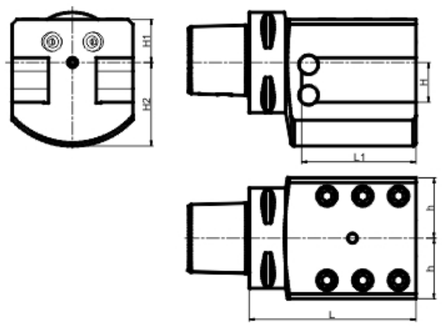
適用ISO26623-1 PSC系統
DESIGNED FOR ISO26623-1 PSC SYSTEM



PSC 軸向雙面外徑刀座
PSC DOUBLE SIDE TURNING HOLDER

Evermore®

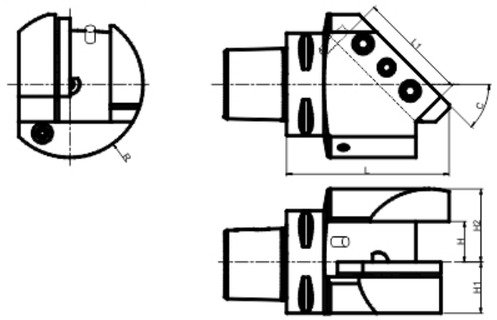




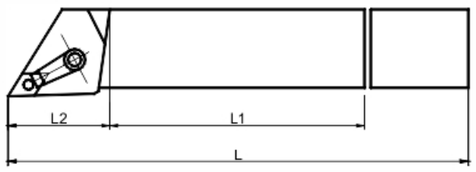
訂貨型號 Order Code	L	L1	H	H1	H2	h	重量(Kg) Weight
C5-ETA2020-90	90	60	20	25	42.5	30	2
C5-ETA1"×1"-4"	4"	2.5"	1"	1.25"	2"	1.5"	2
C6-ETA2525-105	105	72	25	27	52.5	38	3.5
C6-ETA1"×1"-4"	4"	2.5"	1"	1.25"	2"	1.5"	3.5

PSC 45度外徑刀座
PSC 45 DEGREE TURNING HOLDER





訂貨型號 Order Code	L	L1	H	H1	H2	R	C	重量(Kg) Weight
C5-ETN2020R-100	100	66	20	25	36	36	45°	1.9
C5-ETN1"×1"R-4.5"	4.5"	2.75"	1"	1.25"	1.75"	1.75"	45°	1.9
C6-ETN2525R-100	100	80	25	31.5	45	45	45°	2.7
C6-ETN1"×1"R-4.5"	4.5"	2.75"	1"	1.25"	1.75"	1.75"	45°	2.7



⚠注意CAUTION

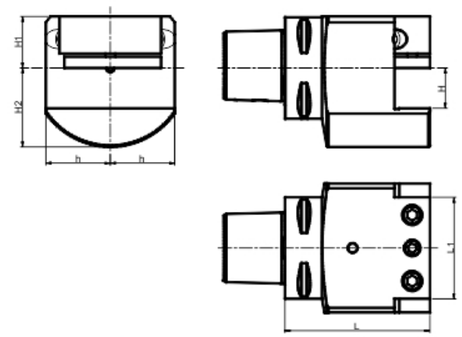
為了得到加工的最佳效果，請將車刀桿割短至所用刀座的L1尺寸。

Please trim the square shank holder to L1 dimension for maximum efficiency.

PSC 徑向外徑刀座
PSC RADIAL TURNING HOLDER

Evermore®

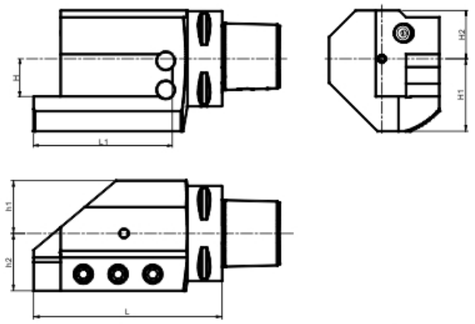




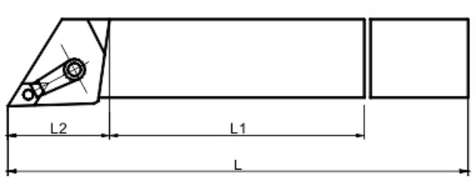
訂貨型號 Order Code	L	L1	H	H1	H2	h	重量(Kg) Weight
C5-ETH2525-80	80	57	20	32	40	35	2.6
C5-ETH1"×1"-3.5"	3.5"	2.5"	1"	1.25"	2"	1.5"	2.6
C6-ETH2525-90	90	63	25	32	49.5	40	3.4
C6-ETH1"×1"-3.5"	3.5"	2.5"	1"	1.25"	2"	1.5"	3.4

PSC 軸向外徑刀座
PSC AXIAL TURNING HOLDER





訂貨型號 Order Code	L	L1	H	H1	H2	h1	h2	重量(Kg) Weight
C5-ETV2525R-100	100	75	20	41	32	30	30	2.6
C5-ETV1"×1"R-5"	5"	2.5"	1"	2"	1.25"	1.25"	1.5"	2.6
C6-ETV2525R-125	125	92	25	48	32	35	38	3.6
C6-ETV1"×1"R-5"	5"	2.5"	1"	2"	1.25"	1.25"	1.5"	3.6



⚠注意CAUTION

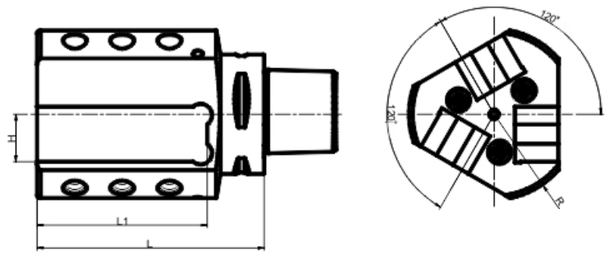
為了得到加工的最佳效果，請將車刀桿割短至所用刀座的L1尺寸。

Please trim the square shank holder to L1 dimension for maximum efficiency.

PSC 軸向三面外徑刀座
PSC TURNING HOLDER WITH TRUPLE ADAPTER

Evermore®

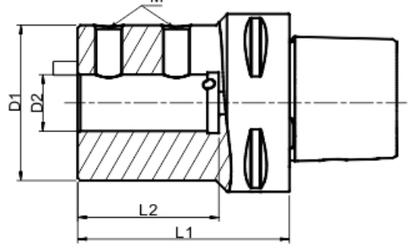




訂貨型號 Order Code	L	L1	H	R	適用刀杆 Square Shank dimension	刀杆鎖緊螺絲 Lock Screw	重量(Kg) Weight
C5-ETS2020R-100	100	70	20	40	20×20	M12-25	2.2
C5-ETS1"×1"R-4.75"	4.75"	3"	1"	40	1"×1"	M12-25	2.2
C6-ETS2525R-120	120	90	25	45	25×25	M12-25	3.0
C6-ETS1"×1"R-4.75"	4.75"	3"	1"	45	1"×1"	M12-25	3.0

PSC 內孔刀座
PSC BORING BAR HOLDER



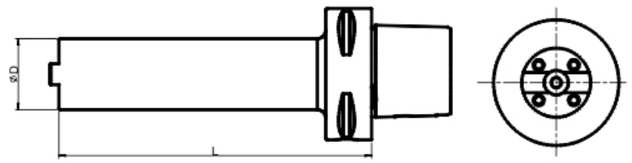


訂貨型號 Order Code	ØD1	ØD2	L1	L2	M	重量(Kg) Weight
C5-WH-B08-65	40	8	65	40	M8	1.0
C5-WH-B10-70	43	10	70	43	M8	1.1
C5-WH-B12-70	45	12	70	43	M8	1.2
C5-WH-B16-75	49	16	75	50	M10	1.3
C5-WH-B20-75	55	20	75	50	M10	1.5
C5-WH-B25-83	62	25	83	58	M12	1.8
C5-WH-B32-87	70	32	87	62	M12	2.1
C5-WH-B40-97	78	40	97	72	M16	2.6
C6-WH-B08-65	40	8	65	40	M8	1.2
C6-WH-B10-70	43	10	70	43	M8	1.3
C6-WH-B12-70	45	12	70	43	M8	1.4
C6-WH-B16-75	49	16	75	50	M10	1.5
C6-WH-B20-75	55	20	75	50	M10	1.6
C6-WH-B25-83	62	25	83	58	M12	2.0
C6-WH-B32-87	70	32	87	62	M12	2.3
C6-WH-B40-97	78	40	97	72	M16	2.8

PSC 模組化內孔車刀座
PSC BORING BAR HOLDER WITH INTERCHANGEABLE HEAD

Evermore®

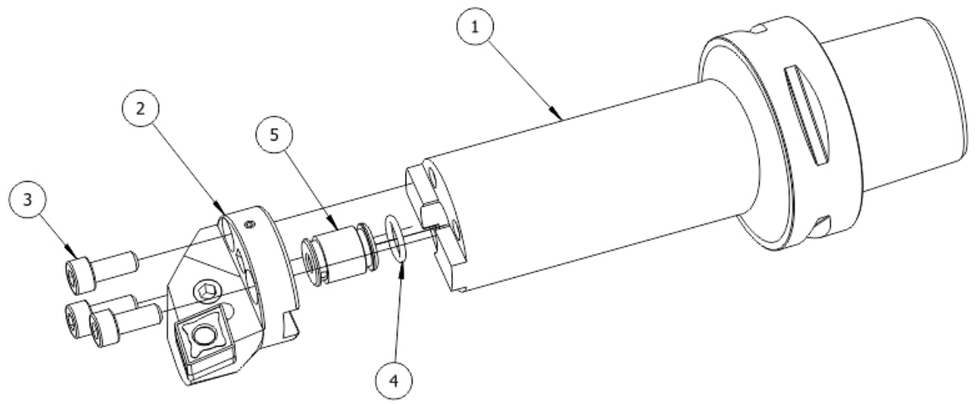




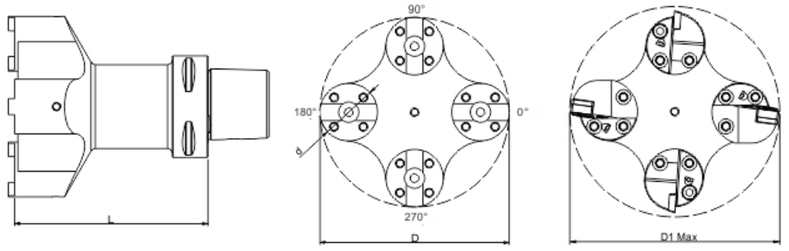
訂貨型號 Order Code	刀頭型號 Head Type	L	ØD	刀頭鎖緊螺絲 Lock Screw For The Head	出水銷 Nozzle	重量(Kg) Weight
C5-D1CDB-86	D1	86	16	M3-15	D1-DWX	0.8
C5-D2CDB-100	D2	100	20	M3-15	D2-DWX	0.9
C5-D3CDB-100	D3	100	25	M4-20	D3-DWX	1.0
C5-D4CDB-100	D4	100	34	M5-20	D4-DWX	1.2
C6-D1CDB-86	D1	86	16	M3-15	D1-DWX	0.8
C6-D2CDB-100	D2	100	20	M3-15	D2-DWX	0.9
C6-D3CDB-100	D3	100	25	M4-20	D3-DWX	1.0
C6-D4CDB-100	D4	100	34	M5-20	D4-DWX	1.2
C6-D4CDB-150	D4	150	34	M5-20	D4-DWX	1.7

▲採用模組化設計，如果刀頭損壞而刀柄無損壞，則可更換一個新的刀頭就可繼續使用。而以往整體式結構一但刀頭損壞則整支刀具都無法繼續再使用。模組化的設計可通過更換不同類型的刀頭即可實現粗車、精車、切槽、車螺紋等不同的車削要求，方便實用，降低生產成本。中心給水設計可直接對刀尖部分進行有效的冷卻，降低車削時的熱量，減少刀片磨耗，從而大大提高刀片的使用壽命。

Adopt modular design,integral tool holder in the past,if the cutting head is broken,the whole tool will be useless.Modular system tool,if cutting head is broken and the tool holder is not.replace a new cutting head and the tool holder can be used continuously. The tool holder can assemble different cutting heads to reduce the cost.



1	2	3	4	5
本體 Main Body	模組化車刀頭 Interchangeable Head	刀頭鎖緊螺絲 Lock Screw For The Head	O型圈 O-Ring	出水銷 Nozzle

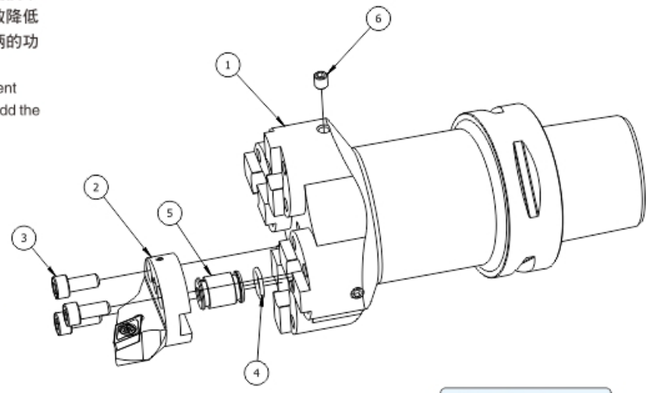


訂貨型號 Order Code	L	ØD	ØD1	Ød	堵水螺絲 Coolant Plug	刀頭鎖緊螺絲 Lock Screw For The Head	出水銷 Nozzle	O型圈 O-Ring	重量(Kg) Weight
C5-4MZCDB-D4-D100-120	120	90	100	34	M5-5	M5-20	D4-CSX	D9-1.5	2.7
C5-4MZCDB-D4-D125-120	120	120	125	34	M5-5	M5-20	D4-CSX	D9-1.5	3.2
C6-4MZCDB-D4-D100-120	120	90	100	34	M5-5	M5-20	D4-CSX	D9-1.5	3.1
C6-4MZCDB-D4-D125-120	120	120	125	34	M5-5	M5-20	D4-CSX	D9-1.5	3.7

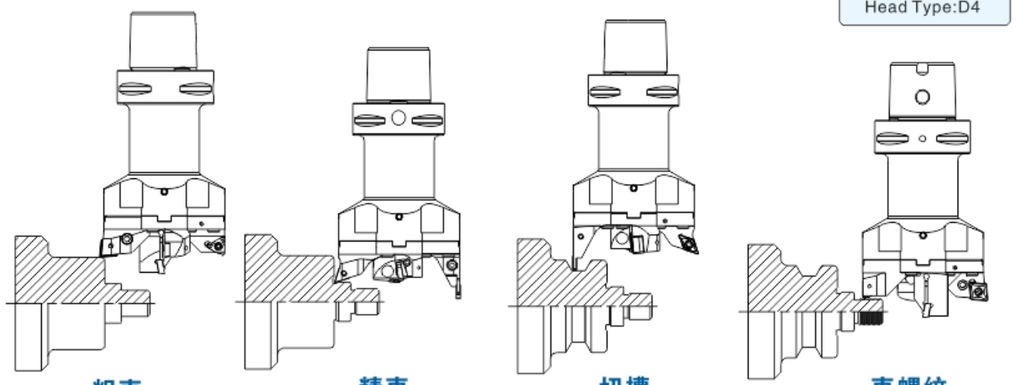
▲模組化四工位車刀座，在一把刀柄本體上安裝有四個不同用途的模組化車刀頭，滿足粗車、精車、切槽、車螺紋等不同的車削要求，當一個工位完成後，只需將刀具主軸旋轉90度的倍數就能用不同的刀具對不同的工序進行加工，減少了多次換刀的時間，縮短了零件加工的時間。每個工位上可以隨意更換不同用途的刀頭，不需要換刀柄，減少了備刀時間，能有效降低生產成本。而且同時裝配四個車刀頭等於實現了四把刀柄的功能，解決了機床刀庫容量限制的問題。

Adopt modular design,one tool holder can assemble four different cutting heads.One tool has four use.Reduce tool change time.Add the tool magazine capacity.Reduce cost and improve efficiency.

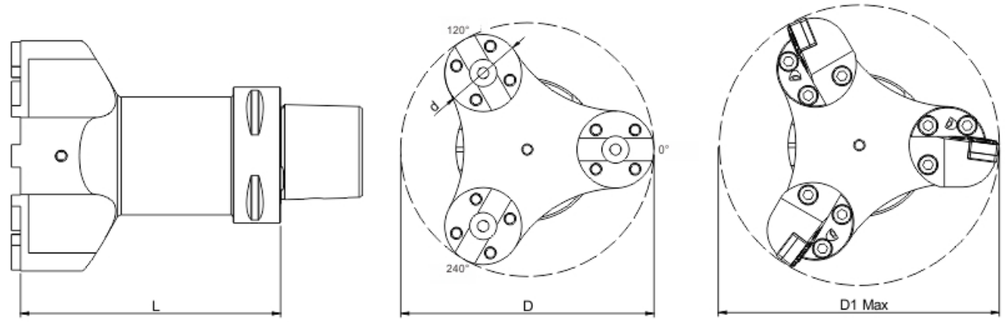
1	2	3	4	5	6
本體 Main Body	模組化車刀頭 Interchangeable Head	刀頭鎖緊螺絲 Lock Screw For The Head	O型圈 O-Ring	出水銷 Nozzle	堵水螺絲 Coolant Plug



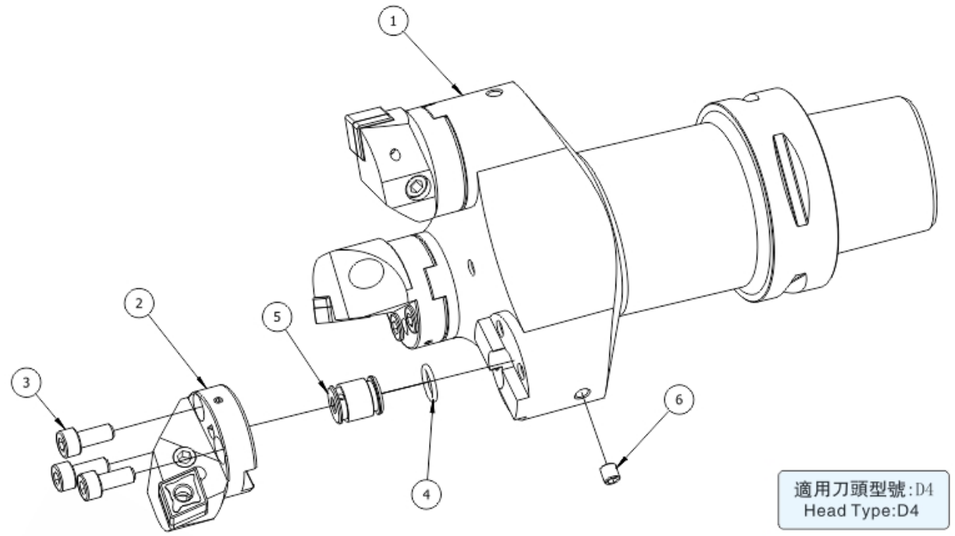
適用刀頭型號:D4
Head Type:D4



粗車 Rough turning
精車 Fine turning
切槽 Notch cutting
車螺紋 Screw cutting



訂貨型號 Order Code	L	ØD	ØD1	Ød	堵水螺絲 Coolant Plug	刀頭鎖緊螺絲 Lock Screw For The Head	出水銷 Nozzle	O型圈 O-Ring	重量(Kg) Weight
C5-3MZCDB-D4-D100-120	120	90	100	34	M5-5	M5-20	D4-CSX	D9-1.5	2.2
C5-3MZCDB-D4-D125-120	120	112	125	34	M5-5	M5-20	D4-CSX	D9-1.5	2.8
C6-3MZCDB-D4-D100-120	120	90	100	34	M5-5	M5-20	D4-CSX	D9-1.5	2.6
C6-3MZCDB-D4-D125-120	120	112	125	34	M5-5	M5-20	D4-CSX	D9-1.5	3.2

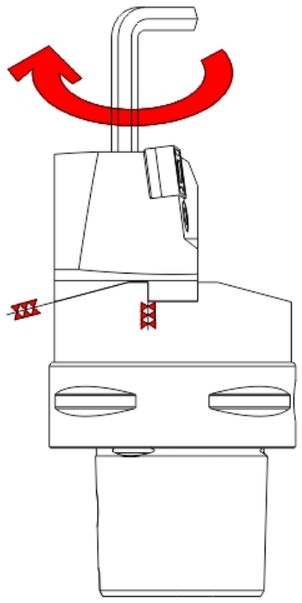


適用刀頭型號:D4
Head Type:D4

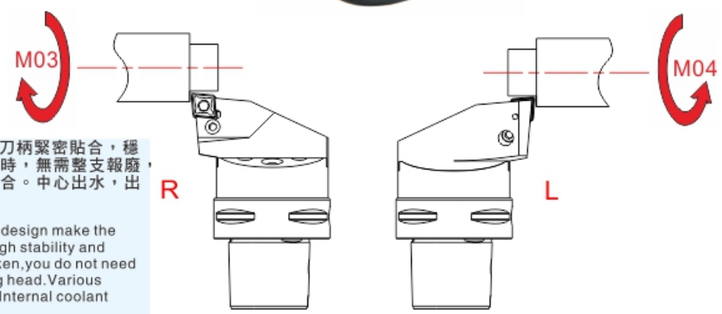


1	2	3	4	5	6
本體 Main Body	模組化車刀頭 Interchangeable Head	刀頭鎖緊螺絲 Lock Screw For The Head	O型圈 O-Ring	出水銷 Nozzle	堵水螺絲 Coolant Plug

雙斜面設計，刀頭可根據不同的使用條件，安裝在任意一個斜面上，只需改變主軸的旋轉方向，右手刀就可以成為左手刀，如圖所示：
Double oblique surface design,the cutting head can be fixed on any surface,according to different using conditions.Simply by changing the totation direction of the spindle,the right hand can change into left hand.







▲專利模組化設計，斜度設計使鎖緊後刀頭與刀柄緊密貼合，穩定性高，剛性強。刀頭分體設計，當刀頭損壞時，無需整支報廢，更換刀頭即可。有多種刀頭可供選擇，靈活組合。中心出水，出水口採用鋼球設計，調整方便。

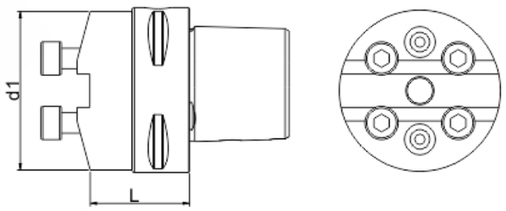
▲The modular design is patented.Oblique degree design make the cutting head and the holder contact tightly.it has high stability and rigidity.Sub-body design,if the cutting head is broken,you do not need to change the whole holder,only replace the cutting head.Various cutting heads can be chosen,flexible combination.Internal coolant supply with steel ball design,adjustment easily.



傾斜型–CX
obliqulity type–CX



正交型–DX
orthogonal type–DX



訂貨型號 Order Code	刀頭型號 Head Type	L	Ød1	刀頭鎖緊螺絲 Lock Screw For The Head	噴水頭 Nozzle	定位銷 Pin	重量(Kg) Weight
C5–DXCDB–40	DX/CX	40	62	M8–20	12×8PST	DX–DWX	1.0
C6–DXCDB–40	DX/CX	40	62	M8–20	12×8PST	DX–DWX	1.8
C5–DXCDB–80	DX/CX	80	62	M8–20	12×8PST	DX–DWX	1.2
C6–DXCDB–80	DX/CX	80	62	M8–20	12×8PST	DX–DWX	2.1

CAPTO外徑車削刀具型號表示
Models designations of CAPTO turning holders

接口尺寸 Interface size
C3=PSC32
C4=PSC40
C5=PSC50
C6=PSC63
C8=PSC80
C8X=PSC80X

刀片的後角 Insert clearance	
A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°

刀片切削刃長度 Insert edge length					
刀片內切圓 Insert inscribeb circle	6.35	7.94	9.525	12.00	12.70
80°	06	08	09	—	12
55°	07	—	11	—	15
35°	11	—	16	—	—
	—	—	—	12	—
	11	13	16	—	22
	—	—	09	—	12

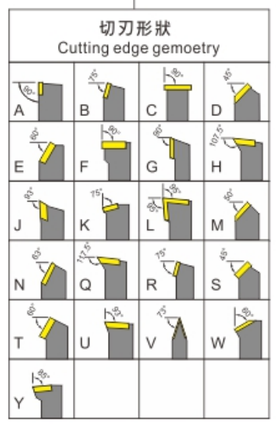
刀具軸角度(例1) Tool axle angle(CASE 1)	
DX	正交型 orthogonal type
CX	傾斜型 obliquity type

C6 — P C L N R — GX 12 — DX

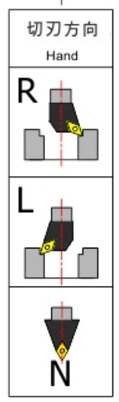
夾緊機構 Clamp mechanism	
A	背面夾緊式 Back clamp system
C	上壓夾緊式 Clamp-on system
D	雙夾緊式 Double clamp system
E	偏心銷式 Off-set pin system
M	複合夾緊式 Multi-clamp system
P	銷釘、杆桿式 Pin lock system
S	螺釘式 Screw-on system
T	錐孔鎖緊式 Taper lock system
W	上楔形式 Wedge-on system

刀片形狀 Insert gemoetry	
C	80°
D	55°
K	55°
R	
S	
T	
V	35°
W	80°
L	
H	120°
A	85°
B	82°
E	75°
M	86°
O	135°
P	108°

切刃形狀 Cutting edge gemoetry

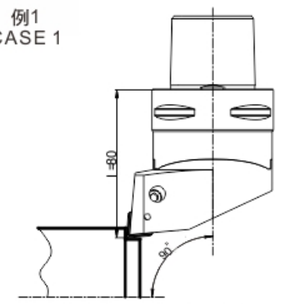


切刃方向 Hand

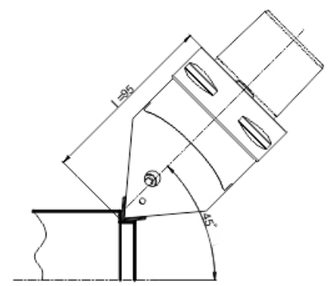


刀具長度 l (mm) Tool length					
A	32	H	100	P	170
B	40	HX	105	PX	175
BX	45	J	110	Q	180
C	50	JX	120	QX	190
CX	55	K	125	R	200
D	60	KX	130	S	250
DX	65	KXX	135	T	300
E	70	L	140	U	350
EX	75	LX	145	V	400
F	80	M	150	W	450
FX	85	MX	155	X	特殊尺寸
G	90	N	160	Y	500
GX	95	NX	165		

例1
CASE 1



C6-PCLNR-F12-DX



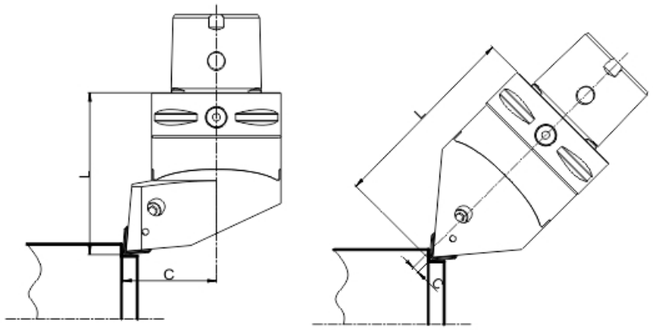
C6-PCLNR-GX12-CX

PCLN



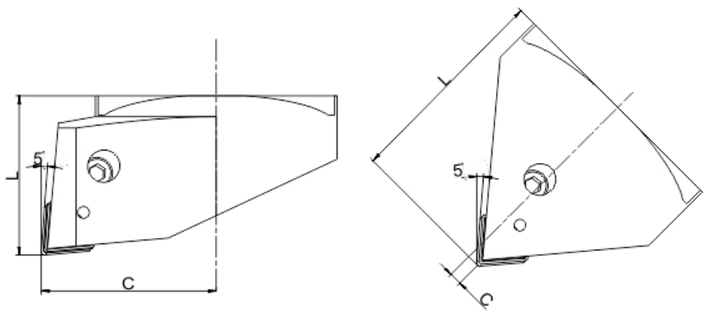
CN□ □1204□ □





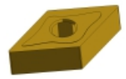
訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
C5–PCLNR–F12–DX	45	80	C5–DXCDB–40	PCLNR–4540–12–DX	1.5
C6–PCLNR–F12–DX	45	80	C6–DXCDB–40		2.3
C5–PCLNR–JX12–DX	45	120	C5–DXCDB–80		1.7
C6–PCLNR–JX12–DX	45	120	C6–DXCDB–80		2.6
C5–PCLNR–GX12–CX	3	95	C5–DXCDB–40	PCLNR–0355–12–CX	1.5
C6–PCLNR–GX12–CX	3	95	C6–DXCDB–40		2.3
C5–PCLNR–KXX12–CX	3	135	C5–DXCDB–80		1.7
C6–PCLNR–KXX12–CX	3	135	C6–DXCDB–80		2.5





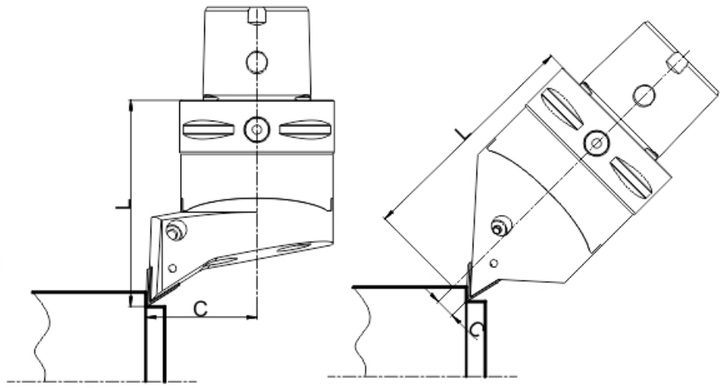
訂貨型號 Order Code	C	L	L型勾 Lever	鎖緊螺絲 Lock Screw	墊片 Shim	C型環 Cshaped washer	扳手 Wrench
PCLNR–4540–12–DX	45	40	174.3–841M	174.3–821	171.31–850M	174.3–861	L3
PCLNR–0355–12–CX	3	55					

PDJN



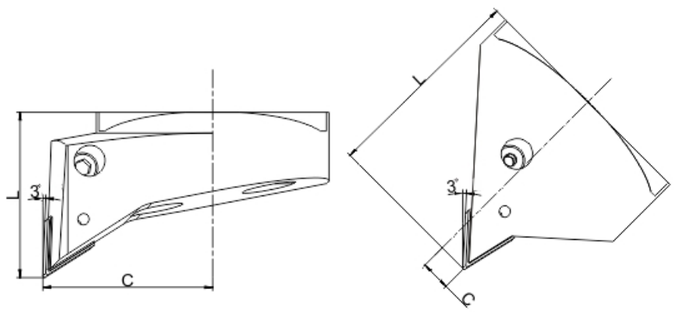
DN□ □1504□ □





訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
C5–PDJNR–FX15–DX	45	85	C5–DXCDB–40	PDJNR–4545–15–DX	1.4
C6–PDJNR–FX15–DX	45	85	C6–DXCDB–40		2.2
C5–PDJNR–K15–DX	45	125	C5–DXCDB–80		1.6
C6–PDJNR–K15–DX	45	125	C6–DXCDB–80		2.5
C5–PDJNR–GX15–CX	8	95	C5–DXCDB–40	PDJNR–0855–15–CX	1.4
C6–PDJNR–GX15–CX	8	95	C6–DXCDB–40		2.2
C5–PDJNR–KXX15–CX	8	135	C5–DXCDB–80		1.6
C6–PDJNR–KXX15–CX	8	135	C6–DXCDB–80		2.5



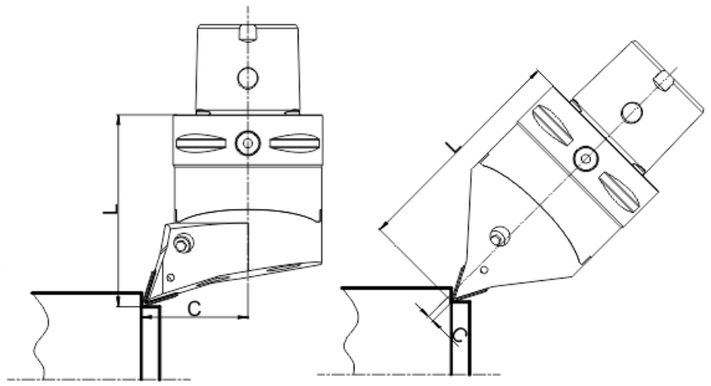


訂貨型號 Order Code	C	L	L型勾 Lever	鎖緊螺絲 Lock Screw	墊片 Shim	C型環 Cshaped washer	扳手 Wrench
PDJNR–4545–15–DX	45	45	174.3–847	174.3–821	171.35–851	174.3–861	L3
PDJNR–0855–15–CX	8	55					

PDQN

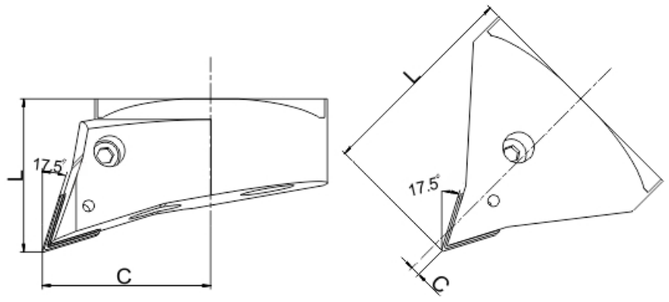
DN□ □1504□ □





訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
C5-PDQNR-F15-DX	45	80	C5-DXCDB-40	PDQNR-4540-15-DX	1.4
C6-PDQNR-F15-DX	45	80	C6-DXCDB-40		2.2
C5-PDQNR-JX15-DX	45	120	C5-DXCDB-80		1.6
C6-PDQNR-JX15-DX	45	120	C6-DXCDB-80		2.5
C5-PDQNR-GX15-CX	2	95	C5-DXCDB-40	PDQNR-0255-15-CX	1.4
C6-PDQNR-GX15-CX	2	95	C6-DXCDB-40		2.2
C5-PDQNR-KXX15-CX	2	135	C5-DXCDB-80		1.6
C6-PDQNR-KXX15-CX	2	135	C6-DXCDB-80		2.5



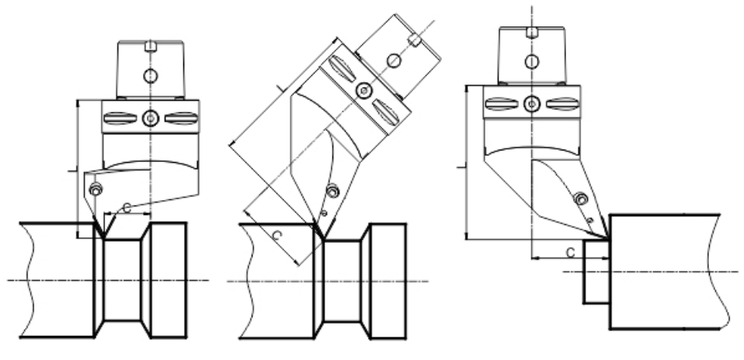


訂貨型號 Order Code	C	L	L型勾 Lever	鎖緊螺絲 Lock Screw	墊片 Shim	C型環 Cshaped washer	扳手 Wrench
PDQNR-4540-15-DX	45	40	174.3-847	174.3-821	171.35-851	174.3-861	L3
PDQNR-0255-15-CX	2	55					

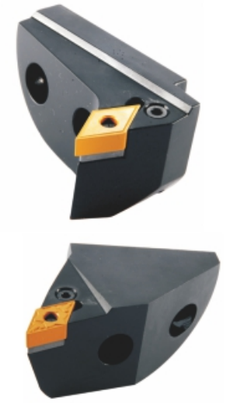
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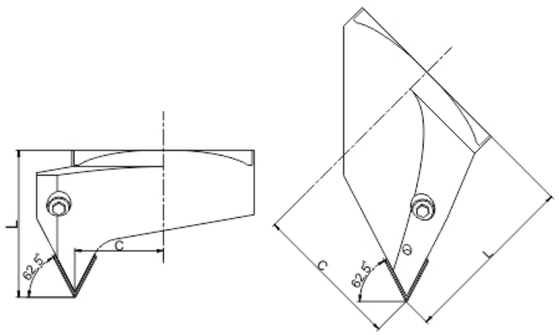
DN□ □1504□ □





訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
C5-PDNNR-G15-DX	30	90	C5-DXCDB-40	PDNNR-3050-15-DX	1.5
C6-PDNNR-G15-DX	30	90	C6-DXCDB-40		2.3
C5-PDNNR-KX15-DX	30	130	C5-DXCDB-80		1.8
C6-PDNNR-KX15-DX	30	130	C6-DXCDB-80		2.5
C5-PDNNR-H15-CX	50	100	C5-DXCDB-40	PDNNR-5060-15-CX	1.6
C6-PDNNR-H15-CX	50	100	C6-DXCDB-40		2.4
C5-PDNNR-L15-CX	50	140	C5-DXCDB-80		1.8
C6-PDNNR-L15-CX	50	140	C6-DXCDB-80		2.7



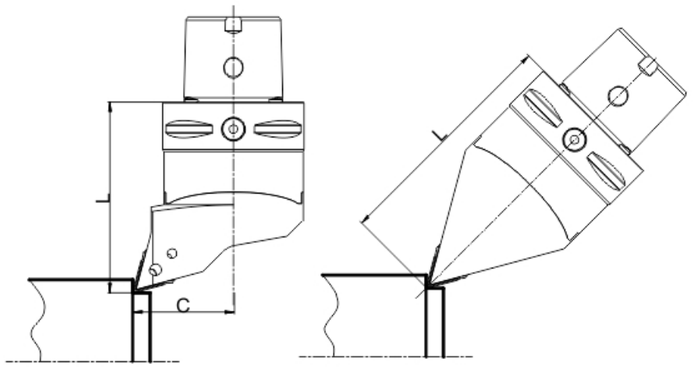


訂貨型號 Order Code	C	L	L型勾 Lever	鎖緊螺絲 Lock Screw	墊片 Shim	C型環 Cshaped washer	扳手 Wrench
PDNNR-3050-15-DX	30	50	174.3-847	174.3-821	171.35-851	174.3-861	L3
PDNNR-5060-15-CX	50	60					

MTJN

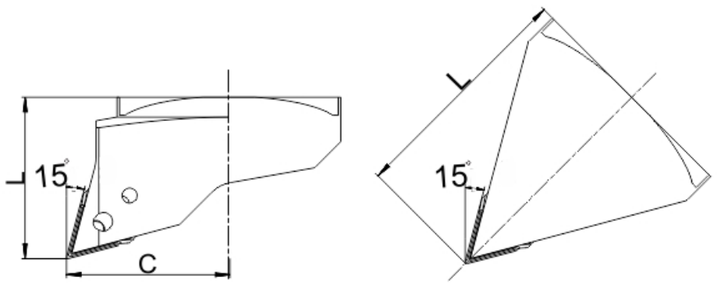
TN□ □1604□ □





訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
C5–MTJNR–F16–DX	45	85	C5–DXCDB–40	MTJNR–4545–16–DX	1.5
C6–MTJNR–F16–DX	45	85	C6–DXCDB–40		2.3
C5–MTJNR–K16–DX	45	125	C5–DXCDB–80		1.7
C6–MTJNR–K16–DX	45	125	C6–DXCDB–80		2.5
C5–MTJNR–HK16–CX	0	105	C5–DXCDB–40	MTJNR–0065–16–CX	1.5
C6–MTJNR–HK16–CX	0	105	C6–DXCDB–40		2.3
C5–MTJNR–LX16–CX	0	145	C5–DXCDB–80		1.7
C6–MTJNR–LX16–CX	0	145	C6–DXCDB–80		2.6



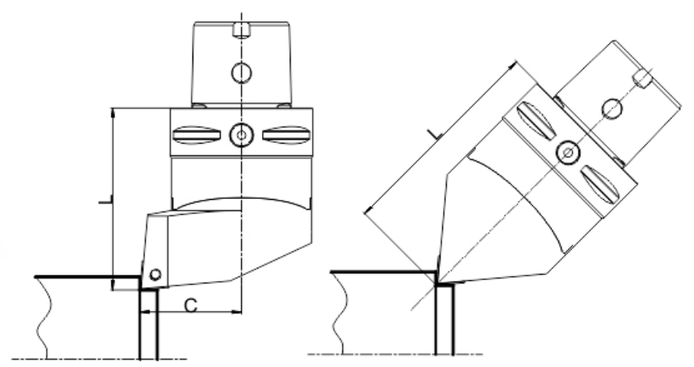


訂貨型號 Order Code	C	L	墊片 Shim	鎖緊螺絲 Lock Screw	中心銷 Pin	側固螺絲 Side Screw	扳手 Wrench
MTJNR–4545–16–DX	45	45	170.3–851	170.38–820–1	170.3–870	170.38–845	L4
MTJNR–0065–16–CX	0	65					

SCLC

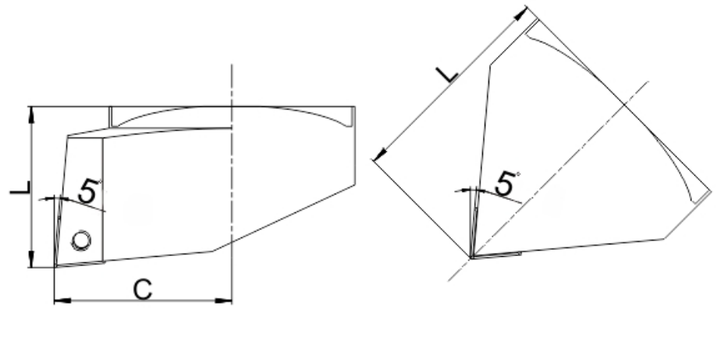
CC□ □1204□ □





訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
C5–SCLCR–F12–DX	45	80	C5–DXCDB–40	SCLCR–4540–12–DX	1.5
C6–SCLCR–F12–DX	45	80	C6–DXCDB–40		2.3
C5–SCLCR–JX12–DX	45	120	C5–DXCDB–80		1.7
C6–SCLCR–JX12–DX	45	120	C6–DXCDB–80		2.6
C5–SCLCR–GX12–CX	0	95	C5–DXCDB–40	SCLCR–0055–12–CX	1.5
C6–SCLCR–GX12–CX	0	95	C6–DXCDB–40		2.3
C5–SCLCR–KXX12–CX	0	135	C5–DXCDB–80		1.7
C6–SCLCR–KXX12–CX	0	135	C6–DXCDB–80		2.5



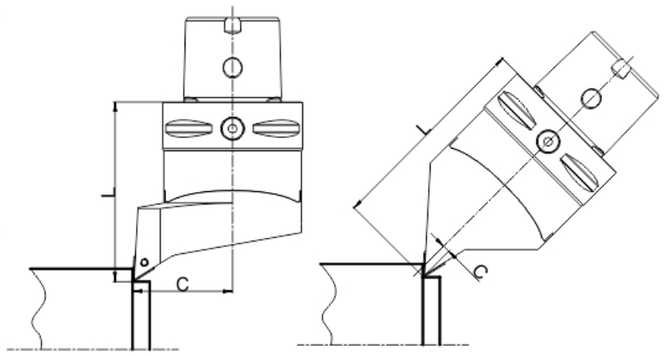


訂貨型號 Order Code	C	L	鎖緊螺絲 Lock Screw	扳手 Wrench
SCLCR–4540–12–DX	45	40	CSTB–5	T–20
SCLCR–0055–12–CX	0	55		

SDJC

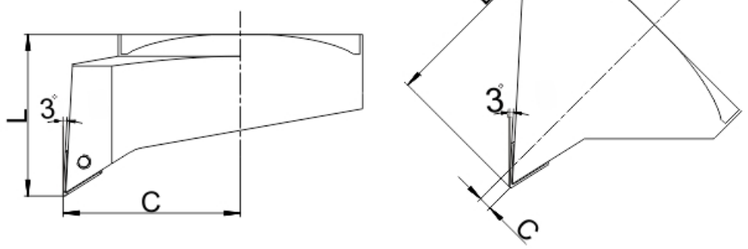
DC□ □11T3□ □





訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
C5-SDJCR-F11-DX	45	80	C5-DXCDB-40	SDJCR-4540-11-DX	1.4
C6-SDJCR-F11-DX	45	80	C6-DXCDB-40		2.2
C5-SDJCR-JX11-DX	45	120	C5-DXCDB-80		1.6
C6-SDJCR-JX11-DX	45	120	C6-DXCDB-80		2.5
C5-SDJCR-GX11-CX	3	95	C5-DXCDB-40	SDJCR-0355-11-CX	1.4
C6-SDJCR-GX11-CX	3	95	C6-DXCDB-40		2.2
C5-SDJCR-KXX11-CX	3	135	C5-DXCDB-80		1.6
C6-SDJCR-KXX11-CX	3	135	C6-DXCDB-80		2.5



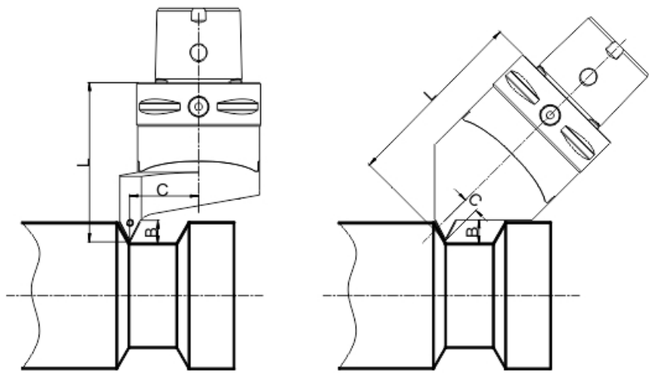


訂貨型號 Order Code	C	L	鎖緊螺絲 Lock Screw	扳手 Wrench
SDJCR-4540-11-DX	45	40	CSTB-4	T-15
SDJCR-0355-11-CX	3	55		

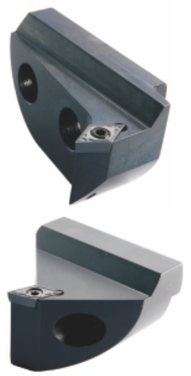
SDNC

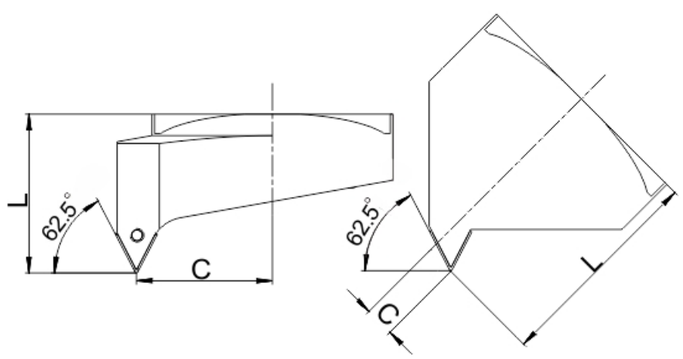
DC□ □11T3□ □





訂貨型號 Order Code	C	L	B	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
C5-SDNCN-F11-DX	35	80	10	C5-DXCDB-40	SDNCN-3540-11-DX	1.4
C6-SDNCN-F11-DX	35	80		C6-DXCDB-40		2.2
C5-SDNCN-JX11-DX	35	120		C5-DXCDB-80		1.6
C6-SDNCN-JX11-DX	35	120		C6-DXCDB-80		2.4
C5-SDNCN-GX11-CX	7	95		C5-DXCDB-40	SDNCN-0755-11-CX	1.5
C6-SDNCN-GX11-CX	7	95		C6-DXCDB-40		2.3
C5-SDNCN-KXX11-CX	7	135		C5-DXCDB-80		1.7
C6-SDNCN-KXX11-CX	7	135		C6-DXCDB-80		2.5





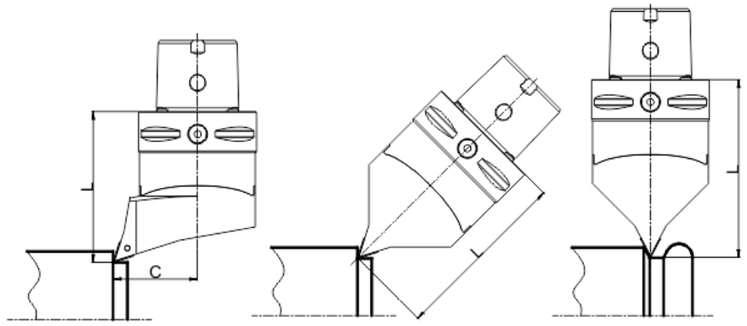
訂貨型號 Order Code	C	L	鎖緊螺絲 Lock Screw	扳手 Wrench
SDNCN-3540-11-DX	35	40	CSTB-4	T-15
SDNCN-0755-11-CX	7	55		

SDQC

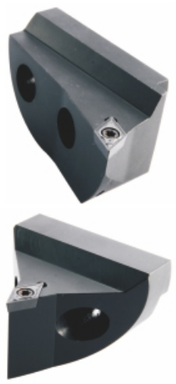


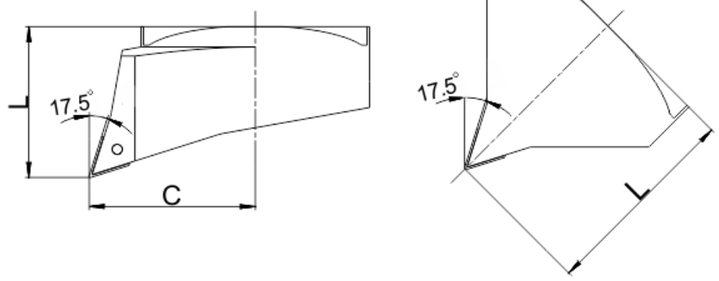
DC□ □11T3□ □





訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
C5–SDQCR–F11–DX	45	80	C5–DXCDB–40	SDQCR–4540–11–DX	1.4
C6–SDQCR–F11–DX	45	80	C6–DXCDB–40		2.2
C5–SDQCR–JX11–DX	45	120	C5–DXCDB–80		1.6
C6–SDQCR–JX11–DX	45	120	C6–DXCDB–80		2.5
C5–SDQCR–GX11–CX	0	95	C5–DXCDB–40	SDQCR–0055–11–CX	1.4
C6–SDQCR–GX11–CX	0	95	C6–DXCDB–40		2.2
C5–SDQCR–KXX11–CX	0	135	C5–DXCDB–80		1.6
C6–SDQCR–KXX11–CX	0	135	C6–DXCDB–80		2.5





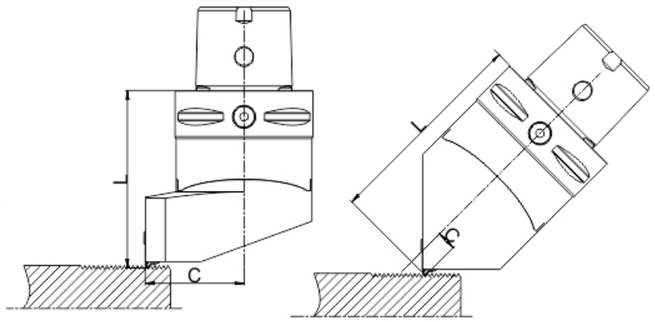
訂貨型號 Order Code	C	L	鎖緊螺絲 Lock Screw	扳手 Wrench
SDQCR–4540–11–DX	45	40	CSTB–4	T–15
SDQCR–0055–11–CX	0	55		

SER



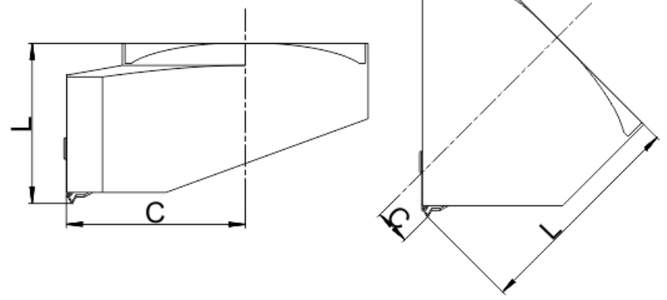
ISO 16ER





訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
C5–SER–F16–DX	45	80	C5–DXCDB–40	SER–4540–16–DX	1.5
C6–SER–F16–DX	45	80	C6–DXCDB–40		2.3
C5–SER–JX16–DX	45	120	C5–DXCDB–80		1.7
C6–SER–JX16–DX	45	120	C6–DXCDB–80		2.3
C5–SER–GX16–CX	9	95	C5–DXCDB–40	SER–0955–16–CX	1.5
C6–SER–GX16–CX	9	95	C6–DXCDB–40		2.3
C5–SER–KXX16–CX	9	135	C5–DXCDB–80		1.7
C6–SER–KXX16–CX	9	135	C6–DXCDB–80		2.5



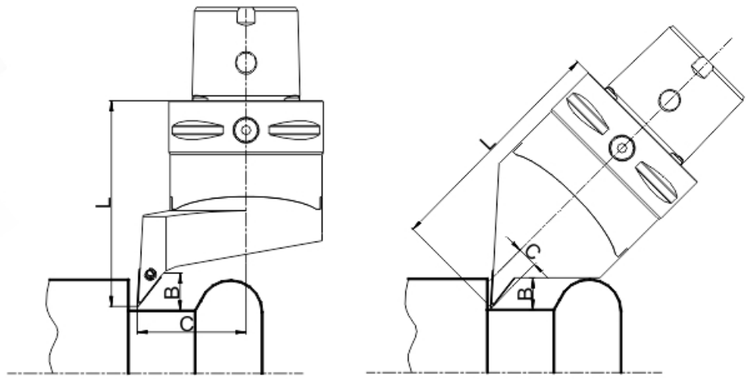


訂貨型號 Order Code	C	L	墊片 Shim	鎖緊螺絲 Lock Screw	側固螺絲 Side Screw	扳手 Wrench
SER–4540–16–DX	45	40	AE16	CSTB–3.5	M3 × 0.5	L2.5 T–15
SER–0955–16–CX	9	55				

SVJC

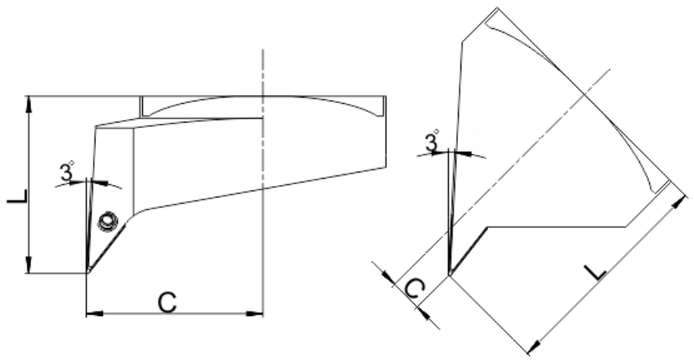
VC□ □1604□ □





訂貨型號 Order Code	C	L	B	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
C5-SVJCR-FX16-DX	45	85	12	C5-DXCDB-40	SVJCR-4545-16-DX	1.4
C6-SVJCR-FX16-DX	45	85		C6-DXCDB-40		2.2
C5-SVJCR-K16-DX	45	125		C5-DXCDB-80		1.6
C6-SVJCR-K16-DX	45	125		C6-DXCDB-80		2.4
C5-SVJCR-GX16-CX	8	95		C5-DXCDB-40	SVJCR-0855-16-CX	1.4
C6-SVJCR-GX16-CX	8	95		C6-DXCDB-40		2.2
C5-SVJCR-KXX16-CX	8	135		C5-DXCDB-80		1.6
C6-SVJCR-KXX16-CX	8	135		C6-DXCDB-80		2.5



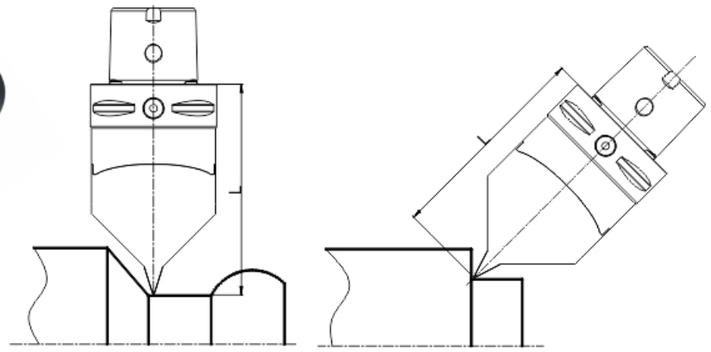


訂貨型號 Order Code	C	L	墊片 Shim	鎖緊螺絲 Lock Screw	墊片螺絲 Shim Screw	扳手 Wrench
SVJCR-4545-16-DX	45	45	SSV32	CSTB-3.5LP	DTS5-3.5	L3.5 T-15
SVJCR-0855-16-CX	8	55				

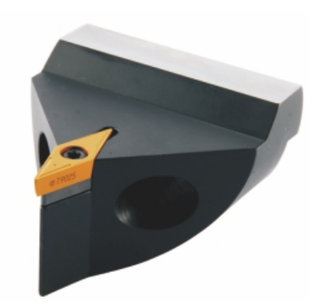
SVQC

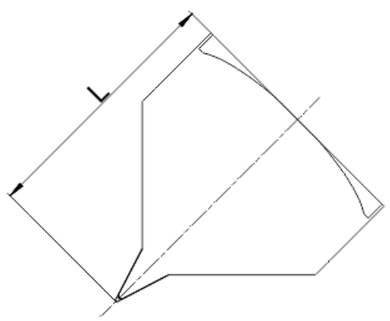
VC□ □1604□ □





訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
C5-SVQCR-HX16-CX	0	105	C5-DXCDB-40	SVQCR-0065-16S-CX	1.5
C6-SVQCR-HX16-CX	0	105	C6-DXCDB-40		2.3
C5-SVQCR-LX16-CX	0	145	C5-DXCDB-80		1.7
C6-SVQCR-LX16-CX	0	145	C6-DXCDB-80		2.6

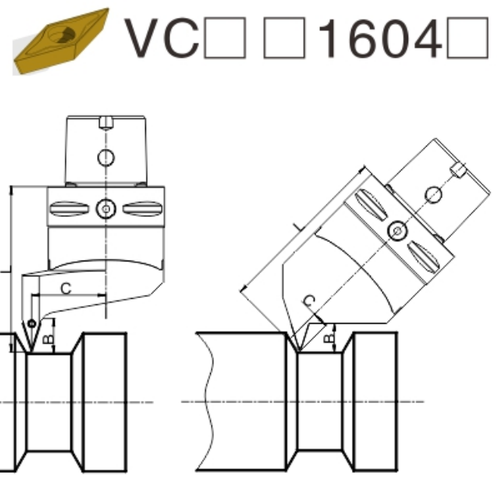




訂貨型號 Order Code	C	L	墊片 Shim	鎖緊螺絲 Lock Screw	側固螺絲 Side Screw	扳手 Wrench
SVQCR-0065-16S-CX	0	65	SSV32	CSTB-3.5LP	DTS5-3.5	L3.5 T-15

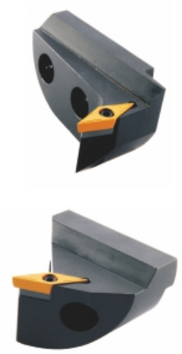
SVVC

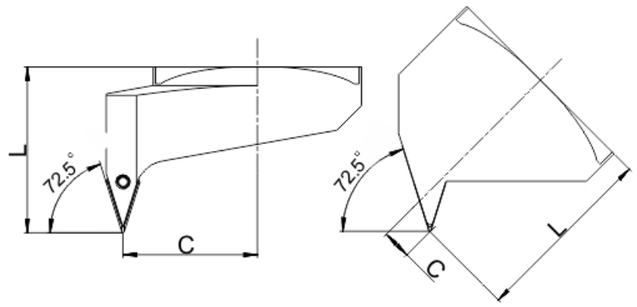




VC□ □1604□ □

訂貨型號 Order Code	C	L	B	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
C5-SVVCN-G16-DX	40	90	14	C5-DXCDB-40	SVVCN-4050-16-DX	1.4
C6-SVVCN-G16-DX	40	90		C6-DXCDB-40		2.2
C5-SVVCN-KXX16-DX	40	130		C5-DXCDB-80		1.6
C6-SVVCN-KXX16-DX	40	130		C6-DXCDB-80		2.5
C5-SVVCN-GX16-CX	9	95		C5-DXCDB-40	SVVCN-0955-16-CX	1.4
C6-SVVCN-GX16-CX	9	95		C6-DXCDB-40		2.2
C5-SVVCN-KXX16-CX	9	135		C5-DXCDB-80		1.6
C6-SVVCN-KXX16-CX	9	135		C6-DXCDB-80		2.5

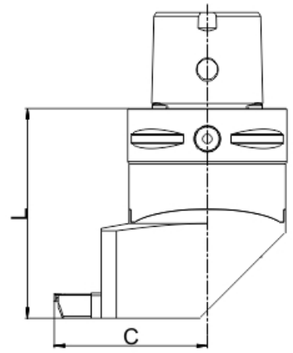




訂貨型號 Order Code	C	L	墊片 Shim	鎖緊螺絲 Lock Screw	墊片螺絲 Shim Screw	扳手 Wrench
SVVCN-4050-16-DX	40	50	SSV32	CSTB-3.5LP	DTS5-3.5	L3.5 T-15
SVVCN-0955-16-CX	9	55				

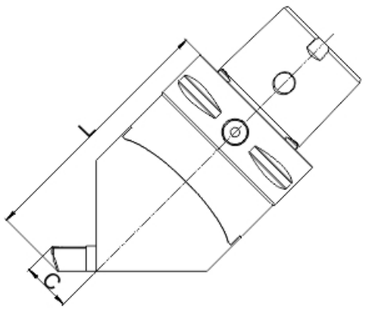
DMCD



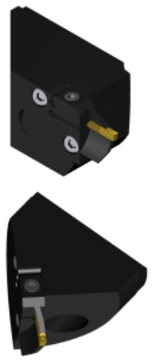


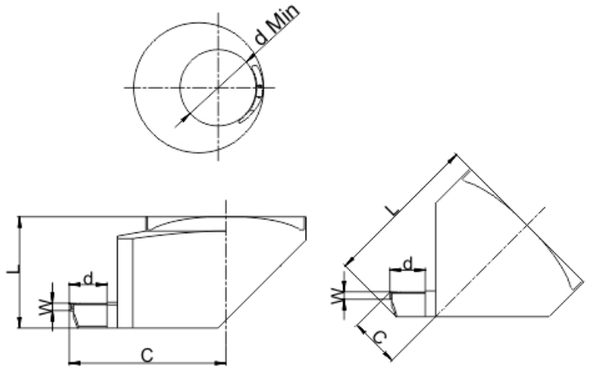


A4..03..



訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
C5-DMCD-FX3-DX	60	85	C5-DXCDB-40	DMCD-6045-3-DX	1.7
C6-DMCD-FX3-DX	60	85	C6-DXCDB-40		2.5
C5-DMCD-K3-DX	60	125	C5-DXCDB-80		1.9
C6-DMCD-K3-DX	60	125	C6-DXCDB-80		2.7
C5-DMCD-H3-CX	19	100	C5-DXCDB-40	DMCD-1960-3-CX	1.5
C6-DMCD-H3-CX	19	100	C6-DXCDB-40		2.3
C5-DMCD-L3-CX	19	140	C5-DXCDB-80		1.7
C6-DMCD-L3-CX	19	140	C6-DXCDB-80		2.6



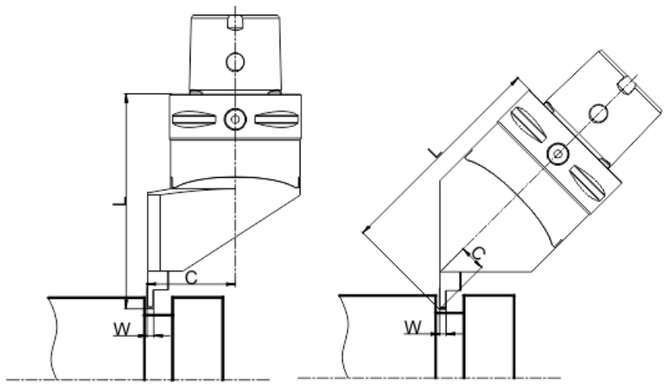


訂貨型號 Order Code	C	L	W	d	適用刀夾 Suitable Cutter Holder	鎖緊螺絲 Lock Screw	扳手 Wrench
DMCD-6045-3-DX	60	45	3	17	A4DR3	M5-16 M4-12	L3,L4
DMCD-1960-3-CX	19	60	3	17			

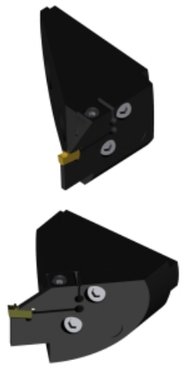
WJCD

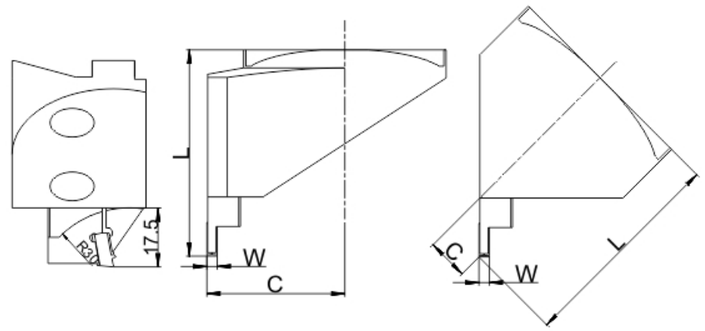
A3..03..





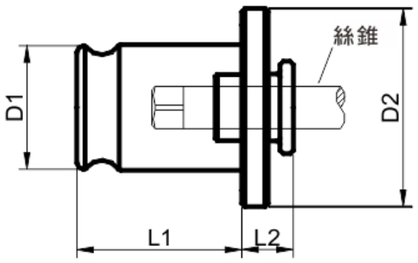
訂貨型號 Order Code	C	L	刀柄型號 Shank Model	刀頭型號 Head Type	重量(Kg) Weight
C5-WJCD-H3-DX	45	100	C5-DXCDB-40	WJCD-4560-3-DX	1.6
C6-WJCD-H3-DX	45	100	C6-DXCDB-40		2.4
C5-WJCD-L3-DX	45	140	C5-DXCDB-80		1.8
C6-WJCD-L3-DX	45	140	C6-DXCDB-80		2.6
C5-WJCD-HX3-CX	12	105	C5-DXCDB-40	WJCD-1265-3-CX	1.5
C6-WJCD-HX3-CX	12	105	C6-DXCDB-40		2.3
C5-WJCD-LX3-CX	12	145	C5-DXCDB-80		1.7
C6-WJCD-LX3-CX	12	145	C6-DXCDB-80		2.6





訂貨型號 Order Code	C	L	W	d	適用刀夾 Suitable Cutter Holder	鎖緊螺絲 Lock Screw	扳手 Wrench
WJCD-4560-3-DX	45	60	3	17	A4DR3	M5-16 M4-12	L3,L4
WJCD-1265-3-CX	12	65	3	17			





筒夾型號 collet type	øD1	øD2	L1	L2
TC312R	19	30	21.5	7
TC820R	31	48	35	11

絲錐規格及適用的訂貨型號
The tap model and its suitable order code

訂貨型號 Order Code		JIS絲錐規格 JIS tap model				絲錐尺寸 tap size 柄徑 diameter	絲錐尺寸 tap size 方孔 square
TC312R-JIS-M3		M3		#5,#6		4	3.2
TC312R-JIS-M4		M4	M4.5	#8		5	4
TC312R-JIS-M5		M5	M5.5	#10		5.5	4.5
TC312R-JIS-M6		M6		UNC 1/4		6	4.5
TC312R-JIS-UNC5/16※				UNC 5/16		6.1	5
TC312R-JIS-M8	TC820R-JIS-M8	M8	M7			6.2	5
TC312R-JIS-M10	TC820R-JIS-M10	M10	M9	UNC 3/8		7	5.5
TC312R-JIS-M11※	TC820R-JIS-M11※		M11	UNC 7/16	PT 1/8	8	6
TC312R-JIS-M12	TC820R-JIS-M12	M12				8.5	6.5
TC312R-JIS-UNC1/2※	TC820R-JIS-UNC1/2※			UNC 1/2		9	7
	TC820R-JIS-M14	M14	M15	UNC 9/16		10.5	8
	TC820R-JIS-PT1/4※				PT 1/4	11	9
	TC820R-JIS-UNC5/8※			UNC 5/8		12	9
	TC820R-JIS-M16	M16				12.5	10
	TC820R-JIS-M18	M18		UNC 3/4	PT 3/8	14	11
	TC820R-JIS-M20	M20				15	12

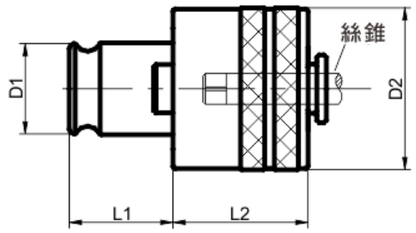
訂貨型號 Order Code		ISO絲錐規格 iso tap model				絲錐尺寸 tap size 柄徑 diameter	絲錐尺寸 tap size 方孔 square
TC312R-ISO-M3		M3				2.24	1.8
TC312R-ISO-M4		M4				3.15	2.5
TC312R-ISO-M5		M5				4.0	3.15
TC312R-ISO-M6		M6				4.5	3.55
TC312R-ISO-M8	TC820R-ISO-M8	M8				6.3	5
TC312R-ISO-M10	TC820R-ISO-M10	M10				8	6.3
TC312R-ISO-M12	TC820R-ISO-M12	M12				9	7.1
	TC820R-ISO-M14	M14				11.2	9
	TC820R-ISO-M16	M16				12.5	10
	TC820R-ISO-M20	M18	M20			14	11.2
	TC820R-ISO-M22※	M22				16	12.5

★ 套裝中不含帶“※”的規格
The “※” model is not in the whole set

快換式扭力絲攻筒夾
QUICK CHANGE TAP COLLETS (With Overload Clutch)

Evermore®





筒夾型號 collet type	øD1	øD2	L1	L2
TC312	19	30	21.5	28
TC820	31	48	35	33

絲錐規格及適用的訂貨型號
The tap model and its suitable order code

訂貨型號 Order Code		JIS絲錐規格 JIS tap model				絲錐尺寸 tap size 柄徑 diameter	絲錐尺寸 tap size 方孔 square
TC312-JIS-M3		M3		#5,#6		4	3.2
TC312-JIS-M4		M4	M4.5	#8		5	4
TC312-JIS-M5		M5	M5.5	#10		5.5	4.5
TC312-JIS-M6		M6		UNC 1/4		6	4.5
TC312-JIS-UNC5/16※				UNC 5/16		6.1	5
TC312-JIS-M8	TC820-JIS-M8	M8	M7			6.2	5
TC312-JIS-M10	TC820-JIS-M10	M10	M9	UNC 3/8		7	5.5
TC312-JIS-M11※	TC820-JIS-M11※		M11	UNC 7/16	PT1/8	8	6
TC312-JIS-M12	TC820-JIS-M12	M12				8.5	6.5
TC312-JIS-UNC1/2※	TC820-JIS-UNC1/2※			UNC 1/2		9	7
	TC820-JIS-M14	M14	M15	UNC 9/16		10.5	8
	TC820-JIS-PT1/4※				PT1/4	11	9
	TC820-JIS-UNC5/8※			UNC 5/8		12	9
	TC820-JIS-M16	M16				12.5	10
	TC820-JIS-M18	M18		UNC 3/4	PT3/8	14	11
	TC820-JIS-M20	M20				15	12

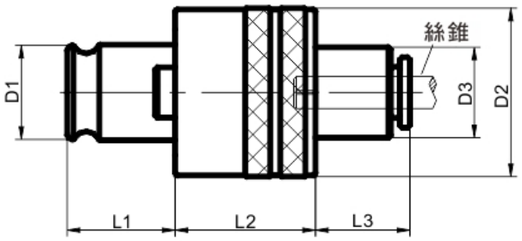
訂貨型號 Order Code		ISO絲錐規格 iso tap model				絲錐尺寸 tap size 柄徑 diameter	絲錐尺寸 tap size 方孔 square
TC312-ISO-M3		M3				2.24	1.8
TC312-ISO-M4		M4				3.15	2.5
TC312-ISO-M5		M5				4.0	3.15
TC312-ISO-M6		M6				4.5	3.55
TC312-ISO-M8	TC820-ISO-M8	M8				6.3	5
TC312-ISO-M10	TC820-ISO-M10	M10				8	6.3
TC312-ISO-M12	TC820-ISO-M12	M12				9	7.1
	TC820-ISO-M14	M14				11.2	9
	TC820-ISO-M16	M16				12.5	10
	TC820-ISO-M20	M18	M20			14	11.2
	TC820-ISO-M22※	M22				16	12.5

★ 套裝中不含帶“※”的規格
The “※” model is not in the whole set

加長型快換式扭力絲攻筒夾
EXTENSION TYPE QUICK CHANGE TAP COLLETS (With Overload Clutch)

Evermore®





筒夾型號 collet type	訂貨型號 Order Code	øD1	øD2	øD3	L1	L2	L3
TC312L	M3	19	33	15	21.5	28	20
TC312L	M3~UNC1/2	19	33	18	21.5	28	20
TC820L	M8~UNC1/2	31	51	18	35	33	20
TC820L	M14~M22	31	51	29	35	33	20

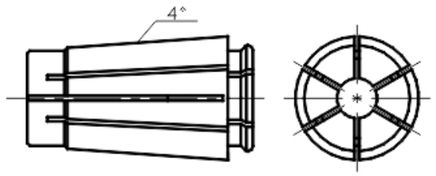
絲錐規格及適用的訂貨型號
The tap model and its suitable order code

訂貨型號 Order Code		JIS絲錐規格 JIS tap model				絲錐尺寸 tap size 柄徑 diameter	絲錐尺寸 tap size 方孔 square
TC312L-JIS-M3		M3		#5,#6		4	3.2
TC312L-JIS-M4		M4	M4.5	#8		5	4
TC312L-JIS-M5		M5	M5.5	#10		5.5	4.5
TC312L-JIS-M6		M6		UNC 1/4		6	4.5
TC312L-JIS-UNC5/16※				UNC 5/16		6.1	5
TC312L-JIS-M8	TC820L-JIS-M8	M8	M7			6.2	5
TC312L-JIS-M10	TC820L-JIS-M10	M10	M9	UNC 3/8		7	5.5
TC312L-JIS-M11※	TC820L-JIS-M11※		M11	UNC 7/16	PT1/8	8	6
TC312L-JIS-M12	TC820L-JIS-M12	M12				8.5	6.5
TC312L-JIS-UNC1/2※	TC820L-JIS-UNC1/2※			UNC 1/2		9	7
	TC820L-JIS-M14	M14	M15	UNC 9/16		10.5	8
	TC820L-JIS-PT1/4※				PT1/4	11	9
	TC820L-JIS-UNC5/8※			UNC 5/8		12	9
	TC820L-JIS-M16	M16				12.5	10
	TC820L-JIS-M18	M18		UNC 3/4	PT3/8	14	11
	TC820L-JIS-M20	M20				15	12

訂貨型號 Order Code		ISO絲錐規格 iso tap model				絲錐尺寸 tap size 柄徑 diameter	絲錐尺寸 tap size 方孔 square
TC312L-ISO-M3		M3				2.24	1.8
TC312L-ISO-M4		M4				3.15	2.5
TC312L-ISO-M5		M5				4.0	3.15
TC312L-ISO-M6		M6				4.5	3.55
TC312L-ISO-M8	TC820L-ISO-M8	M8				6.3	5
TC312L-ISO-M10	TC820L-ISO-M10	M10				8	6.3
TC312L-ISO-M12	TC820L-ISO-M12	M12				9	7.1
	TC820L-ISO-M14	M14				11.2	9
	TC820L-ISO-M16	M16				12.5	10
	TC820L-ISO-M20	M18	M20			14	11.2
	TC820L-ISO-M22※	M22				16	12.5

★ 套裝中不含帶“※”的規格
The “※” model is not in the whole set





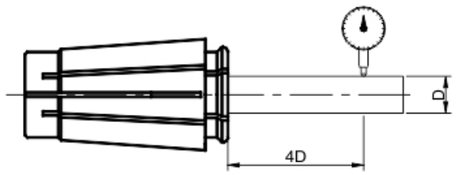
SD06	SD10	SD16		SD20	SD25
訂貨型號 Order Code	訂貨型號 Order Code	訂貨型號 Order Code		訂貨型號 Order Code	訂貨型號 Order Code
SD06-2E	SD10-2E	SD16-3E	SD16-10E	SD20-4E	SD25-6E
SD06-3E	SD10-3E	SD16-4E	SD16-11E	SD20-5E	SD25-8E
SD06-4E	SD10-4E	SD16-5E	SD16-12E	SD20-6E	SD25-10E
SD06-5E	SD10-5E	SD16-6E	SD16-13E	SD20-8E	SD25-12E
SD06-6E	SD10-6E	SD16-7E	SD16-14E	SD20-10E	SD25-16E
	SD10-7E	SD16-8E	SD16-15E	SD20-12E	SD25-20E
	SD10-8E	SD16-9E	SD16-16E	SD20-16E	SD25-25E
	SD10-9E			SD20-20E	
	SD10-10E				

當用於夾持立銑刀時，請選用E型SD筒夾，銑刀柄部公差等級應高h8

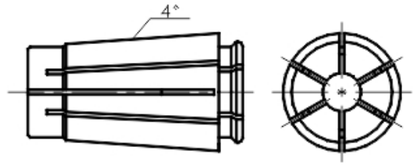
When clamping end mill,Please use E type SD collet,the diameter tolerance of the end mill must be higher than h8 grade.

SD精密筒夾精度表
Accuracy table for SD precision collets

筒夾等級 COLLET LEVEL	跳動精度 RUNOUT
AA	0.007
A	0.01





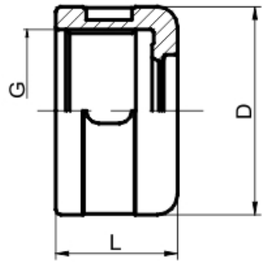


SD06		SD16		SD20		SD25	
訂貨型號 Order Code	夾持範圍Ød Clamping range	訂貨型號 Order Code	夾持範圍Ød Clamping range	訂貨型號 Order Code	夾持範圍Ød Clamping range	訂貨型號 Order Code	夾持範圍Ød Clamping range
SD06-2.0	1.75~2.0	SD16-3.0	2.75~3.0	SD20-4.0	3.5~4.0	SD25-6.0	5.5~6.0
SD06-2.25	2.0~2.25	SD16-3.5	3.0~3.5	SD20-4.5	4.0~4.5	SD25-8.0	7.5~8.0
SD06-2.5	2.25~2.5	SD16-4.0	3.5~4.0	SD20-5.0	4.5~5.0	SD25-10.0	9.5~10.0
SD06-2.75	2.5~2.75	SD16-4.5	4.0~4.5	SD20-5.5	5.0~5.5	SD25-12.0	11.5~12.0
SD06-3.0	2.75~3.0	SD16-5.0	4.5~5.0	SD20-6.0	5.5~6.0	SD25-16.0	15.5~16.0
SD06-3.5	3.0~3.5	SD16-5.5	5.0~5.5	SD20-6.5	6.0~6.5	SD25-16.5	16.0~16.5
SD06-4.0	3.5~4.0	SD16-6.0	5.5~6.0	SD20-7.0	6.5~7.0	SD25-17.0	16.5~17.0
SD06-4.5	4.0~4.5	SD16-6.5	6.0~6.5	SD20-7.5	7.0~7.5	SD25-17.5	17.0~17.5
SD06-5.0	4.5~5.0	SD16-7.0	6.5~7.0	SD20-8.0	7.5~8.0	SD25-18.0	17.5~18.0
SD06-5.5	5.0~5.5	SD16-7.5	7.0~7.5	SD20-8.5	8.0~8.5	SD25-18.5	18.0~18.5
SD06-6.0	5.5~6.0	SD16-8.0	7.5~8.0	SD20-9.0	8.5~9.0	SD25-19.0	18.5~19.0
SD10		SD16-8.5	8.0~8.5	SD20-9.5	9.0~9.5	SD25-19.5	19.0~19.5
		SD16-9.0	8.5~9.0	SD20-10.0	9.5~10.0	SD25-20.0	19.5~20.0
訂貨型號 Order Code	夾持範圍Ød Clamping range	SD16-9.5	9.0~9.5	SD20-10.5	10.0~10.5	SD25-20.5	20.0~20.5
SD10-2.0	1.75~2.0	SD16-10.0	9.5~10.0	SD20-11.0	10.5~11.0	SD25-21.0	20.5~21.0
SD10-2.25	2.0~2.25	SD16-10.5	10.0~10.5	SD20-11.5	11.0~11.5	SD25-21.5	21.0~21.5
SD10-2.5	2.25~2.5	SD16-11.0	10.5~11.0	SD20-12.0	11.5~12.0	SD25-22.0	21.5~22.0
SD10-2.75	2.5~2.75	SD16-11.5	11.0~11.5	SD20-12.5	12.0~12.5	SD25-22.5	22.0~22.5
SD10-3.0	2.75~3.0	SD16-12.0	11.5~12.0	SD20-13.0	12.5~13.0	SD25-23.0	22.5~23.0
SD10-3.5	3.0~3.5	SD16-12.5	12.0~12.5	SD20-13.5	13.0~13.5	SD25-23.5	23.0~23.5
SD10-4.0	3.5~4.0	SD16-13.0	12.5~13.0	SD20-14.0	13.5~14.0	SD25-24.0	23.5~24.0
SD10-4.5	4.0~4.5	SD16-13.5	13.0~13.5	SD20-14.5	14.0~14.5	SD25-24.5	24.0~24.5
SD10-5.0	4.5~5.0	SD16-14.0	13.5~14.0	SD20-15.0	14.5~15.0	SD25-25.0	24.5~25.0
SD10-5.5	5.0~5.5	SD16-14.5	14.0~14.5	SD20-15.5	15.0~15.5	SD25-25.4	25.0~25.4
SD10-6.0	5.5~6.0	SD16-15.0	14.5~15.0	SD20-16.0	15.5~16.0		
SD10-6.5	6.0~6.5	SD16-15.5	15.0~15.5	SD20-16.5	16.0~16.5		
SD10-7.0	6.5~7.0	SD16-16.0	15.5~16.0	SD20-17.0	16.5~17.0		
SD10-7.5	7.0~7.5			SD20-17.5	17.0~17.5		
SD10-8.0	7.5~8.0			SD20-18.0	17.5~18.0		
SD10-8.5	8.0~8.5			SD20-18.5	18.0~18.5		
SD10-9.0	8.5~9.0			SD20-19.0	18.5~19.0		
SD10-9.5	9.0~9.5			SD20-19.5	19.0~19.5		
SD10-10.0	9.5~10.0			SD20-20.0	19.5~20.0		

SD 螺母
SD CLAMPING NUTS

Evermore®

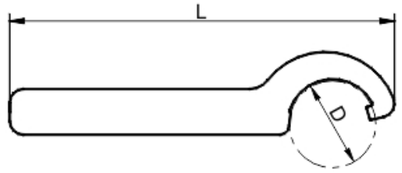




訂貨型號 Order Code	ØD	L	G
CN–SD06	20	15	M14×1.0
–SD10	29	17	M21.5×1.0
–SD16	41	24	M32×1.5
–SD20	50	24	M40×1.5
–SD25	55	25	M45×1.5

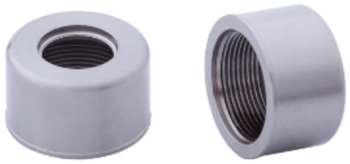
SD 扳手
SD SPANNER

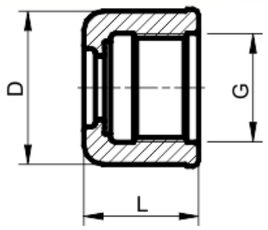




訂貨型號 Order Code	L	ØD
SP–SD06	120	20
–SD10	150	29
–SD16	170	41
–SD20	180	50
–SD25	190	55

SDP 螺母
SDP CLAMPING NUTS



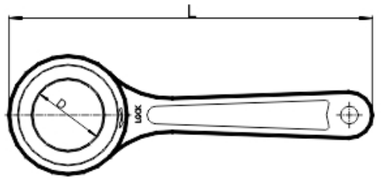


訂貨型號 Order Code	ØD	L	G
CN–SDP06	20	15	M14×1.0
–SDP10	30	17	M21.5×1.0
–SDP16	40	24	M32×1.5
–SDP20	50	24	M40×1.5
–SDP25	55	25	M45×1.5

SDP 扳手
SDP SPANNER

Evermore®

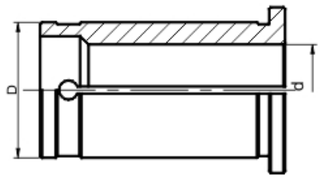




訂貨型號 Order Code	L	ØD
SP–SDP06	127	20
–SDP10	165	30
–SDP16	207	40
–SDP20	242	50
–SDP25	295	55

EMC 彈力筒夾
EMC MILLING COLLETS

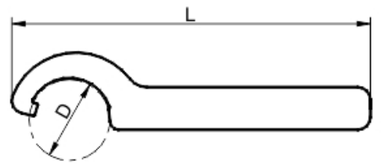




C20			C32			C42		
訂貨型號 Order Code	Ød	ØD	訂貨型號 Order Code	Ød	ØD	訂貨型號 Order Code	Ød	ØD
C20–06	6	20	C32–06	6	32	C42–06	6	42
–08	8		–08	8		–08	8	
–10	10		–10	10		–10	10	
–12	12		–12	12		–12	12	
–14	14		–14	14		–14	14	
–16	16		–16	16		–16	16	
			–20	20		–20	20	
			–25	25		–25	25	
						–32	32	

EMC 扳手
EMC SPANNER



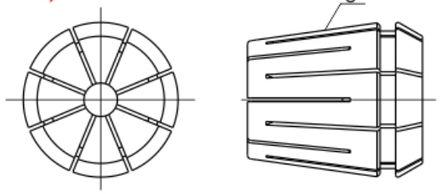


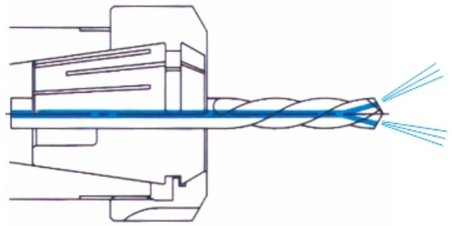
訂貨型號 Order Code	ØD	L
SP–EMC20	51	215
–EMC32	70	265
–EMC42	86	270

ER-DM 彈性中心出水筒夾
ER-DM METALLIC SEALED SPRING COLLETS

Evermore®

中心出水
Coolant Through



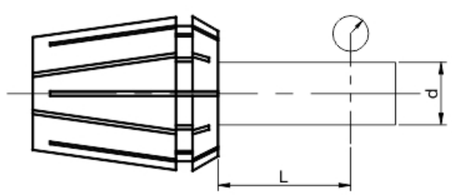


註：夾持刀具長度必須大於筒夾有效夾持長度

ER11-DM		ER20-DM		ER25-DM		ER32-DM		ER40-DM	
訂貨型號 Ordercode	夾持範圍 Clamping range	訂貨型號 Ordercode	夾持範圍 Clamping range	訂貨型號 Ordercode	夾持範圍 Clamping range	訂貨型號 Ordercode	夾持範圍 Clamping range	訂貨型號 Ordercode	夾持範圍 Clamping range
ER11-3DM	3.00-2.75	ER20-3DM	Ø3.00 h9	ER25-6DM	Ø6.00 h9	ER32-6DM	Ø6.00 h9	ER40-6DM	Ø6.00 h9
ER11-4DM	4.00-3.75	ER20-4DM	Ø4.00 h9	ER25-7DM	Ø7.00 h9	ER32-7DM	Ø7.00 h9	ER40-8DM	Ø8.00 h9
ER11-5DM	5.00-4.75	ER20-5DM	Ø5.00 h9	ER25-8DM	8.00-7.50	ER32-8DM	8.00-7.50	ER40-10DM	10.00-9.50
ER11-6DM	6.00-5.75	ER20-6DM	Ø6.00 h9	ER25-9DM	9.00-8.50	ER32-9DM	9.00-8.50	ER40-11DM	11.00-10.50
ER11-7DM	7.00-6.75	ER20-7DM	7.00-6.50	ER25-10DM	10.00-9.50	ER32-10DM	10.00-9.50	ER40-12DM	12.00-11.50
		ER20-8DM	8.00-7.50	ER25-11DM	11.00-10.50	ER32-11DM	11.00-10.50	ER40-13DM	13.00-12.50
		ER20-9DM	9.00-8.50	ER25-12DM	12.00-11.50	ER32-12DM	12.00-11.50	ER40-14DM	14.00-13.50
		ER20-10DM	10.00-9.50	ER25-13DM	13.00-12.50	ER32-13DM	13.00-12.50	ER40-15DM	15.00-14.50
ER16-DM		ER20-11DM	11.00-10.50	ER25-14DM	14.00-13.50	ER32-14DM	14.00-13.50	ER40-16DM	16.00-15.50
訂貨型號 Ordercode	夾持範圍 Clamping range	ER20-12DM	12.00-11.50	ER25-15DM	15.00-14.50	ER32-15DM	15.00-14.50	ER40-17DM	17.00-16.50
ER16-3DM	Ø3.00 h9	ER20-13DM	13.00-12.50	ER25-16DM	16.00-15.50	ER32-16DM	16.00-15.50	ER40-18DM	18.00-17.50
ER16-4DM	Ø4.00 h9					ER32-17DM	17.00-16.50	ER40-19DM	19.00-18.50
ER16-5DM	5.00-4.50					ER32-18DM	18.00-17.50	ER40-20DM	20.00-19.50
ER16-6DM	6.00-5.50					ER32-19DM	19.00-18.50	ER40-21DM	21.00-20.50
ER16-7DM	7.00-6.50					ER32-20DM	20.00-19.50	ER40-22DM	22.00-21.50
ER16-8DM	8.00-7.50							ER40-23DM	23.00-22.50
ER16-9DM	9.00-8.50							ER40-24DM	24.00-23.50
ER16-10DM	10.00-9.50							ER40-25DM	25.00-24.50
								ER40-26DM	26.00-25.50

ER筒夾精度表
Accuracy table for ER-DM collets

夾持範圍 Ød	檢測長度 L
1.0~1.6	6
1.6~3.0	10
3.0~6.0	16
6.0~10.0	25
10.0~18.0	40
18.0~26.0	50
26.0~34.0	60

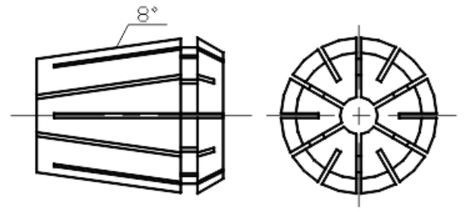


筒夾等級 COLLET LEVEL	跳動精度 RUNOUT
AA	<0.01
A	0.01~0.02

ER 彈性筒夾
ER SPRING COLLETS

Evermore®

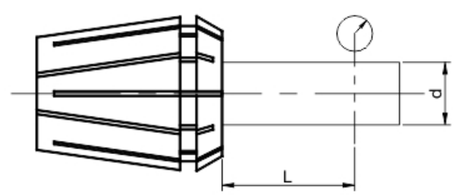




ER11		ER20		ER25		ER32		ER 40	
訂貨型號 Ordercode	夾持範圍 Clamping range	訂貨型號 Ordercode	夾持範圍 Clamping range	訂貨型號 Ordercode	夾持範圍 Clamping range	訂貨型號 Ordercode	夾持範圍 Clamping range	訂貨型號 Ordercode	夾持範圍 Clamping range
ER11–3	3.0–2.5	ER20–3	3–2	ER25–3	3–2	ER32–3	3–2	ER40–4	4–3
–3.5	3.5–3.0	–4	4–3	–4	4–3	–4	4–3	–5	5–4
–4	4.0–3.5	–5	5–4	–5	5–4	–5	5–4	–6	6–5
–4.5	4.5–4.0	–6	6–5	–6	6–5	–6	6–5	–7	7–6
–5	5.0–4.5	–7	7–6	–7	7–6	–7	7–6	–8	8–7
–5.5	5.5–5.0	–8	8–7	–8	8–7	–8	8–7	–9	9–8
–6	6.0–5.5	–9	9–8	–9	9–8	–9	9–8	–10	10–9
–6.5	6.5–6.0	–10	10–9	–10	10–9	–10	10–9	–11	11–10
–7	7.0–6.5	–11	11–10	–11	11–10	–11	11–10	–12	12–11
		–12	12–11	–12	12–11	–12	12–11	–13	13–12
		–13	13–12	–13	13–12	–13	13–12	–14	14–13
				–14	14–13	–14	14–13	–15	15–14
ER 16				–15	15–14	–15	15–14	–16	16–15
訂貨型號 Ordercode	夾持範圍 Clamping range			–16	16–15	–16	16–15	–17	17–16
						–17	17–16	–18	18–17
ER16–3	3–2					–18	18–17	–19	19–18
–4	4–3					–19	19–18	–20	20–19
–5	5–4					–20	20–19	–21	21–20
–6	6–5							–22	22–21
–7	7–6							–23	23–22
–8	8–7							–24	24–23
–9	9–8							–25	25–24
–10	10–9							–26	26–25

ER筒夾精度表
Accuracy table for ER collets

夾持範圍 Ød	檢測長度 L
1.0~1.6	6
1.6~3.0	10
3.0~6.0	16
6.0~10.0	25
10.0~18.0	40
18.0~26.0	50
26.0~34.0	60



筒夾等級 COLLET LEVEL	跳動精度 RUNOUT
AA	<0.01
A	0.01~0.02

ER 螺母
ER CLAMPING NUTS

Evermore®



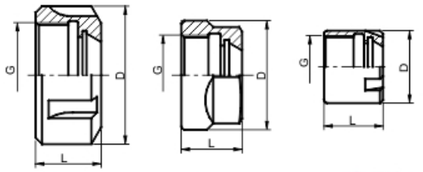


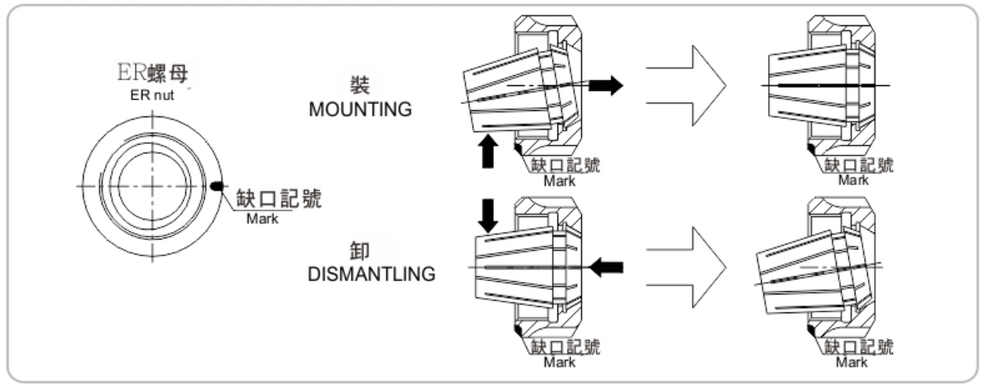
FIG 1 FIG 2 FIG 3

訂貨型號 Order Code	圖號 FIG	ØD	L	G	推薦扭距(Kg.m) Clamping Torgue
CN–ER11	2	19	12	M14 × 0.75	5
–ER16		30	17.5	M22 × 1.5	7
–ER20		34	19	M25 × 1.5	12
–ER25	1	42	20	M32 × 1.5	20
–ER32		50	22.5	M40 × 1.5	22
–ER40		63	25.5	M50 × 1.5	25
–ER11M	3	17.5	12	M13 × 0.75	3
–ER16M		22	18	M19 × 1.0	4
–ER20M		28	19	M24 × 1.0	8
–ER25M		35	20	M30 × 1.0	15

注意 CAUTION

螺母鎖緊扭力超過限度會導致刀桿、螺母或筒夾受損。
The tightening of the clamping nut shall not exceed limited torques,otherwise,the toolholder,clamping nuts and collets may be damaged or worn out.

ER彈性筒夾裝卸方法
Mounting and dismantling methods for ER collet



ER 扳手
ER SPANNER



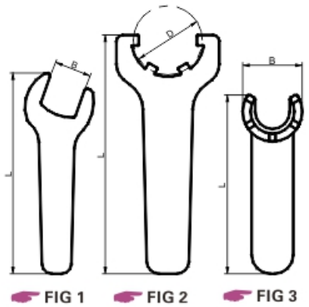


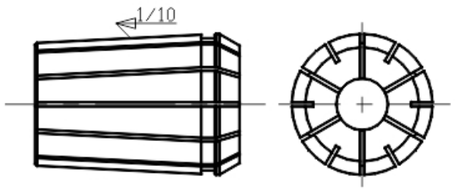
FIG 1 FIG 2 FIG 3

訂貨型號 Order Code	圖號 FIG	L	B	ØD
SP–ER11	1	120	17	——
SP–ER16		140	27	——
SP–ER20		170	30	——
SP–ER25	2	210	——	42
SP–ER32		250	——	50
SP–ER40		290	——	63
SP–ER11M	3	95	17	——
SP–ER16M		118	22	——
SP–ER20M		130	28	——

OZ 彈性筒夾
OZ SPRING COLLETS

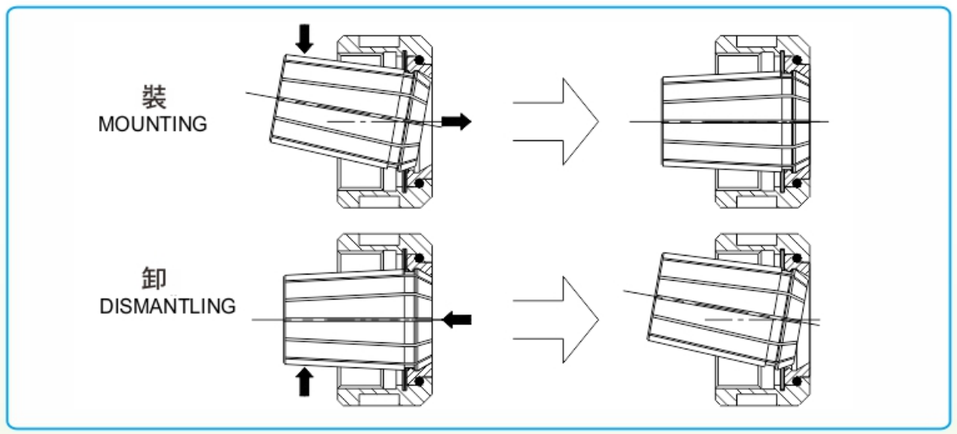
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OZ 25				OZ 32			
Order Code	Size	Order Code	Size	Order Code	Size	Order Code	Size
OZ25–6	Ø 6	OZ25–21	Ø 21	OZ32–6	Ø6	OZ32–21	Ø 21
–7	Ø 7	–22	Ø 22	–7	Ø7	–22	Ø 22
–8	Ø 8	–23	Ø 23	–8	Ø8	–23	Ø 23
–9	Ø 9	–24	Ø 24	–9	Ø9	–24	Ø 24
–10	Ø 10	–25	Ø 25	–10	Ø10	–25	Ø 25
–11	Ø 11			–11	Ø11	–26	Ø 26
–12	Ø 12			–12	Ø12	–27	Ø 27
–13	Ø 13			–13	Ø13	–28	Ø 28
–14	Ø 14			–14	Ø14	–29	Ø 29
–15	Ø 15			–15	Ø15	–30	Ø 30
–16	Ø 16			–16	Ø16	–31	Ø 31
–17	Ø 17			–17	Ø17	–32	Ø 32
–18	Ø 18			–18	Ø18		
–19	Ø 19			–19	Ø19		
–20	Ø 20			–20	Ø20		

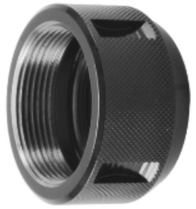
OZ彈性筒夾裝卸方法
Mounting and dismantling methods for OZ collet

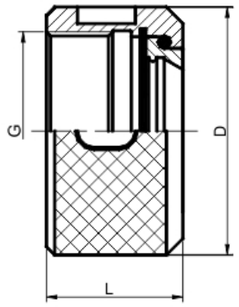


OZ 螺母
OZ CLAMPING NUTS

Evermore®



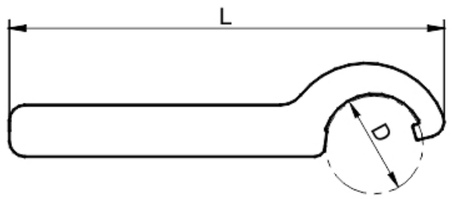




訂貨型號 Order Code	ØD	L	G
CN–OZ25	60	33	M48 × 2.0
–OZ32	78	40	M60 × 2.5

OZ 扳手
OZ SPANNER



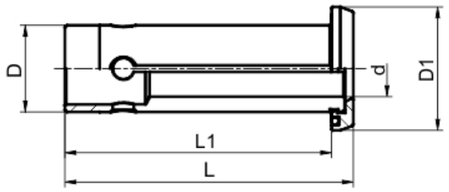


訂貨型號 Order Code	ØD	L
SP–OZ25	60	260
–OZ32	78	272

油壓刀柄變徑套 (外側冷卻型)
REDUCE SLEEVE FOR HYDRAULIC HOLDER (Outside Coolant)

Evermore®

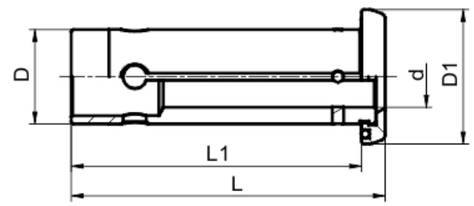




訂貨型號 Order Code	Ød	L	L1	ØD	ØD1
HED20	3,4,5,6,7,8,9,10,11,12,13,14,15,16	66.5	61.5	20	28

油壓刀柄變徑套 (中心出水型)
REDUCE SLEEVE FOR HYDRAULIC HOLDER (Internal Coolant)

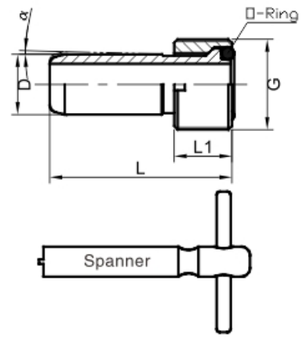




訂貨型號 Order Code	Ød	L	L1	ØD	ØD1
HEZ20	3,4,5,6,7,8,9,10,11,12,13,14,15,16	66.5	61.5	20	28

HSK 冷卻水管 (調整型)
HSK COOLANT PIPE - ADJUSTABLE TYPE





▲扳手爲另購件，如有需要請另外訂購
The spanner is optional,please order it additionally if necessary

訂貨型號 Order Code	ØD	α	L	L1	G	扳手型號 Spanner Model
CP–63A	12	1.3°	36.5	11.5	M18	SP–A63
CP–100A	16	1.4°	44	15.5	M24	SP–A100

ISO 絲攻筒夾
ISO TAPPING COLLET

Evermore®

ERK20–ISO2283–2.24

- 適合刀柄類型 Suitable Holder
- 筒夾規格 Collet Type：16：ER16 / 20：ER20 / 25：ER25 / 32：ER32 / 40：ER40
- 鎖緊方式 Clamping type：S:扳手鎖緊（clamping with spanner）/ K：快換式（quick change）
- 絲錐標準 Tap standard
- 絲錐柄部直徑 Diameter of tap shank

PAT.P

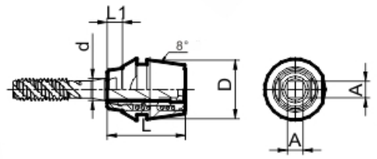
ERS

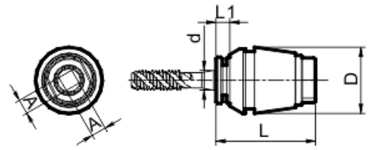


ERK









訂貨型號 Order Code	Ød	A	ØD	L	L1	適用于ISO2283絲攻規格 Suitable ISO2283 tap types
ERS16–ISO2283–2.24	2.24	1.8	16	26	4	M3
–3.15	3.15	2.5				M4
–4.0	4.0	3.15				M5
–4.5	4.5	3.55				M6
–6.3	6.3	5				M8
ERK20–ISO2283–2.24	2.24	1.8	20	30	6	M3
–3.15	3.15	2.5				M4
–4.0	4.0	3.15				M5
–4.5	4.5	3.55				M6
–6.3	6.3	5				M8
ERK25–ISO2283–2.24	2.24	1.8	25	33	6	M3
–3.15	3.15	2.5				M4
–4.0	4.0	3.15				M5
–4.5	4.5	3.55				M6
–6.3	6.3	5				M8
–8.0	8.0	6.3				M10
ERK32–ISO2283–2.24	2.24	1.8	32	41	7	M3
–3.15	3.15	2.5				M4
–4.0	4.0	3.15				M5
–4.5	4.5	3.55				M6
–6.3	6.3	5				M8
–8.0	8	6.3				M10
–9.0	9	7.1				M12
–11.2	11.2	9				M14
ERK40–ISO2283–6.3	6.3	5	40	51	7	M8
–8.0	8	6.3				M10
–9.0	9	7.1				M12
–11.2	11.2	9				M14
–12.5	12.5	10				M16
–14	14	11.2				M18,M20
–16	16	12.5				M22

▲可用於普通ER筒夾刀柄，ERS規格附帶扳手一把
Suitable for common collet holders.The ERS model include a spanner

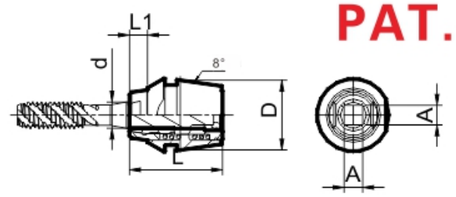
JIS 絲攻筒夾
JIS TAPPING COLLET

Evermore®

PAT.P

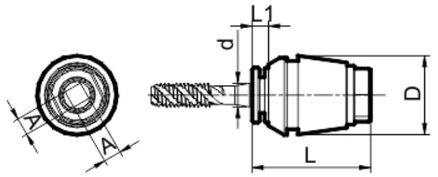
ERS





ERK





訂貨型號 Order Code	Ød	A	ØD	L	L1	適用于JIS絲攻規格 Suitable JIS tap types
ERS16–JIS–4.0	4	3.2	16	26	4	M3,#5,#6
–5.0	5	4				M4,M4.5,#8
–5.5	5.5	4.5				M5,M5.5,#10
–6.0	6	4.5				M6,UNC1/4"
–6.2	6.2	5				M8,M7
ERK20–JIS–4.0	4	3.2	20	30	6	M3,#5,#6
–5.0	5	4				M4,M4.5,#8
–5.5	5.5	4.5				M5,M5.5,#10
–6.0	6	4.5				M6,UNC1/4"
–6.2	6.2	5				M8,M7
–7.0	7	5.5				M10,M9,UNF3/8"
ERK25–JIS–4.0	4	3.2	25	33	6	M3,#5,#6
–5.0	5	4				M4,M4.5,#8
–5.5	5.5	4.5				M5,M5.5,#10
–6.0	6	4.5				M6,UNC1/4"
–6.2	6.2	5				M8,M7
–7.0	7	5.5				M10,M9,UNF3/8"
–8.0	8	6				M11,UNF7/16",PT1/8"
–8.5	8.5	6.5				M12
ERK32–JIS–4.0	4	3.2	32	41	7	M3,#5,#6
–5.0	5	4				M4,M4.5,#8
–5.5	5.5	4.5				M5,M5.5,#10
–6.0	6	4.5				M6,UNC1/4"
–6.2	6.2	5				M8,M7
–7.0	7	5.5				M10,M9,UNF3/8"
–8.0	8	6				M11,UNF7/16",PT1/8"
–8.5	8.5	6.5				M12
–10.5	10.5	8.0				M14,M15
ERK40–JIS–6.0	6	4.5	40	51	7	M6,UNC1/4"
–6.2	6.2	5				M8,M7
–7.0	7	5.5				M10,M9,UNF3/8"
–8.0	8	6				M11,UNF7/16",PT1/8"
–8.5	8.5	6.5				M12
–10.5	10.5	8.0				M14,M15
–12.5	12.5	10				M16
–13	13	10				M17
–14	14	11				M18,UNF3/4"
–15	15	12				M20

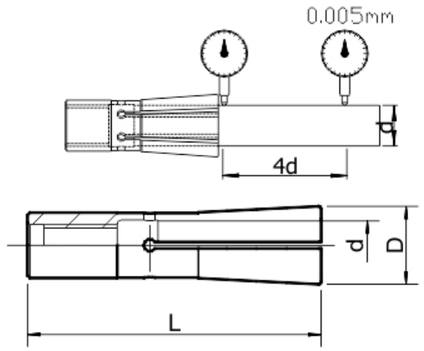
▲可用於普通ER筒夾刀柄，ERS規格附帶扳手一把
Suitable for common collet holders.The ERS model include a spanner

EC-E 筒夾
EC-E COLLET

Evermore®

跳動精度＜0.005mm，最高轉速可達30000rpm;G2.5，没有螺母的内藏式夾頭設計，剛性强，穩定性高。
run-out＜0.005mm,max speed 30000rpm G2.5, non-nut and built-in collet design, it features high rigidity,stable clamping.

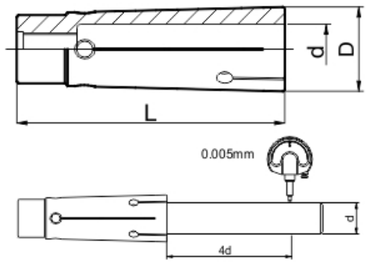




訂貨型號 Order Code	Ød	L	D
EC06	3E,3.175E,4E,6E,6.35E	36	9.6
EC08	3E,4E,6E,8E	45	15
EC10	3E,4E,6E,8E,10E	52	19.1
EC12	3E,4E,5E,6E,8E,10E,12E	60	22

UC 筒夾
UC COLLET



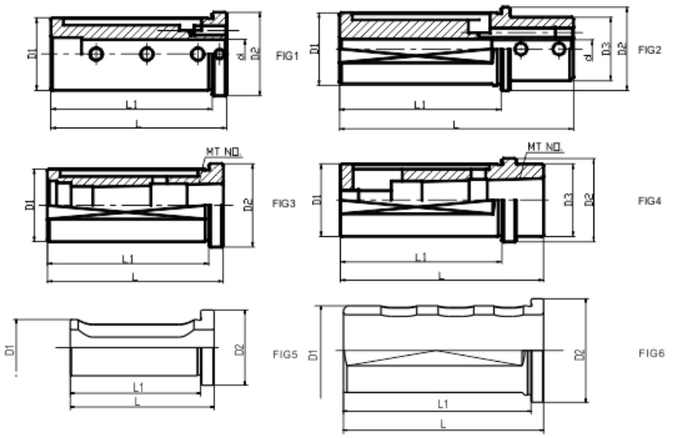


訂貨型號 Order Code	Ød	L	D
UC10	3,4,5,6,8,10	56.8	15
UC16	6,8,10,12,14,16	67	21

V 型刀套
V TYPE REDUCING SLEEVES

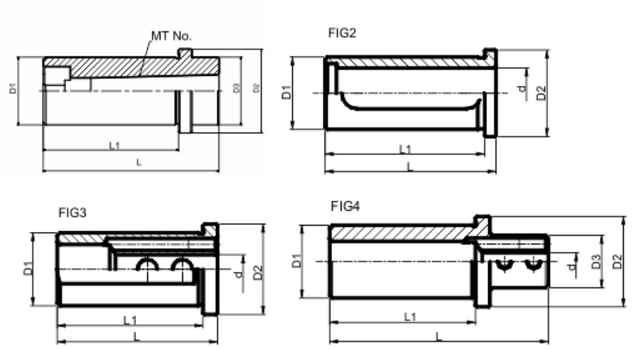
Evermore®





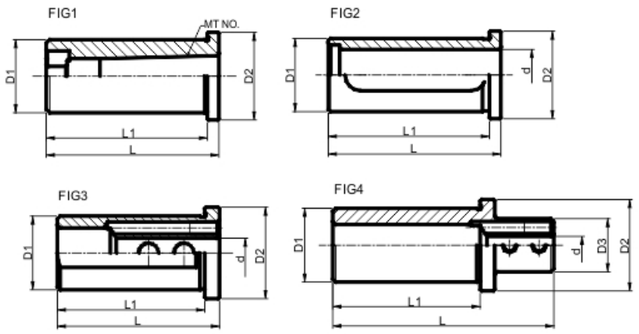
訂貨型號 Order Code	圖號FIG	ØD1	ØD2	ØD3	Ød	莫氏錐號 MT No .	L1	L
V25-6	1	25	33.5	—	6	—	58	64
-8					8			
-10					10			
-12					12			
-16	5				16			
V32-8	2	32	38	32	8	—	78	118
-10					10			
-12					12			
-16	1			—	16			86
-20	6				20			
-25					25			
-MTA1	3			—		1		90
-MTA2						2		
-MTA3	4			32		3	73	91
V40-8	2	40	46	35	8	—	89	129
-10					10			
-12					12			
-16	1			—	16			97
-20					20			
-25					25			
-32	6				32			
-MTA1	3			—		1		112
-MTA2						2		
-MTA3	4			40		3		
-MTA4						4	83	114
V50-8	2	50	58	35	8	—	105	145
-10					10			
-12					12			
-16	1			—	16			112
-20					20			
-25					25			
-32					32			
-40	6				40			
-MTA3	3			—		3		
-MTA4						4		





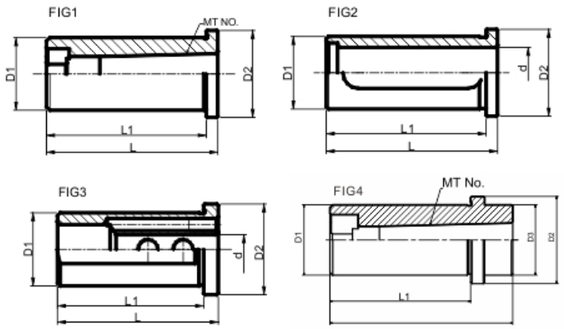
訂貨型號 Order Code	圖號FIG	ØD1	ØD2	ØD3	Ød	莫氏錐號 MT No .	L1	L
E20–6	3	20	26	—	6	—	40	45
–8					8			
–10					10			
–12	2				12			
–16					16			
E25–6	3	25	31	—	6	—	50	55
–8					8			
–10					10			
–12					12			
–16	2				16			
–MT1	1			25	—	1		65
–MT2						2		75
WE25–3	4	25	31	16	3	—	50	71
–4					4			
–6				18	6			75
–8				24	8			
–10					10			
–12					12			
E32–6	3	32	38	—	6	—	60	65
–8					8			
–10					10			
–12					12			
–16	2				16			
–20					20			
–25					25			
–MT1	1			32	—	1		75
–MT2				—		2		75
–MT3						3		94
WE32–3	4	32	38	16	3	—	60	81
–4					4			
–6				18	6			85
–8				32	8			100
–10					10			
–12					12			





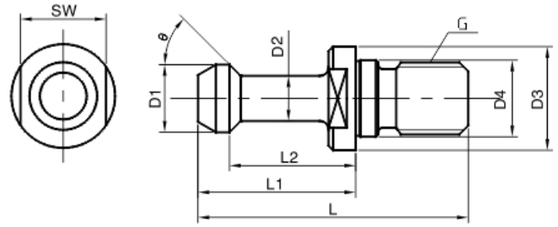
訂貨型號 Order Code	圖號FIG	ØD1	ØD2	ØD3	Ød	莫氏錐號 MT No .	L1	L
E40–6	3	40	46	—	6	—	70	75
–8					8			
–10					10			
–12					12			
–16	2				16			
–20					20			
–25					25			
–32					32			
–MT1	1		48	—		1	70	75
–MT2						2		
–MT3						3	70	94
–MT4						4		115
WE40–6	4	40	46	24	6	—	70	95
–8				35	8			110
–10					10			
–12					12			
E50–8	3	50	56	—	8	—	80	85
–10					10			
–12					12			
–16					16			
–20					20			
–25					25			
–32	2				32			
–40					40			
–MT1	1			—		1		
–MT2						2		
–MT3						3		94
–MT4						4		115





訂貨型號 Order Code	圖號FIG	ØD1 (inch)	ØD2	ØD3	Ød (inch)	莫氏錐號 MT No .	L1	L
E1"–¼"	3	1"	31	—	¼"	—	50	55
–5⁄16"					5⁄16"			
–⅜"					⅜"			
–½"					½"			
–⅝"	2				⅝"			
–¾"					¾"			
E1¼"–¼"	3	1¼"	38	—	¼"	—	60	65
–⅜"					⅜"			
–½"					½"			
–⅝"	2				⅝"			
–¾"					¾"			
–⅞"					⅞"			
–1"					1"			
–MT1	4			31.75	—	1		75
–MT2	1					2		75
–MT3						3		94
E1½"–5⁄16"	3	1½"	46	—	5⁄16"	—	70	75
–⅝"					⅝"			
–¾"					¾"			
–1"	2				1"			
–1¼"					1¼"			
E2"–⅜"	3	2"	56	—	⅜"	—	80	85
–½"					½"			
–⅝"					⅝"			
–¾"					¾"			
–1"					1"			
–1¼"	2				1¼"			
–1½"					1½"			





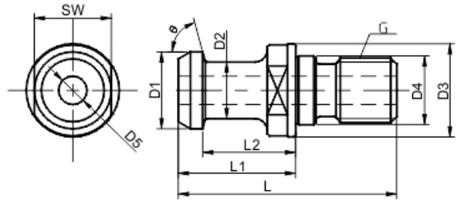
訂貨型號 Order Code	L	L1	L2	ØD1	ØD2	ØD3	ØD4	θ	G	SW
S20R–2	34.5	20.5	16	9.5	7	14	8.5	90°	M8	10
BT30–45°	43	23	18	11	7	16.5	12.5	45°	M12	13
–60°								60°		
BT40–45°	60	35	28	15	10	23	17	45°	M16	19
–60°								60°		
–90°								90°		
BT50–45°	85	45	35	23	17	38	25	45°	M24	30
–60°								60°		
–90°								90°		

■有中心出水類型（H型），可根據需要選擇，另行詢價。
BT pull studs can be supplied with through coolant as optional ,please contact with us for quotation.

如需要中心出水型，請訂購時在型號後註明"H"
If you need internal coolant type,please maked with "H" to the order code.

拉釘 - JIS B6339
PULL STUDS - JIS B6339





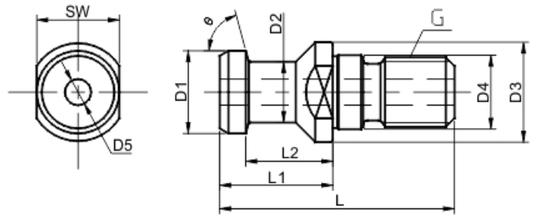
■P型適用于MAS BT刀柄；PA和PB型適用于SK(DIN69871)刀柄
Type P is for standard MAS BT tool holders;Type PA&PB is for SK(DIN69871) tool holders.

訂貨型號 Order Code	L	L1	L2	ØD1	ØD2	ØD3	ØD4	ØD5	θ	G	SW
JIS B6339– 30P	43	23.4	18.4	12	8	16.5	12.5	4	75°	M12	13
– 40P	54	29	23	19	14	23	17	7.0		M16	19
– 50P	74	34	25	28	21	38	25	10		M24	30
–30PA	44	24	19	12	8	16	13	4.15		M12	14
–40PA	54	26	20	19	14	23	17	7.0		M16	19
–50PA	74	34	25	28	21	36	25	11.5		M24	30
–30PB	27.5	11.8	8.15	13.35	9.3	16.5	13	4.15		M12	13
–40PB	44.5	16.4	11.15	18.95	12.95	22.5	17	7.35	45°	M16	18
–50PB	65.5	25.55	17.95	29.1	19.6	37	25	11.55		M24	30

拉釘 - SK
PULL STUDS SK (DIN69872)

Evermore®

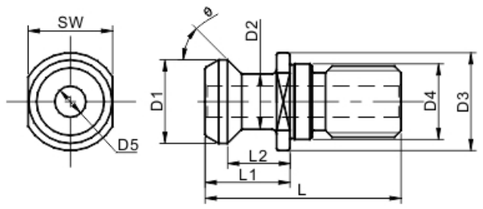




訂貨型號 Order Code	L	L1	L2	ØD1	ØD2	ØD3	ØD4	ØD5	θ	G	SW
DIN69872A–SK40	54	26	20	19	14	23	17	7	75°	M16	19
–SK50	74	34	25	28	21	36	25	11.5		M24	30

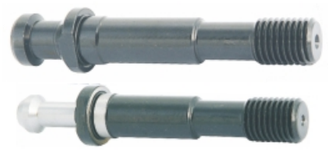
拉釘 - MAZAK - BT
PULL STUDS - MAZAK-BT





訂貨型號 Order Code	L	L1	L2	ØD1	ØD2	ØD3	ØD4	ØD5	θ	G	SW
MAZAK– BT40	44.1	19.1	14.03	18.8	12.45	22	17	7	45°	M16	19
–BT50	65.2	25.2	17.7	28.96	20.83	37	25	10		M24	30

拉釘 - MTB
PULL STUDS - MTB



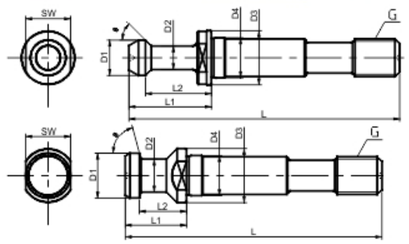


FIG 1

FIG 2

訂貨型號 Order Code	圖號 FIG	L	L1	L2	ØD1	ØD2	ØD3	ØD4	θ	G	SW
MTB2–BT30	1	87	23	18	11	7	13.5	12.5	45°	M10	13
MTB3–BT30		83	23	18	11	7	16.5	12.5	45°	M12	13
MTB4–BT40		115	35	28	15	10	23	17	45°	M16	19
MTB4–SK40	2	109	26	20	19	14	23	17	75°	M16	19

電子式Z軸設定儀
ELECTRONIC TOOL LENGTH SETTER

Evermore®

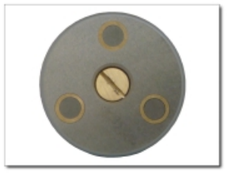
EZ–100



▲高亮度LED指示燈，當刀尖接觸到測頭表面時，指示燈會發光。
▲When the cutter tip touches the surface of tool probe,the bright LED lights up.

高硬度測頭,不易損傷
The high hardness tool probe is not easily to be damaged.





▲底部裝有强力磁鐵，輕輕放置即可牢固吸附，使用非常簡便。
▲With a magnet on the bottom,it can firmly be attached on the surface of work pieces so that it is easy to operate.



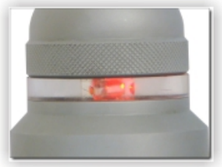
▲聲響提示喇叭，當測量無法目測的工件時，可由聲響得知測量結果。
▲When the work piece is unable to be measured visually,the beeping sound may reveal the measuring results.

高硬度測頭,不易損傷
The high hardness tool probe is not easily to be damaged.

EZ–50



▲高亮度LED指示燈，當刀尖接觸到測頭表面時，指示燈會發光。
▲When the cutter tip touches the surface of tool probe,the bright LED lights up.



- 外殼經過美化、防銹處理，而且100%防塵。
  中心機及數控車床可用。
  立式或卧式銑床可用。
- The surface is antirust,and 100% dust–proof.
  Suitable for milling and turning machines.
  Suitable for vertical and horizontal machining centers.

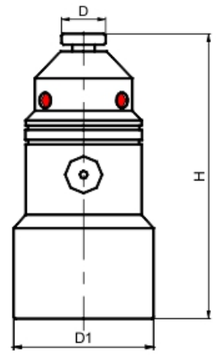


FIG 1

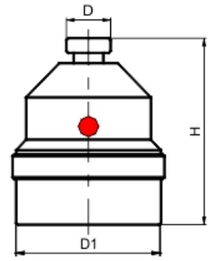


FIG 2

訂貨型號 Order Code	圖號 Fig	ØD1	$H^{+0.005}_{0}$	ØD	電池 Battery	聲音 Beep
EZ–50	2	40	50	16	(LR44)1.5V×2	No
EZ–100	1	48	100	16	(23A)12V×1	Yes

帶表式Z軸設定儀 (帶磁性)
Z-ZERO SETTER (MAGNETIC)

Evermore®

測量範圍 MEASURING RANGE 2mm

磁性 MAGNETIC

▲大測量面，操作簡便。
▲The measuring surface is large,it is very convenient to operate.



▲採用鋁合金本體，重量輕。表面經特殊處理，美觀且不易劃傷。
▲The main body uses aluminum alloy.it is light and compact. The surface has been specially treated,therefore,it is elegant and scratch–resistant.

▲百分表內藏，避免了干涉。
▲The built–in indicator,eliminates operation interference.

▲內置小彈力彈簧，更有效地避免小銑刀或鑽頭的斷裂。
▲The elastic force of the spring is small,it can avoid the breakage of the small milling cutters and drills.



▲底部採用80KG強磁力座，可在立式或臥式銑床、加工中心和數控車床上使用。
▲With 80Kg of powerful magnetic force on the base,it is suitable for vertical and horizontal milling machines, machining centers and turning centers.

直接歸零設計
ZERO ADJUST DIRECTLY



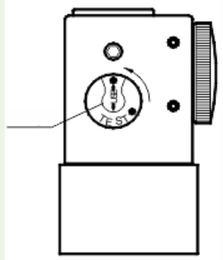
▲旋轉歸零桿至"設置"位置，再下壓測頭，旋轉百分表至"0"位即可完成設定。
▲To rotate the switch to"TEST" position,press the probe and rotate the indicator to "ZERO" point.Setting is complete.

訂貨型號 Order Code	高度 Hight $H^{+0.005}_{0}$
Z–100	100.00

使用方法
OPERATION METHOD

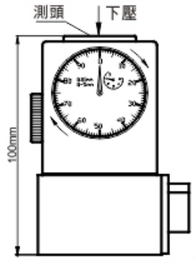
1

▲將歸零桿轉至"設置"(TEST)。
▲Rotate zero switch to "TEST" position.



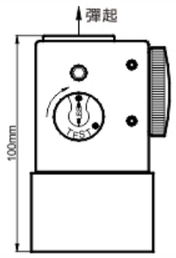
2

▲下壓測頭至盡頭，小表指向"1"位，旋轉大表使之"0"位與大表指針對齊。
▲Press the probe with your hand,the small gauge will point to "1" position,then rotate the big guage so that the big indicator aligns with "0" position.



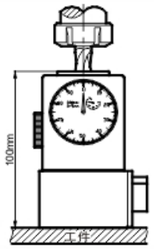
3

▲使用前將歸零桿旋至"使用"(USE)。
▲Rotate zero switch to"USE" position before operating.



4

▲將設定儀置於工件上，將磁性座旋鈕轉至"ON"，刀具接觸探測面，緩慢進刀至大表指針到"0"，小表指針同時到"1"時，則刀具與工作面的距離是100mm。
▲Put tool setter on a work piece,turn"ON"the magnetic base,the cutting tool get contact with the measuring surface,move the cutting tool slowly until the big indicator's needle points to "0" and small indicator needle point to "1",then the distance between the cutting tool and the work piece is 100mm.



帶表式Z軸設定儀
Z-ZERO SETTER

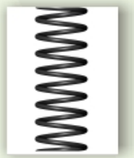
Evermore®

▲超大測量面，使操作變得更簡便。
▲The measuring surface is large,it is very convenient to operate.

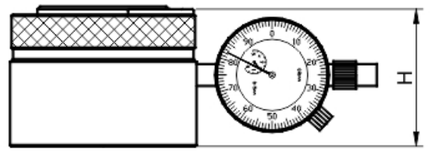
▲外置百分表，可調節視角，使讀數變得非常方便。
▲The indicator is installed outside,the angle of view is adjustable,it is convenient to take the indicator's reading.



▲環形基準面，校對時只需隨手一把游標卡尺即可輕鬆設定。
▲Calibration can be done with just one vernier caliper.



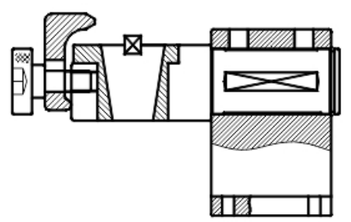
◀內置小彈力彈簧，更有效地避免小銑刀或鑽頭的斷裂。
The elastic force of the spring is small,it can avoid the breakage of the small milling cutters and drills.



訂貨型號 Order Code	高度 Hight $H^{+0.005}_{0}$
Z–50	50.00

鎖刀座
TOOL LOCKING FIXTURE





訂貨型號 Order Code	適用刀柄 (需配置不同壓塊)	訂貨型號 Order Code	適用刀柄 (需配置不同壓塊)
ETL–30	BT30	ETL–HSK100	HSK100
ETL–40	BT40、SK40、CAT40	ETL–C6	PSC–C6
ETL–50	BT50、SK50、CAT50	ETL–VDI30	VDI30
ETL– HSK63	HSK63	ETL–VDI40	VDI40

▲ETL-40/50配置不同壓塊可用於BT、SK、CAT標準系列刀柄，訂購時請註明所需壓塊規格。
▲The ETL–40/50 model is suitable for BT,SK,CAT standard tool holders with different fixing block.Please indicate the model you need when ordering.

Edge Finder



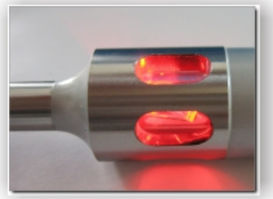
▲柄部精磨，與測頭同心度小於0.005mm。
▲The shank has been precisely ground,the concentricity between shank and probe is within 0.005mm.

▲高精度測頭，精度可達±0.001mm。
▲High precision tool probe,the accuracy is within 0.001mm.



▲聲響提示喇叭，當測量無法目測的工件時，可由聲響得知測量結果。
▲When the visual measuring can not be taken,one may get the measuring result by the sound information.

▲LED指示燈，可觀測光電尋邊器的工作狀況，當光電尋邊器正常工作時，指示燈將發出紅光。
▲When the electronic edge finder is working,the LED will give out a red light.



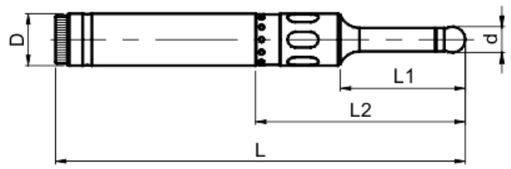




◀測頭爲彈簧連接，可避免因操作不當引起測頭損壞。
The connection is spring loaded,it can prevent the probe from damge because of improper operation.

光電式尋邊器
ELECTRONIC EDGE FINDER WITH LED AND BEEP
Evermore®

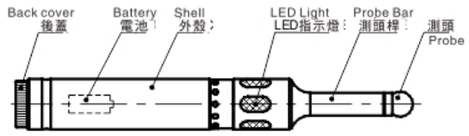




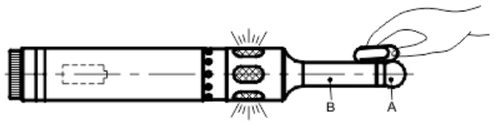
訂貨型號 Order Code	ØD	Ød	L	L1	L2
EEF-2010	20	10	158	49	81

使用方法 operating method

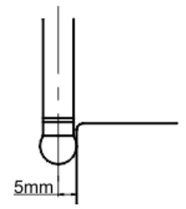
1.電池安裝 Battery assemble
旋下後蓋裝入電池。（注意電池正負極性）
電池型號：23AE-12V
Take off the back cover,assemble battery(attention the polarity of the battery)
Battery type:23AE-12V



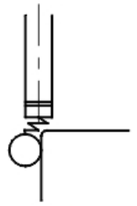
2.檢測工作狀況 Test woking condition
如圖所示，使用一金屬材料接觸A－B部分，LED指示燈發光同時發出提示音，則說明光電尋邊器工作正常。
Using a metal object connet part A and B,if the electronic edge finder work propely,the LED will give out a red light and send a beeping sound.



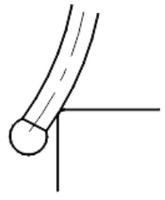
3.測量方法 Measuring method
使機床主軸處於停止狀態，控制測頭緩慢接近工作面，當測頭與工作面接觸的瞬間，LED指示燈發光同時發出提示音，此時機床主軸中心與工作平面的距離爲5mm。
When the spindle of the machine stops,move the probe to the work piece surface.When the probe touches the work piece surface,the LED will give out a red light and send a beeping sound.The distance between the machine spindle and the work piece surface will be 5mm.



正確的測量方法示意圖
Correct



移動速度過快，導致接觸過多，應重新測量
Connect too much,you need measure again



請勿使工作面接觸測頭桿部分
Don't connect the probe bar

注意事項 CAUTION

- 爲保證測量精度，請勿直接用手觸摸測頭。
- 如長時間放置不用，請取出電池，以延長電池使用壽命。
- 如發現電池電力不足，請即更換同型號電池。
- 此尋邊器爲電子產品，應盡量避免切削液等進入內部造成短路或腐蝕電路。

- Do not touch the probe by hand in order to ensure the measuring accuracy.
- If you do not use it,you need to take out the battery in order to extend the battery life.
- If the battery voltage is low,you need to replace the battery.
- The edge finder is an electronic product,avoid using coolant with it.

機械式尋邊器
ROTARY - EDGE FINDER

Evermore®



CR101

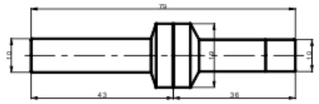


FIG1



CR303

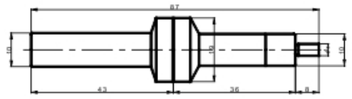


FIG2



CR401

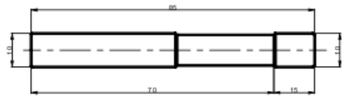


FIG3

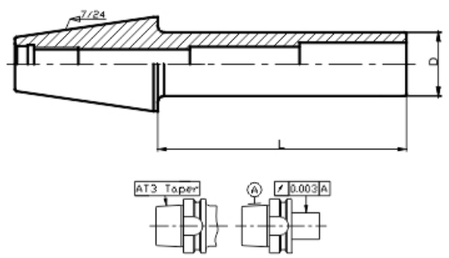
FEATURES:
※For setting work coordinate on machining center and milling machine.
※Repeatability on X and Y axes:within ±2μ.
※Spindle runs about 500rpm.

特點:
※用在中心機及銑床上，設定坐標位置。
※在X軸及Y軸上，重複精度±2μ.
※主軸轉速約500rpm。

訂貨型號 Order Code	圖號 Fig	材質 Material	防磁 Magnetic-proof	硬度 Hardness
CR101	1	Stainless steel	NO	HRC60° ±2°
CR301	1	Alloy steel	NO	HRC60° ±2°
CR303	2	Alloy steel	NO	HRC60° ±2°
CR401	3	Alloy steel& Ceramics	YES	HRC60° ±2°

測試棒
TEST BAR





訂貨型號 Order Code	ØD	L	精度 Accuracy
BT30-230	30	230	0.003
BT40-300	40	300	0.003
BT50-300	50	300	0.003
HSK-A63-200	40	200	0.003
HSK-A100-200	60	200	0.003

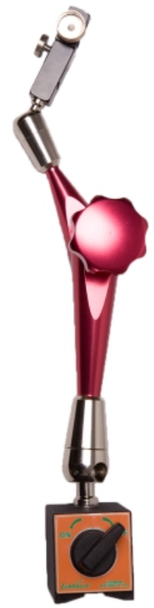
※請根據實際用途選擇是否需要帶動槽，並在訂購時說明。
You can select the drive slot,please indicate when ordering.

磁性座
MAGNETIC BASE

Evermore®



油壓型
HYDRAULIC



機械型
MECHANICAL

特點:
※結構精巧的內藏式油壓設計，油壓固鎖穩定性高。
※本油壓磁性座增加一自動補油裝置，可改善因缺油而鎖不緊的缺點。
※萬向曲臂設計、可任意調整方向。
※杠桿旋臂上附有微調裝置：6、8鳩尾槽，適合夾持各種型號的分厘表、杠桿表。

FEATURES:
※Precision built-in design with stable hydraulic fixed lock.
※Auto oil refill is added to the hydraulic universal magnetic base to improve the problem of oil shortage and difficulty of seizure.
※Universal arms can be adjusted at your own choice.
※Swing lever with fine tuning device:6mm &8mm dovetailed clips suitable for all kinds of gauge,and lever watch.

訂貨型號 Order Code	吸力（Kgf） Holding Power	臂長 Arm Length (mm)	底座規格Base Dimension			重量(Kg) N.W	類型 Type
			長L (mm)	寬W(mm)	高H(mm)		
EVE-330A	100	340	80	50	55	2.0	機械型
EVE-300A	100	340	80	50	55	2.3	油壓型

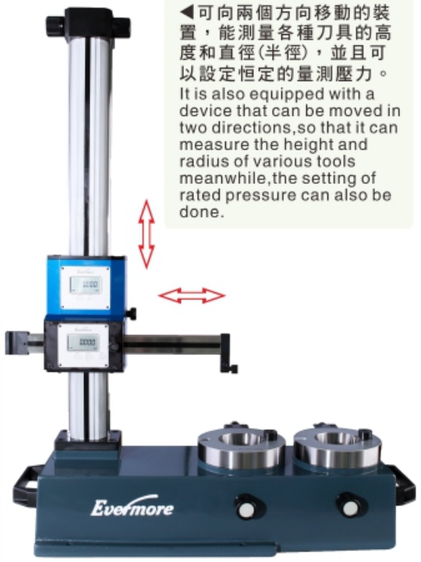
操作簡便
穩定性好
easy operation
good stability

簡介

TOR401/402型刀具設定儀可滿足機械製造領域各種刀具測量的要求，十幾年來成為國際刀具測量儀器的首選。緊密耐用的設計適合車間使用。採用瑞士進口高精密光學尺，確保測量精確。

TPR401/402 type tool presetter can meet the various requirements in the field of machinery manufacturing.It is the first choice for the tool measuring equipments over a decade. With its rigid and durable construction,it is suitable for use in the tool room.It is equipped with high precision linear scale imported from swiss which ensures measuring accuracy.

◀可向兩個方向移動的裝置，能測量各種刀具的高度和直徑(半徑)，並且可以設定恒定的量測壓力。
It is also equipped with a device that can be moved in two directions,so that it can measure the height and radius of various tools meanwhile,the setting of rated pressure can also be done.



TPR402

測量範圍
X軸(半徑)：300mm (12")
Z軸：400mm (16")
Measuring Range
X axis(Radius):300mm(12")
Z axis:400mm(16")

▶一體式的顯示單元可分別顯示X軸和Z軸的測量數據，並且帶有所有功能的標記。可精確地測量和設定各種類型的刀具。
使用可更換的電池供電，保證儀器可獨立使用。
The display unit can indicate the measuring data of the X axis and Y axis separately it also shows the symbols of all functions meanwhile,the accurate measurements and setting for various type of tools can be fulfiled.
It uses a replaceable battery for power supply which ensures independent uses of the tool presetter.

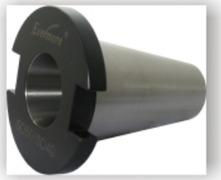


TPR401

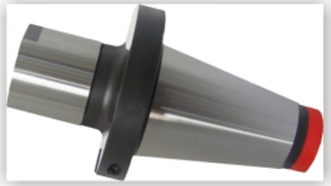
測量範圍
X軸(半徑)：150mm (6")
Z軸：400mm (16")
Measuring Range
X axis(Radius):150mm(6")
Z axis:400mm(16")



▼可旋轉的主軸能快速定位刀具位置，適用於ISO/DIN錐度，也可使用轉換套用於VDI和HSK錐度。或者直接選用適用於VDI或HSK錐度的主軸。
The rotatable spindle can locate tool position quickly,it is suitable for ISO/DIN shank and also can be used for VDI/HSK shank by using adapters.Sometimes, it can be directly used for VDI/HSK spindle.



▲轉換套
Reducing sleeves



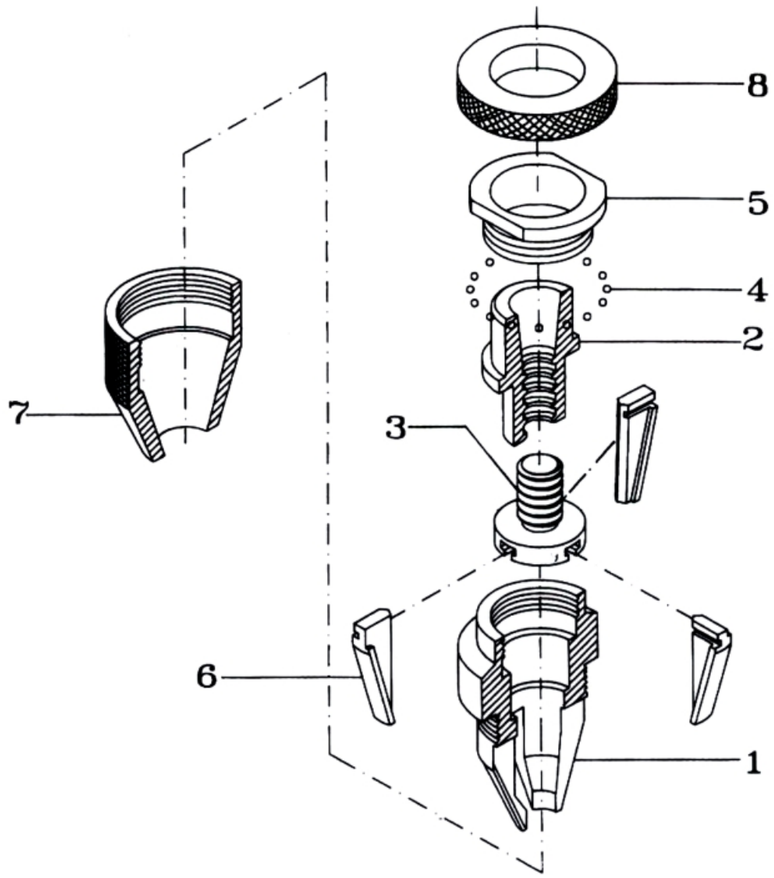
▲標準棒 Standard test bar
用於校正X軸與Z軸歸零點的誤差。
Used for calibration of errors between X axis and Z axis.

型號 Type	TPR401	TPR402
ISO錐度 ISO taper	30，40，50	
測量範圍 Measuring range	X：150mm/6" Z：400mm/16"	X：300mm/12" Z：400mm/16"
解 析 度 Resolution	0.01/0.001mm or 0.0005"/0.00005"	
測量精度 Measuring accuracy	X：0.01mm Z：0.025mm	
重復精度 Repeatability	0.005mm	
同心度誤差 Concentricity error	0.025/400mm	
垂 直 度 Perpendicularity	0.02/400mm	
最大移動速度 Max. Moving speed	1M/Sec	
量測壓力 Measuring pressure	X：1N Z：1N	
測量系統 Measuring system	Sylvac電容式系統（專利） Capacitor type system(patented)	
數字顯示屏 Digital display screen	6位LCD，字高8.5mm，帶功能標記顯示 Function symbol display	
電池型號 Battery type	CR2032×2節（3V鋰電池，190mah）	
電池壽命 Battery life	正常使用下約2000小時 2000hrs under normal operation	
使用溫度 Temperature	5-40℃	
重 量 Weight	43Kg	63Kg

標準配置 Standard accessories

測量探針橫桿、2節3V鋰電池、用戶手冊、精度保證書
Measuring probe,3V battery(2 pcs), Operation manual,Accuracy certificate

鑽夾頭結構示意圖
STRUCTURE DIAGRAM OF DRILL CHUCKS



▲該圖爲XHSP、XH、EL、H型結構示意圖
Only used for XHSP、XH、EL、H type

標號 Parts No..	部件名稱 Part Name	材質 Meterial	硬度 Heat-Treatment
1	本體/Body	JIS G4051(SAE1045)	
2	主軸/Hollow Shaft	JIS SCM415(SAE4115)	HRC60° ±2°
3	推杆/Driver	JIS SNCM439(SAE4340)	HRC52° ±2°
4	鋼珠/Ball		
5	鎖緊螺母/Locking Nut	JIS SCM435(SAE4135)	HRC54° ±2°
6	三爪/Jaws	JIS SNCM439(SAE4340)	HRC61° ±2°
7	前套/Conical Sleeve	JIS SCM415(SAE4115)	HRC50° ±2°
8	扣環/Retaining Ring	JIS G4051(SAE1045)	



一體式主軸更優於傳統設計。
Integrated spindle is better than traditional design.

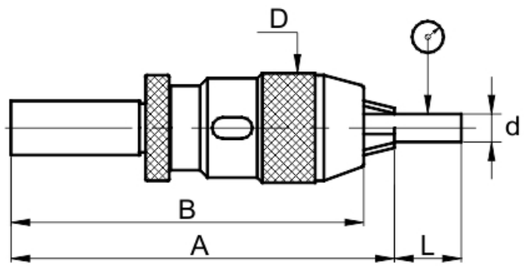
主要特點 Main Features:

※結構緊密。
※把傳統結構中柄與夾頭連接產生的誤差減小到最小。
※能防止夾頭脫落。
※操作安全。

※Robust structure
※Minimize the tolerance between the shank and chuck
※Eliminate the dropping of a chuck
※Improve operation safety

型號 Type	夾持能力 Clamping Capacity	錐孔類型 Female Taper	ØD	A	B	重量 WT(g)	QTY Pcs/Cu-Ft	净/毛重 NW/GW Kgs
INT-8	0.5-8 1/64″ -5/16″	MT2	35	157	149	520	20/0.83	11/12
		JC20		141	133	500		10/11
		JC 3/4"						
INT-13	0.5-13 1/64″ -1/2″	R8	50.5	207	196	1500	20/0.83	30/31
		MT2		184	172	1100		22/23
		MT3		201	190	1250		25/26
		MT4		227	216	1580		32/33
		JC20		164	153	1100		22/23
		JC 3/4"						
		JC25		174	163	1250		25/26
		JC32		185	173	1450		29/30
INT-16	3-16 1/8″ -5/8″	R8	56	211	198	1850	20/0.83	37/38
		MT3		207	194	1520		30/31
		MT4		232	219	1850		37/38
		JC20		165	152	1450		29/30
		JC 3/4"						
		JC25		175	162	1500		30/31
		JC32		197	184	1720		35/36

精度與扭矩表
Run-out Accuracy&Torque Inspection Table



型號 Type	ØD	L	最大跳動度 Max Run-out	扭矩 (kgf/cm)
INT-8	3	35	0.05	160
	6			
	8	50		
INT-13	5	55	0.05	400
	10			
	13	75		
INT-16	5	55	0.05	480
	10			
	16	80		



這類鑽夾頭主要與CNC自緊夾頭刀柄配合使用，是按照最高工程標準設計制造。莫氏錐度的短柄內螺紋設計使之更容易與CNC刀柄緊密連接，形成一體。
This chuck head is mainly used on CNC keyless drill chuck holders, which is designed according to the highest engineering standard.

主要特點 Main Features:

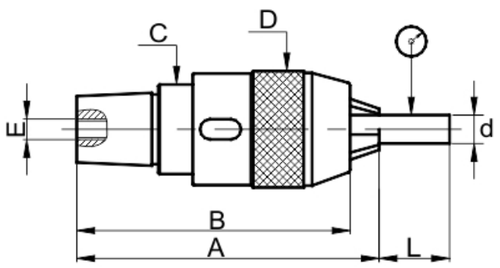
※作爲一體化的設計，鑽夾頭一旦與刀柄用螺釘旋緊後，就不會從刀柄上脫落；
※特殊的結構設計保證了比較高的剛性；
※使用性與可靠性高；
※使用方便，壽命長；
※100%的檢測與嚴格的質量控制保證了最可靠的精度。

※It is an integrated design, the drill chuck and holder once firmly secured with a pull screw, the chuck will never detach or fall off.
※Special structure design ensures high rigidity.
※High service reliability.
※Easy to operate, long service time.
※100% test and strict quality control assure the most reliable accuracy.

型號 Type	夾持能力 Clamping Capacity	錐孔類型 Female Taper	A	B	ØC	ØD	E	重量 WT(g)	QTY Pcs/Cu-Ft	淨/毛重 NW/GW Kgs
KPU-8	0.5-8	MT2	90	82.5	30	35	M6×1.0	360	40/0.6	15/16
KPU-13	0.5-13	MT2	101	76	30	56	M8×1.25	1000	30/0.6	30/31
	1/64"-1/2"	MT3	118	106	38					
KPU-16	3-16	MT3	128	115	43	56	M8×1.25	1300	18/0.6	24/25

精度與扭矩表
Run-out Accuracy&Torque Inspection Table

型號 Type	ØD	L	最大跳動度 Max Run-out	扭矩 (kgf/cm)
KPU-8	3	35	0.05	160
	6			
	8	50		
KPU-13	5	55	0.05	320
	10			
	13	75		
KPU-16	5	55	0.05	480
	10			
	16	80		





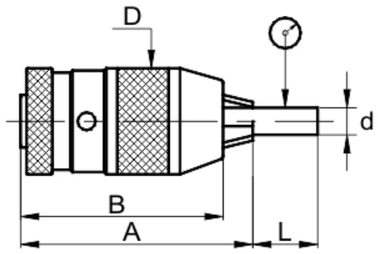
主要特點 Main Features:

※針對强扭矩場合的特殊設計和制造；
※先進的檢測儀器保證了優良的精度要求，夾緊力是其他同類產品的兩倍；
※配有鎖緊扳手，防止在使用過程中瞬時轉向改變而導致鑽頭脫落；
※特別適合於CNC中心機和銑床使用

※Specially designed and produced for the powerful torque requirements.
※Advanced inspection equipment assure the best accuracy.
※Tightenning spanner is provided to prevent the chuck from detaching when the chucks suddenly change direction during operation.
※It is particularly suitable for CNC machining centers and milling machines.

型號 Type	夾持能力 Clamping Capacity	錐孔類型 Female Taper	ØD	A	B	重量 WT(g)	QTY Pcs/Cu-Ft	淨/毛重 NW/GW Kgs
6XHSP	0.5-6.5 1/64" -1/4"	B12	34	69	61	320	8/0.6	26/27
		J1						
		B10						
8XHSP	0.5-8 1/64" -5/16"	J2S	34	69	61	320	40/0.6	13/14
		B10						
		J1						
		B12						
10XHSP	0.5-10 1/64" -3/8"	J33	43	92	81	700	40/0.6	28/29
		J2						
		J2S						
		B12						
		B16						
13XHSP	0.5-13 1/64" -1/2"	J6	51.5	103	92	1030	30/0.6	31/32
		J33				1035		
		B16				1030		
16XHSP	3-16 1/8" -5/8"	J6	58	108	95	1450	24/0.6	35/36
		B16						
		B18						
		J3						
SP-8XHSP	8XHSP扳手							
SP-10XHSP	10XHSP扳手							
SP-13XHSP	13XHSP扳手							
SP-16XHSP	16XHSP扳手							

精度與扭矩表
Run-out Accuracy&Torque Inspection Table



型號 Type	ØD	L	最大跳動度 Max Run-out	扭矩 (kgf/cm)
6XHSP	3	35	0.05	80
	6			
8XHSP	3	35	0.05	160
10XHSP	8	50	0.05	260
	3	35		
	10	60		
13XHSP	5	55	0.05	400
	10			
	13	75		
16XHSP	5	55	0.05	480
	10			
	16	80		



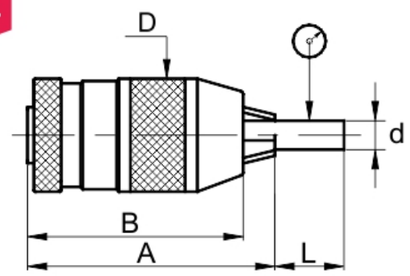
主要特點 Main Features:

※適用於銑床、鑽床及重型鑽加工；
※高精度超强鑽夾頭；
※剛性好，扭矩大

※Suitable for milling machine, drilling machine and heavy drilling machinery.
※High accuracy, strong drill chuck.
※Good rigidity, great torque.

型號 Type	夾持能力 Clamping Capacity	錐孔類型 Female Taper	ØD	A	B	重量 WT(g)	QTY Pcs/Cu-Ft	淨/毛重 NW/GW Kgs
6XH	0.5–6.5 1/64 " –1/4 "	J1 B10 B12	34	69	61	320	8/0.6	26/27
8XH	0.5–8 1/64 " –5/16 "	J1 J2S B10	34	69	61	340	40/0.6	14/15
10XH	0.5–10 1/64 " –3/8 "	B12 J2S J2 J33	43	92	81	700	40/0.6	28/29
13XH	0.5–13 1/64 " –1/2 "	B12 B16 J2 J6 J33 B16	51.5	103	92	1030 1035 1030	30/0.6	31/32
16XH	3–16 1/8 " –5/8 "	J6 B16 B18 J3 J33	58	108	95	1307 1365 1340	24/0.6	33/34

精度與扭矩表
Run-out Accuracy&Torque Inspection Table



型號 Type	ØD	L	最大跳動度 Max Run-out	扭矩 (kgf/cm)
6XH	3 6	35	0.05	80
8XH	3	35	0.05	160
10XH	8 3 10	50 35 60	0.05	260
13XH	5 10 13	55 75	0.05	400
16XH	5 10 16	55 80	0.05	480



主要特點 Main Features:

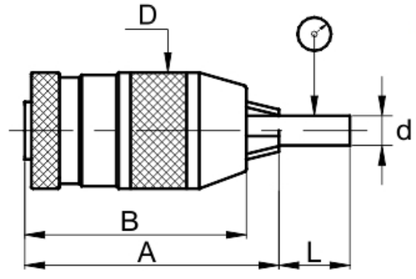
※用於中等級加工；
※適用於鑽床；
※簡便堅固。

※Use for moderate grade machining.
※Suitable for milling machine.
※Simple, rigid.

型號 Type	夾持能力 Clamping Capacity	錐孔類型 Female Taper	ØD	A	B	重量 WT(g)	QTY Pcs/Cu-Ft	淨/毛重 NW/GW Kgs
6H	0.5–6.5 1/64 " –1/4 "	J1 B10 B12	34	69	61	320	80/0.6	26/27
8H	0.5–8 1/64 " –5/16 "	J1 J2 B10 B12	34	69	61 71	340	80/0.6	28/29
10H	0.5–10 1/64 " –3/8 "	J2S J2 J33 B12 B16	42.5	92	81	700 705	40/0.6	28/29
13H	0.5–13 1/64 " –1/2 "	J6 J33 B16	50.5	103	92	1030 1035 1030	30/0.6	31/32
16H	3–16 1/8 " –5/8 "	J6 B16 B18	50.5	103	92 97	1030 1040	30/0.6	31/32

精度與扭矩表
Run-out Accuracy&Torque Inspection Table

型號 Type	ØD	L	最大跳動度 Max Run-out	扭矩 (kgf/cm)
6H	3 6	35	0.08	75
8H	8	50	0.08	75
10H	3 6 10	35 58	0.08	115
13H	5 10 13	55 75	0.08	175
16H	5 10 16	55 80	0.08	300



自緊式鑽夾頭 Keyless Drill Chuck



主要特點 Main Features:

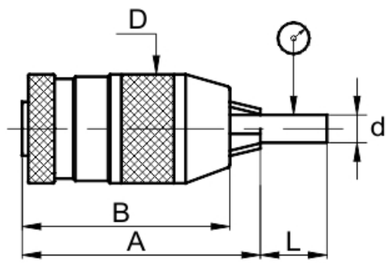
※此型號專爲電動衝擊鑽設計，有很强的夾緊力；
※能快速裝夾鑽頭，鑽水泥時不會打滑；
※三爪採用合金鋼製造，能適應長久衝擊和摩擦而仍然保持較高的精度。

※This type is specially designed for electric percussion drill, with strong gripping power.
※Quickly loading drill chuck, and will not slip when drilling the cement.
※The three-jaw is made from alloy steel, it is suitable for percussion and friction over a long period of time, its accuracy remains relatively high.

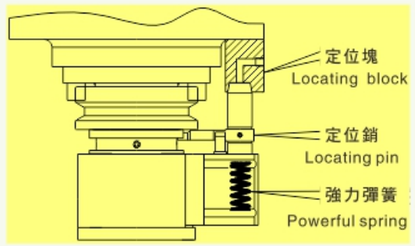
型號 Type	夾持能力 Clamping Capacity	錐孔類型 Female Taper	螺紋英制 Inch thread	ØD	A	B	重量 WT(g)	QTY Pcs/Cu-Ft	淨/毛重 NW/GW Kgs
6EL	0-8 0-5/16"	B10		34	75	67	360	80/0.6	29/30
		B12							
		JT1							
			1/2"-20						
			3/8"-24						
8EL	0-8 0-5/16"	B10		34	75	67			
		B12							
		JT1							
			1/2"-20						
			3/8"-24						
10EL	1.5-10 1/16"-3/8"	B10		34	69	61	320	40/0.6	13/14
		B12							
		JT1							
			1/2"-20						
			3/8"-24						
13EL	1.0-13 1/32"-1/2"	B12		42.5	92	81	700	30/0.6	21/22
		B16							
		J2S							
		J6							
		J33							
			1/2"-20						
			3/8"-24						
16EL	3-16 1/8"-5/8"	B16		50.5	103	92	1040	30/0.6	31/32
		B18			108	97			
		J6			103	92			
			1/2"-20		108	97			
			5/8"-16				1035		

精度與扭矩表
Run-out Accuracy&Torque Inspection Table

型號 Type	ØD	L	最大跳動度 Max Run-out	扭矩 (kgf/cm)
6EL	3	35	0.12	60
	6			
8EL	3	35	0.12	60
	6			
	8	50		
10EL	3	35	0.12	90
	6			
	10	58		
13EL	5	55	0.12	160
	10			
	13	75		
16EL	5	55	0.12	250
	10			
	16	80		



典型安裝示意
illustration for typical installation





▲本體與角度頭可360° 自由回轉
The body and its angle head can be rotated freely 360 degree.

簡單找正
Easy to adjust

MAX 3000RPM



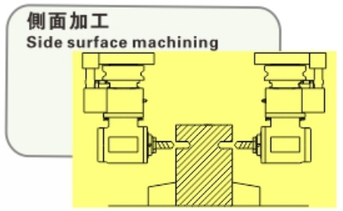
▲內藏式筒夾設計，剛性強，干涉小。
▲Built-in collet design, high rigidity and minimum interference.

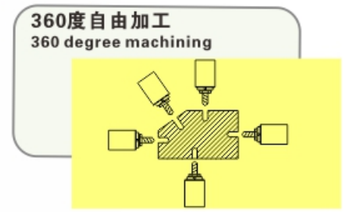
主要功能:
Main function

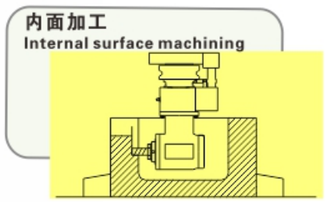

▲攻螺紋
Tapping


▲中輕度銑削
Medium milling


▲鑽孔
Drilling



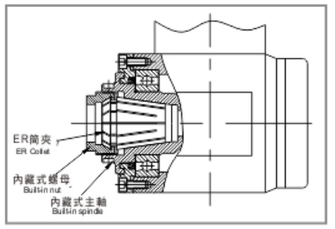




可用於ATC自動換刀
Suitable for ATC tool change

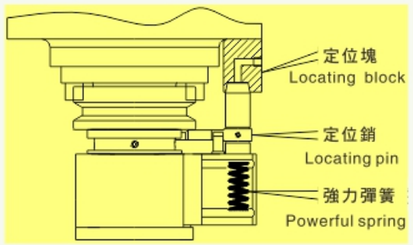






NEW

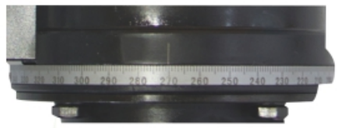
典型安裝示意
illustration for typical installation





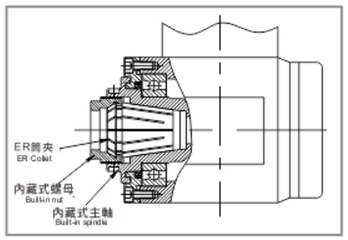
▲本體與角度頭可360° 自由回轉
The body and its angle head can be rotated freely 360 degree.

簡單找正
Easy to adjust

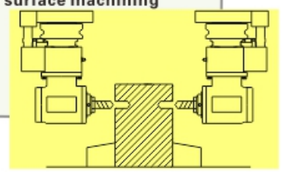


▲新增刻度環，可以更方便的調整角度。
▲Graduation dial design makes angle adjustment more conveniently.

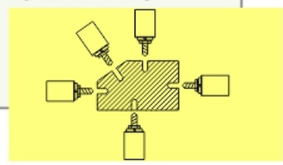
▲內藏式筒夾設計，剛性強，干涉小。
▲Built–in collet design, high rigidity and minimum interference.



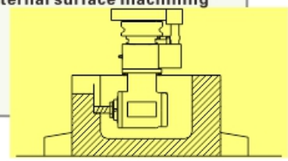
側面加工
Side surface machining



360度自由加工
360 degree machining



內面加工
Internal surface machining



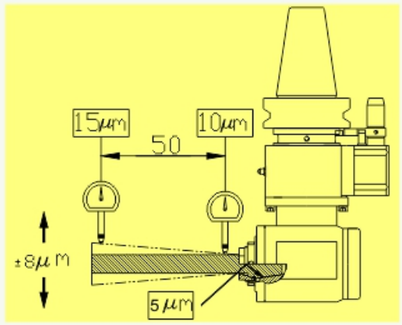
高精度
High precision

▲EVERMORE角度頭殼體使用高精度的車銑中心經過精密的製造，以獲得高的尺寸精度、形狀精度和內外各輪廓及幾何要素的位置精度；由一批訓練有素的技術工人使用專用量具、夾具及高精度檢測設備進行測量和組裝。
▲EVERMORE角度頭採用高精度的螺旋齒輪和軸承以獲得更高的精度和剛性。

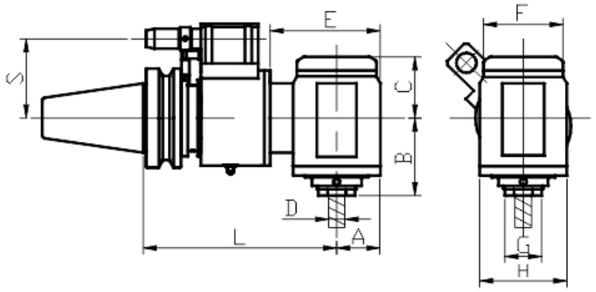
▲EVERMORE angle body is manufactured by means of high precision turning centers so that it can achieve high precision in dimension,shape,configuration and geometric position ,with the help of professional measuring tools,fixtures and testing facilities,a team of trained skillful workers carry out the measuring and assembly work.
▲In addition,Evermore adopts high precision spiral gears and bearings in order to achieve both higher precision and better rigidity.

高精度機床 High precision machine ✚ 專業夾具 Professional fixtures ✚ 高級技工 Senior skilled technician ✚

精密量具 Precision measuring equipments ✚ 高精度配件 High precision accessories → 高精度,高剛性 High precision,High rigidity

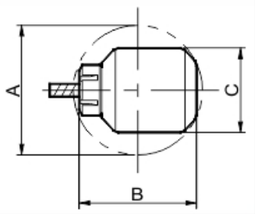
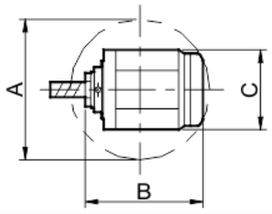


規 格 Type	L
AHER11 AHER16 AHER20	40
AHER25 AHER32 AHER40	50



訂貨型號 Order Code	ØD	S	L	A	B	C	E	F	ØG	H	重量 Weight
BT40-AHER32-150	2~20	60/65	150	44	78.2	63.8	89	80	36	42	8.5
-185			185				113				9.6
BT50-AHER32-175		80/85/110	175				103				14.2
-195			195				113				13.8
SK40-AHER32-176		60/65	176								9.6
SK50-AHER32-175		80/85/110	175								12.5
CAT40-AHER32-160		60/65	160								8.8
CAT50-AHER32-195		80/85/110	195								13.5

干涉小
Minimum interference

傳統的角度頭 Common angle head	EVERMORE角度頭 Evermore angle head
	

干涉尺寸對比：
Interference size contrast

	A	B	C
傳統的角度頭 最大夾持直徑20 Common angle head Max clamping diameter ø20	ø171	160	88
EVERMORE角度頭 最大夾持直徑20 (AHER32) Evermore angle head Max clamping diameter ø20	ø156	140	88



⚠ 定位塊的形狀與安裝位置請與機床廠家確認。
The shape and installation position of the located block need to be confirmed with the machine tool factory.

■附專用扳手一把
■驅動鍵和定位銷位置可自由調節
■柄部規格可根據需要訂做，標準爲BT柄

■Attach with a special spanner.
■The palce of the drive key and the locating pin can be freely adjusted.
■The holder can be custom-made according to the customer's requirements.BT shank is a standard one.

型　號 Type	夾持範圍 Clamping range	傳動比 Drive ratio	最大轉速 Max speed
BT40-AHER32-150	ø2~20	1：1	3000
BT40-AHER32-185			
BT50-AHER32-175			
BT50-AHER32-195			
SK40-AHER32-176			
SK50-AHER32-175			

⚠ **注意CAUTION**

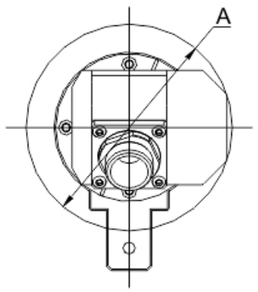
機床主軸與角度頭輸出軸的旋轉方向是相反的，所以必須確認機床主軸的轉向與角度頭轉向相反。
Machine tool spindle and angle head output axis are rotated in opposite direction,therefore,please make sure that the revolving direction of the machine tool spindle is opposite with the angle head.

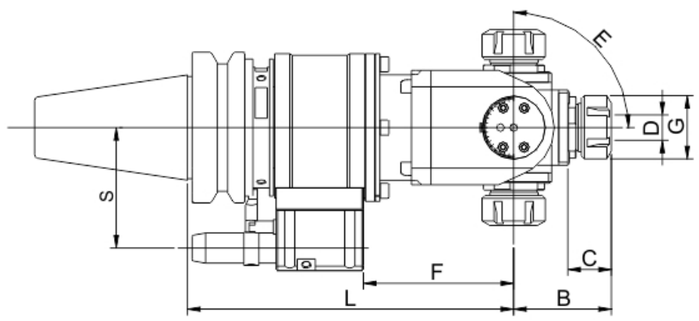
萬向角度頭
ANGULAR HEAD



▲具備傳統角度頭的特點，本體與角度頭可360°自由回轉。
▲角度設定簡單，精度高；銑頭可在0～±90° 間調整，調整角度的分度值爲2° 。

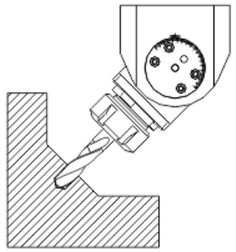
▲The angular head has the same features as common angle head,the body and its angle head can be rotated freely 360 degree.
▲It is easy to adjust the angles with high precision,the milling head can be adjusted between 0 and ±90° ,the per graduate is 2 dregree.



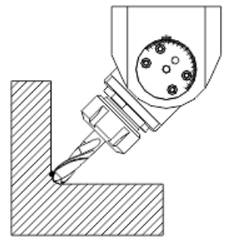


訂貨型號 Order Code	ØD	S	L	A	B	C	E	F	ØG	重量Kg Weight
BT40-AHER25-ANG182	2~16	60/65	182	138	65	29	±90°	80	42	9
BT50-AHER25-ANG200		80/85/110	200							13
SK40-AHER25-ANG176		60/65	176							9
SK50-AHER25-ANG178		80/85/110	178							12.6

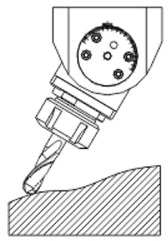
主要功能:
Main functions



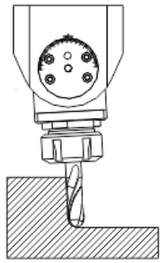
傾斜面加工
Oblique surface machining



内型腔R角加工
Internal R angle machining



仿形加工
Profile machining



拔模角加工
Pattern taper machining

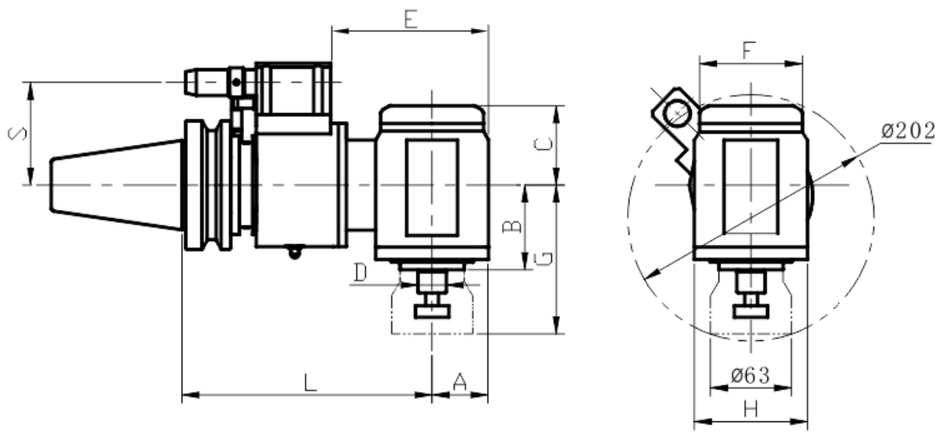
FM 型角度頭
FACE MILL ANGULAR HEAD

Evermore®



▲具備傳統角度頭的特點，本體與角度頭可360° 自由回轉。
▲面銑刀專用角度頭，直接連接面銑刀加工快速穩定。
▲可自動換刀，批量生產必備工具。

▲The angular head has the same features as common angle head,the body and its angle head can be rotated freely 360 degree.
▲The AHFM series is suitable for firm and fast face milling.
▲Can be automatic tool changed,Increases productivity.



訂貨型號 Order Code	ØD	S	L	A	B	C	E	G	H	重量Kg Weight
BT40-AHFM22-150	22	80/85/110	150	44	66	63.8	89	116	88	9
-185			185				113			9.5
BT50-AHFM22-175			175				103			14.2
-195			195				113			13.8
SK50-AHFM22-175			175				103			12.8

角 度 頭
ANGLE HEAD

Evermore®

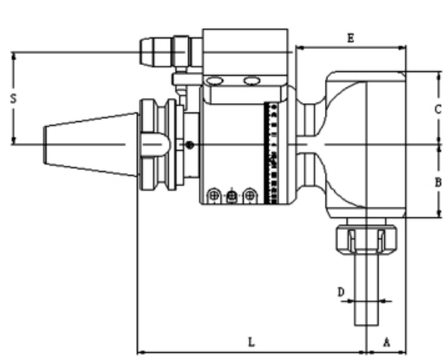
NEW

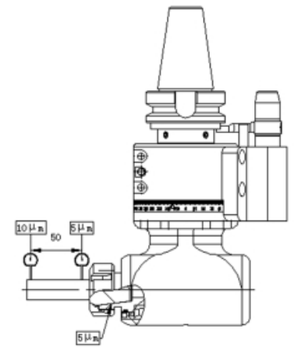




▲輕量化設計可以滿足刀庫承重要求，也可自動換刀。
▲簡單的束緊式設計，調整角度更方便。
▲同一刀庫可同時放置多把角度頭，以實現大批量加工。

▲ In order to satisfy the demand in tool magazine's weight, using compact design to deal with this problem and it can be automatic tool changed too.
▲ Using the constriction design to adjust the angles more conveniently.
▲ Multiple angle heads can be put in the same tool magazine to increase productivity.

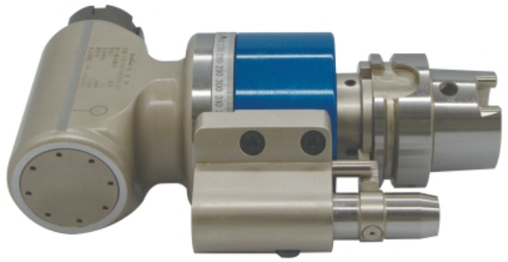




訂貨型號 Order Code	ØD	S	L	A	B	C	E	G	H	重量Kg Weight
BT40-AHER25-160A	2-16	65	160	28	51	51	77	42	56	6
CAT40-AHER25-152-A		65	152	28	51	51	77	42	56	6
BT50-AHER32-175-A	2-20	80	175	39	57.5	63.5	97	50	78	13.5
BT50-AHER32-200-A		80	200	39	57.5	63.5	122	50	78	15

Evermore®

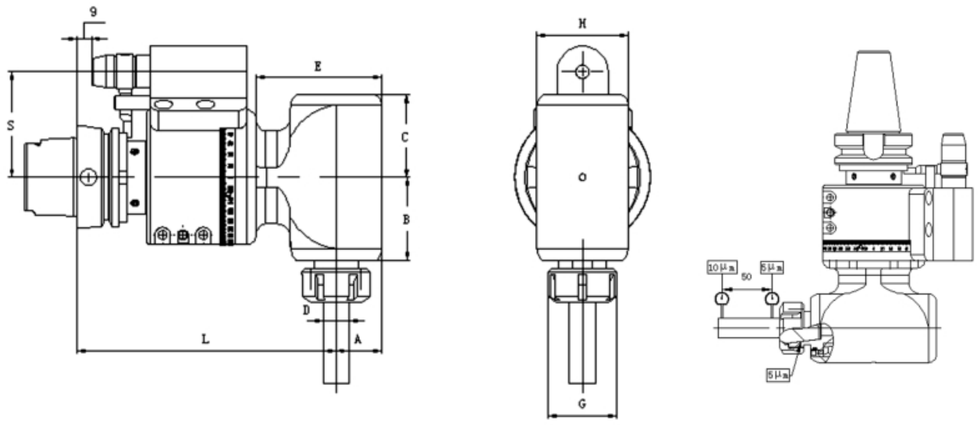
NEW





▲輕量化設計可以滿足刀庫承重要求，也可自動換刀。
▲簡單的束緊式設計，調整角度更方便。
▲同一刀庫可同時放置多把角度頭，以實現大批量加工。

▲ In order to satisfy the demand in tool magazine's weight, using compact design to deal with this problem and it can be automatic tool changed too.
▲ Using the constriction design to adjust the angles more conveniently.
▲ Multiple angle heads can be put in the same tool magazine to increase productivity.



訂貨型號 Order Code	ØD	S	L	A	B	C	E	G	H	重量Kg Weight
HSK-A63-AHER25-159A	2-16	65	159	28	51	51	77	42	56	5.5

Evermore®

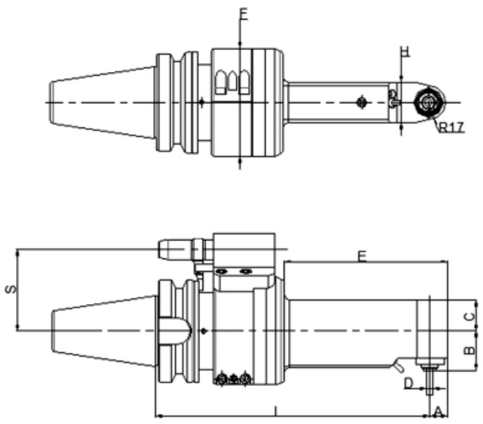
NEW

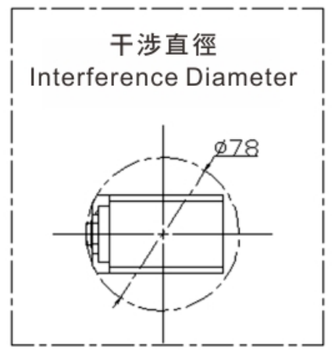




▲輕量化設計可以滿足刀庫承重要求，也可自動換刀。
▲簡單的束緊式設計，調整角度更方便。
▲同一刀庫可同時放置多把角度頭，以實現大批量加工。

▲ In order to satisfy the demand in tool magazine's weight, using compact design to deal with this problem and it can be automatic tool changed too.
▲ Using the constriction design to adjust the angles more conveniently.
▲ Multiple angle heads can be put in the same tool magazine to increase productivity.





訂貨型號 Order Code	ØD	S	L	A	B	C	E	G	H	重量Kg Weight
BT50-AHER11A-270-A	2.5-7	65	270	17	39	30.5	160	106	40	11.2

偏心角度頭
ANGLE HEAD-OFFSET

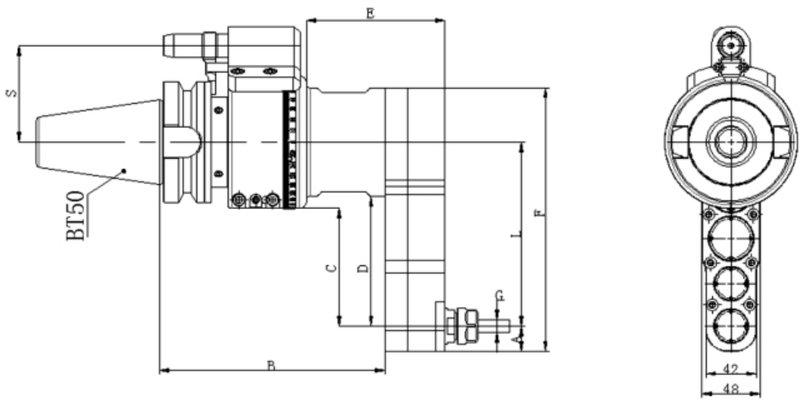
Evermore®

NEW





▲輕量化設計可以滿足刀庫承重要求，也可自動換刀。
▲簡單的束緊式設計，調整角度更方便。
▲同一刀庫可同時放置多把角度頭，以實現大批量加工。
▲ In order to satisfy the demand in tool magazine's weight, using compact design to deal with this problem and it can be automatic tool changed too.
▲ Using the constriction design to adjust the angles more conveniently.
▲ Multiple angle heads can be put in the same tool magazine to increase productivity.

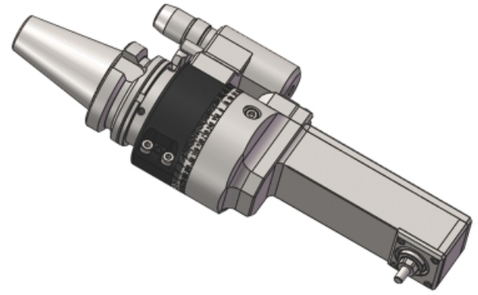


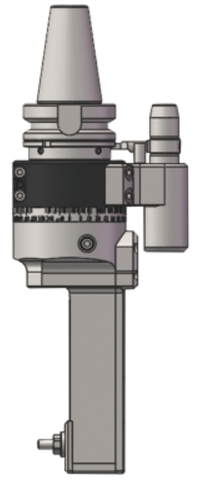
訂貨型號 Order Code	ØD	S	L	A	B	C	D	E	F	重量Kg Weight
BT50-AHER16-OFF152.5	3-10	80	152.5	21	187	97.5	107.5	115	218.5	16

角 度 頭
ANGLE HEAD

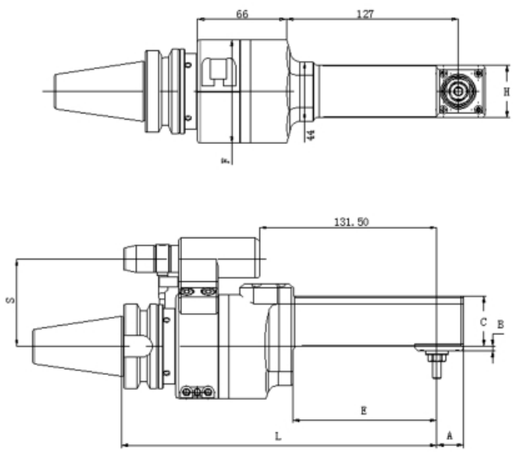
Evermore®

NEW

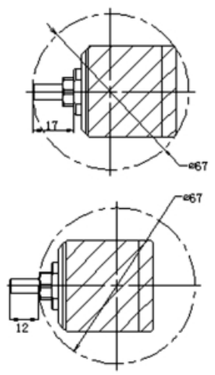




▲輕量化設計可以滿足刀庫承重要求，也可自動換刀。
▲簡單的束緊式設計，調整角度更方便。
▲同一刀庫可同時放置多把角度頭，以實現大批量加工。
▲ In order to satisfy the demand in tool magazine's weight, using compact design to deal with this problem and it can be automatic tool changed too.
▲ Using the constriction design to adjust the angles more conveniently.
▲ Multiple angle heads can be put in the same tool magazine to increase productivity.

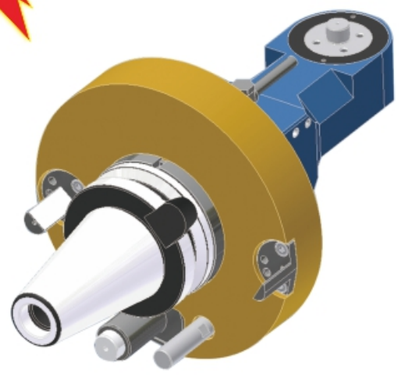


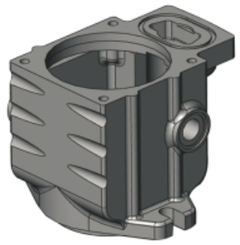
干涉直徑
Interference Diameter



訂貨型號 Order Code	ØD	S	L	A	B	C	E	F	H	重量Kg Weight
BT40-AHER11A-234-A	2.5-7	65	234	20	3	37.5	107	115	39	6

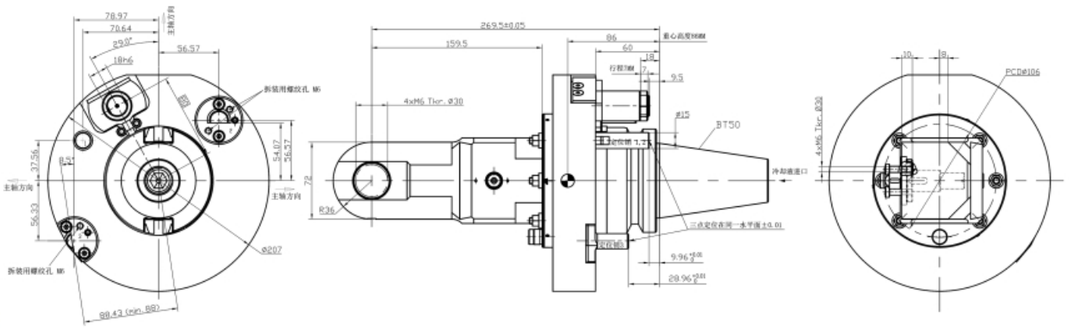
NEW



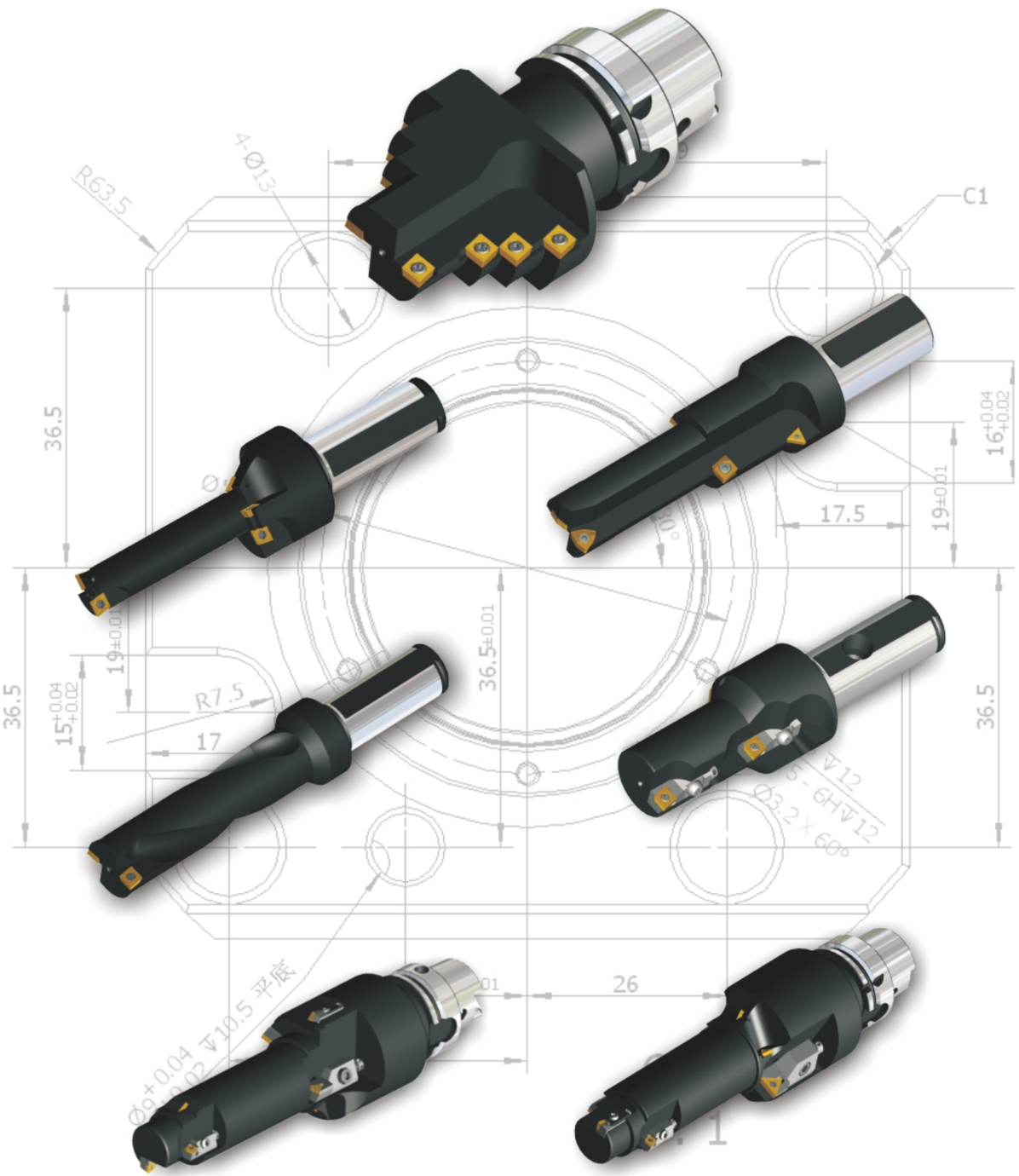


▲ 採用三點定位支撐同一平面上，更加穩定。
▲ 面銑刀專用角度頭，直接連接面銑刀加工快速穩定。
▲ 可自動換刀，批量生產必備工具。

▲ All 3 points of support on the same level, which makes it more stable.
▲ The AHFM series is suitable for firm and fast face milling.
▲ Can be automatic tool changed to increase productivity.



訂貨型號 Order Code	ØD	S	L	A	B	C	E	F	重量Kg Weight
BT50-AHFM16-270	16	80	270	36	36	26	206	72	14







EVERMORE



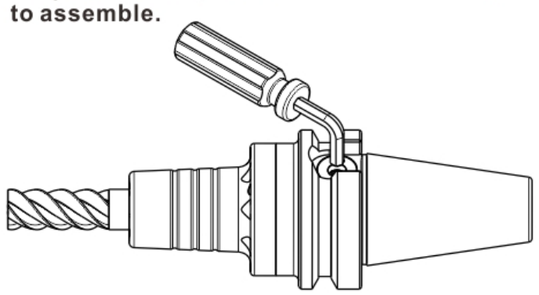
EVERMORE



NEW

扳手一把 裝/卸

Only need one spanner to assemble.



- 動平衡：30000rpm G2.5
- 跳動精度：5μM以內
- 刀柄與筒夾小角度大斜面接觸，夾緊力強，裝卸刀具快速、簡單只需一把扳手

Feature:

- Dynamic Balance: 30000rpm, G2.5
- Runout: Within 0.005mm
- The connected tapered hole makes clamping power enhanced. Designed with special structure makes it easy to assemble the tool, only need one spanner. The pull stud has not to be unlashed before assembly.

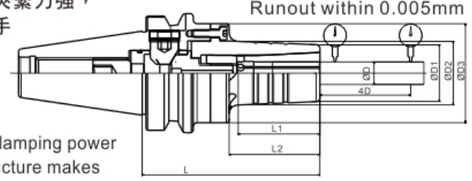




動平衡：30000rpm G2.5
跳動精度：5μM以內
刀柄與筒夾小角度大斜面接觸，夾緊力強，
裝卸刀具快速、簡單只需一把扳手

Feature:
Dynamic Balance: 30000rpm, G2.5
Runout: Within 0.005mm
The connected tapered hole makes clamping power enhanced. Designed with special structure makes it easy to assemble the tool, only need one spanner.
The pull stud has not to be unlashed before assembly.

跳動精度5μM以內
Runout within 0.005mm

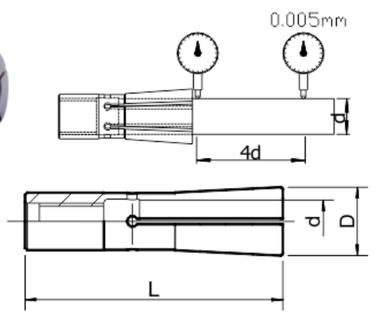


訂貨型號 Order Code	L	L1	L2	D1	D2	D3	D	適用筒夾 Collet
BT30-BEC06-95	95	21	30	15	15	44.5	3-6.35	EC 06
BT30-BEC09-105	105	34	39	20	22		3-8	EC 08
BT30-BEC10-105	105	34	38	26	28	52.4	3-10	EC 10
BT30-BEC12-115	115	43	48	30	34		3-12	EC 12
BT40-BEC06-75	75	21	30	15	15	44.5	3-6.35	EC 06
BT40-BEC08-85	85	34	39	20	22		3-8	EC 08
BT40-BEC08-115	115	64	69					
BT40-BEC10-85	85	34	38	26	28	52.4	3-10	EC 10
BT40-BEC10-115	110	64	68					
BT40-BEC12-95	95	43	48	30	34		3-12	EC 12
BT40-BEC12-125	125	73	78					
BT50-BEC08-95	95	34	39	20	22	44.5	3-8	EC 08
BT50-BEC08-125	125	64	69					
BT50-BEC08-155	155	94	99					
BT50-BEC10-95	95	34	38	26	28	52.4	3-10	EC 10
BT50-BEC10-125	125	64	68					
BT50-BEC10-155	155	94	98					
BT50-BEC12-105	105	43	48	30	34		3-12	EC 12
BT50-BEC12-135	135	73						
BT50-BEC12-165	165	103	108					



動平衡：30000rpm G2.5
跳動精度：5μM以內
沒有螺母的內藏式夾頭設計，剛性強，穩定性高

Feature:
Dynamic Balance: 30000rpm, G2.5
Runout: Within 0.005mm
Non-nut and built-in collet design,
it features high rigidity, stable clamping.



訂貨型號 Order Code	Ød	L	D
EC06	3E,3.175E,4E,6E,6.35E	36	9.6
EC08	3E,4E,6E,8E	45	15
EC10	3E,4E,6E,8E,10E	52	19.1
EC12	3E,4E,5E,6E,8E,10E,12E	60	22