

**MACHINING
SOLVER**



Monkula

Anti-Vibration Cutting Tools
Monkula 抗震切削刀具

ABOUT MONKULA

鯨庫拉制震股份有限公司原名為映飢企業有限公司，成立於2001年，為一專業的閥類、機械五金零件加工廠，服務終端客群為德、日兩國。2008年轉型研發及製造抗震刀桿，更名為鯨庫拉制震股份有限公司，已逾十六載，行銷遍及全球30餘國。本公司生產設備有CNC車床、五軸加工機、CNC巨型車床。除了標準規格的抗震刀桿外，我們還提供客製化刀具的服務。產品性能亦經過精密機械研究發展中心(PMC)檢測。我們擁有豐富的加工經驗，可以輔助客戶解決困難加工問題。抗震刀桿的應用範圍包括：車床、銑床、搪孔、磨床。

Monkula Enterprise Co., Ltd. original name was YingFan Enterprise Co., Ltd., established in 2001, as a professional valve and mechanical hardware parts processing plant, customers are mainly end-users in Germany and Japan. In 2008, YingFan Enterprise Co., Ltd transformed and began to develop anti-vibration cutting tools and changed company name to Monkula Enterprise Co., Ltd. We have been manufacturing anti-vibration cutting tools for more than 16 years and have been sold in more than 30 countries around the world. The production line has CNC lathe, 5-axis CNC machine, CNC giant lathe. In addition to the standard specifications of anti-vibration cutting tools, we also provide customized tooling services. Besides, product performance is also tested by the Precision Machinery Research and Development Center (PMC). We have extensive machining experience to assist our customers in solving difficult machining problems. The application range of the anti-vibration cutting tools includes: lathe, milling machine, boring and grinding machine.



發明專利: Invention patent

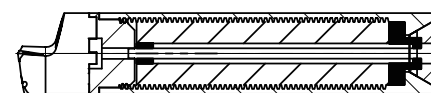
制震器原理 作用力與反作用力&頻率反制

本公司的制震器採螺紋狀設計，能增加與桿體的接觸面積，當進行切削時，制震器會抵消刀桿所產生的振動頻率。刀桿柄徑不同，產生的振動頻率也不同。柄徑越小，振動頻率越高，柄徑越大，振動頻率越低。

Damper system principle action force and reaction force & frequency counteraction

The damper system is threaded design and can increase the contact area with the tool. When the tool is cutting, the damper system counteracts the vibration frequency generated by the tool. When the tool diameter is different, the vibration frequency will be different. The smaller the tool diameter, the higher the vibration frequency, the larger the tool diameter and the lower the vibration frequency.

Structure of Damper System 制震器結構



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| 刀片選用方面 INSERT SELECTION

1 Insert shape selection 刀片形狀的選用:



2 Entering angle selection 切入角的選用: F 91° > U 93° > Q 107°

3 Clearance angle of Insert selection 刀片逃隙角選用: P 11° > C 7° > B 5° > N 0°

4 Insert corner radius selection 刀尖R角選用: 0.4mm > 0.2mm > 0.8mm

// Insert corner radius 0.4mm: Less cutting resistance, there is less tendency for vibration.

R角0.4mm的刀片: 切削阻力較小, 較不易引起震動

// Insert corner radius 0.2mm: It is recommended for high L/D and suitable for light cutting.

R角0.2mm的刀片: 建議用於高倍數, 適合輕切削

// Insert corner radius 0.8mm: Larger cutting resistance, there is higher tendency for vibration.

It is recommended for low L/D (3D-5D) and suitable for roughing.

R角0.8mm的刀片: 切削阻力較大, 較易引起震動, 建議用於低倍數, 適合粗車

■ It is not recommended to use Insert corner radius more than 0.8mm.

不建議使用R角0.8mm以上的刀片

| 加工條件方面 MACHINING CONDITION

1 Cutting speed (Vc : m/min) 切削速度:

// It is recommended to be consistent with the machining conditions of the insert.

建議與刀片的加工條件一致

// Below Vc 80 m/min will cause the insert wear and vibration.

低於米速80會造成刀片磨耗及引起震動

■ In-plant test Vc 80m/min ~ Vc 300m/min works better.

廠內測試 Vc 80m/min ~ Vc 300m/min 效果較佳

2 Feed speed(F : mm/rev) 進給速度:

// The roughing feed is between 0.2 mm/rev and 0.3 mm/rev.

粗車進給約0.2mm/rev~0.3mm/rev之間

// If the finishing feed is less than 0.1mm/rev, the cutting speed must be increased to more than

Vc 160 m/min to obtain a better cutting surface.

若精修進給小於0.1則須將米速提高到160以上, 才可得到較好的表面粗度

| 夾持 CLAMP



1 It is recommended to use Anti-Vibration Cutting Sleeve to clamp the cutting tools.

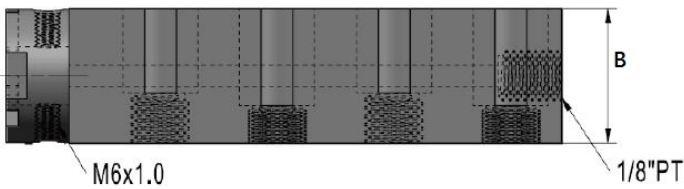
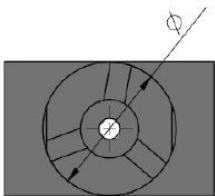
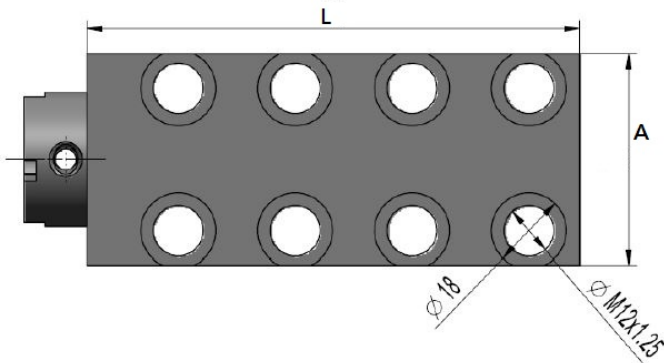
建議使用抗震刀套夾持

2 Since anti-vibration cutting sleeve completely encases the bar, not cylindrical sleeve with screws, therefore, it is more stable and will not damage the damper system.

由於抗震刀套將刀桿完全包住夾緊, 非一般刀套螺絲鎖固, 因此較為穩定也不會傷及制震器

外徑刀轉換座 (快拆刀座)

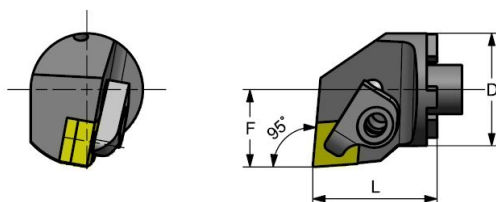
Patent:l783542



Order No.	Φ	L(mm)	A	B
QRTH-4020-CP25	25	95	40	25
QRTH-5025-CP32	32	118	50	32
QRTH-6432-CP40	40	135	64	40

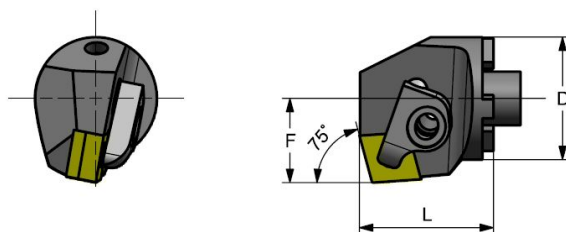
外徑車刀頭

E-YCLN



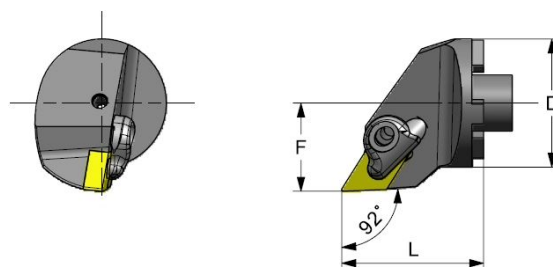
Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	D	F	K	L							
CP3-25-E-YCLNR/L-09	25	17	10	28	CN..090404	D-CLN2	M4	AD02	-----	-----	LW025
CP4-32-E-YCLNR/L-12	32	22	10	35	CN..120404	D-CLN	M6	AD01	GMC-422-4	M5	LW050
CP5-40-E-YCLNR/L-12	40	27	10	38	CN..120404	D-CLN	M6	AD01	GMC-422-4	M5	LW050

E-YCKN



Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	D	F	K	L							
CP3-25-E-YCKNR/L-09	25	17	10	28	CN..090404	D-CLN2	M4	AD02	-----	-----	LW025
CP4-32-E-YCKNR/L-12	32	22	10	35	CN..120404	D-CLN	M6	AD01	GMC-422-2	M5	LW050
CP5-40-E-YCKNR/L-12	40	27	10	38	CN..120404	D-CLN	M6	AD01	GMC-422-2	M5	LW050

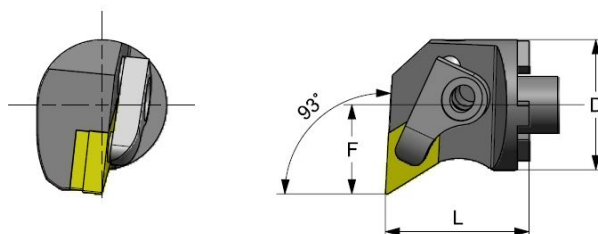
E-YDJN



Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	D	F	K	L							
CP3-25-E-YDJNR/L-11	25	17	6	28	DN..1104	D-CLN2	M4	AD02	-----	-----	LW025
CP4-32-E-YDJNR/L-15	32	22	6	35	DN..150404	D-CLN2	M6	AD01	GMD-422-2	M4	LW050
CP5-40-E-YDJNR/L-15	40	27	6	38	DN..1504 DN..1506	D-CLN2	M6	AD01	GMD-422-2	M4	LW050

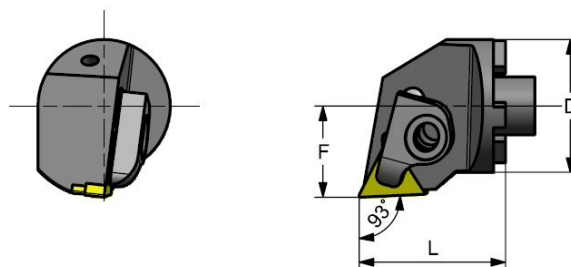
外徑車刀頭

E-YDUN



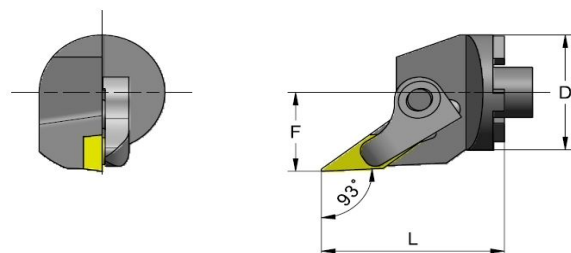
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CP4-32-E-YDUNR/L-15	32	22	6	35	DN..150404 DN..150604	D-CLN	M6	AD01	GMD-422-2	M4	LW050
CP5-40-E-YDUNR/L-15	40	27	6	38	DN..150404 DN..150604	D-CLN	M6	AD01	GMD-422-2	M4	LW050

E-YTJN



Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	D	F	K	L							
CP3-25-E-YTJNR/L-11	25	17	6	28	TN..110404	D-CLN2	M4	AD02	-----	-----	LW025
CP4-32-E-YTJNR/L-16-F22	32	22	6	35	TN..160404	D-CLN	M6	AD01	GMT-321-1	M4	LW050
CP5-40-E-YTJNR/L-16	40	27	6	38	TN..160404	D-CLN	M6	AD01	GMT-321-1	M4	LW050

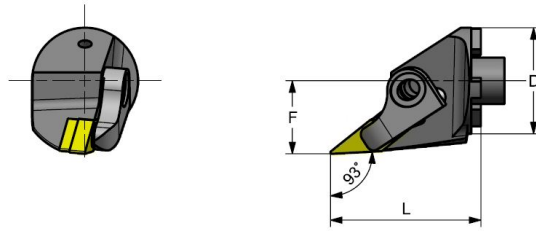
E-YVJC



Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	D	F	K	L							
CP3-25-E-YVJCR/L-11	25	17	0	45	VCMT110304	D-CLN	M4	AD01	-----	-----	LW050
CP4-32-E-YVJCR/L-16-F22	32	22	0	45	VCMT160404	D-CLN	M6	AD01	-----	-----	LW050
CP5-40-E-YVJCR/L-16	40	27	0	48	VCMT160404	D-CLN	M6	AD01	-----	-----	LW050

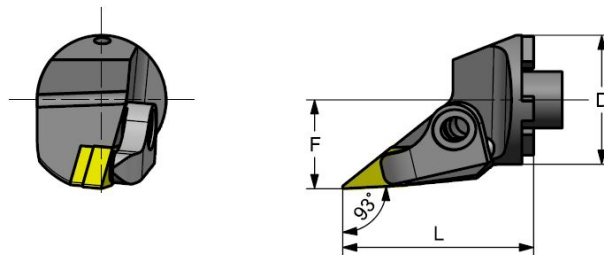
外徑車刀頭

E-YVJN



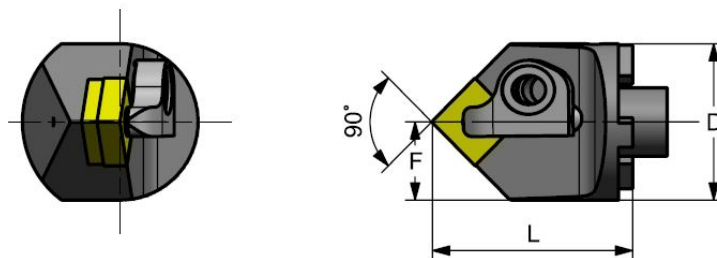
Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	D	F	K	L							
CP4-32- E-YVJNR/L-16-F22	32	22	9	35	VNMG160404	D-VJN-1	M6	AD01	GMV-322	M4	LW050
CP5-40- E-YVJNR/L-16	40	27	9	38	VNMG160404	D-VJN-1	M6	AD01	GMV-322	M4	LW050

E-YVJN-加長斜邊



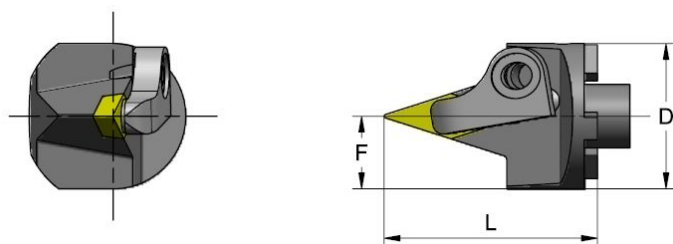
Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	D	F	K	L							
CP4-32-E-YVJNR/L-16-F22	32	22	9	45	VNMG160404	D-VJN-1	M6	AD01	GMV-322	M4	LW050
CP5-40-E- YVJNR/L-16	40	27	9	45	VNMG160404	D-VJN-1	M6	AD01	GMV-322	M4	LW050

E-YSDN



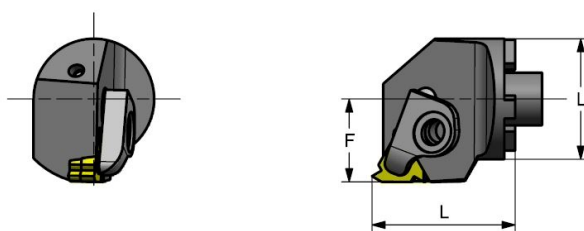
Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	D	F	K	L							
CP3-25-E-YSDN-09	25	0	9	28	SNMG090304	D-CLN2	M4	AD02	-----	-----	LW025
CP4-32-E-YSDN-12-32MM	32	0	9	35	SNMG120404	D-CLN	M6	AD01	GMS-422	M5	LW050
CP5-40-E-YSDN-12	40	0	9	38	SNMG120404	D-CLN	M6	AD01	GMS-422	M5	LW050

E-YVVN



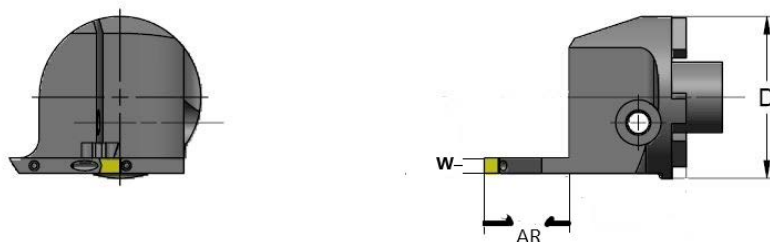
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Right / Left	D	F	K	L							
CP3-25-E-YVVN-06	25	0	6	28	VNMG1604	D-CLN2	M4	AD01	GMW-322	M4	LW025
CP4-32-E-YVVN-08	32	0	6	35	VNMG1604	D-CLN	M6	AD01	GMW-322	M4	LW050
CP5-40-E-YVVN-08	40	0	6	38	VNMG1604	D-CLN	M6	AD01	GMW-322	M4	LW050

E-YER16



Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	D	F	K	L							
CP3-25-E-YER16-F17	25	17	10	28	16ER	D-CLN2	M4	AD02	-----	-----	LW025
CP4-32-E-YER16-F22	32	22	10	35	16ER	D-CLN	M6	AD01	GMG-321R-2	M3.5	LW050
CP5-40-E-YER16-F27	40	27	10	38	16ER	D-CLN	M6	AD01	GMG-321R-2	M3.5	LW050

槽刀刀頭



產品型號 Model No	W (mm)	AR (mm)	D (mm)	緊鎖 Screw	Wrench L 型板手
CP4-GX24-2E3-E25R-32MM	3	25	32	M5	LW040
CP4-GX24-2E3-E21R-32MM	3	21	32	M5	LW040
CP4-GX35-2E3-E36R-32MM	3	36	32	M5	LW040
CP5-GX24-2E3-E25R-40MM	3	25	40	M5	LW040
CP5-GX24-2E3-E21R-40MM	3	21	40	M5	LW040
CP5-GX35-2E3-E36R-40MM	3	36	40	M5	LW040

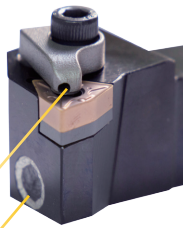
Y型(出水)(抗震)外徑車刀 Y-Type (Anti-Vibration) External Turning Tool (with Coolant Hole)

Invention Patent 發明專利
US8371776 / I638692 / I419764

Material: SNCM439(Alloy Steel)
材質: 藍十字合金鋼
Hardness: HRC 42°
硬度: HRC 42度

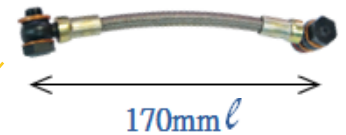


Coolant hole 出水孔	2.5mm	1.8mm
Pump 水壓泵浦	≤ 20 bar	≥ 40 bar



Damper system
制震器

High pressure
water spray pipe
高壓噴水管



170mm

01. Anti-Vibration x Coolant Hole 有抗震+有出水:

- With high pressure water spray pipe, using high pressure coolant system, less built-up edge. 搭配高壓噴水管, 使用高壓中心出水, 不易產生積屑瘤
- Increasing the effect of lubrication and cooling, solving the problem of chip removal and chip breaking. 增加潤滑及降溫效果, 解決排屑及斷屑問題
- Less insert consumption, optimizing the workpiece surface. 減少刀片消耗, 優化工件表面粗糙度
- Resetting insert accurately, changing insert quickly. 重複定位刀片準確, 替換刀片快速

02. No Anti-Vibration x Coolant Hole 沒抗震+有出水:

- With high pressure water spray pipe, using high pressure coolant system, less built-up edge. 搭配高壓噴水管, 使用高壓中心出水, 不易產生積屑瘤
- Increasing the effect of lubrication and cooling, solving the problem of chip removal and chip breaking. 增加潤滑及降溫效果, 解決排屑及斷屑問題
- Resetting insert accurately, changing insert quickly. 重複定位刀片準確, 替換刀片快速

03. Anti-Vibration x No Coolant Hole 有抗震+沒出水:

- Less insert consumption, optimizing the workpiece surface. 減少刀片消耗, 優化工件表面粗糙度
- Resetting insert accurately, changing insert quickly. 重複定位刀片準確, 替換刀片快速

04. No Anti-Vibration x No Coolant Hole 沒抗震+沒出水:

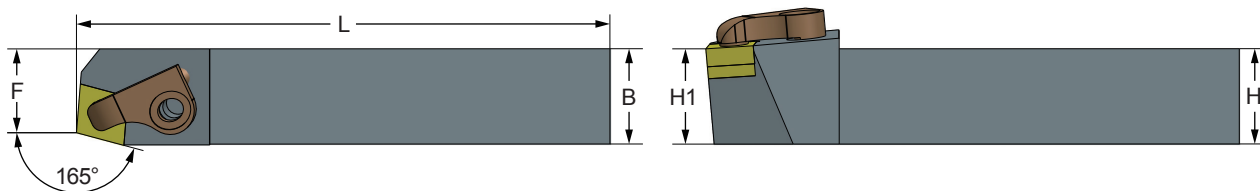
- Resetting insert accurately, changing insert quickly. 重複定位刀片準確, 替換刀片快速

提供訂製特殊柄徑及特殊長度刀桿 Customized tool diameter and length are available.

Y型(出水)(抗震)外徑車刀

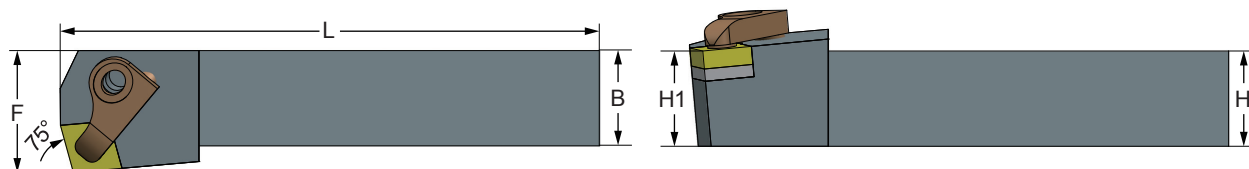
Y-Type (Anti-Vibration) External Turning Tool (with Coolant Hole)

YCBN



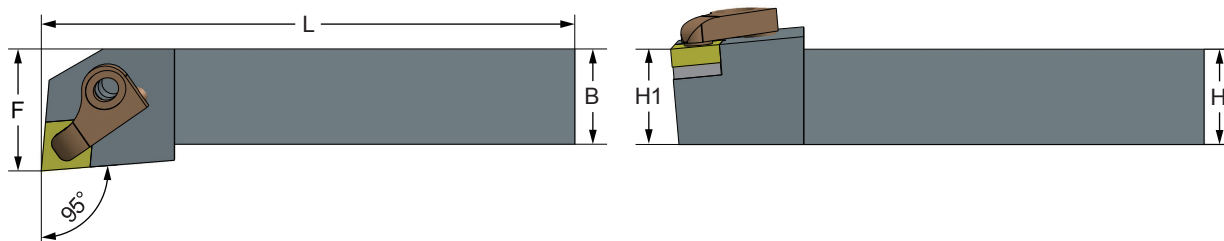
Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	H/H1	B	L	F							
YCBNR/L-2020K12	20	20	125	17	CNMG1204	D-CBN	M6	AD01	GMC-422-4	M5	LW050
YCBNR/L-2525M12	25	25	145	22							
YCBNR/L-3232P12	32	32	170	29							

YCKN



Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	H/H1	B	L	F							
YCKNR/L-2020K12	20	20	125	25	CNMG1204	D-CKN	M6	AD01	GMC-422-4	M5	LW050
YCKNR/L-2525M12	25	25	145	32							
YCKNR/L-3232P12	32	32	170	40							

YCLN

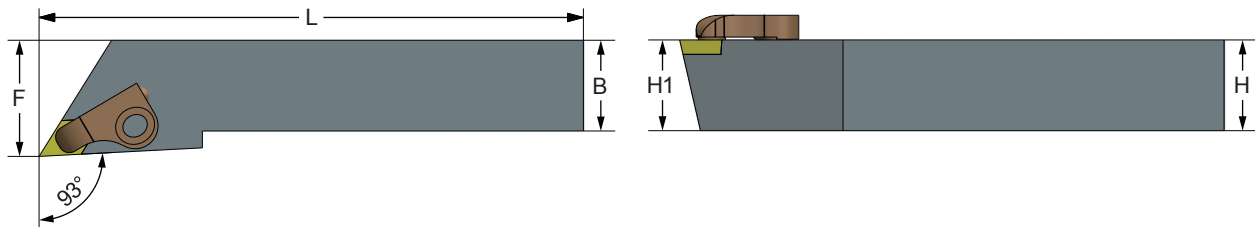


Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	H/H1	B	L	F							
YCLNR/L-2020K12	20	20	125	25	CNMG1204	D-CLN	M6	AD01	GMC-422-4	M5	LW050
YCLNR/L-2525M12	25	25	145	32							
YCLNR/L-3232P12	32	32	170	40							

Y型出水抗震外徑車刀

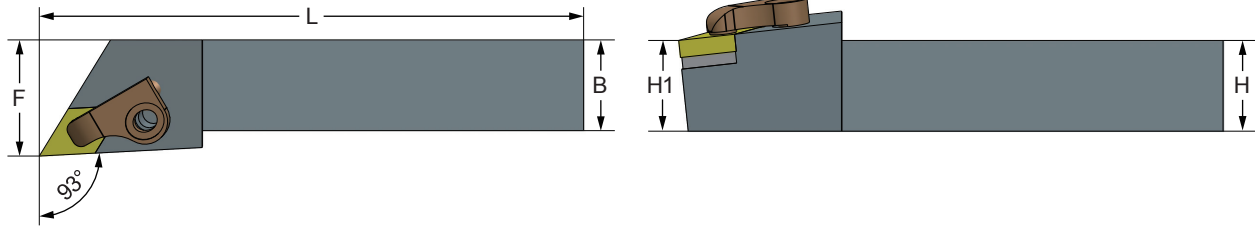
Y-Type (Anti-Vibration) External Turning Tool (with Coolant Hole)

YDJC



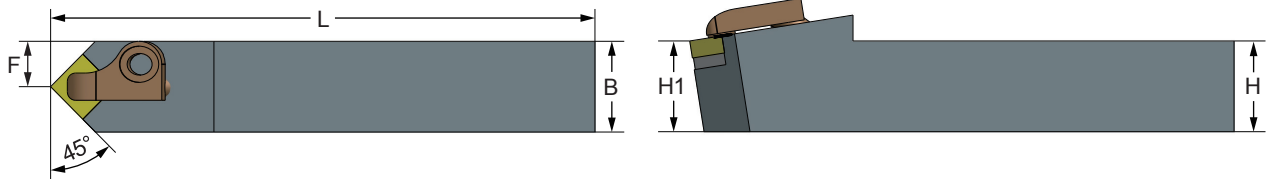
Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Wrench
Right / Left	H/H1	B	L	F					
YDJCR/L-2020K11	20	20	125	25	DCMT11T3	D-DJC	M6	AD01	LW050
YDJCR/L-2525M11	25	25	145	32					

YDJN



Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	H/H1	B	L	F							
YDJNR/L-2020K1504	20	20	125	25	DNMG1504	D-DJN	M6	AD01	GMD-422-2	M4	LW050
YDJNR/L-2525M1504	25	25	145	32							

YSNN



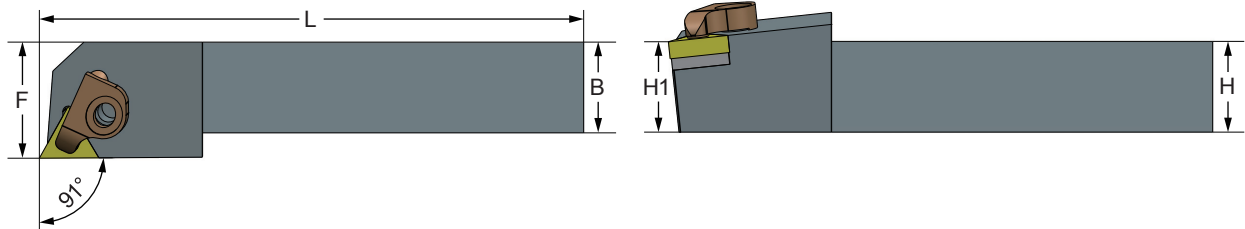
Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	H/H1	B	L	F							
YSNNN-2020K12	20	20	125	10	SNMG1204	D-SNN	M6	AD01	GMS-422	M6	LW050
YSNNN-2525M12	25	25	145	12.5							

提供訂製特殊柄徑及特殊長度刀桿 Customized tool diameter and length are available.

Y型(出水)(抗震)外徑車刀

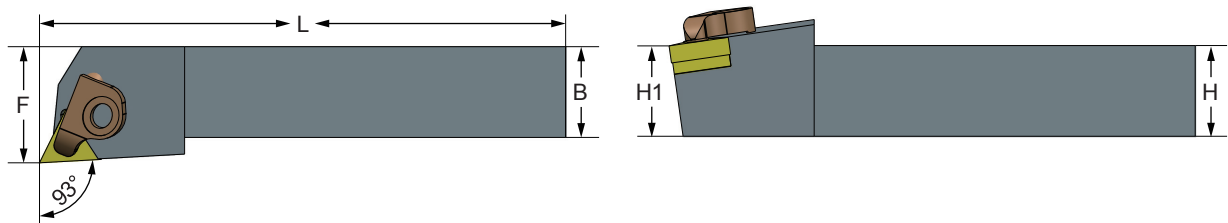
Y-Type (Anti-Vibration) External Turning Tool (with Coolant Hole)

YTGN



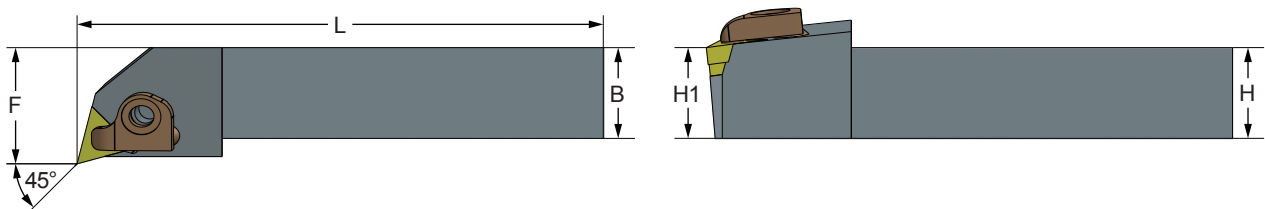
Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	H/H1	B	L	F							
YTGNR/L-2020K16	20	20	125	25	TNMG1604	D-TGN	M6	AD01	GMT-321-1	M4	LW050
YTGNR/L-2525M16	25	25	145	32							

YTJN-1



Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	H/H1	B	L	F							
YTJNR/L-2020K16-1	20	20	125	25	TNMG1604	D-TJN	M6	AD01	GMT-321-1	M4	LW050
YTJNR/L-2525M16-1	25	25	145	32							
YTJNR/L-3232P16-1	32	32	170	40							

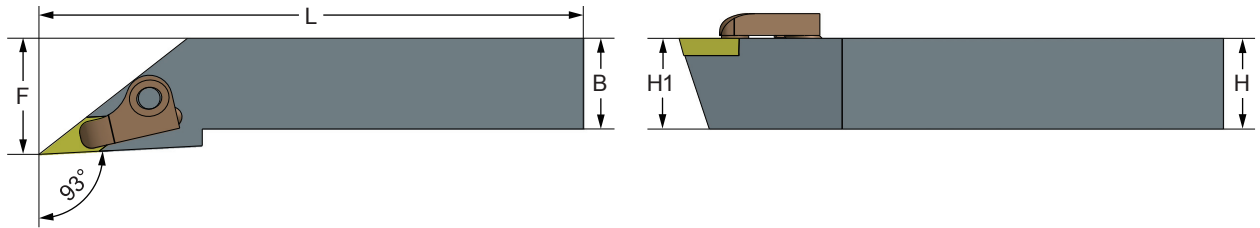
YTQN



Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	H/H1	B	L	F							
YTQNR/L-2020K16	20	20	125	25	TNMG1604	D-TQN	M6	AD01	GMT-321-1	M4	LW050
YTQNR/L-2525M16	25	25	145	32							

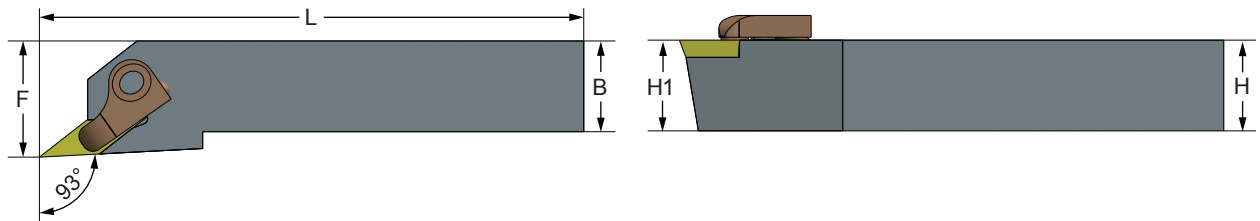
Y型(出水)(抗震)外徑車刀 Y-Type (Anti-Vibration) External Turning Tool (with Coolant Hole)

YVJB



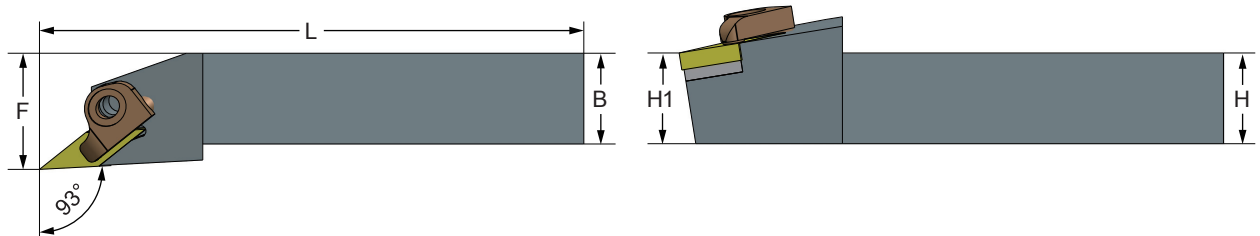
Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Wrench
Right / Left	H/H1	B	L	F					
YVJBR/L-2020K16	20	20	125	25	VBMT1604	D-VJB	M6	AD01	LW050
YVJBR/L-2525M16	25	25	145	32					

YVJC



Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Wrench
Right / Left	H/H1	B	L	F					
YVJCR/L-2020K16	20	20	125	25	VCMT1604	D-VJC	M6	AD01	LW050
YVJCR/L-2525M16	25	25	145	32					
YVJCR/L-2525M11	25	25	145	32	VCMT1103				

YVJN

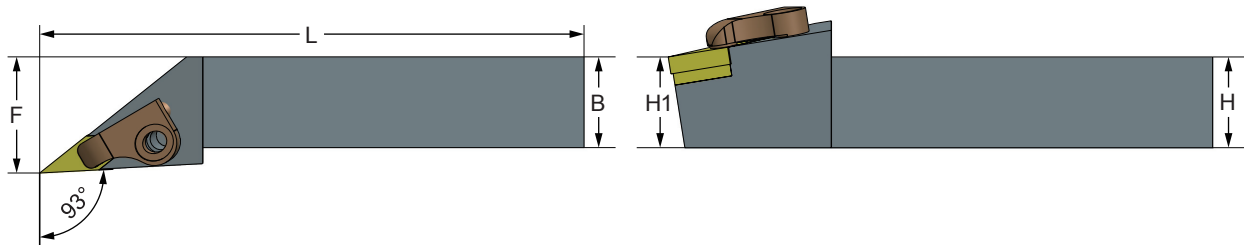


Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	H/H1	B	L	F							
YVJNR-2020K16	20	20	125	25	VNMG1604	D-VJN-1	M6	AD01	GMV-322	M4	LW050
YVJNR-2525M16	25	25	145	32							

提供訂製特殊柄徑及特殊長度刀桿 Customized tool diameter and length are available.

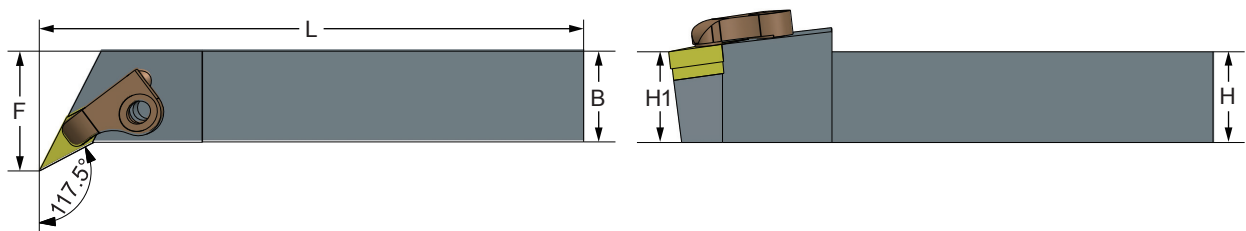
Y型(出水)(抗震)外徑車刀 Y-Type (Anti-Vibration) External Turning Tool (with Coolant Hole)

YVJN-CB



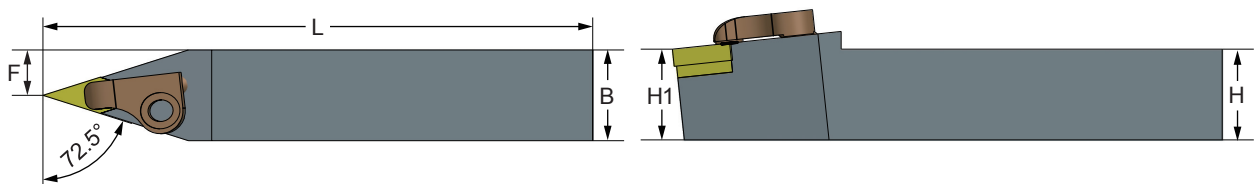
Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	H/H1	B	L	F							
YVJNR/L-2020K16-CB	20	20	125	25	VNMG1604	D-VJN	M6	AD01	GMV-322	M4	LW050
YVJNR/L-2525M16-CB	25	25	145	32							

YVQN



Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	H/H1	B	L	F							
YVQNR/L-2020K16	20	20	125	25	VNMG1604	D-VQN	M6	AD01	GMV-322	M4	LW050
YVQNR/L-2525M16	25	25	145	32							

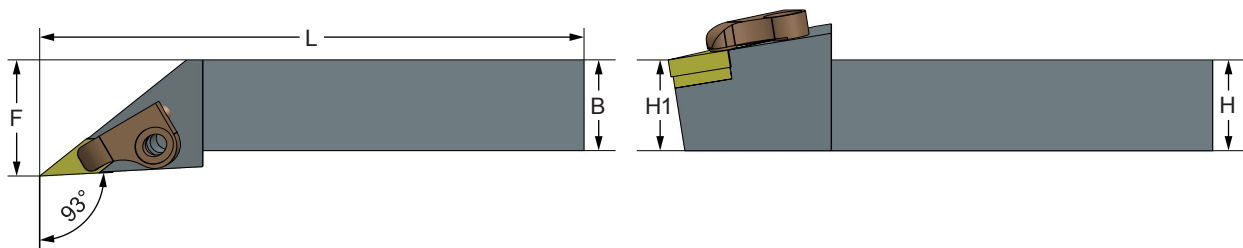
YVVN



Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	H/H1	B	L	F							
YVVN -2020K16	20	20	125	10	VNMG1604	D-VVN	M6	AD01	GMV-322	M4	LW050
YVVN -2525M16	25	25	145	12.5							

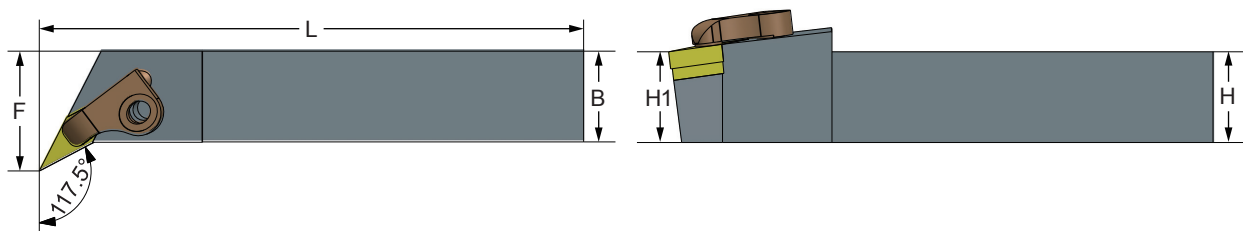
Y型(出水)(抗震)外徑車刀 Y-Type (Anti-Vibration) External Turning Tool (with Coolant Hole)

YVJN-CB



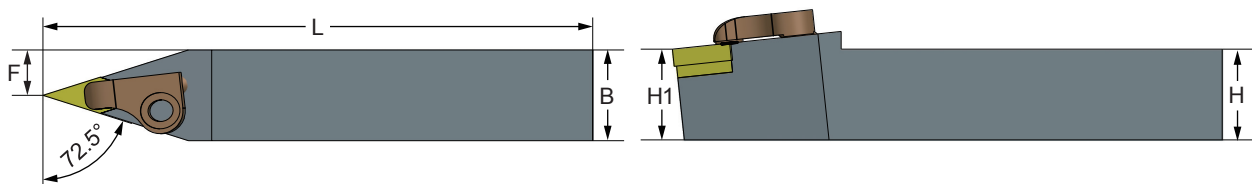
Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	H/H1	B	L	F							
YVJNR/L-2020K16-CB	20	20	125	25	VNMG1604	D-VJN	M6	AD01	GMV-322	M4	LW050
YVJNR/L-2525M16-CB	25	25	145	32							

YVQN



Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	H/H1	B	L	F							
YVQNR/L-2020K16	20	20	125	25	VNMG1604	D-VQN	M6	AD01	GMV-322	M4	LW050
YVQNR/L-2525M16	25	25	145	32							

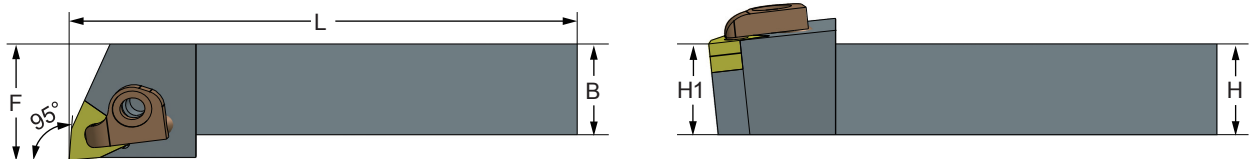
YVVN



Order No.	Dimensions (mm)				Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	H/H1	B	L	F							
YVVN -2020K16	20	20	125	10	VNMG1604	D-VVN	M6	AD01	GMV-322	M4	LW050
YVVN -2525M16	25	25	145	12.5							

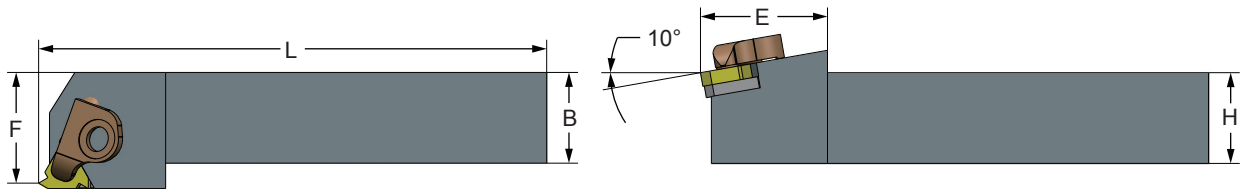
Y型(出水)(抗震)外徑車刀
Y-Type (Anti-Vibration) External Turning Tool (with Coolant Hole)

YWLNR-1



Order No.	Dimensions (mm)					Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	H/H1	B	L	F								
YWLNR/L-2020K08-1	20	20	125	25	WNMG0804	D-WLN	M6	AD01	GMW-422-1	M5	LW050	
YWLNR/L-2525M08-1	25	25	145	32								
YWLNR/L-3232P08-1	32	32	170	40								

YER

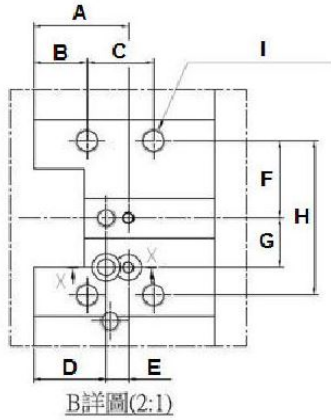
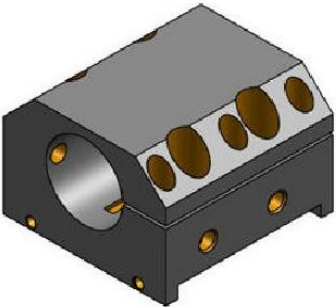


Order No.	Dimensions (mm)						Insert	Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right / Left	H	B	L	E	F								
YER-2525M16-0°	25	25	135	30	32	ER16	D-ER	M6	AD01	GMG-321R	M3.5	LW050	
YER-2525M16-0.5°													
YER-2525M16-1°													
YER-2525M16-1.5°													
YER-2525M16-2°													
YER-2525M16-2.5°													
YER-2525M16-3°													
YER-2525M16-3.5°													

提供訂製特殊柄徑及特殊長度刀桿 Customized tool diameter and length are available.

直竄式抗震刀座

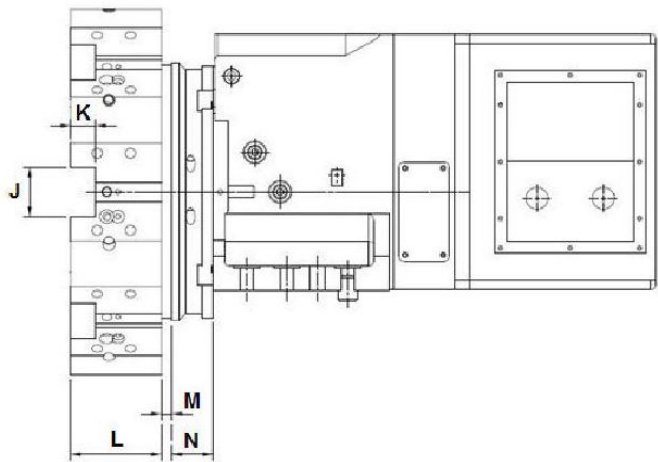
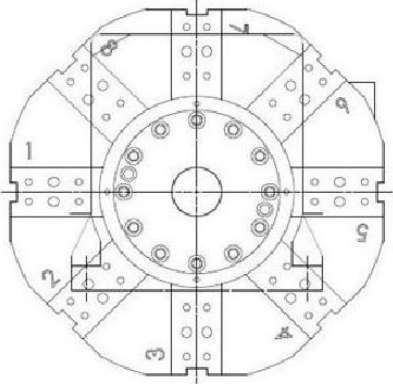
Pantent:
I606877



Features特色:

快速把主軸與刀座調成同軸心。

無定位槽



直竄式抗震刀座	型號
	MOO-60
	MOO-50
	MOO-40
	MOO-32



Monkula

外徑刀配件-高壓噴水管

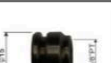
Monkula[®]
MACHINING SOLVER

配管零件 Pipe fittings

圖解 Fig	產品型號 Model No.	長度 Length
	hph-135 高壓軟管 High-pressure hose	135 mm

圖解 Fig	產品型號 Model No.	品名 Accessories	進水孔徑 Inlet Diameter
	HS-3	注油螺絲 High-pressure hose fitting	3mm
	HS-5	注油螺絲 High-pressure hose fitting	5mm

圖解 Fig	產品型號 Model No.	品名 Accessories	接口螺牙 Connector threads
	ad1814	轉接頭 Reduction adaptor	1/4"PT
	ad1414	轉接頭 Reduction adaptor	1/8"PT

圖解 Fig	產品型號 Model No.	品名 Accessories	圖解 Fig	產品型號 Model No.	品名 Accessories
	ad18	轉接頭 Adapter		ad12.7	轉接頭 Adapter
	ad15.8	轉接頭 Adapter		ad12	轉接頭 Adapter
	ad15	轉接頭 Adapter		ad10	轉接頭 Adapter
	ad14	轉接頭 Adapter		CG10	銅墊片 Copper gasket

Material: SNCM439(Alloy Steel)
材質: 藍十字合金鋼
Hardness: HRC 42°
硬度: HRC 42度

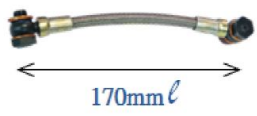


Coolant hole 出水孔	2.5mm	1.8mm
Pump 水壓泵浦	≤ 20 bar	≥ 40 bar

Damper system
制震器



High pressure
water spray pipe
高壓噴水管

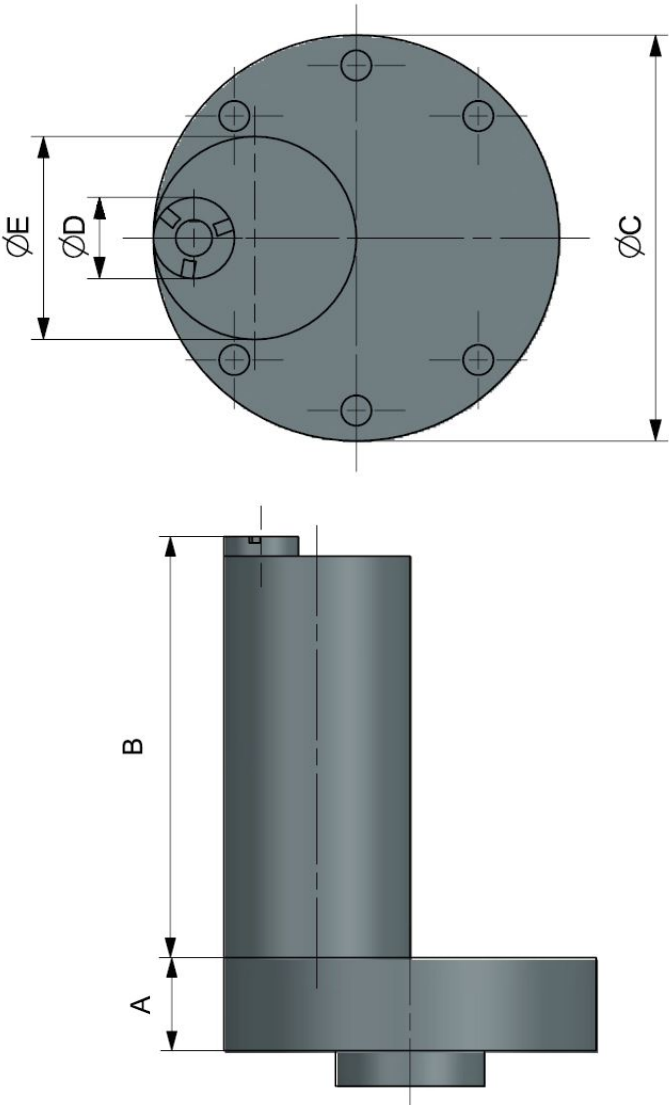


增程抗震刀桿

MDPLUS

Invention Patent 發明專利
I 768945

- 可將巨型抗震車刀的倍數加長
The magnification of the giant anti-vibration boring bars can be extended
- 加工球體曲面與異徑有更高的可靠性
Machining spherical surfaces and varying diameters offers higher reliability.



Order No.	A	B	C	D	E
MDPLUS-100-50	32.5	165	100	40	50
MDPLUS-120-60	40	205	120	40	60
MDPLUS-150-80	45	265	150	40	80
MDPLUS-180-100	50	380	180	40	100
MDPLUS-200-100	51.5	420	200	40	100
MDPLUS-250-120	55	520	250	40	120

可拆式車刀-活笛刀

Removable Cutting Head Turning Tool

Invention Patentt 發明專利
I606877



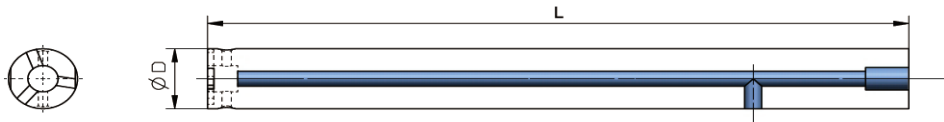
Material : SNCM439(Alloy Steel)
材質: 藍十字合金鋼
Hardness: HRC 42
硬度: HRC 42度



Material : SCM440(Alloy Steel)
材質: 紅十字合金鋼
Hardness: HRC 42
硬度: HRC 42度

Features 特色

- 01 The cutter heads are hight-pressure chip breaking coolant spray design, which is conducive to chip breaking.
刀頭均採用符合高壓斷屑噴水設計，有利於排斷屑
- 02 Patented side coolant inlet, the cutter holder does not need a back cover and does not a coolant pipe. Not only can directly guide the coolant out of the center, but also can stretch to a limited length without cutting.
專利的側邊進水方式，刀座無需後蓋，無需接水管。不僅可直接導引中心出水，且可有限度伸縮長度，不需要裁切。



Order No.	ΦD(mm)	L(mm)	可換式車刀頭 Removable Cutting Head	Screw	Wrench
A10-115P	10	115	CP1-10-S/Y/P-Type	M3	1.5
A12-120P	12	120	CP1-12-S/Y/P-Type	M3	1.5
A14-122P	14	122	CP1-14-S/Y/P-Type	M3	1.5
A16-123P	16	123	CP1-16-S/Y/P-Type	M4	2
A18-128P	18	128	CP1-18-S/Y/P-Type		
A20-231P	20	231	CP2-20-S/Y/P-Type		
A25-142.5P	25	142.5	CP3-25-S/Y/P-Type	M6	3
A32-156P	32	156	CP4-32-S/Y/P-Type		
A40-176.5P	40	176.5	CP5-40-S/Y/P-Type		

FI 擾頻抗震車刀

FI Anti-Vibration Turning Tool with Coolant Hole-Super Toughness

Invention Patentt 發明專利
I698298

Features 特色



- 01 The increasing rigidity on boring bar is by the tungsten steel, and the toughness of the body can reduce the accidental impact during turning, thereby protecting the boring bar.

藉由內含鎢鋼增加其桿體的韌性，而本體得的韌性可減緩車削時的意外衝擊，進而保護刀桿

- 02 The cutter heads are high-pressure chip breaking coolant spray design, which is conducive to chip breaking.

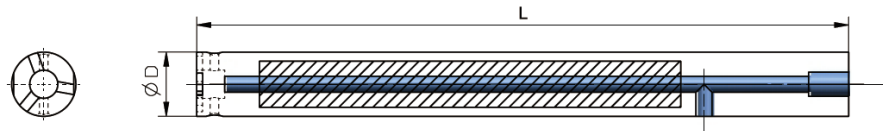
刀頭均採用符合高壓斷屑噴水設計，有利於排斷屑。

- 03 Patented side coolant inlet, the cutter holder does not need a back cover and does not need a coolant pipe. Not only can directly guide the coolant out of the center, but also can stretch to a limited length without cutting.

專利的側邊進水方式，刀座無需後蓋，無需接水管。不僅可直接導引中心出水，且可有限度伸縮長度，不需要裁切。

- 04 Because the boring bar will be reaction force by itself when the coolant is discharged under high pressure, the internal tungsten steel can increase stability and be accuracy easier on dimension.

因高壓出水時，桿體會產生字體的反作用力，內涵鎢鋼可增加其穩定性，較易於掌握尺寸精度。



Ratio	Order No.	ΦD(mm)	L(mm)	可換式車刀頭 Removable Cutting Head	Screw	Wrench
4D	F-10-135P	10	135	CP1-10-S/Y/P-Type	M3	1.5
	F-12-144P	12	144	CP1-12-S/Y/P-Type	M3	1.5
	F-14-153P	14	153	CP1-14-S/Y/P-Type	M3	1.5
	F-16-157P	16	157	CP1-16-S/Y/P-Type	M4	2
	F-18-166P	18	166	CP1-1-18-S/Y/P-Type		
	F-20-173P	20	173	CP2-20-S/Y/P-Type		
	F-25-195P	25	195	CP3-25-S/Y/P-Type	M6	3
	F-32-223P	32	223	CP4-32-S/Y/P-Type		
	F-40-260P	40	260	CP5-40-S/Y/P-Type		



CP 抗震車刀

CP Anti-Vibration Boring Bar

Invention Patentt 發明專利
US8371776 / I419764

Material: SNCM439(Alloy Steel)
材質: 藍十字合金鋼
Hardness: HRC 42°
硬度: HRC 42度

Material: SCM440(Alloy Steel)
材質: 紅十字合金鋼
Hardness: HRC 42°
硬度: HRC 42度

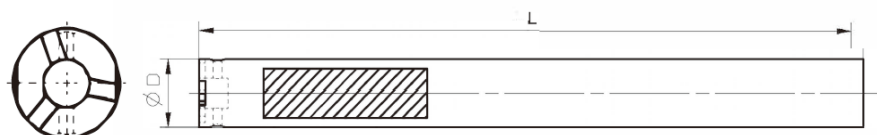


Damper system
制震器

Features 特色

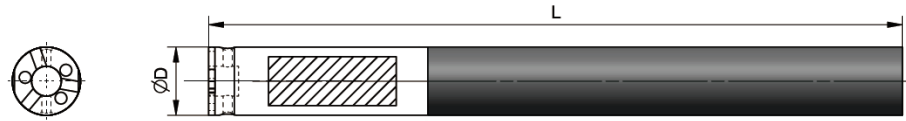
01. Suitable for deep hole roughing.
適合用於粗加工

02. Can interchange different cutting heads.
可替換不同刀頭



Ratio	Order No.	ΦD(mm)	L(mm)	可換式車刀頭 Removable Cutting Head	Screw	Wrench
5D	CP-10-135	10	135	CP1-10-STUPR/STUCR/SDUCR	M3	1.5
	CP-12-144	12	144	CP1-12-STUPR/STUCR/SDUCR	M3	1.5
	CP-14-153	14	153	CP1-14-STUPR/STUCR/SDUCR	M3	1.5
	CP-16-157	16	157	CP1-16-STUPR/STUCR/SDUCR	M4	2
	CP-18-166	18	166	CP1-1-18-STUPR/STUCR/SDUCR		
	CP-20-173	20	173	CP2-20-STUPR/STUCR/SDUCR	M6	3
	CP-25-195	25	195	CP3-25-STUPR/STUCR/SDUCR		
	CP-32-223	32	223	CP4-32-STUPR/STUCR/SDUCR		
	CP-40-260	40	260	CP5-40-STUPR/STUCR/SDUCR		

MR3S 抗震車刀 MR3S Anti-Vibration Boring Bar



Ratio	Order No.	ΦD(mm)	L(mm)	懸身長 Overhang(mm)	可換式車刀頭 Removable Cutting Head	Screw	Wrench
6D	MR3S10M-145	10	145	60	CP1-10-S-Type	M3	1.5
	MR3S12M-156	12	156	72	CP1-12-S-Type	M3	1.5
	MR3S14Q-167	14	167	84	CP1-14-S-Type	M3	1.5
	MR3S-16-L159	16	159	96	CP1-16-S-Type	M4	2
	MR3S-18-L178	18	178	108	CP1-1-18-S-Type	M4	2
8D	MR3S10Q-165	10	165	80	CP1-10-S-Type	M3	1.5
	MR3S12Q-180	12	180	96	CP1-12-S-Type	M3	1.5
	MR3S14R-195	14	195	112	CP1-14-S-Type	M3	1.5
	MR3S-16-L199	16	199	128	CP1-16-S-Type	M4	2
	MR3S-18-L218	18	218	144	CP1-1-18-S-Type	M4	2
10D	MR3S10R-185	10	185	100	CP1-10-S-Type	M3	1.5
	MR3S12X-204	12	204	120	CP1-12-S-Type	M3	1.5
	MR3S14X-223	14	223	140	CP1-14-S-Type	M3	1.5
	MR3S-16-L229	16	229	160	CP1-16-S-Type	M4	2
	MR3S-18-L258	18	258	180	CP1-1-18-S-Type	M4	2
12D	MR3S14X-251	14	251	168	CP1-14-S-Type	M3	1.5
	MR3S-16-L269	16	269	192	CP1-16-S-Type	M4	2
	MR3S-18-L298	18	298	216	CP1-1-18-S-Type	M4	2
14D	MR3S-14T-279	14	279	196	CP1-14-S-Type	M3	1.5
	MR3S-16-L309	16	309	224	CP1-16-S-Type	M4	2
	MR3S-18-L328	18	328	252	CP1-1-18-S-Type	M4	2

三叉式組合抗震車刀桿 Removable Type Anti-Vibration Boring Bar

Invention Patent 發明專利
US8371776 / I419764

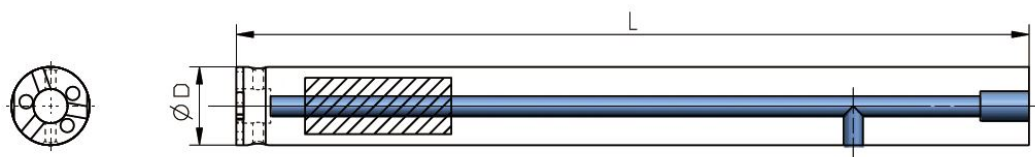
Damper system
制震器

Material: SNCM439
(Alloy Steel)
材質: 藍十字合金鋼
Hardness: HRC 42°
硬度: HRC 42度

Material: SCM440(Alloy Steel)
材質: 紅十字合金鋼
Hardness: HRC 42°
硬度: HRC 42度

Features 特色

- 01. Suitable for deep hole roughing.
適合用於粗加工
- 02. With coolant hole.
有內冷水孔
- 03. Can interchange different cutting heads.
可替換不同刀頭



Ratio	Order No.	ΦD(mm)	L(mm)	懸身長度 Overhang(mm)	可換式車刀頭 Removable Cutting Head	Screw	Wrench
6D	M6D-14-167P	14	167	84	CP1-14-S-Type	M3	1.5
	M6D-16-157P	16	157	96	CP1-16-S-Type	M4	2
	M6D-18-166P	18	166	108	CP1-18-S-Type	M4	2
	M6D-20-200P	20	200	120	CP2-20-S-Type	M4	2
	M6D-25-250P	25	250	150	CP3-25-S-Type	M6	3
	M6D-32-300P	32	300	192	CP4-32-S/P-Type	M6	3
	M6D-40-350P	40	350	240	CP5-40-S/P-Type	M6	3
	M6D-50-400P	50	400	300			
	M6D-60-450P	60	450	360			
8D	M8D-32-350P	32	350	256	CP4-32-S/P-Type	M6	3
	M8D-40-420P	40	420	320	CP5-40-S/P-Type	M6	3
	M8D-50-510P	50	510	400			
	M8D-60-620P	60	620	480			
10D	M10D-40-530P	40	530	400			
	M10D-50-668P	50	668	500			
	M10D-60-808P	60	808	600			

TSC抗震車刀 TSC Removable Type Anti-Vibration Boring Bar

Invention Patent 發明專利
I413557 /I419764



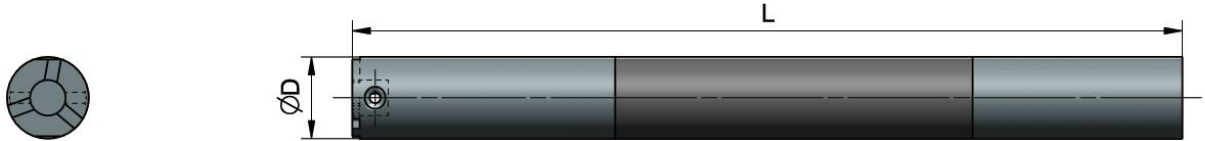
Features 特色

01. Suitable for deep hole finishing.
適合用於精加工
02. With coolant hole, can interchange different cutting heads.
有內冷水孔，可替換不同刀頭
03. Middle section is carbide, which can increase the rigidity of boring bar and make it more stable when machining.
中段採鎢鋼熔合，增加其剛性，使加工尺寸更穩定
04. Please work with anti-vibration cutting sleeve to have better anti-vibration effect.
請搭配抗震刀套使用，可享受更好的抗震效果

TSC抗震車刀

TSC Removable Type Anti-Vibration Boring Bar

Invention Patent 發明專利
I413557 /I419764



Ratio	Order No.	ΦD(mm)	L(mm)	懸身長度 Overhang(mm)	可換式車刀頭 Removable Cutting Head	Screw	Wrench
6D	TSC-14-167P	14	167	84	CP1-14-S-Type	M3	1.5
	TSC-16-159P	16	159	96	CP1-16-S/P-Type	M4	2
	TSC-18-178P	18	178	108	CP1-1-18-S/P-Type	M4	2
	TSC-20-200P	20	200	120	CP2-20-S/P-Type	M4	2
	TSC-25-250P	25	250	150	CP3-25-S/P-Type	M6	3
	TSC-32-300P	32	300	192	CP4-32-S/P-Type	M6	3
8D	TSC-14-195P	14	195	112	CP1-14-S-Type	M3	1.5
	TSC-16-199P	16	199	128	CP1-16-S/P-Type	M4	2
	TSC-18-218P	18	218	144	CP1-1-18-S/P-Type	M4	2
	TSC-20-250P	20	250	160	CP2-20-S/P-Type	M4	2
	TSC-25-300P	25	300	200	CP3-25-S/P-Type	M6	3
	TSC-32-350P	32	350	256	CP4-32-S/P-Type	M6	3
10D	TSC-14-223P	14	223	140	CP1-14-S-Type	M3	1.5
	TSC-16-229P	16	229	160	CP1-16-S/P-Type	M4	2
	TSC-18-258P	18	258	180	CP1-1-18-S/P-Type	M4	2
	TSC-20-300P	20	300	200	CP2-20-S/P-Type	M4	2
	TSC-25-350P	25	350	320	CP3-25-S/P-Type	M6	3
	TSC-32-420P	32	420	400	CP4-32-S/P-Type	M6	3
	TSC-40-520P	40	520	320	CP5-40-S/P-Type	M5	3
12D	TSC-14-251P	14	251	168	CP1-14-S-Type	M3	1.5
	TSC-16-269P	16	269	240	CP1-16-S/P-Type	M4	2
	TSC-18-298P	18	298	300	CP1-1-18-S/P-Type	M4	2
	TSC-20-340P	20	340	240	CP2-20-S/P-Type	M4	2
	TSC-25-400P	25	400	300	CP3-25-S/P-Type	M6	3
	TSC-32-480P	32	480	384	CP4-32-S/P-Type	M6	3
	TSC-40-580P	40	580	480	CP5-40-S/P-Type	M6	3
14D	TSC-14-279P	14	279	196	CP1-14-S-Type	M3	1.5
	TSC-16-309P	16	309	280	CP1-16-S/P-Type	M4	2
	TSC-18-328P	18	328	350	CP1-1-18-S/P-Type	M4	2
	TSC-20-380P	20	380	280	CP2-20-S/P-Type	M4	2
	TSC-25-450P	25	450	350	CP3-25-S/P-Type	M6	3
	TSC-32-560P	32	560	448	CP4-32-S/P-Type	M6	3
	TSC-40-660P	40	660	560	CP5-40-S/P-Type	M6	3

CI 抗震車刀

Removable Type CI Anti-Vibration Boring Bar

Invention Patent 發明專利
I413557 / I419764

Material: SNCM439(Alloy Steel)
材質: 藍十字合金鋼
Hardness: HRC 42°
硬度: HRC 42度

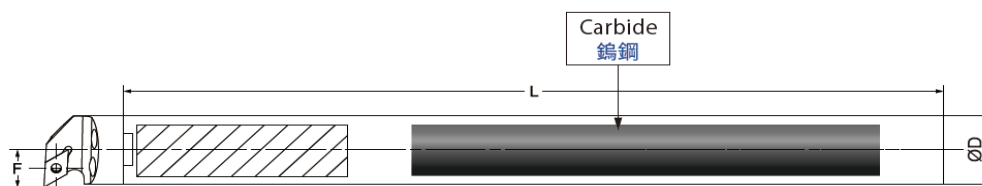
Damper system
制震器



Material: SCM440(Alloy Steel)
材質: 紅十字合金鋼
Hardness: HRC 42°
硬度: HRC 42度

Features 特色

01. C I = Carbide Inside.
內塞鎢鋼
02. Combining the advantages of Removable Type Anti-Vibration Boring Bar and TSC Removable Type Anti-Vibration Boring Bar.
結合三叉式抗震車刀和TSC抗震車刀的優點
03. Good cutting performance, suitable for roughing and finishing.
良好的切削能力, 適用於粗車及精修
04. With coolant hole.
有內冷水孔
05. Good stiffness of the tools and good precision in cutting size.
刀桿剛性良好, 尺寸的準確度佳
06. Increasing tool stiffness, reducing the risk of tool broken when machining.
增加刀桿韌性, 減少加工時斷刀的風險
07. Please work with anti-vibration cutting sleeve to have better anti-vibration effect.
請搭配抗震刀套使用, 可享受更好的抗震效果
08. Can interchange different cutting heads.
可替換不同刀頭



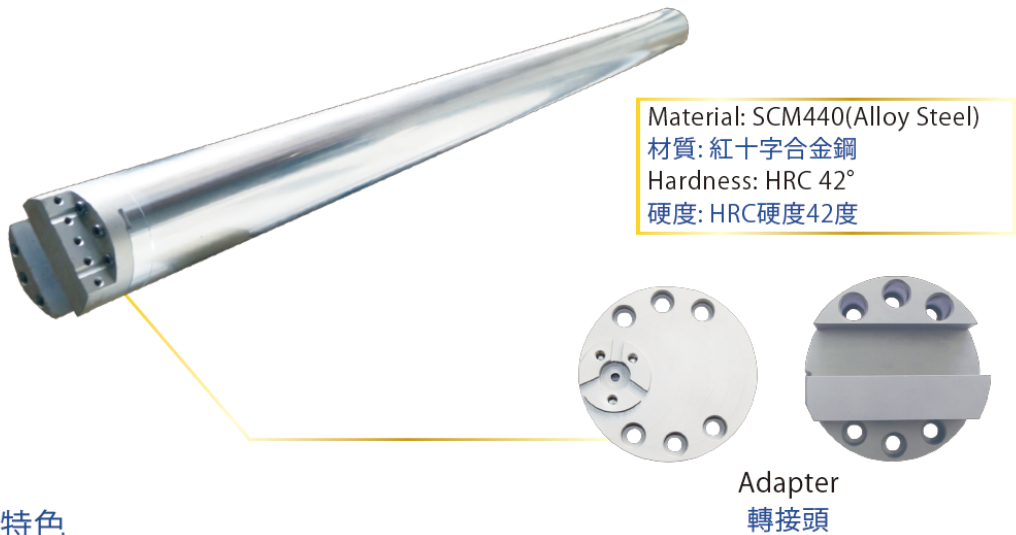
Ratio	Order No.	ΦD(mm)	L(mm)	懸身長度 Overhang(mm)	可換式車刀頭 Removable Cutting Head	Screw	Wrench
M7D	M7D-20-235-CI-P	20	235	140	CP2-20-S-Type	M4	2
	M7D-25-275-CI-P	25	275	175	CP3-25-S/P-Type	M6	3
	M7D-32-325-CI-P	32	325	224	CP4-32-S/P-Type	M6	3
	M7D-40-385-CI-P	40	385	280	CP5-40-S/P-Type	M6	3
	M7D-50-450-CI-P	50	450	350			
10D	M10D-20-300-CI-P	20	300	200	CP2-20-S-Type	M4	2
	M10D-25-350-CI-P	25	350	250	CP3-25-S/P-Type	M6	3
	M10D-32-420-CI-P	32	420	320	CP4-32-S/P-Type	M6	3
	M10D-40-520-CI-P	40	520	400	CP5-40-S/P-Type	M6	3
	M10D-50-668-CI-P	50	668	500			



巨型抗震車刀

Giant Anti-Vibration Boring Bar

Invention Patent 發明專利
US8371776



Features 特色

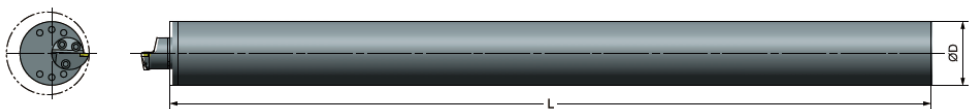
01.

Can interchange different cutting heads.
可替換不同刀頭
02.

Optimizing the workpiece surface.
優化工件表面粗糙度
03.

Machining inner and outer surface with adapter for replacement.
內、外徑加工以轉接頭更替
04.

The boring bar has damper system inside, which can increase the stability of the bar and work efficiency.
刀桿內含制震器，增加平穩度與工作效率



Ratio	Order No.	ØD (mm)	L (mm)	懸身長度 Overhang(mm)	可換式車刀頭 Removable Cutting Head	Screw 🔩	Wrench 🔑
7D	M7D-80-900P	80	900	560	CP5-40-S/P-Type	M6	5
	M7D-100-1200P	100	1200	700			
	M7D-120-1500P	120	1500	840			
	M7D-150-1900P	150	1900	1050			
	M7D-200-2400P	200	2400	1400			
	M7D-250-3200P	250	3200	1750			
10D	M10D-80-1200P	80	1200	800			
	M10D-100-1500P	100	1500	1000			
	M10D-120-1900P	120	1900	1200			
	M10D-150-2400P	150	2400	1500			
	M10D-180-2800P	180	2800	1800			
	M10D-200-3200P	200	3200	2000			
	M10D-250-4000P	250	4000	2500			

組合式抗震車刀 Combination Type Anti-Vibration Boring Bar

Invention Patent 發明專利
I419764

Damper system
制震器



Material: SCM440
材質: 紅十字合金鋼
Hardness: HRC 42°
硬度: HRC 42度

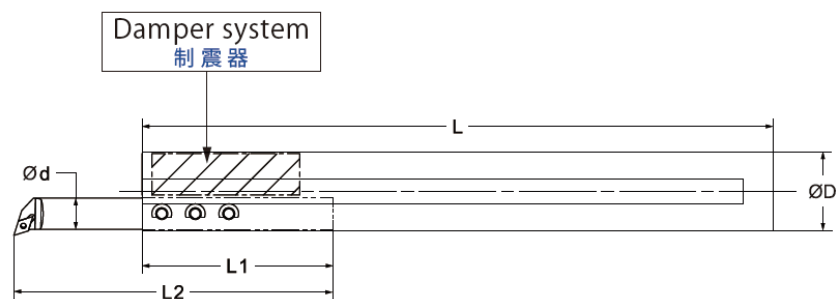
Features 特色

- 01. With coolant Hole.
有內冷水孔
- 02. With coolant system to extend tool life span and good cutting surface.
中心出水延長刀桿壽命並獲得良好的表面粗糙度
- 03. The tool is off center design and suitable for different diameter machining.
刀桿採偏心式設計，適合異徑加工
- 04. The front boring bar can be replaced freely (Boring bar with / without anti-vibration / carbide boring bar / left or right hand boring bar).
小徑刀桿可選用任意品牌刀桿，左右手刀桿皆可

Ratio	Order No.	ΦD (mm)	Φd (mm)	L (mm)	L1 (mm)	懸身長度 L2 (mm)
4D	MT32-S12H	32	12	160	95	120
	MT32-S16H	32	16	160	95	175
	MT40-S12H	40	12	180	115	224
	MT40-S16H	40	16	180	115	280
	MT40-S20H	40	20	400	120	350
	MT50-S16H	50	16	200	95	175
	MT50-S20H	50	20	200	115	224
	MT50-S25H	50	25	200	115	280
	MT60-S20H	60	20	200	120	350
	MT60-S25H	60	25	200	115	280
	MT60-S32H	60	32	200	120	350

組合式抗震車刀 Combination Type Anti-Vibration Boring Bar

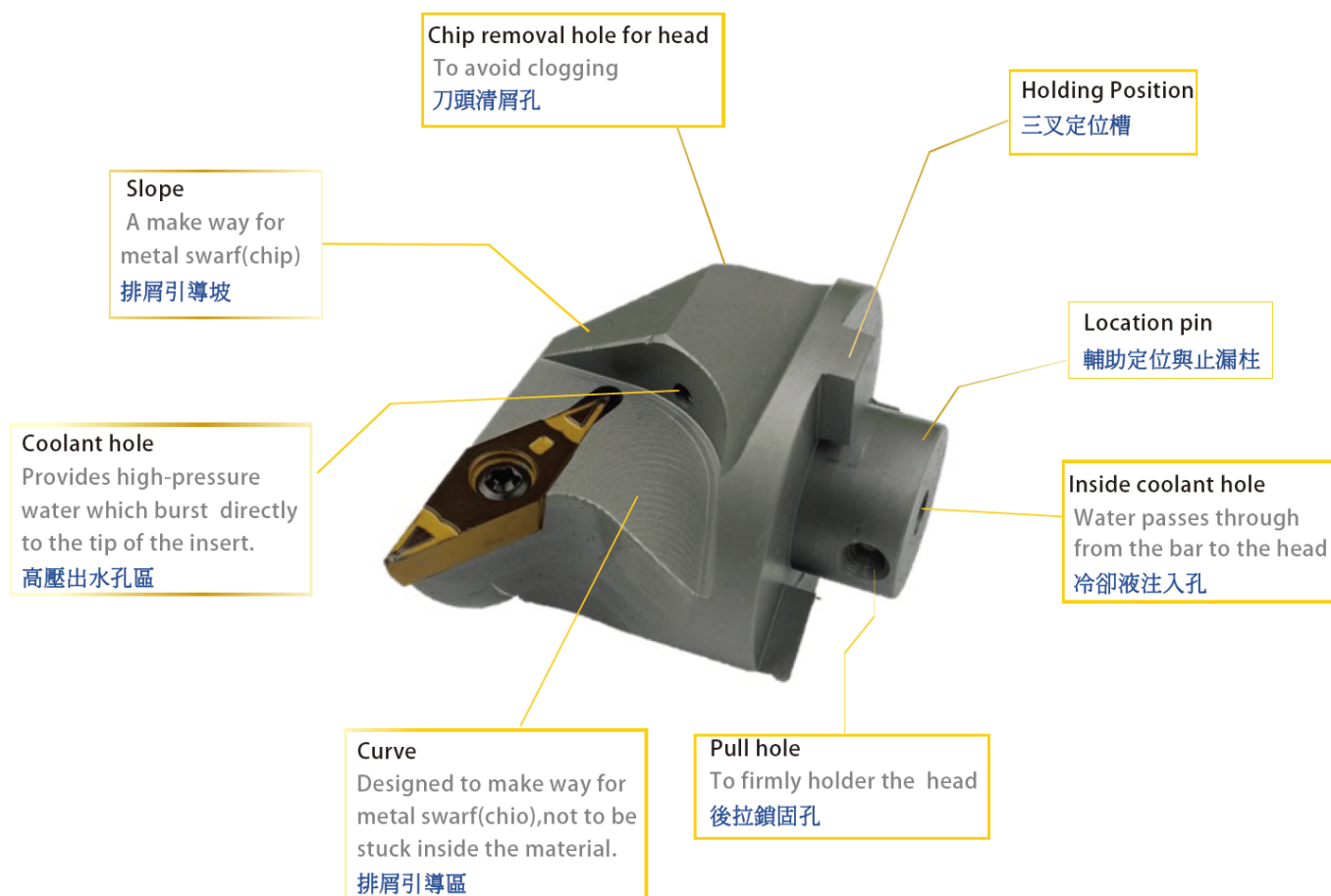
Invention Patent 發明專利
I419764



Ratio	Order No.	ΦD (mm)	Φd (mm)	L (mm)	L1 (mm)	懸身長度 L2 (mm)
6D	MT20-S08L-200	20	8	200	95	120
7D	MT25-S10L-200	25	10	200	95	175
	MT32-S12L-280	32	12	280	115	224
	MT40-S16L-320	40	16	320	115	280
	MT50-S20L-400	50	20	400	120	350
	MT60-S25L-540	60	25	540	120	420
	MT80-S32L-680	80	32	680	120	560
10D	MT100-S32L-1500	100	32	1500	250	1000

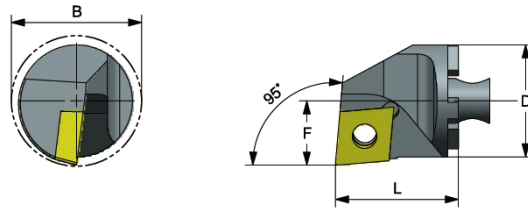
可換式車刀頭 Removable Cutting Head

Type 刀型	Shim 墊片	Advantage 優點	Machining 加工	Disadvantage 缺點
S-Type	No	Less cutting resistance 切削阻力小	Profile turning, reducing interference 仿型加工、減少干涉	High insert price 刀片價格高
Y-Type	Yes	Suitable for heavy cutting, reset accurately, good chip breaking effect with high pressure equipment 適合重切削, 重複定位準確 使用高壓設備斷屑效果良好	Interrupted cutting 斷續車削	Poor chip removal 排屑較不好
P-Type	No	Good chip removal 排屑良好	Continuous cutting 連續車削	Large interrupted cutting may cause insert displacement 大斷續切削恐有刀片位移之虞



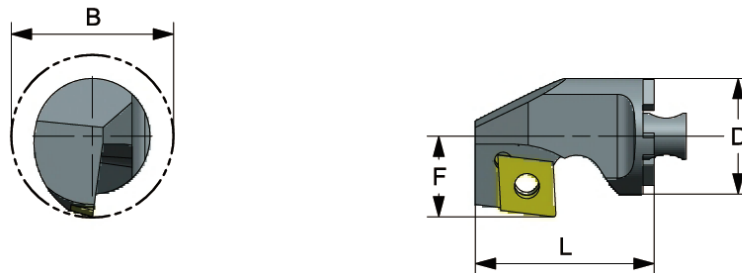
可換式車刀頭 Removable Cutting Head

■ SCLC

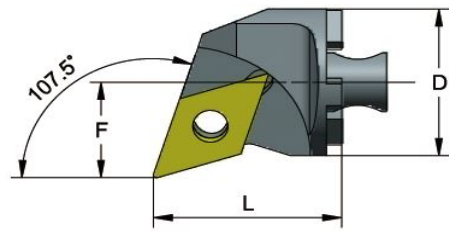
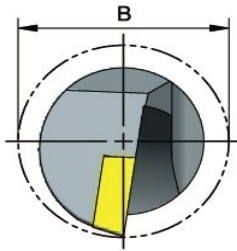


Order No.	Insert	Dimensions (mm)					Screw	Wrench
Right		D	F	K	L	B		
CP1-10-SCLCR/L-06	CCMT060204	10	7	12	17	13	M2.5	T8
CP1-12-SCLCR/L-06		12	7	9	18	14	M2.5	T8
CP1-14-SCLCR/L-06		14	9	8	19	17	M2.5	T8
CP1-14-SCLCR/L-09		14	9	11	19	17	M4	T15
CP1-16-SCLCR/L-09	CCMT09T304	16	11	9	21	20	M4	T15
CP1-1-18-SCLCR/L-09		18	12	8	22	22		
CP2-20-SCLCR/L-09		20	13	8	25	24		
CP3-25-SCLCR/L-09		25	17	8	28	31		
CP4-32-SCLCR/L-09		32	22	6	35	39		
CP3-25-SCLCR/L-12	CCMT120404	25	17	8	28	31	M5	T20
CP4-32-SCLCR/L-12		32	22	6	35	39		
CP5-40-SCLCR/L-12		40	27	4	38	48		

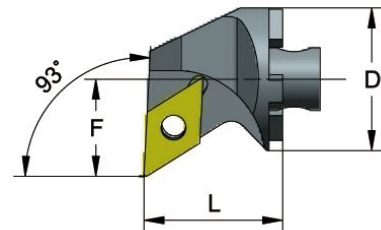
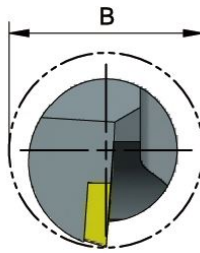
■ SCZC



Order No	Insert	Dimensions (mm)					Screw	Wrench
Right		D	F	K	L	B		
CP1-10-SCZCR/L-06	CCMT060204	10	7.5	12	17	13.5	M2.5	T8
CP1-12-SCZCR/L-06	CCMT060204	12	8.5	10	18	15.5	M2.5	T8
CP1-14-SCZCR/L-06	CCMT060204	14	10.5	8	19	18.5	M2.5	T8
CP1-16-SCZCR/L-06	CCMT060204	16	11.5	8	21	21	M2.5	T8
CP1-1-18-SCZCR/L-06		18	12.5	8	22	23		
CP2-20-SCZCR/L-09	CCMT09T304	20	14.5	8	25	25	M4	T15
CP3-25-SCZCR/L-09		25	17	6	28	31		
CP3-25-SCZCR/L-12	CCMT120404	25	17	8	28	31	M5	T20
CP4-32-SCZCR/L-12		32	21	6	35	38		
CP5-40-SCZCR/L-12		40	25	4	38	47		

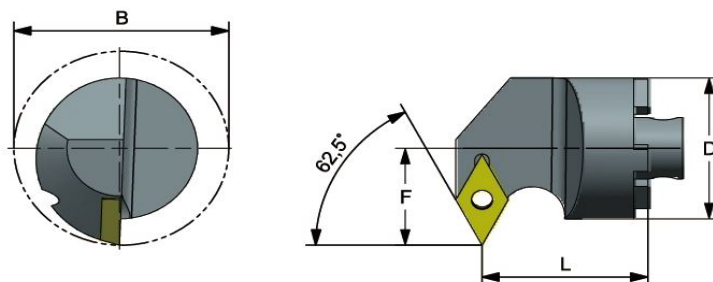


Order No.	Insert	Dimensions (mm)					Screw	Wrench
Right		D	F	K	L	B		
CP1-10-SDQCR/L-07	DCMT070204	10	7	10	17	13	M2.5	T8
CP1-12-SDQCR/L-07		12	9	8	18	16		
CP1-14-SDQCR/L-07		14	10	8	19	18		
CP1-16-SDQCR/L-07		16	11	7	21	20		
CP1-1-18-SDQCR/L-07		18	12	7	22	22		
CP2-20-SDQCR/L-07		20	13	6	25	24		
CP2-20-SDQCR/L-11	DCMT11T304	20	13	6	25	24	M4	T15
CP3-25-SDQCR/L-11		25	17	4	28	31		
CP4-32-SDQCR/L-11		32	22	4	35	37		
CP5-40-SDQCR/L-11		40	27	2	38	48		



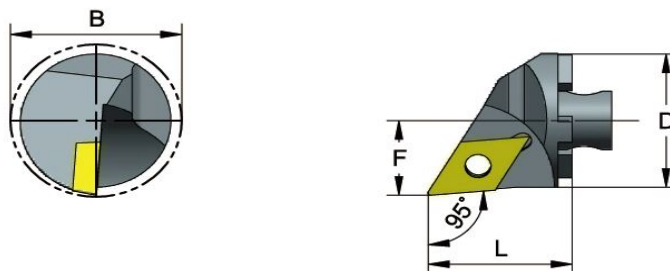
Order No.	Insert	Dimensions (mm)					Screw	Wrench
Right		D	F	K	L	B		
CP1-10-SDUCR/L-07	DCMT070204	10	8	10	17	14	M2.5	T8
CP1-12-SDUCR/L-07		12	9	8	18	16		
CP1-14-SDUCR/L-07		14	9	8	19	17		
CP1-16-SDUCR/L-07		16	11	7	21	20		
CP1-1-18-SDUCR/L-07		18	12	7	22	22		
CP2-20-SDUCR/L-07		20	13	6	25	24		
CP2-20-SDUCR/L-11	DCMT11T304	20	13	6	25	24	M4	T15
CP3-25-SDUCR/L-11		25	17	4	28	31		
CP4-32-SDUCR/L-11		32	22	4	35	37		
CP5-40-SDUCR/L-11		40	27	2	38	48		

SDWC

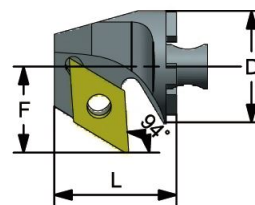
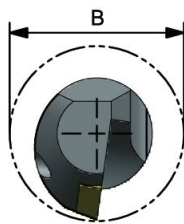


Order No.	Insert	Dimensions (mm)					Screw	Wrench
Right		D	F	K	L	B		
CP1-12-SDWCR/L-07	DCMT070204	12	9	8	18	16	M4	T15
CP1-16-SDWCR/L-07		16	11	7	21	20		
CP1-1-18-SDWCR/L-11	DCMT11T304	18	12	7	22	22		
CP2-20-SDWCR/L-07	DCMT070204	20	13	6	25	24		
CP2-20-SDWCR/L-11	DCMT11T304	20	13	6	25	24		
CP3-25-SDWCR/L-11		25	17	4	28	31		
CP4-32-SDWCR/L-11		32	22	4	35	37		
CP5-40-SDWCR/L-11		40	27	2	38	48		

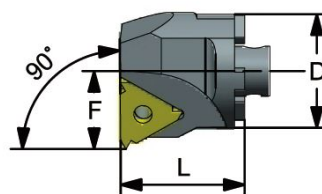
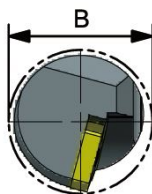
SDXC



Order No.	Insert	Dimensions (mm)					Screw	Wrench
Right		D	F	K	L	B		
CP1-10-SDXCR/L-07	DCMT070204	10	6	10	17	12	M2.5	T8
CP1-12-SDXCR/L-07		12	7	8	18	14		
CP1-16-SDXCR/L-07		16	9	7	21	18		
CP1-1-18-SDXCR/L-07		18	10	7	22	20		
CP2-20-SDXCR/L-11	DCMT11T304	20	11.5	6	25	22.5	M4	T15
CP3-25-SDXCR/L-11		25	14	4	28	28		
CP4-32-SDXCR/L-11		32	18	4	35	36		
CP5-40-SDXCR/L-11		40	22	2	38	44		



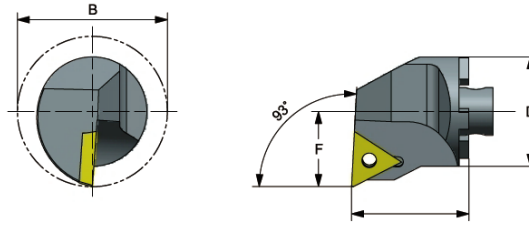
Order No.	Insert	Dimensions (mm)					Screw	Wrench
Right		D	F	K	L	B		
CP1-10-SDZCR/L-07	DCMT070204	10	8.5	12	17	14.5	M2.5	T8
CP1-12-SDZCR/L-07		12	9.5	10	18	16.5		
CP1-14-SDZCR/L-07		14	10.5	8	19	18.5		
CP1-16-SDZCR/L-11	DCMT11T304	16	12.5	8	21	22	M4	T15
CP1-1-18-SDZCR/L-11		18	11.4	8	22	24		
CP2-20-SDZCR/L-11		20	15	6	25	27		
CP3-25-SDZCR/L-11		25	18	6	28	32		
CP4-32-SDZCR/L-11		32	22	4	35	39		
CP5-40-SDZCR/L-11		40	27	4	38	48		



Order No.	Insert	Dimensions (mm)					Screw	Wrench
Right		D	F	K	L	B		
CP1-10-SIR/L-11	IR11	10	7	16	17	13	M3	T10
CP1-12-SIR/L-11		12	8	16	18	15		
CP1-14-SIR/L-16	IR16	14	10.5	16	19	18.5	M3.5	T10
CP1-16-SIR/L-16		16	10.5	17	21	19.5		
CP1-1-18-SIR/L-16		18	10	17	22	20		
CP2-20-SIR/L-16		20	13.7	21	25	25		
CP3-25-SIR/L-16		25	16.2	21	28	31		
CP4-32-SIR/L-16		32	19.7	15	35	38		
CP5-40-SIR/L-16		40	25.7	15	38	48		
CP3-25-SIR/L-22	IR22	25	18.1	21	28	33	M4.5	T15
CP4-32-SIR/L-22		32	21.6	15	35	40		
CP5-40-SIR/L-22		40	25.7	15	38	48		

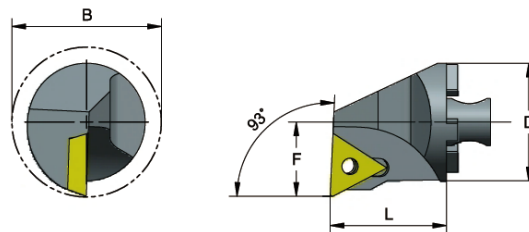
可換式車刀頭 Removable Cutting Head

STUC



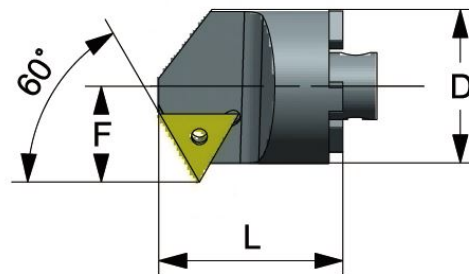
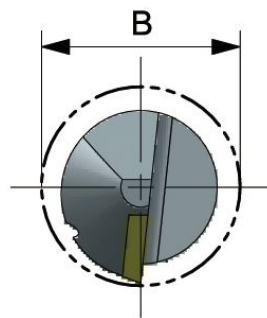
Order No.	Insert	Dimensions (mm)					Screw	Wrench
Right		D	F	K	L	B		
CP1-10-STUCR/L-09	TCMT0902	10	6	13	17	12	M2.5	T8
CP1-10-STUCR/L-11	TCMT1102	10	6	12	17	12		
CP1-12-STUCR/L-11		12	7	10	18	14		
CP1-14-STUCR/L-11		14	8	8	19	16		
CP1-16-STUCR/L-11	TCMT1102	16	9	8	21	18	M2.5	T8
CP1-16-STUCR/L-11		16	11	8	21	20		
CP1-1-18-STUCR/L-11		18	10	8	22	20		
CP1-1-18-STUCR/L-11		18	12	8	22	22		
CP2-20-STUCR/L-11		20	11.5	6	25	27.5		
CP3-25-STUCR/L-11	TCMT16T304	25	14	4	28	27.5	M4	T15
CP2-20-STUCR/L-16		20	13	8	25	23		
CP3-25-STUCR/L-16		25	17	6	28	31		
CP4-32-STUCR/L-16		32	22	4	35	39		
CP5-40-STUCR/L-16		40	27	0	38	48		

STUP



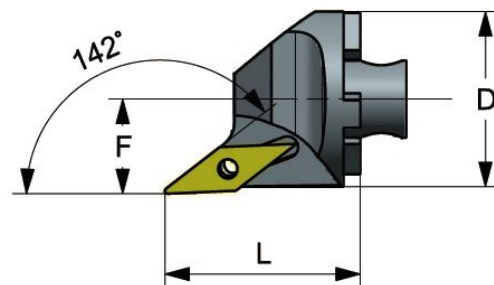
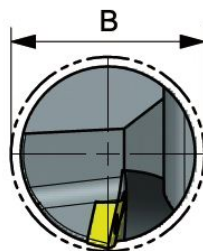
Order No.	Insert	Dimensions (mm)					Screw	Wrench
Right		D	F	K	L	B		
CP1-10-STUPR-/L-09	TPMT0902	10	6	8	17	12	M2.5	T8
CP1-10-STUPR-/L-11	TPMT1102	10	6	8	17	12		
CP1-12-STUPR-/L-11		12	7	6	18	14		
CP1-14-STUPR-/L-11		14	8.5	6	19	16.5		
CP1-16-STUPR-/L-11	TPMT110304	16	11	6	21	20	M3	T10
CP1-1-18-STUPR-/L-11		18	10	6	22	20		
CP1-1-18-STUPR-/L-11		18	12	6	22	22		
CP2-20-STUPR-/L-11		20	13	2	25	24		
CP3-25-STUPR-/L-11		25	17	8	28	31		
CP4-32-STUPR-/L-11	TPMT16/030404	32	22	6	35	39	M4	T15
CP2-20-STUPR-/L-16		20	13	8	25	24		
CP3-25-STUPR-/L-16		25	14.5	8	28	28		
CP4-32-STUPR-/L-16		32	22	6	35	39		
CP5-40-STUPR-/L-16		40	27	6	38	48		

STWC



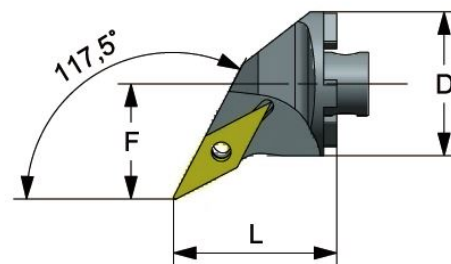
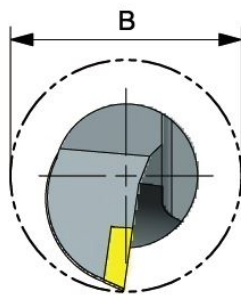
Order No.	Insert	Dimensions (mm)					Screw	Wrench
Right		D	F	K	L	B		
CP1-10-STWCR/L-11	TCMT1102	10	8	10	17	14	M2.5	T8
CP1-12-STWCR/L-11		12	9	8	18	16		
CP1-16-STWCR/L-11		16	11	6	21	20		
CP1-1-18-STWCR/L-11		18	12	6	22	22		
CP2-20-STWCR/L-11		20	16	4	22	25		
CP3-25-STWCR/L-11		25	20	2	25	31		
CP4-32-STWCR/L-11		32	19	0	28	39		
CP2-20-STWCR/L-16	TCMT16T304	20	14.5	8	25	25	M4	T15
CP3-25-STWCR/L-16		25	17	6	28	32		
CP4-32-STWCR/L-16		32	20	4	35	39		
CP5-40-STWCR/L-16		40	24	0	38	46		

SVJCR



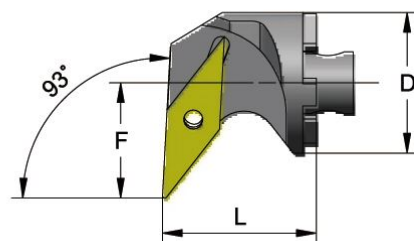
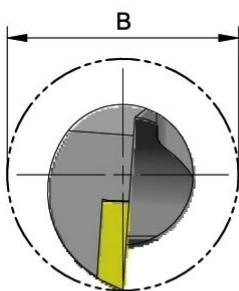
Order No.	Insert	Dimensions (mm)					Screw	Wrench
Right		D	F	K	L	B		
CP1-16- SVJCR-/L-11	VCMT110304	16	9	8	21	18	M2.5	T8
CP1-1-18- SVJCR-/L-11		18	10	8	22	20		
CP2-20- SVJCR-/L-11		20	12	6	25	23		
CP3-25- SVJCR-/L-11		25	13.5	6	28	27		
CP4-32- SVJCR-/L-11		32	17	6	35	34		
CP2-20- SVJCR-/L-16	VCMT160404	20	12	6	25	23	M4	T15
CP3-25-SVJCR- /L-16		25	13.5	6	28	27		
CP4-32- SVJCR-/L-16		32	18	6	35	35		
CP5-40- SVJCR-/L-16		40	22	4	38	43		

SVQC



Order No.	Insert	Dimensions (mm)					Screw	Wrench
Right		D	F	K	L	B		
CP1-16-SVQCR/L-11	VCMT110304	16	11.5	10	21	20.5	M2.5	T8
CP1-1-18-SVQCR/L-11		18	12.5	10	22	22.5		
CP2-20-SVQCR/L-11		20	13	8	25	24		
CP3-25-SVQCR/L-11		25	13.4	4	28	26.9		
CP2-20-SVQCR/L-16	VCMT160304	20	14	8	25	25	M4	T15
CP3-25-SVQCR/L-16		25	20.5	6	28	34		
CP4-32-SVQCR/L-16		32	22.5	4	35	39.5		
CP5-40-SVQCR/L-16		40	27	0	38	48		

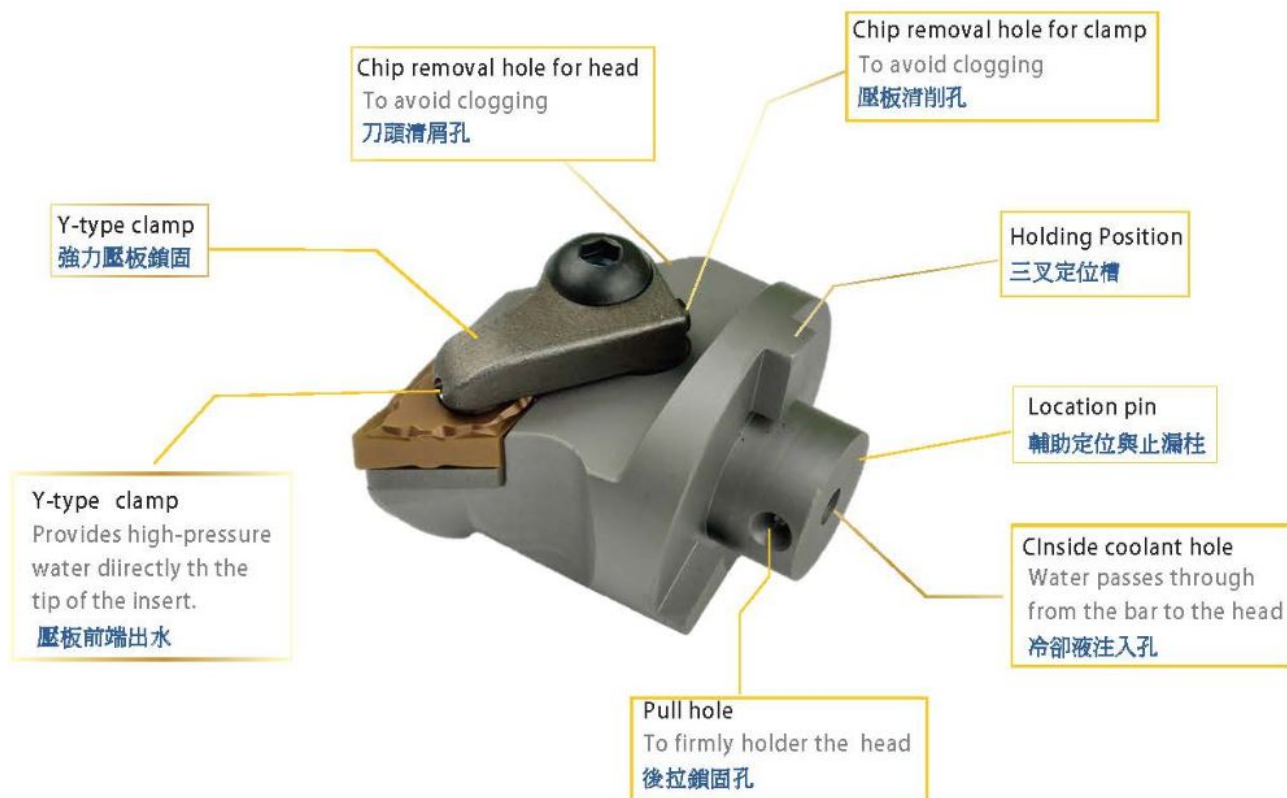
SVUC



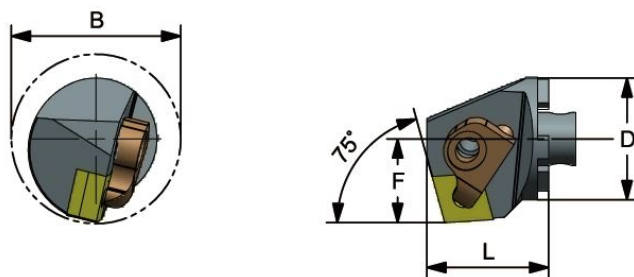
Order No.	Insert	Dimensions (mm)					Screw	Wrench
Right		D	F	K	L	B		
CP1-16-SVUCR-/L-11	VCMT110304	16	13	8	21	22	M2.5	T8
CP1-1-18-SVUCR-/L-11		18	13	7	22	23		
CP2-20-SVUCR-/L-11		20	14	6	25	25		
CP2-20-SVUCR-/L-16	VCMT160404	20	21	8	25	32	M4	T15
CP3-25-SVUCR-/L-16		25	20.5	4	28	34		
CP4-32-SVUCR-/L-16		32	22.5	6	35	40		
CP5-40-SVUCR-/L-16		40	27/29	6	38	48		

可換式車刀頭 Removable Cutting Head

Invention Patent 發明專利
I1638692/ I665038/ I606877



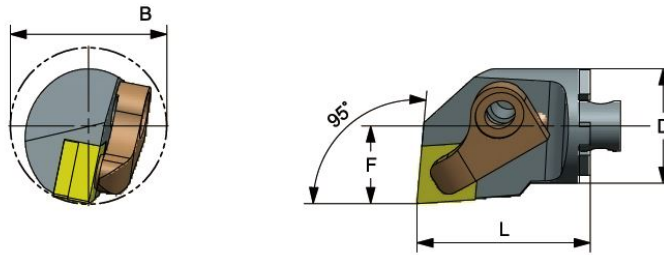
YCKN



Order No.	Insert	Dimensions (mm)					Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right		D	F	K	L	B						
CP2-20-YCKNR/L-09	CN..090404	20	13	15	25	26	D-CLN2	M4	AD02	—	—	T15
CP3-25-YCKNR/L-09		25	17	12	28	32						
CP4-32-YCKNR/L-12	CN..120404	32	32	17	35	40	D-CLN	M6	AD01	GMC-422-4	M5	LW050
CP5-40-YCKNR/L-12		40	40	15	38	50						

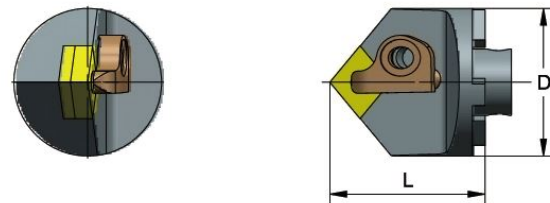
可換式車刀頭 Removable Cutting Head

YCLN



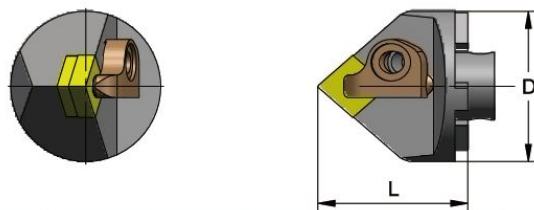
Order No.	Insert	Dimensions (mm)					Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right		D	F	K	L	B						
CP2-20-YCLNR/L-09	CN..090404	20	13	15	25	26	D-CLN2	M4	AD02	—	—	T15
CP3-25-YCLNR/L-09		25	17	12	28	32						
CP4-32-YCLNR/L-12	CN..120404	32	22	17	35	40	D-CLN	M6	AD01	GMC-422-4	M5	LW050
CP5-40-YCLNR/L-12		40	27	15	38	50						

YCMN



Order No.	Insert	Dimensions (mm)				Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right		D	F	K	L						
CP4-32-YCMN/L-12	CN..120404	32	0	15	35	D-CLN	M6	AD01	GMC-422-4	M5	LW050
CP5-40-YCMN/L-12		40	0	15	38						

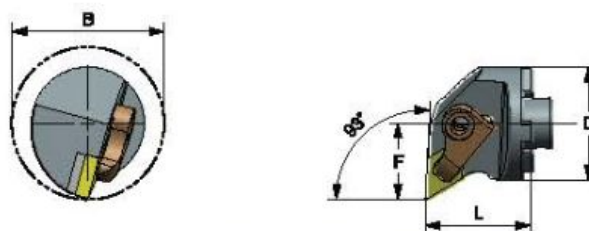
YCNN



Order No.	Insert	Dimensions (mm)				Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right		D	F	K	L						
CP4-32-YCNN/L-12	CN..120404	32	0	15	35	D-CLN	M6	AD01	GMC-422-4	M5	LW050
CP5-40-YCNN/L-12		40	0	15	38						

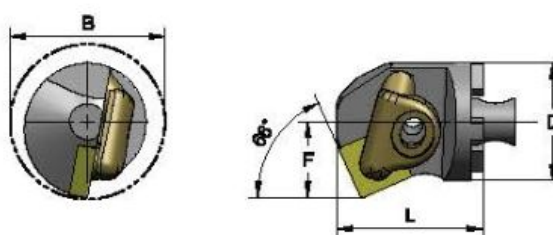
可換式車刀頭 Removable Cutting Head

YDUN



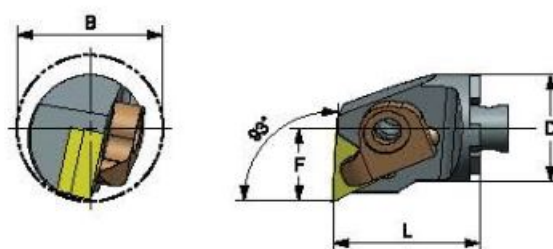
Order No.	Insert	Dimensions (mm)					Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right		D	F	K	L	B						
CP2-20-YDUNR/L-1104	DN..110404	20	13	15	25	26	D-CLN2	M4	AD02	—	—	T15
CP3-25-YDUNR/L-1104		25	17	12	28	32						
CP4-32-YDUNR/L-1506	DN..150604	32	22	17	35	40	D-CLN	M6	AD01	GMC-422.4	M5	LW050
CP5-40-YDUNR/L-1506		40	27	15	38	50						

YSKN



Order No.	Insert	Dimensions (mm)					Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right		D	F	K	L	B						
CP2-20-YSKNR/L-09	SN..090404	20	13	15	25	26	D-CLN2	M4	AD02	—	—	T15
CP3-25-YSKNR/L-09		25	17	12	28	32						
CP4-32-YSKNR/L-12	SN..120404	32	22	17	35	40	D-CLN	M6	AD01	GMC-422.4	M5	LW050
CP5-40-YSKNR/L-12		40	27	15	38	50						

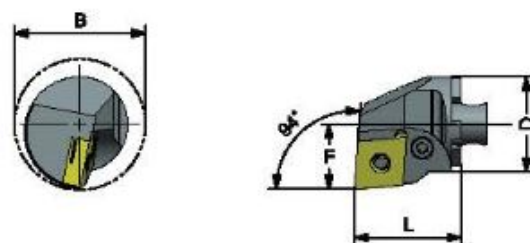
YTUN



Order No.	Insert	Dimensions (mm)					Clamp	Clamp Screw	Spring	Shim	Shim Screw	Wrench
Right		D	F	K	L	B						
CP2-20-YTUNR/L-11	TN..110404	20	13	15	25	26	D-CLN2	M4	AD02	—	—	T15
CP3-25-YTUNR/L-11		25	17	12	28	32						
CP4-32-YTUNR/L-16	TN..160404	32	22	17	35	40	D-CLN	M6	AD01	GMT-321-1	M5	LW050
CP5-40-YTUNR/L-16		40	27	15	38	50						

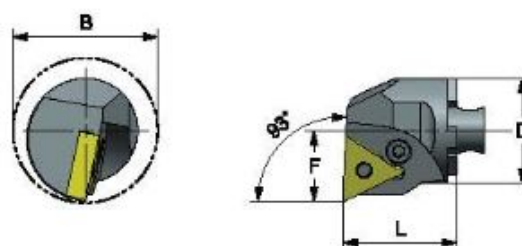
可換式車刀頭 Removable Cutting Head

PCLN



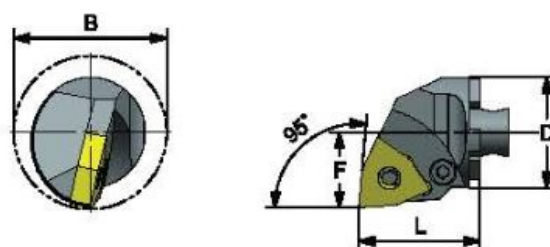
Order No.	Insert	Dimensions (mm)					Parts			Wrench
Right		D	F	K	L	B				
CP2-20-PCLNR/L-12	CN...120404	20	13	12	29	24	GPC4	LSP3	GSL14	LW025
CP3-25-PCLNR/L-12		25	17	11	32	31				
CP4-32-PCLNR/L-12		32	22	11	33	39				
CP5-40-PCLNR/L-12		40	27	10	37	48				

PTUN



Order No.	Insert	Dimensions (mm)					Parts			Wrench
Right		D	F	K	L	B				
CP2-20-PTUNR/L-16	TN...160404	20	13	14	27	24	GPC3	LSP2	GSL14	LW025
CP3-25-PTUNR/L-16		25	17	12	31	31				
CP4-32-PTUNR/L-16		32	22	10	35	39				
CP5-40-PTUNR/L-16		40	27	10	38	48				

PWLN



Order No.	Insert	Dimensions (mm)					Parts			Wrench
Right		D	F	K	L	B				
CP2-20-PWLN/L-08	WN...080404	20	13	14	25	24	GPC4	LSP3	GSL17	LW025
CP3-25-PWLN/L-08		25	17	12	32	31				
CP4-32-PWLN/L-08		32	22	10	35	39				
CP5-40-PWLN/L-08		40	27	8	37	48				

中心出水抗震刀套

Anti-Vibration Cutting Sleeve with Coolant System

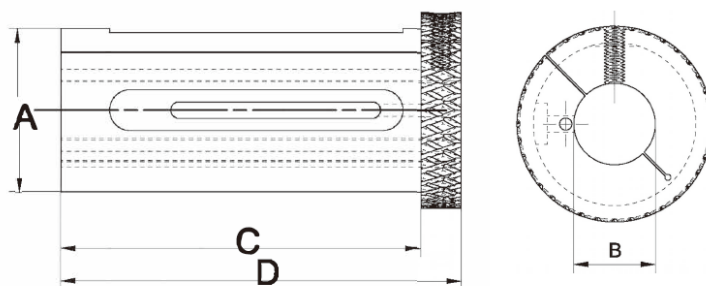
Invention Patent 發明專利
I606877

Material: SCM415 (Alloy Steel)

材質: 線十字合金鋼

Hardness: HRC 58°

硬度: HRC 58度



Features 特色

01. C-type completely encases the bar, stable clamping and improve anti-vibration effect.
C型包覆，夾持穩定，增加抗震效果
02. Can reduce insert consumption and increase cutting speed and productivity.
可降低刀片耗損並提高加工線速度與切削量
03. Not easily deformed, easy to disassemble and assemble from tool holder.
不易變形，拆裝於刀座方便
04. With side hole inlet turning tools, no need to connect water tube, Also the hole on the front of the sleeve can take off the screw to pass-through the water. Can use for shank without coolant hole.
搭配側孔進水刀桿，無需另外接管，也可以打開前方噴水孔由前端噴水，搭配無中心出水刀桿
05. Clamping with anti-vibration cutting sleeve prevents the carbide tool from breaking.
使用抗震刀套夾持可避免鎢鋼刀桿斷裂
06. It is not recommended to mill the surface on turning tools to maintain tool completeness and increase strength.
建議刀桿不銑平面，以保持刀桿的完整性並提升強度

Order No.	A	B	C	D
MK32-S08	32	8	76	86
MK32-S10	32	10	76	86
MK32-S12	32	12	76	86
MK32-S14	32	14	76	86
MK32-S16	32	16	76	86
MK32-S18	32	18	76	86
MK32-S20	32	20	76	86
MK32-S25	32	25	76	86

Order No.	A	B	C	D
MK40-S08	40	8	88	98
MK40-S10	40	10	88	98
MK40-S12	40	12	88	98
MK40-S14	40	14	88	98
MK40-S16	40	16	88	98
MK40-S18	40	18	88	98
MK40-S20	40	20	88	98
MK40-S25	40	25	88	98
MK40-S32	40	32	88	98

Order No.	A	B	C	D
MK50-S08	50	8	102	112
MK50-S10	50	10	102	112
MK50-S12	50	12	102	112
MK50-S14	50	14	102	112
MK50-S16	50	16	102	112
MK50-S18	50	18	102	112
MK50-S20	50	20	102	112
MK50-S25	50	25	102	112
MK50-S32	50	32	102	112
MK50-S40	50	40	102	112



專業製作

- 抗震刀具
- 抗震刀桿
- 抗震銑刀
- 特殊組合式抗震刀桿
- 輪圈刀



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📷 antivibrationtools