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BRAZED-TURNING TOOLS  
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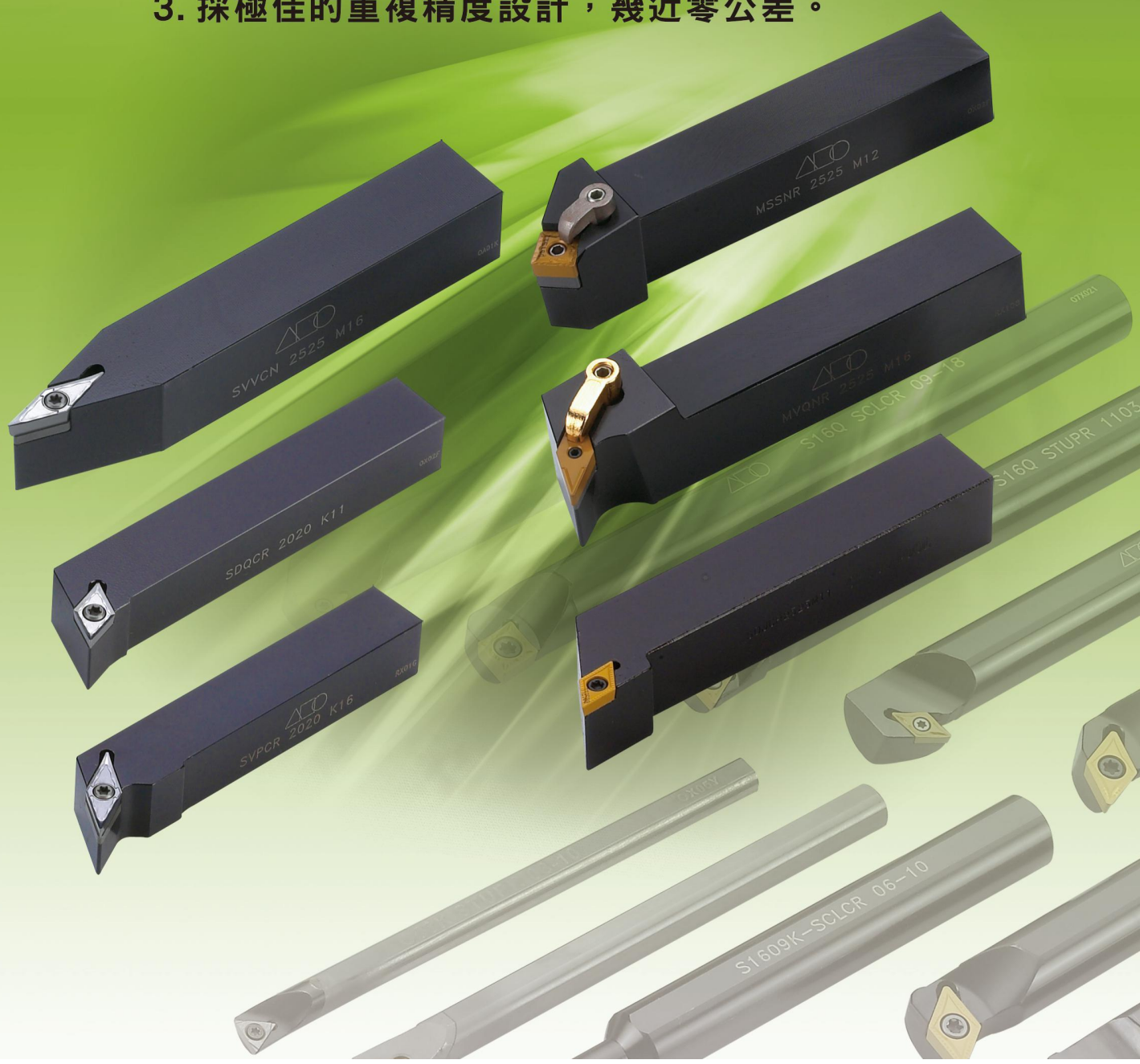
車刀片 TURNING INSERTS

外徑刀架 EXTERNAL TURNING TOOL HOLDERS

內徑刀架 INTERNAL TURNING TOOL HOLDERS

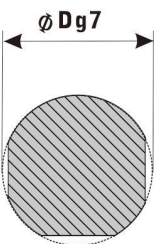
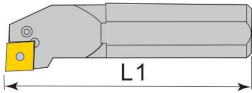






**特色**

1. 柄材採用鉻鉬合金鋼。
2. 本體剛性好、機械性質佳、韌性更強，能有效延長使用壽命。
3. 採極佳的重複精度設計，幾近零公差。






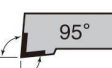
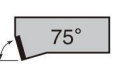





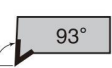
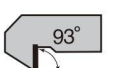



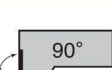





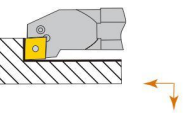
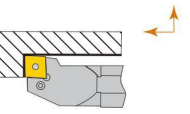
# BORING BAR DESIGNATION SYSTEM 調換式內徑刀架識別法







1 Boring Bar 刀體材料	2 Bar Diameter 柄徑	3 Tool Length 柄長	4 Clamping System 夾持方式																								
<div>S : Steel Shank 工具鋼柄</div> <div>A : Coolant Through Steel Shank 帶油孔鋼柄</div> <div>C : Carbide Shank 鎢鋼柄</div>	<div></div>	<div></div> <table><tr><td>K</td><td>125</td><td>U</td><td>350</td></tr><tr><td>M</td><td>150</td><td>V</td><td>400</td></tr><tr><td>Q</td><td>180</td><td>W</td><td>450</td></tr><tr><td>R</td><td>200</td><td>Y</td><td>500</td></tr><tr><td>S</td><td>250</td><td>X</td><td>Special</td></tr><tr><td>T</td><td>300</td><td></td><td></td></tr></table>	K	125	U	350	M	150	V	400	Q	180	W	450	R	200	Y	500	S	250	X	Special	T	300			<div></div> <div>P / Lever LockC / Top Clamp</div> <div></div> <div>S / Screw ClampM / Multi Lock</div> <div></div> <div>D / Double ClampW / Wedge Clamp</div>
K	125	U	350																								
M	150	V	400																								
Q	180	W	450																								
R	200	Y	500																								
S	250	X	Special																								
T	300																										

S 32 S - C T F P R - 16






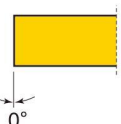
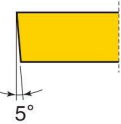





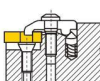

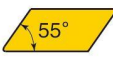


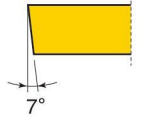
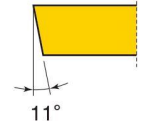
1 2 3 4 5 6 7 8 9

5 Insert Shape 刀片形狀	6 Approach Angle 切入角	7 Insert Clearance Angle 刀片離隙角
  	 	 
W S T	L K	N B
  	 	
C D E	U Z	
  	 	 
K V R	F Q	C P

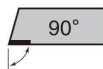
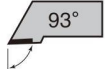

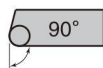

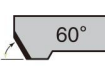
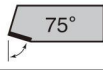
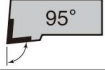
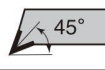
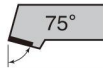
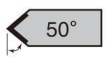
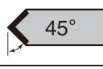
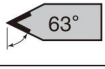
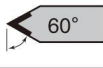

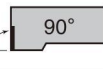
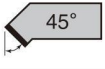
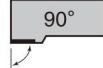
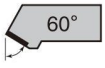
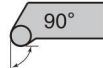
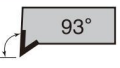
8 Hand of Tool 方向
<p>R</p> 
<p>L</p> 

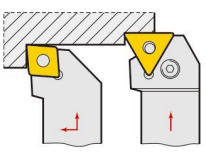
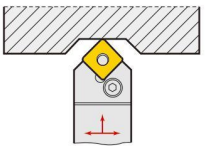
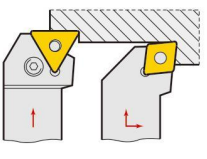
9 Cutting Edge Length 刀片邊長
  
  

# TOOL HOLDER DESIGNATION SYSTEM 調換式外徑刀架識別法

1 Clamping System 夾持方式		2 Insert Shape 刀片形狀			4 Insert Clearance Angle 刀片離隙角	
						
P / Lever Lock	C / Top Clamp	W	S	T	N	B
						
S / Screw Clamp	M / Multi Lock	C	D	E		
						
D / Double Clamp	W / Wedge Clamp	K	V	R	C	P

<b>M</b>	<b>C</b>	<b>L</b>	<b>N</b>	<b>R</b>
1	2	3	4	5

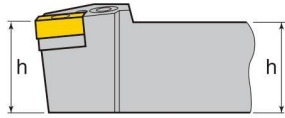
3 Approach Angle 切入角								
Symbol	Shape	Offset	Symbol	Shape	Offset	Symbol	Shape	Offset
A		Without	J		With	V		Without
			K		With	W		With
B		Without	L		With	Q		With
		With	M		Without			
D		Without	N		Without			
E		Without	R		With			
F		With	S		With			
G		With	T		With			
			U		With			

5 Hand of Tool	
	R 右手刀
	N
	L 左手刀



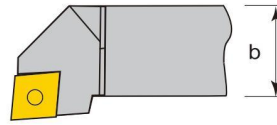
# TOOL HOLDER DESIGNATION SYSTEM 調換式外徑刀架識別法

## 6 Shank Height 柄高



Integers to be preceded by 0  
e.g. : h=8mm indicated by 08

## 7 Shank Width 柄寬



Integers to be preceded by 0  
e.g. : b=8mm indicated by 08

25

6

25

7

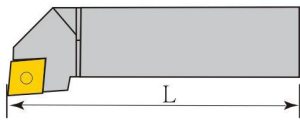
M

8

12

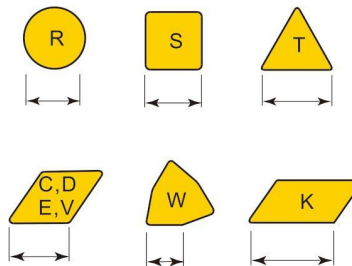
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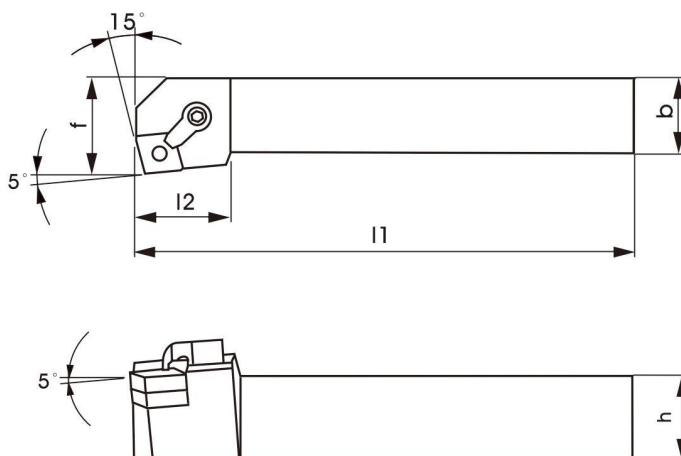
## 8 Tool Length 柄長



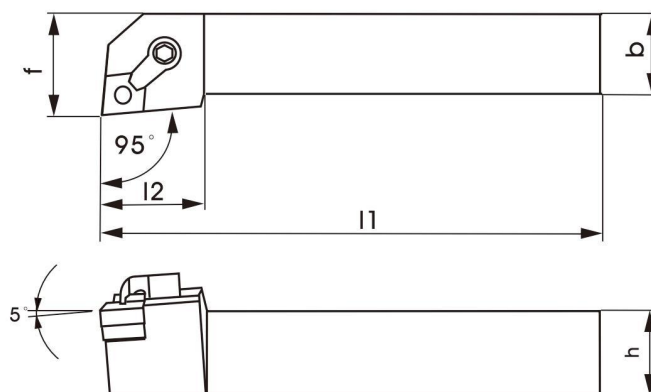
L (mm)	Symbol	L (mm)	Symbol
32	A	160	N
40	B	170	P
50	C	180	Q
60	D	200	R
70	E	250	S
80	F	300	T
90	G	350	U
100	H	400	V
110	J	450	W
125	K	500	Y
140	L	Special	X
150	M		







## 9 Cutting Edge Length 刀片邊長



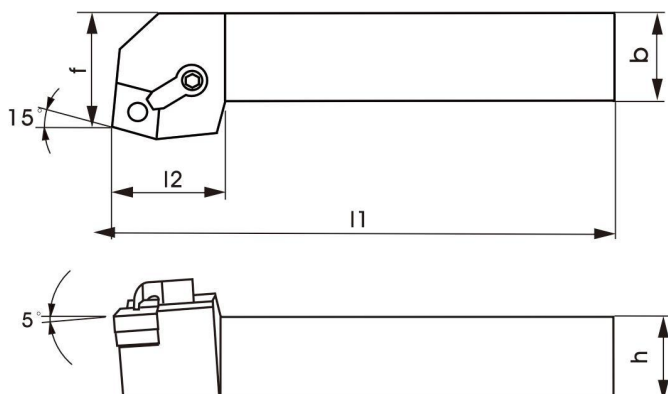
**MCKN R/L**

規 格	尺 寸 Dimension					刀 片 Insert	墊 片 Shim	墊片螺絲 Shim screw	壓塊 Clamp	壓塊螺絲 Clamp screw	扳 手 Wrench
ORDERING CODE	h	b	l1	l2	f						
MCKNR/L 2020 K12	20	20	125	32	25	CNMG CNMA CNGA CNGM 1204	MSC124	MSP617	MCL1814	WS061030	3.0 mm
MCKNR/L 2525 M12	25	25	150	32	32						
MCKNR/L 3232 P12	32	32	170	40	32						

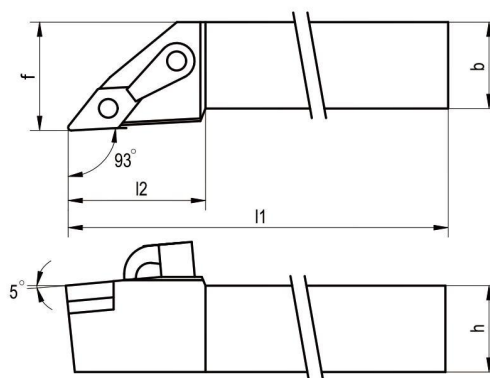
**MCLN R/L**

規 格  ORDERING CODE	尺 寸 Dimension					刀 片 Insert	墊 片 Shim	墊 片螺絲 Shim screw	壓 塊 Clamp	壓塊螺絲 Clamp screw	扳 手 Wrench	
	h	b	l1	l2	f							
MCLNR/L 1616 H12	16	16	100	31	20	CNMG CNMA CNGA CNMM 1204	MSC124	MSP617	MCL1814	WS061025	3.0 mm	
MCLNR/L 2020 K12	20	20	125	32	25					WS061030		
MCLNR/L 2525 M12	25	25	150	32	32							
MCLNR/L 3232 P12	32	32	170	32	32							

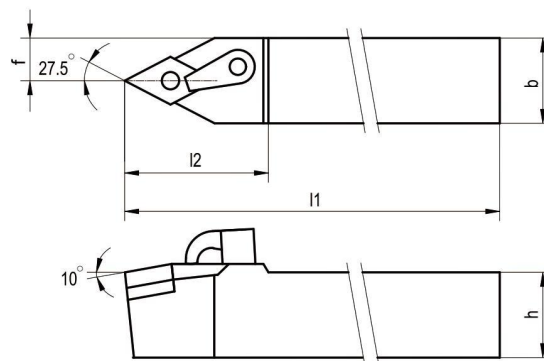


**MCRN R/L**

規 格	尺 寸 Dimension					刀片 Insert	墊 片 Shim	墊片螺絲 Shim screw	壓 塊 Clamp	壓塊螺絲 Clamp screw	扳 手 Wrench
ORDERING CODE	h	b	l1	l2	f						
MCRNR/L 2020 K12	20	20	125	32	25	CNMG CNMA CNGA 1204	MSC124	MSP617	MCL1814	WS061025	3.0 mm
MCRNR/L 2525 M12	25	25	150	32	32					WS061030	
MCRNR/L 3232 P12	32	32	170	32	32						

**MDJN R/L**

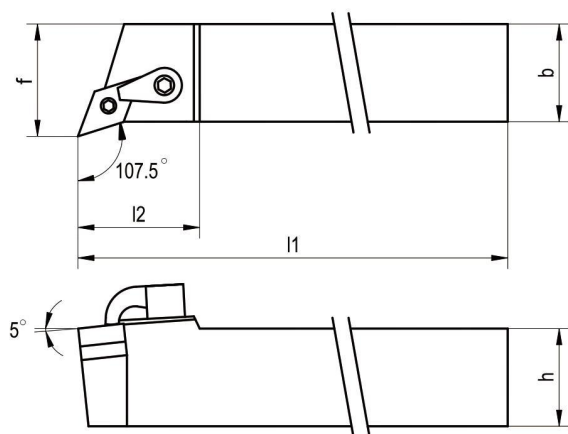
規 格	尺 寸 Dimension					刀片 Insert	墊 片 Shim	墊片螺絲 Shim screw	壓 塊 Clamp	壓塊螺絲 Clamp screw	扳 手 Wrench
ORDERING CODE	h	b	l1	l2	f						
MDJNR/L 2020 K15	20	20	125	36	25	DNMG DNMG DNMA 1504 1506	MSD154 MSD156	MSP619	MCL2114	WS061030	3.0 mm
MDJNR/L 2525 M15	25	25	150	36	32						
MDJNR/L 3232 P15	32	32	170	36	32						

**MDNNR**

規 格	尺 寸 Dimension					刀 片 Insert	墊 片 Shim	墊片螺絲 Shim screw	壓 塊 Clamp	壓塊螺絲 Clamp screw	扳 手 Wrench
ORDERING CODE	h	b	l1	l2	f						
MDNNR 2525 M15	25	25	150	41	12.5	DNMG DNGG DNMA 1504 1506	MSD154 MSD156	MSP619	MCL2114	WS061030	3.0 mm
MDNNR 3232 P15	32	32	170	41	12.5						

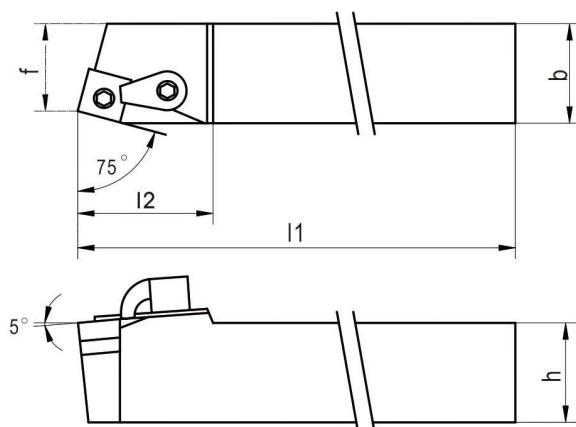
● 註: L型接受訂單.

● Marked: Left-hand tool holder; make to order.

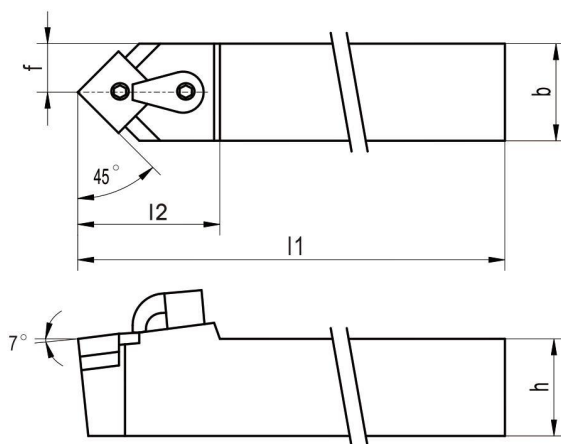
**MDQN R/L**

規 格	尺 寸 Dimension					刀 片 Insert	墊 片 Shim	墊片螺絲 Shim screw	壓 塊 Clamp	壓塊螺絲 Clamp screw	扳 手 Wrench
ORDERING CODE	h	b	l1	l2	f						
MDQNR/L 2020 K15	20	20	125	38	25	DNMG DNGG DNMA 1504 1506	MSD154 MSD156	MSP619	MCL2114	WS061030	3.0 mm
MDQNR/L 2525 M15	25	25	150	38	32						

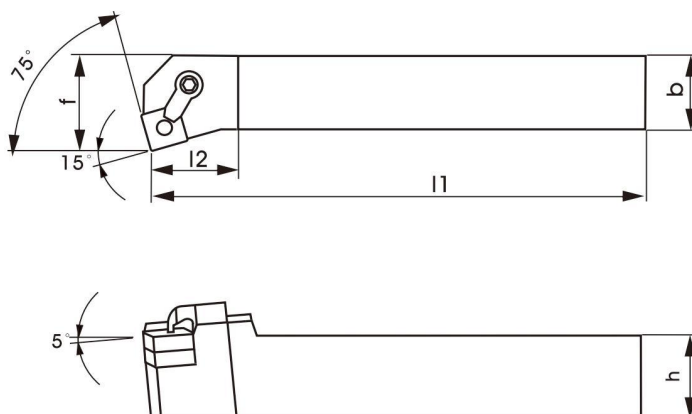


**MSBN R/L**

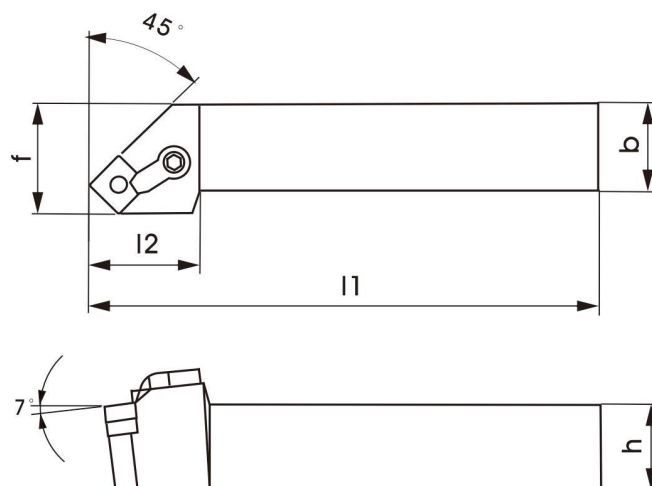
規 格	尺 寸 Dimension					刀 片 Insert	墊 片 Shim	墊片螺絲 Shim screw	壓塊 Clamp	壓塊螺絲 Clamp screw	扳 手 Wrench
ORDERING CODE	h	b	l1	l2	f						
MSBNR/L 2020 K12	20	20	125	34	17	SNMG SNGG SNMA 1204	MSS124	MSP617	MCL1814	WS061025	3.0 mm
MSBNR/L 2525 M12	25	25	150	34	22					WS061030	
MSBNR/L 3232 P12	32	32	170	34	32						

**MSDNN**

規 格	尺 寸 Dimension					刀 片 Insert	墊 片 Shim	墊片螺絲 Shim screw	壓塊 Clamp	壓塊螺絲 Clamp screw	扳 手 Wrench
ORDERING CODE	h	b	l1	l2	f						
MSDNN 2020 K12	20	20	125	34	10.3	SNMG SNGG SNMA 1204	MSS124	MSP617	MCL1814	WS061025	3.0 mm
MSDNN 2525 M12	25	25	150	34	12.8					WS061030	
MSDNN 3232 P12	32	32	170	34	12.8						

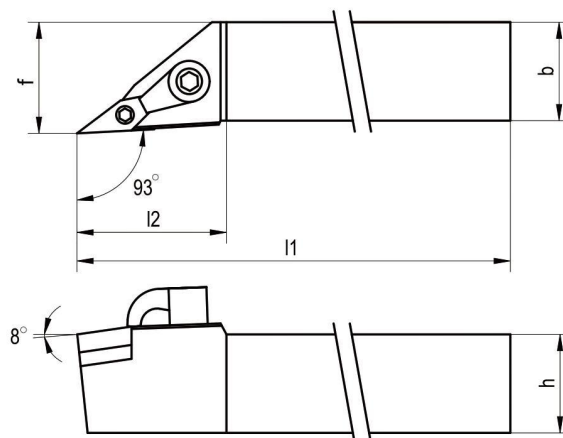
**MSKN R/L**

規 格	尺 寸 Dimension					刀 片 Insert	墊 片 Shim	墊片螺絲 Shim screw	壓塊 Clamp	壓塊螺絲 Clamp screw	扳 手 Wrench
ORDERING CODE	h	b	l1	l2	f						
MSKNR/L 2020 K12	20	20	125	32	25	SNMG SNGG SNMA 1204	MSS124	MSP617	MCL1814	WS061025	3.0 mm
MSKNR/L 2525 M12	25	25	150	32	32					WS061030	
MSKNR/L 3232 P12	32	32	170	40	32						

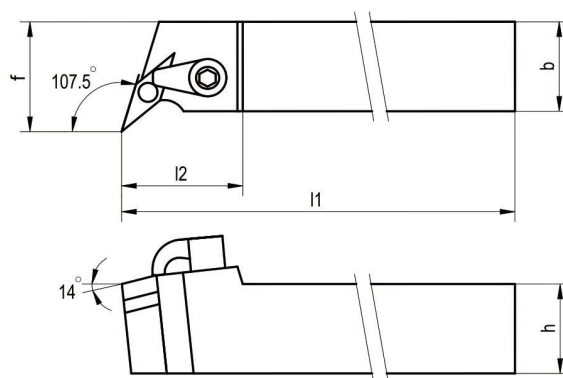
**MSSN R/L**







規 格	尺 寸 Dimension					刀 片 Insert	墊 片 Shim	墊片螺絲 Shim screw	壓塊 Clamp	壓塊螺絲 Clamp screw	扳 手 Wrench
ORDERING CODE	h	b	l1	l2	f						
MSSNR/L 2020 K12	20	20	125	20	25	SNMG SNGG SNMA 1204	MSS124	MSP617	MCL1814	WS061025	3.0 mm
MSSNR/L 2525 M12	25	25	150	25	32					WS061030	
MSSNR/L 3232 P12	32	32	170	38	40						

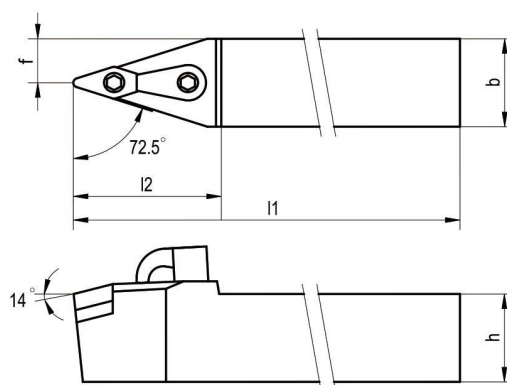


**MVJNR/L**

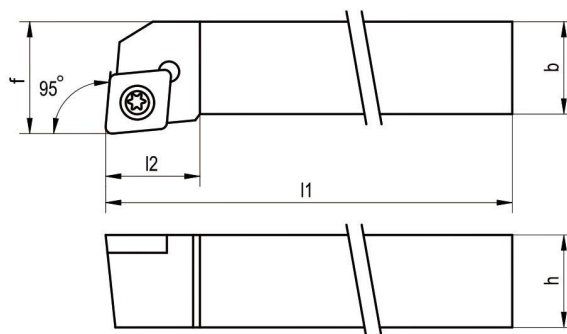
規 格	尺 寸 Dimension					刀 片 Insert	墊 片 Shim	墊片螺絲 Shim screw	壓塊 Clamp	壓塊螺絲 Clamp screw	扳 手 Wrench
ORDERING CODE	h	b	l1	l2	f						
MVJNR/L 2020 K16	20	20	125	36	25	VNMG VNMA VNGA 1604	MSV163	MSP513	MCL2414	WS061030	3.0 mm 2.0 mm
MVJNR/L 2525 M16	25	25	150	36	32						
MVJNR/L 3232 P16	32	32	170	36	32						

**MVQNR/L**

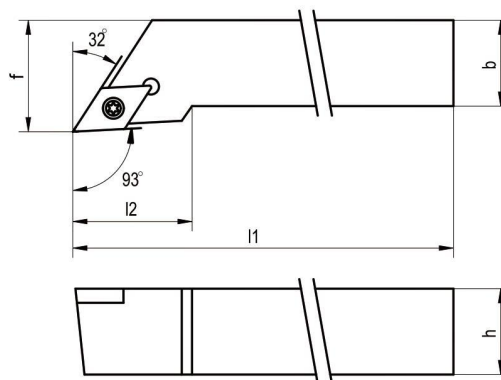
規 格	尺 寸 Dimension					刀 片 Insert	墊 片 Shim	墊片螺絲 Shim screw	壓塊 Clamp	壓塊螺絲 Clamp screw	扳 手 Wrench
ORDERING CODE	h	b	l1	l2	f						
MVQNR/L 2020 K16	20	20	125	42	10	VNMG VNMA VNGA 1604	MSV163	MSP513	MCL2414	WS061030	3.0 mm 2.0 mm
MVQNR/L 2525 M16	25	25	150	42	12						
MVQNR/L 3232 P16	32	32	170	42	16						



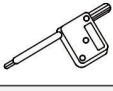
**MVVNN**

規 格	尺 寸 Dimension					刀 片 Insert	墊 片 Shim	墊片螺絲 Shim screw	壓塊 Clamp	壓塊螺絲 Clamp screw	扳 手 Wrench
ORDERING CODE	h	b	l1	l2	f						
MVVNN 2020 K16	20	20	125	42	10	VNMG VNMA VNGA 1604	MSV163	MSP513	MCL2414	WS061030	3.0 mm 2.0 mm
MVVNN 2525 M16	25	25	150	42	12						
MVVNN 3232 P16	32	32	170	42	16						

***SCLCR/L***

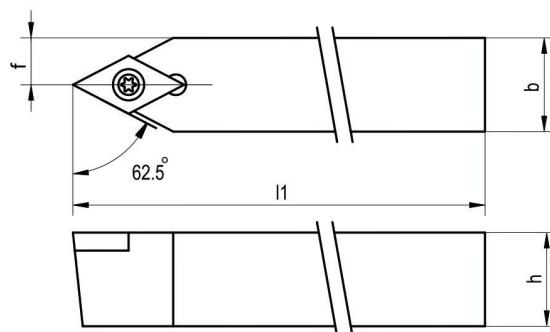
規 格	尺 寸 Dimension					刀片 Insert	螺 絲 Screw	扳 手 Wrench
ORDERING CODE	h	b	l1	l2	f			
SCLCR/L 0808 E06	8	8	70	10	10	CCMT 0602 CCGT 0602	S025055	T8
SCLCR/L 1010 H06	10	10	100	10	12			
SCLCR/L 1212 H09	12	12	100	16	16	CCMT 0903 CCGT 09T3	S035080	T15
SCLCR/L 1616 H09	16	16	100	16	20			
SCLCR/L 2020 K12	20	20	125	25	25	CCMT 1204 CCGT 1204	S050110B	T20
SCLCR/L 2525 M12	25	25	150	26	32			

***SDJCR/L***

規 格	尺 寸 Dimension				刀片 Insert	螺 絲 Screw	扳 手 Wrench
ORDERING CODE	h	b	l1	f			
SDJCR/L 0808 H07	8	8	100	8	DCMT 0702 DCGT 0702	S025055	T8
SDJCR/L 1010 H07	10	10	100	10			
SDJCR/L 1212 H07	12	12	100	16			
SDJCR/L 1212 H11	12	12	100	12	DCMT 11T3 DCGT 11T3	S035080	T15
SDJCR/L 1616 H11	16	16	100	16			
SDJCR/L 2020 K11	20	20	125	20			
SDJCR/L 2525 M11	25	25	150	25			

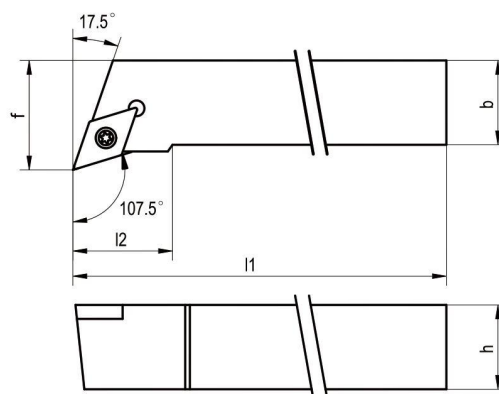


## SDNCN

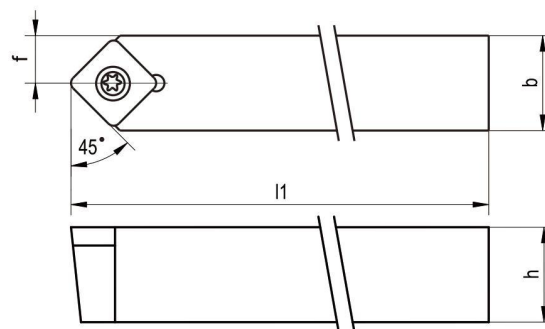



規 格	尺 寸 Dimension				刀片 Insert	螺 絲 Screw	扳 手 Wrench
ORDERING CODE	h	b	l1	f			
SDNCN 0808 H07	8	8	100	4	DCMT 0702 DCGT 0702	S025055	T8
SDNCN 1010 H07	10	10	100	5			
SDNCN 1212 H11	12	12	100	6	DCMT 11T3 DCGT 11T3	S035080	T15
SDNCN 1616 H11	16	16	100	8			
SDNCN 2020 K11	20	20	125	10			
SDNCN 2525 M11	25	25	150	12.5			

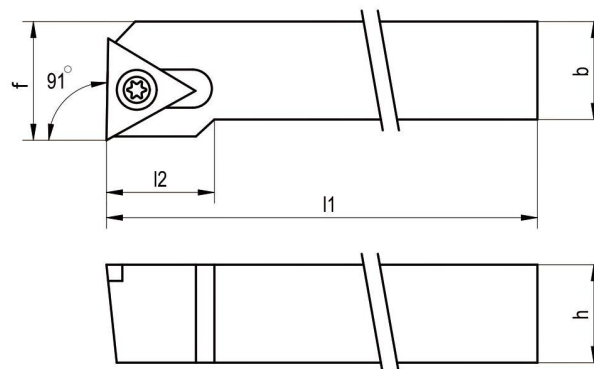
## SDQCR/L



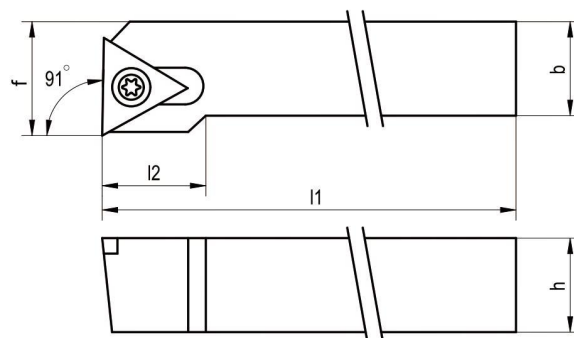
規 格	尺 寸 Dimension				刀片 Insert	螺 絲 Screw	扳 手 Wrench
ORDERING CODE	h	b	l1	f			
SDQCR/L 1010 H07	10	10	100	12	DCMT/DCGT 0702	S025055	T8
SDQCR/L 1212 H11	12	12	100	16			
SDQCR/L 1616 H11	16	16	100	20	DCMT 11T3 DCGT 11T3	S035080	T15
SDQCR/L 2020 K11	20	20	125	25			
SDQCR/L 2525 M11	25	25	150	32			



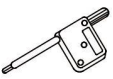
*SSDCN*

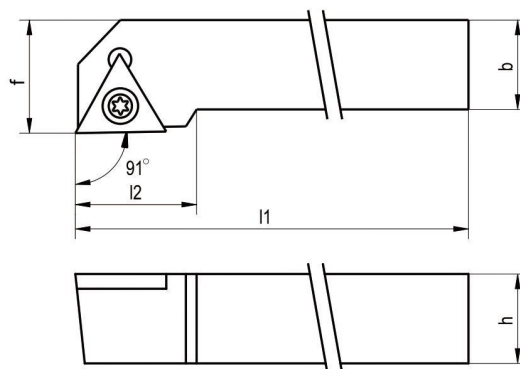
規 格	尺 寸 Dimension				刀片 Insert	螺 絲 Screw	扳 手 Wrench
ORDERING CODE	h	b	l1	f			
SSDCN 1212 H09	12	12	100	6	SCMT 09T3	S035080	T15
SSDCN 1616 H09	16	16	100	8			



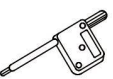
*STFCR/L*

規 格	尺 寸 Dimension					刀片 Insert	螺 絲 Screw	扳 手 Wrench
ORDERING CODE	h	b	l1	l2	f			
STFCR/L 0808 H09	8	8	100	10	10	TCMT 0902 TCGT 0902	S022050	T7
STFCR/L 1010 H09	10	10	100	10	12			
STFCR/L 1212 H11	12	12	100	14	16	TCMT/TCGT 1102	S025055	T8
STFCR/L 1616 H11	16	16	100	19	20			
STFCR/L 2020 K16	20	20	125	19	25	TCMT 16T3 TCGT 16T3	S035080	T15
STFCR/L 2525 M16	25	25	150	19	32			

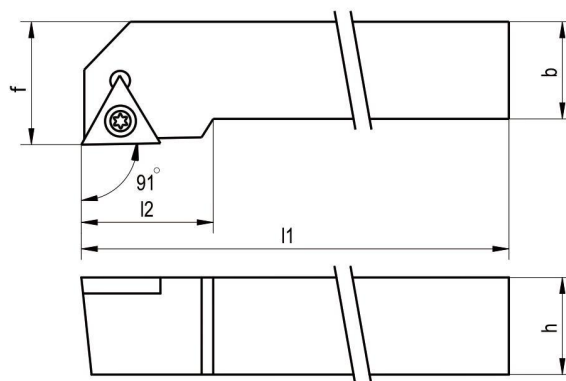
**STFPR/L**




規 格	尺 寸 Dimension					刀片 Insert	螺 絲 Screw	扳 手 Wrench
ORDERING CODE	h	b	l1	l2	f			
STFPR/L 1010 H11	10	10	100	10	11	TPMT 1103	S030080	T9
STFPR/L 1212 H11	12	12	100	14	12			

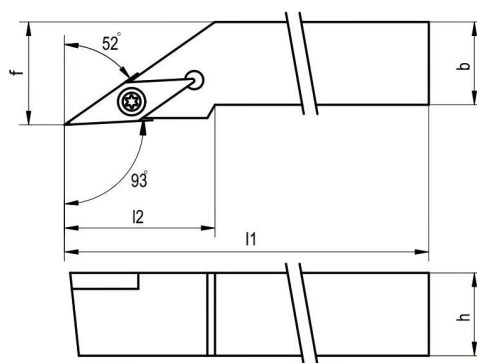
**STGCR/L**

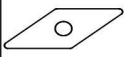
規 格	尺 寸 Dimension					刀片 Insert	螺 絲 Screw	扳 手 Wrench
ORDERING CODE	h	b	l1	l2	f			
STGCR/L 1212 H11	12	12	100	14	16	TCMT 1102 TCGT 1102	S025055	T8
STGCR/L 1616 H11	16	16	100	21	20			
STGCR/L 2020 K16	20	20	125	21	25	TCMT 16T3 TCGT 16T3	S040080B	T15
STGCR/L 2525 M16	25	25	150	21	32			

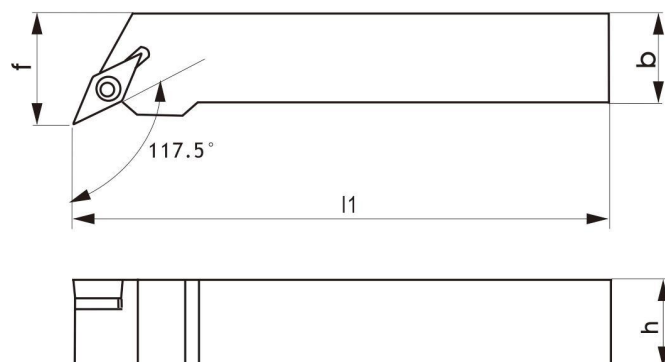


*STGPR/L*

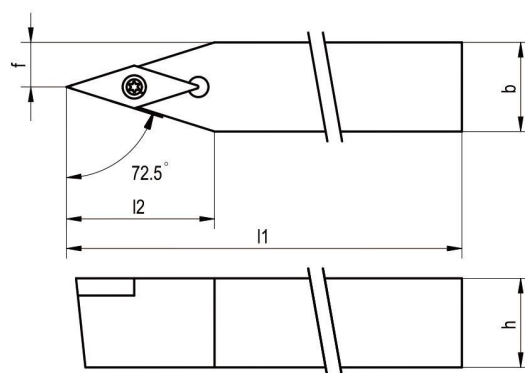
規 格 ORDERING CODE	尺 寸 Dimension					刀片 Insert	螺 絲 Screw	扳 手 Wrench
	h	b	l1	l2	f			
STGPR/L 1010 H11	10	10	100	11	12	TPMT 1103	S030080	T9
STGPR/L 1212 H11	12	12	100	14	16			

*SVJCR/L*

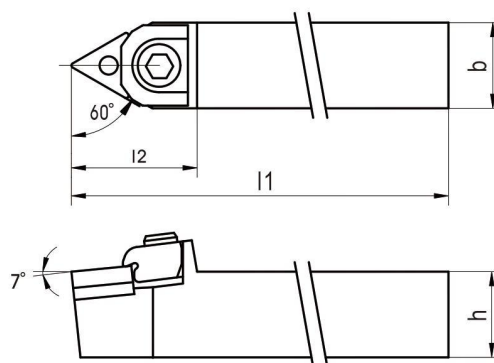
規 格 ORDERING CODE	尺 寸 Dimension				刀片 Insert	墊片 Shim	牙套螺絲 Shim Screw	刀片螺絲 Insert Screw	扳 手 Wrench
	h	b	l1	f					
SVJCR/L 1010 H11	10	10	100	10.5	VCMT 11T3 VCGT 11T3	—	—	S025055	T8
SVJCR/L 1212 H11	12	12	100	12.5					
SVJCR/L 1616 H11	16	16	100	16.5	VCMT 1604 VCGT 1604	SSV163	SDN535	S035120	T15
SVJCR/L 2020 K16	20	20	125	25					
SVJCR/L 2525 M16	25	25	150	32					

*SVPCR/L*

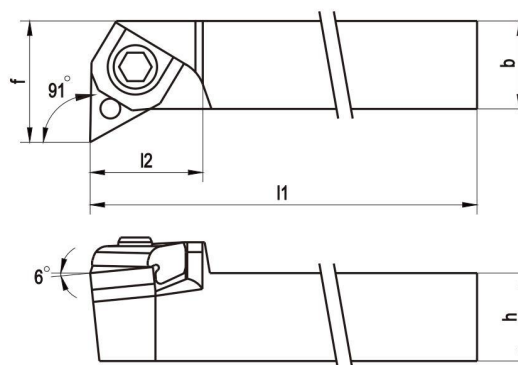
規 格	尺 寸 Dimension				刀片 Insert	墊片 Shim	牙套螺絲 Shim Screw	刀片螺絲 Insert Screw	扳 手 Wrench
ORDERING CODE	h	b	l1	f					
SVPCR/L 1010 H11	10	10	100	14.5	VCMT 1103 VCGT 1103	—	—	S025055	T8
SVPCR/L 1212 H11	12	12	100	16.5					
SVPCR/L 1616 H11	16	16	100	20.5					
SVPCR/L 2020 K16	20	20	125	25	VCMT 1604 VCGT 1604	MSV163	SDN535	S035120	T15
SVPCR/L 2525 M16	25	25	150	32					

*SVVCN*

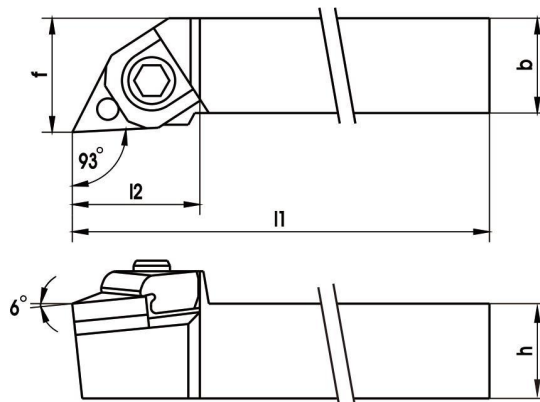
規 格	尺 寸 Dimension				刀片 Insert	墊片 Shim	牙套螺絲 Shim Screw	刀片螺絲 Insert Screw	扳 手 Wrench
ORDERING CODE	h	b	l1	f					
SVVCN 1010 H11	10	10	100	5	VCMT 1103 VCGT 1103	—	—	S025055	T8
SVVCN 1212 H11	12	12	100	6					
SVVCN 1616 H11	16	16	100	8					
SVVCN 2020 K16	20	20	125	10	VCMT 1604 VCGT 1604	MSV163	SDN535	S035120	T15
SVVCN 2525 M16	25	25	150	12.5					

**WTENN**

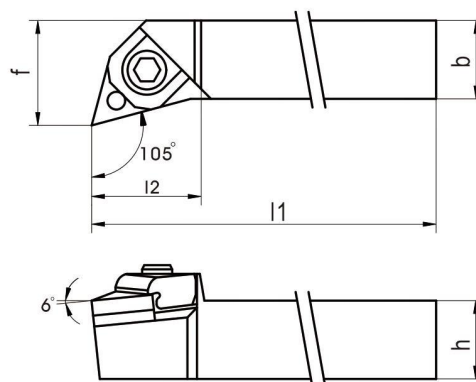
規 格 ORDERING CODE	尺 寸 Dimension					刀 片 Insert	墊 片 Shim	墊片螺絲 Shim screw	壓塊 Clamp	壓塊螺絲 Clamp screw	E型環 E Ring	扳 手 Wrench
	h	b	l1	l2	f							
WTENN 1616 H16	16	16	100	31	10	TNMG TNMA TNGA 1604	WST163	WSP30514	WC16T	WC0525E	E4	4.0 mm
WTENN 2020 K16	20	20	125	31	10		WST164	WSP40517				
WTENN 2525 M16	25	25	150	32	12.5							
WTENN 2525 M22	25	25	150	40	14	TNMG 2204			WC22T	WC0624E	E5	3.0 mm
WTENN 3232 P22	32	32	170	40	16		WST224	WSP40617				
WTENN 4040 S22	40	40	250	40	22							

**WTFN R/L**

規 格 ORDERING CODE	尺 寸 Dimension					刀 片 Insert	墊 片 Shim	墊片螺絲 Shim screw	壓塊 Clamp	壓塊螺絲 Clamp screw	E型環 E Ring	扳 手 Wrench
	h	b	l1	l2	f							
WTFNR/L 2020 K16	20	20	125	31	25	TNMG TNMA TNGA 1604	WST164	WSP40517	WC16T	WC0525E	E4	4.0 mm
WTFNR/L 2525 M16	25	25	150	35	32							

**WTJN R/L**


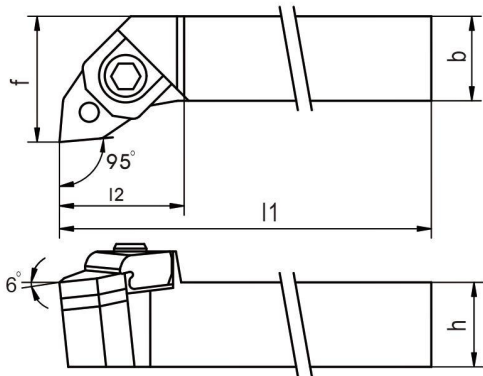
規 格	尺 寸 Dimension					刀 片 Insert	墊 片 Shim	墊片螺絲 Shim screw	壓塊 Clamp	壓塊螺絲 Clamp screw	E型環 E Ring	扳 手 Wrench
ORDERING CODE	h	b	l1	l2	f							
WTJNR/L 1616 H16	16	16	100	32	20	TNMG TNMA TNGA 1604	WST163	WSP30514	WC16T	WC0525E	E4	4.0 mm
WTJNR/L 2020 K16	20	20	125	32	25		WST164	WSP40517				
WTJNR/L 2525 M16	25	25	150	32	32							
WTJNR/L 2525 M22	25	25	150	40	32	TNMG TNMA TNGA 2204			WC22T	WC0624E	E5	3.0 mm
WTJNR/L 3232 P22	32	32	170	40	38		WST224	WSP40617				
WTJNR/L 4040 S22	40	40	250	48	48							

**WTQN R/L**


規 格	尺 寸 Dimension					刀 片 Insert	墊 片 Shim	墊片螺絲 Shim screw	壓塊 Clamp	壓塊螺絲 Clamp screw	E型環 E Ring	扳 手 Wrench
ORDERING CODE	h	b	l1	l2	f							
WTQNR/L 1616 H16	16	16	100	31	20	TNMG TNMA 1604	WST163	WSP30514	WC16T	WC0525E	E4	4.0 mm
WTQNR/L 2020 K16	20	20	125	32	25		WST164	WSP40517				
WTQNR/L 2525 M16	25	25	150	32	32							

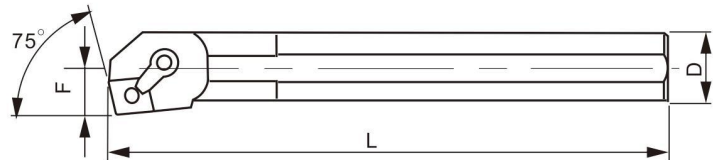


WWLNR/L



規 格 ORDERING CODE	尺 寸 Dimension					刀 片 Insert	墊 片 Shim	墊片螺絲 Shim screw	壓塊 Clamp	壓塊螺絲 Clamp screw	E型環 E Ring	扳 手 Wrench
	h	b	l1	l2	f							
WWLNR/L 2020 K08	20	20	125	32	25	WNMG WNMA 0804	WSW084	WSP40617	WC08C	WC0525E	E4	4.0 mm
WWLNR/L 2525 M08	25	25	150	32	32							
WWLNR/L 3232 P08	32	32	170	40	32							

## MCKNR



規 格	尺 寸 Dimension				刀 片 Insert	墊 片 Shim	墊片螺絲 Shim screw	壓 塊 Clamp	壓塊螺絲 Clamp screw	扳 手 Wrench
ORDERING CODE	D	F	L	B						
S20R MCKNR 12	20	13	200	25	CNMG 1204	—	MSP511	MCL1708	WS050820	2.5 mm
S25R MCKNR 12	25	17	200	32		—	MSP511	MCL1708	WS050820	2.5 mm
S32S MCKNR 12	32	22	250	40		MSC124	MSP617	MCL1814	WS061030	3.0 mm

- 註: L型接受訂單.
- Marked: Left-hand tool holder: make to order.

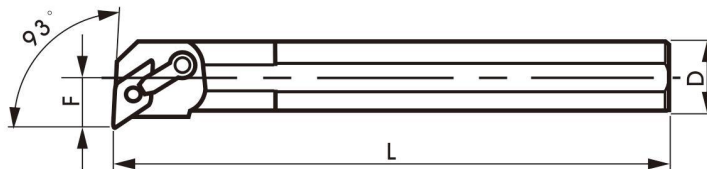
## MCLNR



規 格	尺 寸 Dimension				刀 片 Insert	墊 片 Shim	墊片螺絲 Shim screw	壓 塊 Clamp	壓塊螺絲 Clamp screw	扳 手 Wrench
ORDERING CODE	D	F	L	B						
S20R MCLNR 12	20	13	200	25	CNMG 1204	—	MSP511	MCL1708	WS050820	2.5 mm
S25R MCLNR 12	25	17	200	32		—	MSP511	MCL1708	WS050820	2.5 mm
S32S MCLNR 12	32	22	250	40		—	MSP511	MCL1708	WS050820	2.5 mm
S40T MCLNR 12	40	27	300	50		MSC124	MSP617	MCL1814	WS061030	3.0 mm
S50U MCLNR 12	50	35	350	63		MSC124	MSP617	MCL1814	WS061030	3.0 mm

- 註: L型接受訂單.
- Marked: Left-hand tool holder: make to order.

## MDUNR

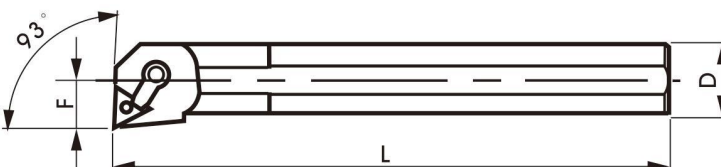


規 格	尺 寸				刀 片	墊 片	墊片螺絲	壓 塊	壓塊螺絲	扳 手
ORDERING CODE	D	F	L	B	Insert	Shim	Shim screw	Clamp	Clamp screw	Wrench
S25R MDUNR 15	25	17	200	32	DNMG 1504	MSD154	MSP617	MCL2114	WS061030	3.0 mm
S32S MDUNR 15	32	22	250	40						
S40T MDUNR 15	40	27	300	50						
S50U MDUNR 15	50	35	350	63						

● 註: L型接受訂單.

● Marked: Left-hand tool holder: make to order.

## MTUNR

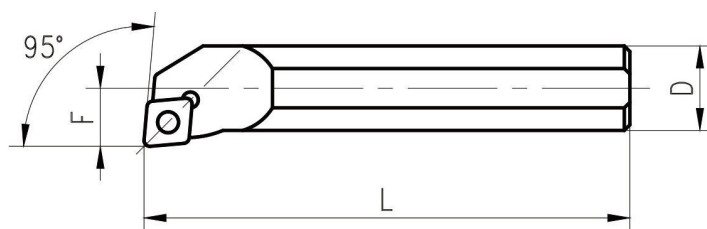




規 格	尺 寸				刀 片	墊 片	墊片螺絲	壓 塊	壓塊螺絲	扳 手
ORDERING CODE	D	F	L	B	Insert	Shim	Shim screw	Clamp	Clamp screw	Wrench
S20R MTUNR 16	20	13	200	25	TNMG 1604	—	MSP510	MCL1708	WS050820	2.5 mm
S25R MTUNR 16	25	17	200	32		WST163	MSP513	MCL1814	WS061030	3.0 mm
S32S MTUNR 16	32	22	250	40						
S40T MTUNR 16	40	26.5	300	50						
S50U MTUNR 16	50	31	350	63						

● 註: L型接受訂單.

● Marked: Left-hand tool holder: make to order.

## SCLCR

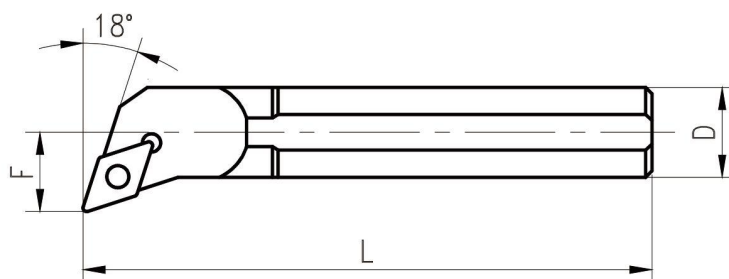





規 格	尺 寸 Dimension				刀片 Insert	螺 絲 Screw	扳 手 Wrench
ORDERING CODE	D	F	L	B			
S08H SCLCR 06	8	6	100	12	CCMT 0602 CCGT 0602	S025055	T8
S10K SCLCR 06	10	7	125	14			
S12M SCLCR 06	12	9	150	16			
S16Q SCLCR 06	16	11	180	20			
S12M SCLCR 09	12	9	150	16	CCMT 09T3 CCGT 09T3	S035080	T15
S16Q SCLCR 09	16	11	180	20			
S20R SCLCR 09	20	13	200	25			
S25T SCLCR 09	25	17	300	32			
S20R SCLCR 12	20	13	200	25	CCMT 1204 CCGT 1204	S050110B	T20
S25T SCLCR 12	25	17	300	32			

● 註: L型接受訂單.

● Marked: Left-hand tool holder; make to order.

## SDQCR



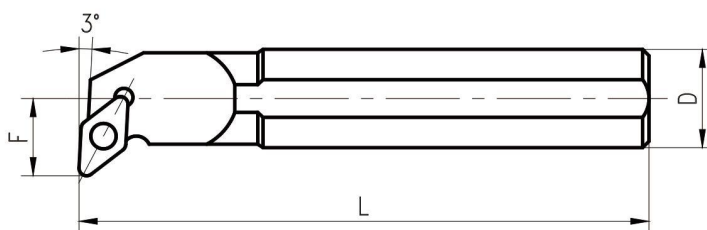
規 格	尺 寸 Dimension				刀片 Insert	螺 絲 Screw	扳 手 Wrench
ORDERING CODE	D	F	L	B			
S10M SDQCR 07	10	7	150	13	DCMT 0702 DCGT 0702	S025055	T8
S12M SDQCR 07	12	9	150	16			
S16Q SDQCR 11	16	11	180	20	DCMT 11T3 DCGT 11T3	S035080	T15
S20R SDQCR 11	20	13	200	25			
S25R SDQCR 11	25	17	200	32			



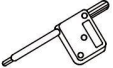
● 註: L型接受訂單.

● Marked: Left-hand tool holder; make to order.



## SDUCR

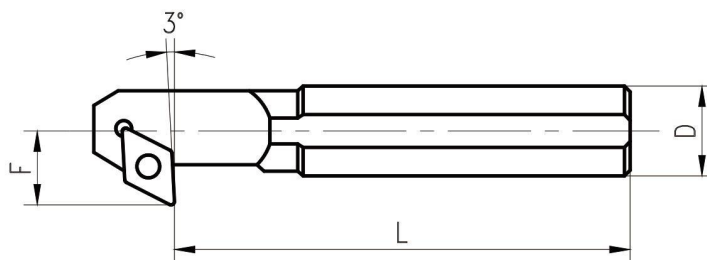





規 格	尺 寸 Dimension				刀片 Insert	螺 絲 Screw	扳 手 Wrench
ORDERING CODE	D	F	L	B			
S10M SDUCR 07	10	7	150	13	DCMT 0702 DCGT 0702	S025055	T8
S12M SDUCR 07	12	9	150	16			
S16Q SDUCR 11	16	11	180	20	DCMT 11T3 DCGT 11T3	S035080	T15
S20R SDUCR 11	20	13	200	25			
S25R SDUCR 11	25	17	200	32			

● 註: L型接受訂單.

● Marked: Left-hand tool holder: make to order.

## SDZCR

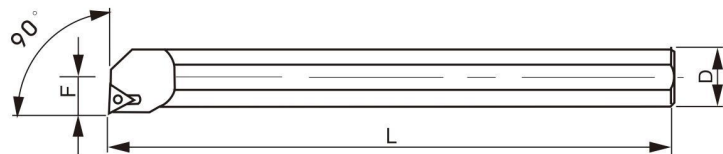




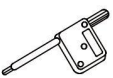
規 格	尺 寸 Dimension				刀片 Insert	螺 絲 Screw	扳 手 Wrench
ORDERING CODE	D	F	L	B			
S10M SDZCR 07	10	8.5	150	14	DCMT 0702 DCGT 0702	S025055	T8
S12M SDZCR 07	12	10.5	150	17			
S16Q SDZCR 07	16	12.5	180	21			
S20R SDZCR 11	20	15.5	200	26	DCMT 11T3 DCGT 11T3	S035080	T15
S25R SDZCR 11	25	18	200	33			

● 註: L型接受訂單.

● Marked: Left-hand tool holder: make to order.

## STFCR





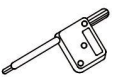
規 格	尺 寸 Dimension				刀片 Insert	螺 絲 Screw	扳 手 Wrench
ORDERING CODE	D	F	L	B			
S08H STFCR 09	8	6	100	12	TCMT 0902 TCGT 0902	S022055	T7
S10K STFCR 09	10	7	125	14			
S12M STFCR 11	12	9	150	16			
S16Q STFCR 11	16	11	180	20	TCMT 1102 TCGT 1102	S025055	T8
S20R STFCR 11	20	13	200	25			
S20R STFCR 16	20	11.5	200	25	TCMT 16T3 TCGT 16T3	S035080	T15
S25R STFCR 16	25	17	200	32			

● 註: L型接受訂單.

● Marked: Left-hand tool holder: make to order.

## STFPR





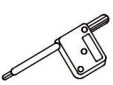
規 格	尺 寸 Dimension				刀片 Insert	螺 絲 Screw	扳 手 Wrench
ORDERING CODE	D	F	L	B			
S08H STFPR 09	8	5	100	11	TPMT 0902 TPGX 0902	S025055	T8
S10K STFPR 09	10	7	125	14			
S12M STFPR 11	12	9	150	16	TPMT 1103 TPGT 1103 TPGX 1103	S030080	T9
S16Q STFPR 11	16	11	180	20			
S20R STFPR 11	20	13	200	25			

● 註: L型接受訂單.

● Marked: Left-hand tool holder: make to order.

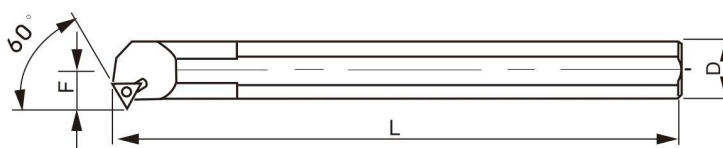
## STUPR



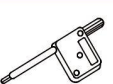


規 格	尺 寸 Dimension				刀片 Insert	螺 絲 Screw	扳 手 Wrench
ORDERING CODE	D	F	L	B			
S10K STUPR 09	10	6	125	12	TPMT/TPGX 0902	S025055	T8
S10K STUPR 11	10	6	125	12	TPMT 1103 TPGX 1103	S030080	T9
S12M STUPR 11	12	8	150	16			
S16Q STUPR 11	16	10	180	20			
S20R STUPR 11	20	12.5	200	25			
S20R STUPR 16	20	12	200	25	TPMT 1603	S040080B	T15
S25R STUPR 16	25	14.5	200	32			

- 註: L型接受訂單.
- Marked: Left-hand tool holder; make to order.

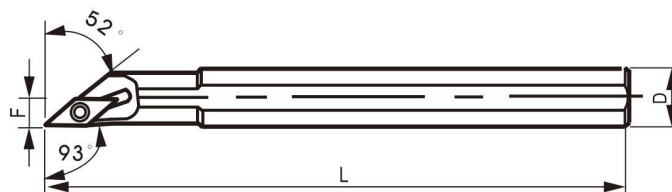
## STWCR






規 格	尺 寸 Dimension				刀片 Insert	螺 絲 Screw	扳 手 Wrench
ORDERING CODE	D	F	L	B			
S08H STWCR 09	8	6	100	10	TCMT 0902	S022055	T7
S10K STWCR 11	10	7	125	13	TCMT 1102	S025055	T8
S12M STWCR 11	12	9	150	16			
S16Q STWCR 11	16	11	180	20			
S20R STWCR 11	20	13	200	25			

- 註: L型接受訂單.
- Marked: Left-hand tool holder; make to order.

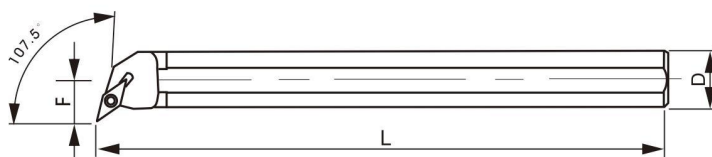
## SVJCR






規 格	尺 寸 Dimension				刀片 Insert	螺 絲 Screw	扳 手 Wrench
ORDERING CODE	D	F	L	B			
S12M SVJCR 11	12	7	150	14	VCMT 1103 VCGT 1103	S025055	T8
S16Q SVJCR 11	16	9	180	18			
S16Q SVJCR 16	16	9	180	18	VCMT 1604 VCGT 1604	S035080	T15
S20R SVJCR 16	20	10.5	200	21			
S25R SVJCR 16	25	13.5	200	27			
S32S SVJCR 16	32	17	250	34			

- 註: L型接受訂單.
- Marked: Left-hand tool holder; make to order.

## SVQCR



規 格	尺 寸 Dimension				刀片 Insert	螺 絲 Screw	扳 手 Wrench
ORDERING CODE	D	F	L	B			
S16Q SVQCR 11	16	13	180	22	VCMT 1103 VCGT 1103	S025055	T8
S20R SVQCR 11	20	15	200	27			
S25R SVQCR 16	25	20.5	200	33	VC□T 1604	S035080	T15

- 註: L型接受訂單.
- Marked: Left-hand tool holder; make to order.



## SVUCR

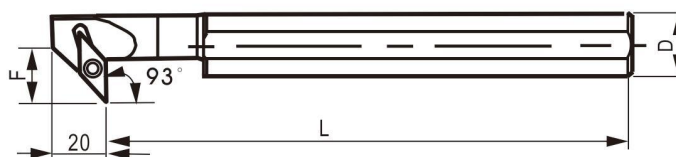


規 格 ORDERING CODE	尺 寸 Dimension				刀片 Insert	螺 絲 Screw	扳 手 Wrench
	D	F	L	B			
S16Q SVUCR 11	16	13	180	22	 VCMT 1103 VCGT 1103	S025055	 T8
S20R SVUCR 11	20	15	200	27			
S25R SVUCR 16	25	20.5	200	33	VC□T 1604	S035080	T15

● 註: L型接受訂單.

● Marked: Left-hand tool holder: make to order.

## SVZCR

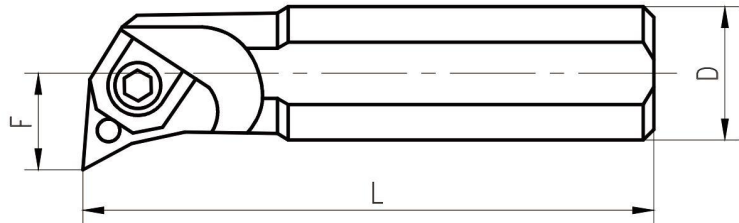


規 格 ORDERING CODE	尺 寸 Dimension				刀片 Insert	螺 絲 Screw	扳 手 Wrench
	D	F	L	B			
S25R SVZCR 16	25	20.5	200	35	 VCMT 1604 VCGT 1604	S035080	 T15
S32S SVZCR 16	32	22	250	40			
S40T SVZCR 16	40	27	300	50			

● 註: L型接受訂單.

● Marked: Left-hand tool holder: make to order.

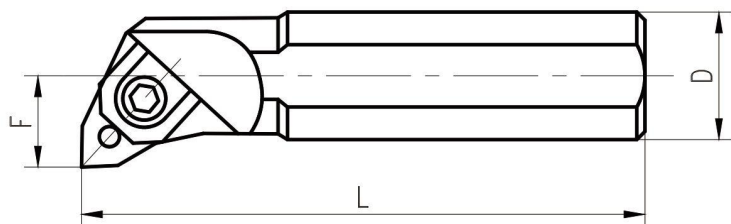
## WTUNR



規 格 ORDERING CODE	尺 寸 Dimension				刀 片 Insert	墊 片 Shim	墊片螺絲 Shim screw	壓 塊 Clamp	壓塊螺絲 clamp screw	E型環 E Ring	扳 手 Wrench
	D	F	L	B							
S25T WTUNR 16	25	13	300	32	TNMG 1604	WST163	WSP30514	WC16T	WC0525E	E4	4.0 mm
S32U WTUNR 16	32	17	350	40							
S40V WTUNR 16	40	27	400	50							
S50W WTUNR 16	50	35	450	63							
S40V WTUNR 22	40	27	400	50	TNMG 2204	WST224	WSP40617	WC22T	WC0624E	E4	3.0 mm
S50W WTUNR 22	50	35	450	63							

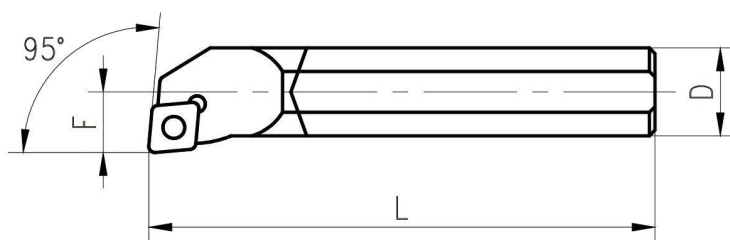
- 註:L型接受訂單
- Marked: Left-hand tool holder: make to order.


## WWLNR



規 格 ORDERING CODE	尺 寸 Dimension				刀片 Insert	墊 片 Shim	墊片螺絲 Shim screw	壓 塊 Clamp	壓塊螺絲 clamp screw	E型環 E Ring	扳 手 Wrench
	D	F	L	B							
S25T WWLNR 08	25	13	300	32	WNMG WNMA 0804	—	WSP00611	WC08C	WC0525E	E4	4.0 mm
S32U WWLNR 08	32	17	350	40		WSW084	WSP40617				
S40V WWLNR 08	40	27	400	50							
S50W WWLNR 08	50	35	450	63							

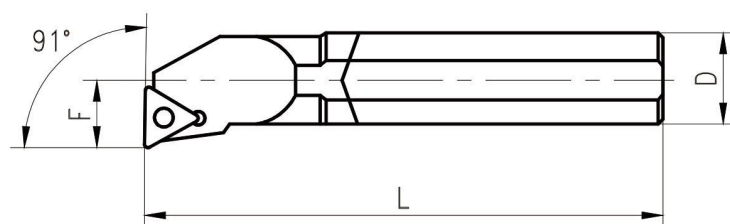
## SCLCR



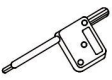


規 格 ORDERING CODE	尺 寸 Dimension				刀片 Insert	螺 絲 Screw	扳 手 Wrench
	D	F	L	B			
C08K SCLCR 06	8	5	125	10	CCMT 0602	S025055	T8
C10M SCLCR 06	10	6	150	12			
C12Q SCLCR 06	12	7	180	14			
C12Q SCLCR 09	12	7	180	14	CCMT 09T3 CCGT 09T3	S035080	T15
C16R SCLCR 09	16	9	200	18			
C20S SCLCR 09	20	11	250	22			

- 註: L型接受訂單.
- Marked: Left-hand tool holder; make to order.

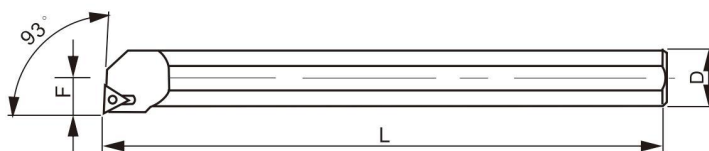
## STFCR



規 格 ORDERING CODE	尺 寸 Dimension				刀片 Insert	螺 絲 Screw	扳 手 Wrench
	D	F	L	B			
C08K STFCR 09	8	5	125	10	TCMT/TCGT 0902	S022050	T7
C10K STFCR 11	10	7	125	14	TCMT 1102 TCGT 1102	S025055	T8
C12M STFCR 11	12	9	150	16			
C16R STFCR 11	16	9	200	18			
C20S STFCR 11	20	11	250	22			

- 註: L型接受訂單.
- Marked: Left-hand tool holder; make to order.

*STUPR/STUBR*



規 格 ORDERING CODE	尺 寸 Dimension				刀片 Insert	螺 絲 Screw	扳 手 Wrench
	D	F	L	B			
C06H STUBR 06	6	3.5	100	7	TBGT 0601	S020040	T6
C08K STUPR 08	8	5	125	10	TPGT 0802	S020045	T6
C10M STUPR 08	10	6	150	12			
C10M STUPR 09	10	6	150	12	TPMT 0902	S025050	T7
C10M STUPR 11	10	6	150	12	TPMT 1103	S030080	T9
C12Q STUPR 11	12	7	180	14			
C16R STUPR 11	16	9	200	18			
C20S STUPR 11	20	11	250	22	TPMT 1604	S040090	T15
C20S STUPR 16	20	11	250	22			
C25T STUPR 16	25	14	300	28			

- 註: L型接受訂單.
- Marked: Left-hand tool holder: make to order.



# 刀片材質對照及建議切削速度



GRADE	P01	P10	P20	P30	P40	M01	M10	M20	M30	M40	K01	K10	K20	K30	K40
CV18															
CV21															
CV11															
CV17															
CV05															
CV19															
CV22															
CV23															

TOOL HOLDERS

A  
31

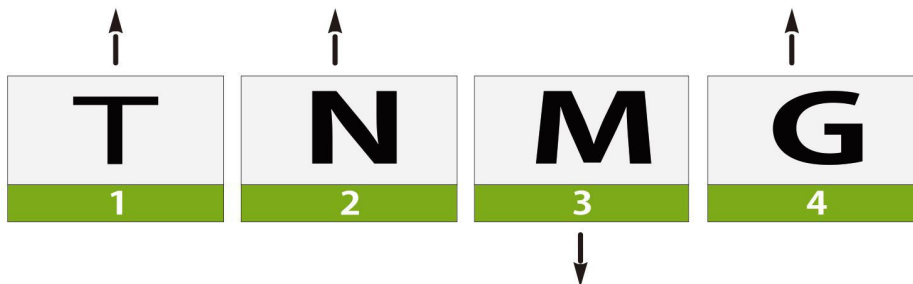
GRADE	顏色	TaeguTec	Mitsubishi	Sumitomo	Tungaloy	Kyocera
CV18	古銅	TT8115	UE6005	AC820P	T9115	CA5505
CV21	黑	TT8125	UE6020	AC830P	T9125	CA5525
CV11	灰	TT5080	VP10RT	AC610M	AH710	PR915
CV17	紫黑	TT8020	VP15TF	AC530U	AH730	PR1125
CV05	黑	TT7005	UC5105	AC410K	T5105	CA4010
CV19	黑	TT7015	UC5115	AC700G	T5115	CA4115

# TURNING INSERT

## DESIGNATION SYSTEM

## 車刀片識別法

1 Shape	刀片形狀		2 Clearance Angle	離隙角		4 Type	刀片特徵	
C	D	E	N	B		A	G	M
H	K	R	C	P		R	W	T
						Special : X		
S	T	V						
W								



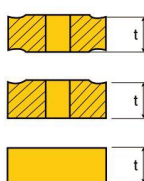
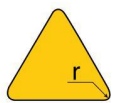
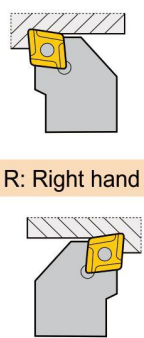
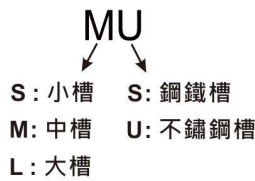
3 Tolerance	精度			
	Tolerance			
	On m		On d	
	Class M	Class U	Class M	Class U
6.35	±0.08	±0.13	±0.05	±0.08
9.52	±0.08	±0.13	±0.05	±0.08
12.70	±0.13	±0.20	±0.08	±0.13
15.88	±0.15	±0.27	±0.10	±0.18
19.05	±0.15	±0.27	±0.10	±0.18
25.40	±0.18	±0.38	±0.13	±0.25
31.75	±0.18	±0.38	±0.13	±0.25

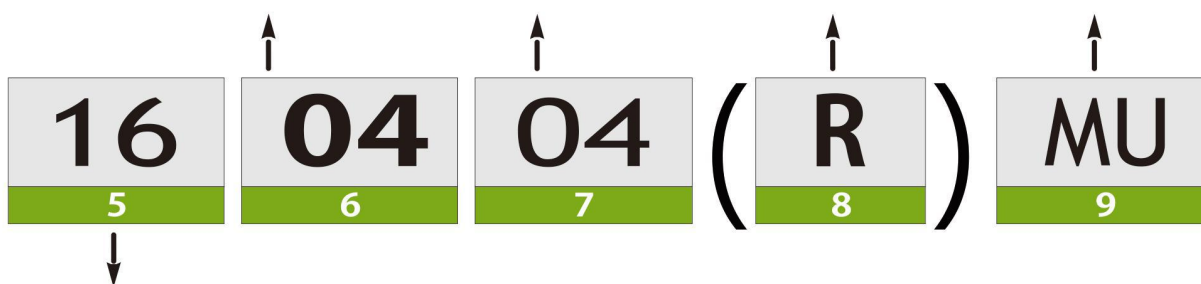
Class	m	t	d
A	±0.005	±0.025	±0.025
F	±0.005	±0.025	±0.013
C	±0.013	±0.025	±0.025
H	±0.013	±0.025	±0.013
E	±0.025	±0.025	±0.025
G	±0.025	±0.13	±0.025
M	±0.08 - ±0.18	±0.13	±0.05 - ±0.13
U	±0.13 - ±0.38	±0.13	±0.08 - ±0.25

# TURNING INSERT

## DESIGNATION SYSTEM

## 車刀片識別法

6 Thickness 厚度	7 Corner Radius 前端圓角	8 Hand of Insert 方向	9 Chipbreaker 排屑槽
 <p>01 = 1.59mm T1 = 1.98mm 02 = 2.38mm T2 = 2.78mm 03 = 3.18mm T3 = 3.97mm 04 = 4.76mm 05 = 5.56mm 06 = 6.35mm 07 = 7.94mm 09 = 9.52mm</p>	 <p>01 = 0.1mm 02 = 0.2mm 04 = 0.4mm 05 = 0.5mm 08 = 0.8mm 12 = 1.2mm 16 = 1.6mm 20 = 2.0mm 24 = 2.4mm 32 = 3.2mm</p>	 <p>R: Right hand L: Left hand</p>	 <p>MU S: 小槽 S: 鋼鐵槽 M: 中槽 U: 不鏽鋼槽 L: 大槽</p>



5 Cutting Edge Length 刀片邊長										
I.C(mm)	C	D	E	R	S	T	V	W	K	H
3.97	03	04			03	06		02		
4.76	04	05			04	08	08			
5.56	05	06			05	09	09	03		
6.35	06	07			06	11	11	04		
7.94	08	09			07	13	13	05		
8.0				08						
9.52	09	11		09	09	16	16	06	16	
10.0				10						
12.0				12						
12.7	12	15	13		12	22	22	08		05
15.88	16	19		15	15	27	27	10		
16.0				16						
19.05	19	23		19	19	33	33	13		10
20.0				20						
25.0				25						
25.4	25	31		25	25	44	44	17		
31.75	32	38			31	54	54	21		
32.0				32						

刀片 Insert	規 格 ORDERING CODE	建議切削參數 Recommended Cutting Condition		材 質 / 切削速度 Grade / Vc(m/min)					
		feed (mm/rev)	ap (mm)	CV18	CV21	CV11	CV17	CV05	CV19
	CNMA 120404	0.15~0.50	1.00~5.00					330	250
	CNMA 120408	0.15~0.60	1.00~5.00					330	250
	CNMA 120412	0.15~0.60	1.00~5.00					330	250
	CNMG 120404	0.17~0.45	1.00~5.00		265		140	330	250
	CNMG 120408	0.23~0.60	2.00~5.00		280		160	330	260
	CNMG 190612	0.30~0.60	3.00~8.00		300				330
	CNMG 120408-LS	0.25~0.70	2.50~6.00		270				
	CNMG 120404-MS	0.10~0.40	0.40~5.00		250		150		
	CNMG 120408-MS	0.15~0.50	0.50~5.00		250		150		260
	CNMG 120412-MS	0.15~0.50	0.50~5.00		250		150		260
	CNMG 190612-MS	0.25~0.55	3.00~8.00		290				
	CNMG 120404-MSS	0.10~0.40	0.40~3.50		270		170		
	CNMG 120404-MU	0.10~0.30	0.80~4.00		300		150		
	CNMG 120408-MU	0.12~0.40	1.00~4.00		300		150		
	CNMG 120408-SS	0.10~0.30	0.80~3.50		280				
	CCMT 060204-M	0.06~0.18	0.30~2.00		310		170		280
	CCMT 060208-M	0.08~0.25	0.35~3.00		310		180		
	CCMT 09T304-M	0.08~0.25	0.35~3.00		310		170		280
	CCMT 09T308-M	0.10~0.28	0.50~3.00		320		180		
	CCMT 120408-M	0.10~0.30	0.70~4.00		340				290



刀片 Insert	規 格 ORDERING CODE	建議切削參數 Recommended Cutting Condition		材 質 / 切削速度 Grade / Vc(m/min)					
		feed (mm/rev)	ap (mm)	CV18	CV21	CV11	CV17	CV05	CV19
	CCMT 09T304-MSS	0.07~0.20	0.40~2.00				170		
	CCMT 09T308-MSS	0.07~0.20	0.40~2.00				170		
	CCMT 060204-S	0.05~0.15	0.30~1.50		240		190		
	CCMT 09T304-S	0.10~0.25	0.60~2.00		240		190		
	CCMT 09T308-S	0.10~0.25	0.60~2.00		240		190		
	DNMG 150608	0.25~0.55	1.50~4.00						250
	DNMG 150612	0.25~0.55	1.50~4.00						250
	DNMG 150408-MS	0.15~0.50	0.50~4.00		300				250
	DNMG 150612-MS	0.17~0.55	0.60~4.00		300				250
	DCMT 070204-M	0.08~0.25	0.50~3.00		310		170		330
	DCMT 11T304-M	0.10~0.25	0.60~1.50	340	310		170		330
	DCMT 11T304-S	0.08~0.25	0.50~3.00		310				
	RCMX 100300	0.25~0.50	1.50~4.00		210				220
	RCMX 120400	0.30~0.60	2.50~5.00		230				250
	RCMX 160600	0.40~0.75	3.00~7.00		250				
	RCMX 200600	0.48~0.90	3.50~9.00		250				270
	RCMX 250700	0.55~1.20	4.00~12.0		250				280
	SNMG 120408	0.23~0.60	1.50~5.00		265		150	320	250

刀片 Insert	規 格 ORDERING CODE	建議切削參數 Recommended Cutting Condition		材 質 / 切削速度 Grade / Vc(m/min)					
		feed (mm/rev)	ap (mm)	CV18	CV21	CV11	CV17	CV05	CV19
	SNMG 120408-MS	0.15~0.50	0.50~5.00		280				265
	SNMG 120408-MU	0.12~0.40	1.00~4.00				120		
	SCMT 09T304-M	0.08~0.25	0.35~3.00		280		160		
	SCMT 09T308-M	0.10~0.28	0.50~3.00		280		160		
	TNMA 160404	0.15~0.30	1.00~4.00					330	250
	TNMA 160408	0.15~0.40	1.00~4.00					330	250
	TNMG 160404	0.17~0.45	1.50~3.50		235		150	330	250
	TNMG 160408	0.17~0.55	2.00~3.50		235		150	330	250
	TNMG 220408	0.17~0.55	2.00~5.00		260		170		
	TNMG 160404-MS	0.15~0.40	1.00~3.50		310		150	265	
	TNMG 160408-MS	0.15~0.50	0.40~4.50		310		150		250
	TNMG 220408-MS	0.17~0.50	1.20~5.00		310				
	TNMG 160404-MSS	0.10~0.30	0.80~3.50		300		150		
	TNMG 160404-MU	0.10~0.30	0.80~3.50		300		150		
	TNMG 160408-MU	0.12~0.40	1.00~3.50		300		150		

刀片 Insert	規 格 ORDERING CODE	建議切削參數 Recommended Cutting Condition		材 質 / 切削速度 Grade / Vc(m/min)					
		feed (mm/rev)	ap (mm)	CV18	CV21	CV11	CV17	CV05	CV19
	TNMG 160404-SS	0.10~0.30	0.80~3.50		310		140		
	TNMG 160404-SU	0.15~0.40	1.00~3.50				150		
	TNMG 160408-SU	0.15~0.50	1.50~3.50				150		
	TNMG 160404R/L	0.15~0.30	0.80~3.00		310		130		320
	TNMG 160408R/L	0.20~0.40	1.00~3.50		310		130		320
	TNMG 270612-LS								
	TCMT 110202-M	0.03~0.15	0.10~0.15		310		150		320
	TCMT 110204-M	0.10~0.25	0.60~3.00		310		150		320
	TCMT 16T308-M	0.10~0.30	1.00~5.00		310		160		330
	VNMG 160404	0.17~0.40	1.00~3.00		265		150		290
	VNMG 160408	0.17~0.50	1.50~3.00		265				290
	VNMG 160404-MS	0.15~0.36	0.40~3.00		290				310
	VNMG 160408-MS	0.17~0.36	0.50~3.00		290			330	310
	VNMG 160404-MU	0.15~0.36	0.80~3.00				160		
	VNMG 160408-MU	0.17~0.36	1.00~2.50				160		

刀片 Insert	規 格 ORDERING CODE	建議切削參數 Recommended Cutting Condition		材 質 / 切削速度 Grade / Vc(m/min)					
		feed (mm/rev)	ap (mm)	CV18	CV21	CV11	CV17	CV05	CV19
	VNMG 160404-MX	0.15~0.36	0.40~3.00		290				
	VNMG 160404-SS	0.05~0.30	0.30~2.50		310				
	VCMT 160404-M	0.10~0.25	0.60~3.00		280		150		310
	VCMT 160408-M	0.10~0.30	1.00~3.00		280		150		310
	WNMA 080408	0.15~0.70	1.00~5.00					310	250
	WNMA 080412	0.20~0.80	1.50~5.00					310	250
	WNMG 080408-MS	0.15~0.50	0.50~4.00		280				310
	WNMG 080412-MS	0.17~0.50	0.60~4.00		280				
	WNMG 080408-MU	0.12~0.40	1.0~4.0	300	300	170	150		320
	WNMG 080412-MU	0.15~0.40	0.10~4.0		300		150		



刀片 Insert	規 格 ORDERING CODE	建議切削參數 Recommended Cutting Condition		材 質 / 切削速度 Grade / Vc(m/min)
		feed (mm/rev)	ap (mm)	K10
	CCGX 060204-AL	0.02~0.15	0.10~3.00	•
	CCGX 09T304-AL	0.02~0.30	0.10~5.00	•
	CCGX 09T308-AL	0.02~0.40	0.20~6.00	•
	CCGX 120404-AL	0.03~0.50	0.10~5.00	•
	CCGX 120408-AL	0.04~0.80	0.10~5.50	•
	DCGX 070204-AL	0.02~0.30	0.10~4.00	•
	DCGX 11T304-AL	0.03~0.50	0.10~5.00	•
	DCGX 11T308-AL	0.03~0.50	0.10~5.00	•
	TCGX 090204-AL	0.02~0.30	0.10~3.50	•
	TCGX 110304-AL	0.02~0.40	0.10~5.00	•
	TCGX 16T304-AL	0.04~0.50	0.50~6.00	•
	VCGX 110304-AL	0.02~0.30	0.10~4.00	•
	VCGX 160404-AL	0.03~0.40	0.10~5.00	•
	VCGX 160408-AL	0.03~0.50	0.10~5.00	•
	VCGX 160412-AL	0.03~0.50	0.50~5.00	•
	VCGX 220530	0.12~0.75	1.00~7.00	•

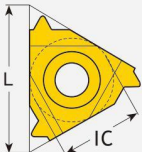





# 螺紋刀系列

THREADING SYSTEM



# THREADING INSERT DESIGNATION SYSTEM 螺紋刀片識別法

1	Insert Size 刀片邊長														
	<table><tr><th>L (mm)</th><th>IC</th></tr><tr><td>06</td><td>5/32</td></tr><tr><td>08</td><td>3/16</td></tr><tr><td>11</td><td>1/4</td></tr><tr><td>16</td><td>3/8</td></tr><tr><td>22</td><td>1/2</td></tr><tr><td>27</td><td>5/8</td></tr></table>	L (mm)	IC	06	5/32	08	3/16	11	1/4	16	3/8	22	1/2	27	5/8
L (mm)	IC														
06	5/32														
08	3/16														
11	1/4														
16	3/8														
22	1/2														
27	5/8														
	 <p>內接圓直徑</p>														

2	Application 內徑外徑區分
	<p>E – External 外牙</p>  <p>N – Internal 內牙</p>  <p>U – Type 置中</p> 

3	Hand of Tool 方向
	<p>R – right-hand 右手</p> <p>L – Left-hand 左手</p> <p>RL – Right-hand Left-hand 左右手</p>

4	Type 類型
	<p>M – Pressed chipbreaker 壓制型</p> <p><input type="checkbox"/> – No indication regular type 標準型</p>

16	E	R	M	1.50	ISO	CV15
1	2	3	4	5	6	7

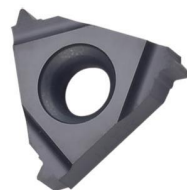
5 Pitch 牙距	6 Thread Standard 牙型標準記號	7 Grade 刀片材質																					
<p>Full Profile (Value by number) 0.35 – 9.0 mm 72 – 2 TPI</p> <p>Partial Profile (Range by letter)</p> <table border="1"> <thead> <tr> <th></th><th>mm 公制</th><th>TPI 英制</th></tr> </thead> <tbody> <tr><td>A</td><td>0.5~1.5</td><td>48~16</td></tr> <tr><td>AG</td><td>0.5~3.0</td><td>48~8</td></tr> <tr><td>G</td><td>1.75~3.0</td><td>14~8</td></tr> <tr><td>N</td><td>3.5~5.0</td><td>7~5</td></tr> <tr><td>U</td><td>5.5~9.0</td><td>4.5~2.75</td></tr> <tr><td>Q</td><td>5.5~6.0</td><td>4.5~4</td></tr> </tbody> </table>		mm 公制	TPI 英制	A	0.5~1.5	48~16	AG	0.5~3.0	48~8	G	1.75~3.0	14~8	N	3.5~5.0	7~5	U	5.5~9.0	4.5~2.75	Q	5.5~6.0	4.5~4	<p>60 – Partial Profile 60°</p> <p>55 – Partial Profile 55°</p> <p>ISO – ISO Metric</p> <p>UN – American</p> <p>W – Whitworth</p> <p>BSPT – British BSPT</p> <p>TR – Trapeze DIN 103</p> <p>ACME – ACME</p> <p>STACME – Stub ACME</p> <p>NPT – NPT</p> <p>ROUND – DIN405</p> <p>ABUT – American Buttress</p> <p>SAGENGEWINDE – DIN405</p>	<p>COATED 塗層材質</p> <p>CV09</p> <p>CV15</p> <p>CV16</p> <p>UNCOATED 未塗層材質</p> <p>H13S</p>
	mm 公制	TPI 英制																					
A	0.5~1.5	48~16																					
AG	0.5~3.0	48~8																					
G	1.75~3.0	14~8																					
N	3.5~5.0	7~5																					
U	5.5~9.0	4.5~2.75																					
Q	5.5~6.0	4.5~4																					



# 螺紋刀系列

Threading Tools

## 新牌號 **CV09**



## 不銹鋼料加工 首選

### 特色

1. 廣泛用於P,M,K等多類加工材質。
2. 極高且穩定的機械性能，能有效延長刀具壽命。
3. 加工材質,尤其在切削不鏽鋼件效能卓著。





# GRADE FAMILY

## 牙刀材質 Threading Grades

	GRADE	ISO	P01	P10	P20	P40	M10	M20	M30	M40	K01	K10	K20	K40
鍍層	CV09	P10 M10												
	CV15	P20 M20												
	CV16	P20 M30												
非鍍層	H13S	K10												

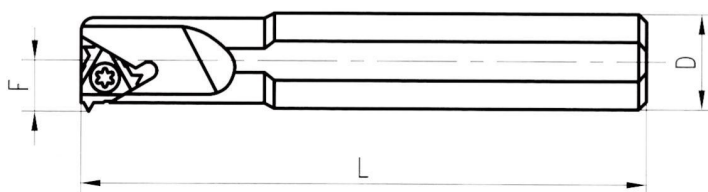
	GRADE	使用範圍 APPLICATION
鍍層	CV09	不鏽鋼，合金鋼中高速加工 for medium speed cutting stainless steel, alloy steel
	CV15	不鏽鋼，合金鋼中高速加工 for medium speed cutting stainless steel, alloy steel
層	CV16	不鏽鋼，鐵中速加工 for low-medium speed cutting stainless steel, steel
非鍍層	H13S	鑄鐵，非鐵金屬，淬硬鋼 for general cutting cast iron, non-ferrous, hardened steel

## 焊接刀材質 Grades for Brazed Tool

GRADE	ISO	P01	P10	P20	P40	M10	M20	M30	M40	K01	K10	K20	K40
SIP	P05, P10												
AU 20	P20,M20												
H13	K10												
SIB	P01												
UIB	P25,M25												
CH05	K01												

GRADE	使用範圍 APPLICATION
SIP	鐵，碳鋼高速加工 for high speed cutting steel, carbon steel
AU 20	不鏽鋼，合金鋼中速加工 for medium-high speed cutting stainless steel, alloy steel
H13	鑄鐵，非鐵金屬 for general cutting cast iron, non-ferrous
SIB	鐵，碳鋼精加工 finishing for steel, carbon steel
UIB	不鏽鋼，合金鋼中速加工 for medium speed cutting stainless steel, alloy steel
CH05	淬硬鋼，鑄鐵，非鐵金屬 for general cutting hardened steel, cast iron, non-ferrous

## SINR

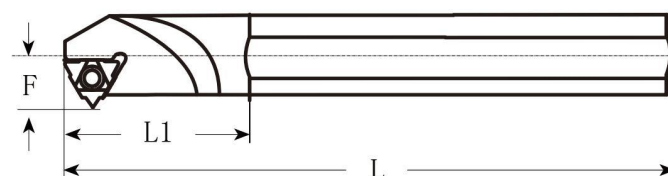







規 格	尺 寸 Dimension			刀 片 Insert	墊 片 Shim	刀片螺絲 Screw	墊片螺絲 Shim screw	扳 手 Wrench
ORDERING CODE	D	F	L					
SINR 0712-06	12	3.7	100	06NR	—	S020045	—	T6
SINR 0916-08	16	5.1	125	08NR	—	S022055	—	T7
SINR 1010-11	10	5.2	150	11NR	—	S0300805	—	T10
SINR 1012-11	12	5.2	150					
SINR 1216-11	16	6.3	150					
SINR 1516-11	16	7.5	150					
SINR 2016-16	16	10	150	16NR	—	S035120	—	T15
SINR 2420S-16	20	12	180	16NR	A16S	S035120	HCM030506	T15
SINR 3025S-16	25	15	200					
SINR 3732S-16	32	18.5	250					
SINR 4440S-16	40	23.7	300					
SINR 2420-22	20	13.9	180	22NR	—	S045110	—	T20
SINR 4032S-27	32	22.6	250	27NR	A127	S050220	HCM050809	T25
SINR 4840S-27	40	26.6	300					

● 註:L型接受訂單

● Marked: Left-hand type purchase back to customer order

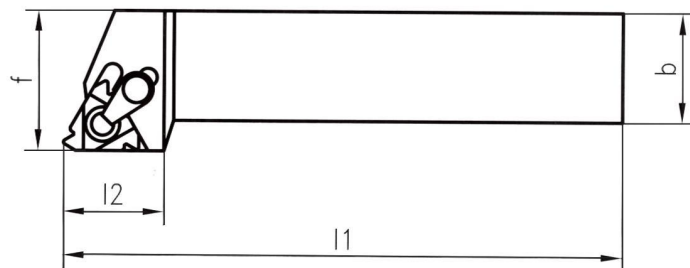
## SINR U-TYPE





規 格	尺 寸 Dimension			刀 片 Insert	墊 片 Shim	刀片螺絲 Screw	墊片螺絲 Shim screw	扳 手 Wrench
ORDERING CODE	D	F	L					
SINR 3832S 22U	32	24.4	250	22UNR	A1E22U	S045150	HCM040706	T15
SINR 4640S 22U	40	28.1	300					
SINR 4032S 27U	32	25.8	250	27UNR	A1E27U	S050220	HCM050809	T25
SINR 4840S 27U	40	29.4	300					

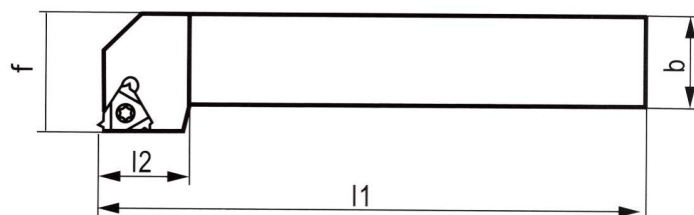
**CNR**






規格	尺寸 Dimension			刀片 Insert	墊片 Shim	墊片螺絲 Shim screw	壓塊+螺絲/組 Clamp+Screw/SET	扳手 Wrench
ORDERING CODE	D	F	L					
CNR 3025S-22	25	16	200	22NR	AIE22 (E/N共用)	HFM030508	AIE22C (E/N共用)	T15
CNR 3732S-22	32	19.5	250					
CNR 4440S-22	40	23.5	300					

**CER**

規 格  ORDERING CODE	尺 寸 Dimension					刀 片 Insert	墊 片 Shim	墊片螺絲 Shim screw	壓塊+螺絲／組 Clamp+Screw/SET		扳 手 Wrench
	h	b	l1	l2	f						
CER 1616 H16	16	16	100	22	20	16ER	AE16S	HFM030508	AIE16C (E/N共用)		T15
CER 2020 K16	20	20	125	22	25						
CER 2525 M16	25	25	150	25	32						
CER 3232 P16	32	32	170	32	40						
CER 2020 K22	20	20	125	22	25	22ER	AIE22 (E/N共用)	HFM030508	AIE22C (E/N共用)		
CER 2525 M22	25	25	150	25	32						
CER 3232 P22	32	32	170	32	40						

- 註:L型接受訂單
- Marked: Left-hand type purchase back to customer order

**SER**

規 格 ORDERING CODE	尺 寸 Dimension					刀 片 Insert	墊 片 Shim	刀片螺絲 Screw	墊片螺絲 Shim screw	扳 手 Wrench
	h	b	l1	l2	f					
SER 1010 H11	10	10	100	16	11	11ER	—	S030080S	—	T10
SER 1212 H11	12	12	100	16	13					
SER 1212 H16	12	12	100	20	16					
SER 1616 H16	16	16	100	22	20	16ER	AE16S	S035120	HCM030506	T15
SER 2020 K16	20	20	125	25	25					
SER 2525 M16	25	25	150	25	32					
SER 3232 P16	32	32	170	32	40					
SER 2525 M27	25	25	150	34	32	27ER	AE27	S050220	HCM050809	T25
SER 3232 P27	32	32	170	34	40					








**SER U-TYPE**

規 格 ORDERING CODE	尺 寸 Dimension					刀 片 Insert	墊 片 Shim	刀片螺絲 Screw	墊片螺絲 Shim screw	扳 手 Wrench
	h	b	l1	l2	f					
SER 2525 M22U	25	25	150	26	25	22UER	AIE22U	S045150	HCM040706	T15
SER 2525 M27U	25	25	150	32	25	27UER	AIE27U	S050220	HCM050809	T25



*MTHR*



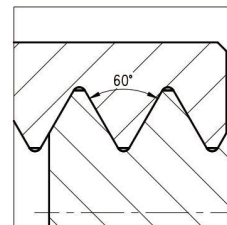
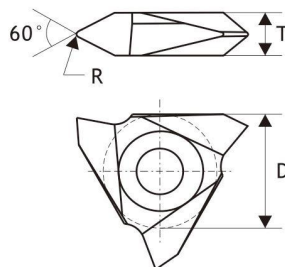
規 格 ORDERING CODE	尺 寸 Dimension					刀 片 Insert	壓 塊 Clamp	壓塊螺絲 Clamp screw	彈 簧 Spring	扳 手 Wrench	螺絲 Screw	扳 手 Wrench
	h	b	l1	l2	f							
MTHR 1616H4S	16	16	100	23	13.8	MTTR 43	MTHRC	HBM061020	SP0800610	4.0mm	S050140	T20
MTHR 2020K4S	20	20	125	21	17.8							
MTHR 2525M4S	25	25	150	21	22.8							

- 註:尾碼S者，加有側孔螺絲.
- Marked: With extra screw for holding insert.



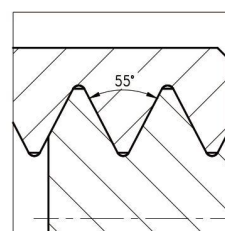
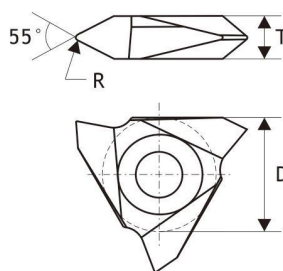
泛用直立式

60°立式泛用螺紋刀片 *Partial Profile 60°*



規 格	螺 距 Pitch		尺 寸 Dimension			材 質 Grade		
ORDERING CODE	mm	TPI	D	T	R	H13S	CV15	CV20
MTTR 436001	1.0-1.75	-	12.70	4.76	0.1	●	●	●
MTTL 436001		-						
MTTR 436002	2.0-2.5	-	12.70	4.76	0.2	●	●	●
MTTL 436002		-						
MTTR 436003	3.0-3.5	-	12.70	4.76	0.3	●	●	●
MTTL 436003		-						
MTTR 436004	4.0-4.5	-	12.70	4.76	0.4	●	●	●
MTTL 436004		-						

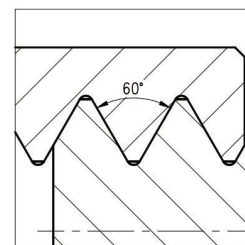
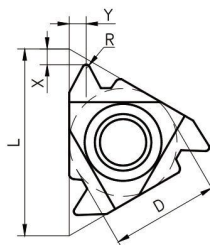
55°立式泛用螺紋刀片 *Partial Profile 55°*



規 格	螺 距 Pitch		尺 寸 Dimension			材 質 Grade		
ORDERING CODE	mm	TPI	D	T	R	H13S	CV15	CV20
MTTR 435501	-	28-10	12.70	4.76	0.1	●	●	●
MTTL 435501	-							
MTTR 435502	-	16-8	12.70	4.76	0.2	●	●	●
MTTL 435502	-							
MTTR 435503	-	11-8	12.70	4.76	0.3	●	●	●
MTTL 435503	-							
MTTR 435504	-	8-6	12.70	4.76	0.4	●	●	●
MTTL 435504	-							

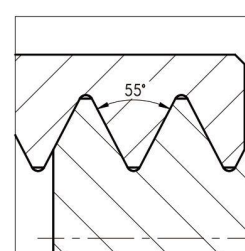
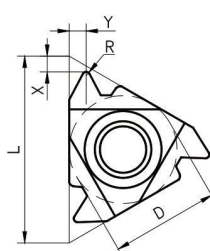
泛用一般式

60° 泛用螺紋刀片 *Partial Profile 60°*



規格 Ordering Code		螺距 Pitch		尺寸 Dimensions (mm)					材質 Grade			
External	Internal	mm	TPI	L	D	Y	X	R	H13S	CV09	CV15	CV16
	06NR/L A60	0.5 -1.25	48-20	6	3.968	0.6	0.6	0.06	●	●	●	
	08NR/L A60	0.5 -1.5	48-16	8	4.762	0.7	0.6	0.07	●	●	●	
11ER/L A60	11NR/L A60	0.5 -1.5	48-16	11	6.35	0.9	0.8	0.08	●	●	●	●
16ER/L A60	16NR/L A60	0.5 -1.5	48-16	16	9.525	0.9	0.8	0.08	●	●	●	●
16ER/L AG60	16NR/L AG60	0.5 -3.0	48-8			1.7	1.2	0.08	●	●	●	●
16ER/L G60	16NR/L G60	1.75-3.0	14-8			1.7	1.2	0.18	●	●	●	●
22ER/L N60	22NR/L N60	3.5 -5.0	7-5	22	12.70	2.5	1.7	0.40	●	●	●	●
27ER/L Q60	27NR/L Q60	5.5 -6.0	4.5-4	27	15.875	3.1	2.1	0.64	●	●	●	●

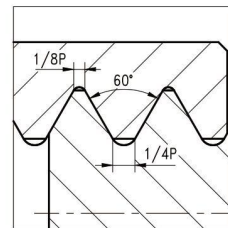
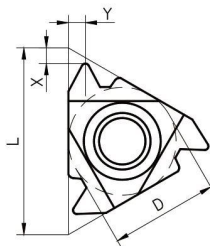
55° 泛用螺紋刀片 *Partial Profile 55°*



規格 Ordering Code		螺距 Pitch		尺寸 Dimensions (mm)					材質 Grade			
External	Internal	mm	TPI	L	D	Y	X	R	H13S	CV09	CV15	CV16
	06NR/L A55	0.5 -1.25	48-20	6	3.968	0.6	0.5	0.05	●	●	●	
	08NR/L A55	0.5 -1.5	48-16	8	4.762	0.7	0.6	0.07	●	●	●	
11ER/L A55	11NR/L A55	0.5 -1.5	48-16	11	6.35	0.9	0.8	0.08	●	●	●	●
16ER/L A55	16NR/L A55	0.5 -1.5	48-16	16	9.525	0.9	0.8	0.08	●	●	●	●
16ER/L AG55	16NR/L AG55	0.5 -3.0	48-8			1.7	1.2	0.08	●	●	●	●
16ER/L G55	16NR/L G55	1.75-3.0	14-8			1.7	1.2	0.20	●	●	●	●
22ER/L N55	22NR/L N55	3.5 -5.0	7-5	22	12.70	2.5	1.7	0.40	●	●	●	●
27ER/L Q55	27NR/L Q55	5.5 -6.0	4.5-4	27	15.875	2.9	2.0	0.60	●	●	●	●

ISO

60° 公制螺紋刀片 ISO METRIC



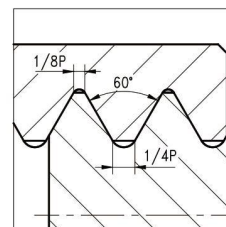
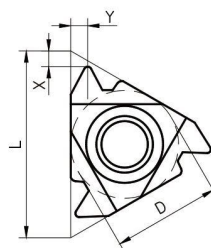
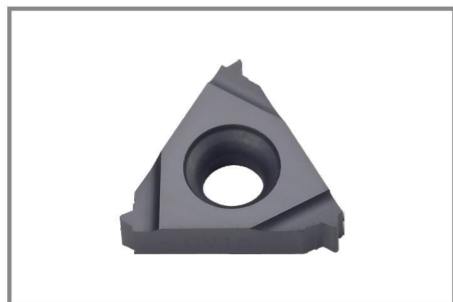
規 格 Ordering Code		螺 距 Pitch		尺 寸 Dimensions (mm)				材 質 Grade			
External	Internal	mm	TPI	L	D	Y	X	H13S	CV09	CV15	CV16
	06NR/L 0.5 ISO	0.50	-	6	3.968	0.5	0.9	●	●	●	●
	06NR/L 0.75 ISO	0.75	-			0.5	0.8	●	●	●	●
	06NR/L 1.0 ISO	1.00	-			0.6	0.7	●	●	●	●
	06NR/L 1.25 ISO	1.25	-			0.6	0.6	●	●	●	●
	08NR/L 0.5 ISO	0.50	-	8	4.76	0.5	0.6	●	●	●	●
	08NR/L 0.75 ISO	0.75	-			0.5	0.6	●	●	●	●
	08NR/L 1.0 ISO	1.00	-			0.6	0.6	●	●	●	●
	08NR/L 1.25 ISO	1.25	-			0.7	0.6	●	●	●	●
	08NR/L 1.5 ISO	1.50	-			0.7	0.6	●	●	●	●
	08NR/L 1.75 ISO	1.75	-			0.8	0.6	●	●	●	●
	11NR/L 0.5 ISO	0.50	-	11	6.35	0.6	0.6	●	●	●	●
	11NR/L 0.75 ISO	0.75	-			0.6	0.6	●	●	●	●
	11NR/L 1.0 ISO	1.00	-			0.7	0.6	●	●	●	●
	11NR/L 1.25 ISO	1.25	-			0.8	0.8	●	●	●	●
	11NR/L 1.5 ISO	1.50	-			1.0	0.8	●	●	●	●
	11NR/L 1.75 ISO	1.75	-			1.1	0.8	●	●	●	●
	11NR/L 2.0 ISO	2.00	-			0.9	0.8	●	●	●	●
16ER/L 0.35 ISO	16NR/L 0.35 ISO	0.35	-	16	9.525	0.4	0.8	●	●	●	●
16ER/L 0.4 ISO	16NR/L 0.4 ISO	0.40	-			0.4	0.7	●	●	●	●
16ER/L 0.45 ISO	16NR/L 0.45 ISO	0.45	-			0.4	0.7	●	●	●	●
16ER/L 0.5 ISO	16NR/L 0.5 ISO	0.50	-			0.6	0.6	●	●	●	●
16ER/L 0.6 ISO	16NR/L 0.6 ISO	0.60	-			0.6	0.6	●	●	●	●
16ER/L 0.7 ISO	16NR/L 0.7 ISO	0.70	-			0.6	0.6	●	●	●	●
16ER/L 0.75 ISO	16NR/L 0.75 ISO	0.75	-			0.6	0.6	●	●	●	●
16ER/L 0.8 ISO	16NR/L 0.8 ISO	0.80	-			0.6	0.6	●	●	●	●
16ER/L 1.0 ISO	16NR/L 1.0 ISO	1.00	-			0.7	0.6	●	●	●	●
16ER/L 1.25 ISO	16NR/L 1.25 ISO	1.25	-			0.9	0.8	●	●	●	●
16ER/L 1.5 ISO	16NR/L 1.5 ISO	1.50	-			1.0	0.8	●	●	●	●
16ER/L 1.75 ISO	16NR/L 1.75 ISO	1.75	-			1.2	0.9	●	●	●	●
16ER/L 2.0 ISO	16NR/L 2.0 ISO	2.00	-			1.3	1.0	●	●	●	●
16ER/L 2.5 ISO	16NR/L 2.5 ISO	2.50	-			1.5	1.1	●	●	●	●
16ER/L 3.0 ISO	16NR/L 3.0 ISO	3.00	-			1.5	1.1	●	●	●	●
22ER/L 3.5 ISO	22NR/L 3.5 ISO	3.50	-	22	12.70	2.3	1.6	●	●	●	●
22ER/L 4.0 ISO	22NR/L 4.0 ISO	4.00	-			2.3	1.6	●	●	●	●
22ER/L 4.5 ISO	22NR/L 4.5 ISO	4.50	-			2.4	1.7	●	●	●	●
22ER/L 5.0 ISO	22NR/L 5.0 ISO	5.00	-			2.5	1.7	●	●	●	●
27ER/L 5.5 ISO	27NR/L 5.5 ISO	5.50	-	27	15.875	2.7	1.9	●	●	●	●
27ER/L 6.0 ISO	27NR/L 6.0 ISO	6.00	-			2.9	2.0	●	●	●	●

● 註: 22E/NR 3.0 ISO 可接單訂做

● Marked: 22E/NR 3.0 ISO; Make to order.

UN

60° 英美統一螺紋刀片 AMERICAN UN



規 格 Ordering Code		螺 距 Pitch		尺 寸 Dimensions (mm)				材 質 Grade			
External	Internal	mm	TPI	L	D	Y	X	H13S	CV09	CV15	CV16
	06NR/L 32 UN	-	32	6	3.968	0.5	0.8	●	●	●	●
	06NR/L 28 UN	-	28			0.6	0.8	●	●	●	●
	06NR/L 24 UN	-	24			0.6	0.7	●	●	●	●
	06NR/L 20 UN	-	20			0.6	0.6	●	●	●	●
	06NR/L 18 UN	-	18			0.7	0.6	●	●	●	●
	08NR/L 32 UN	-	32	8	4.76	0.5	0.6	●	●	●	●
	08NR/L 28 UN	-	28			0.6		●	●	●	●
	08NR/L 24 UN	-	24			0.6		●	●	●	●
	08NR/L 20 UN	-	20			0.7		●	●	●	●
	08NR/L 18 UN	-	18			0.7		●	●	●	●
	08NR/L 16 UN	-	16			0.7		●	●	●	●
	08NR/L 14 UN	-	14			0.8		●	●	●	●
	11NR/L 32 UN	-	32	11	6.35	0.6	0.6	●	●	●	●
	11NR/L 28 UN	-	28			0.7	0.6	●	●	●	●
	11NR/L 24 UN	-	24			0.8	0.7	●	●	●	●
	11NR/L 20 UN	-	20			0.9	0.8	●	●	●	●
	11NR/L 18 UN	-	18			1.0	0.8	●	●	●	●
	11NR/L 16 UN	-	16			1.1	0.9	●	●	●	●
	11NR/L 14 UN	-	14			1.1	0.9	●	●	●	●
16ER/L 32 UN	16NR/L 32 UN	-	32	16	9.525	0.6	0.6	●	●	●	●
16ER/L 28 UN	16NR/L 28 UN	-	28			0.7	0.6	●	●	●	●
16ER/L 24 UN	16NR/L 24 UN	-	24			0.8	0.7	●	●	●	●
16ER/L 20 UN	16NR/L 20 UN	-	20			0.9	0.8	●	●	●	●
16ER/L 18 UN	16NR/L 18 UN	-	18			1.0	0.8	●	●	●	●
16ER/L 16 UN	16NR/L 16 UN	-	16			1.1	0.9	●	●	●	●
16ER/L 14 UN	16NR/L 14 UN	-	14			1.2	0.9	●	●	●	●
16ER/L 12 UN	16NR/L 12 UN	-	12			1.4	1.1	●	●	●	●
16ER/L 11 UN	16NR/L 11 UN	-	11			1.5	1.1	●	●	●	●
16ER/L 10 UN	16NR/L 10 UN	-	10			1.5	1.1	●	●	●	●
16ER/L 9 UN	16NR/L 9 UN	-	9			1.7	1.2	●	●	●	●
16ER/L 8 UN	16NR/L 8 UN	-	8			1.5	1.1	●	●	●	●
22ER/L 7 UN	22NR/L 7 UN	-	7	22	12.70	2.3	1.6	●	●	●	●
22ER/L 6 UN	22NR/L 6 UN	-	6					●	●	●	●
22ER/L 5 UN	22NR/L 5 UN	-	5					●	●	●	●
27ER/L 4.5 UN	27NR/L 4.5 UN	-	4.5	27	15.875	3.0	2.1	●	●	●	●
27ER/L 4 UN	27NR/L 4 UN	-	4			2.7	1.9	●	●	●	●

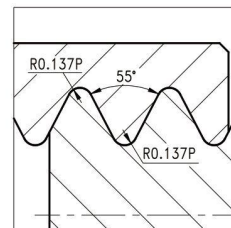
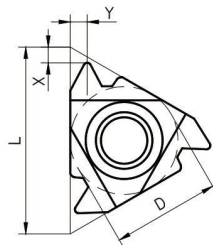
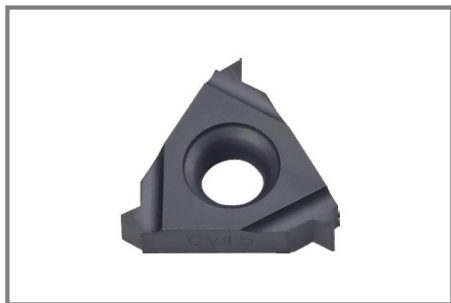
● 註:可接單訂做。  
● Marked: Make to order.

● 註:NPS直管牙可共用UN。  
● Marked: NPS



W

55°英國惠氏螺紋刀片 WHITWORTH



規 格 Ordering Code		螺 距 Pitch		尺 寸 Dimensions (mm)				材 質 Grade			
External	Internal	mm	TPI	L	D	Y	X	H13S	CV09	CV15	CV16
	06NR/L 26 W	-	26	6	3.968	0.6	0.6	●	●	●	
	06NR/L 22 W	-	22			0.6	0.6	●	●	●	
	06NR/L 20 W	-	20			0.7	0.6	●	●	●	
	06NR/L 18 W	-	18			0.7	0.6	●	●	●	
	08NR/L 28 W	-	28	8	4.76	0.6	0.6	●	●	●	
	08NR/L 24 W	-	24			0.6	0.6	●	●	●	
	08NR/L 20 W	-	20			0.7	0.6	●	●	●	
	08NR/L 19 W	-	19			0.7	0.7	●	●	●	
	08NR/L 18 W	-	18			0.7	0.6	●	●	●	
	08NR/L 16 W	-	16			0.7	0.6	●	●	●	
	11NR/L 19 W	-	19	11	6.35	1.0	0.8	●	●	●	●
	11NR/L 18 W	-	18			1.0	0.8	●	●	●	●
	11NR/L 16 W	-	16			1.1	0.9	●	●	●	●
	11NR/L 14 W	-	14			1.1	0.9	●	●	●	●
16ER/L 28 W	16NR/L 28 W	-	28	16	9.525	0.7	0.6	●	●	●	●
16ER/L 26 W	16NR/L 26 W	-	26			0.7	0.7	●	●	●	●
16ER/L 24 W	16NR/L 24 W	-	24			0.8	0.7	●	●	●	●
16ER/L 20 W	16NR/L 20 W	-	20			0.8	0.7	●	●	●	●
16ER/L 19 W	16NR/L 19 W	-	19			1.0	0.8	●	●	●	●
16ER/L 18 W	16NR/L 18 W	-	18			1.0	0.9	●	●	●	●
16ER/L 16 W	16NR/L 16 W	-	16			1.1	1.0	●	●	●	●
16ER/L 14 W	16NR/L 14 W	-	14			1.2	1.1	●	●	●	●
16ER/L 12 W	16NR/L 12 W	-	12			1.4	1.1	●	●	●	●
16ER/L 11 W	16NR/L 11 W	-	11			1.5	1.1	●	●	●	●
16ER/L 10 W	16NR/L 10 W	-	10			1.5	1.2	●	●	●	●
16ER/L 9 W	16NR/L 9 W	-	9			1.7	1.2	●	●	●	●
16ER/L 8 W	16NR/L 8 W	-	8			1.5	2.3	●	●	●	●
22ER/L 7 W	22NR/L 7 W	-	7	22	12.70	2.3	1.6	●	●	●	●
22ER/L 6 W	22NR/L 6 W	-	6			2.3	1.6	●	●	●	●
22ER/L 5 W	22NR/L 5 W	-	5			2.4	1.7	●	●	●	●
27ER/L 4.5 W	27NR/L 4.5 W	-	4.5	27	15.875	2.6	1.8	●	●	●	●
27ER/L 4 W	27NR/L 4 W	-	4			2.9	2.0	●	●	●	●

● 註:可接單訂做.

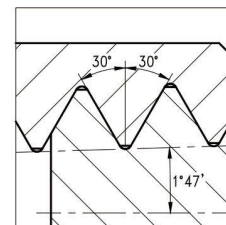
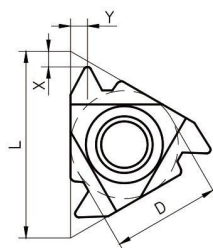
● Marked: Make to order.

● PS直管牙可共用whitworth BSW



# NPT

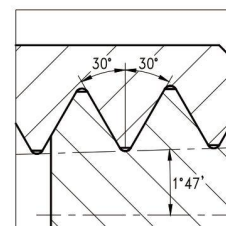
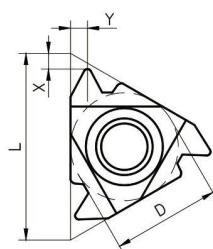
## 60°NPT 斜管螺紋刀片 NPT (National Pipe Threads)



規格 Ordering Code		螺距 Pitch		尺寸 Dimensions (mm)				材質 Grade			
External	Internal	mm	TPI	L	D	Y	X	H13S	CV09	CV15	CV16
	06NR/L 27 NPT	-	27	6	3.968	0.6	0.6	●	●	●	
	08NR/L 27 NPT	-	27	8	4.76	0.6	0.6	●	●	●	
	08NR/L 18 NPT	-	18					●	●	●	
	11NR/L 27 NPT	-	27					●	●	●	●
	11NR/L 18 NPT	-	18	11	6.35	1.0	0.8	●	●	●	●
	11NR/L 14 NPT	-	14			1.0	0.8	●	●	●	●
16ER/L 27 NPT	16NR/L 27 NPT	-	27			0.8	0.7	●	●	●	●
16ER/L 18 NPT	16NR/L 18 NPT	-	18	16	9.525	1.0	0.8	●	●	●	●
16ER/L 14 NPT	16NR/L 14 NPT	-	14			1.2	0.9	●	●	●	●
16ER/L 11.5 NPT	16NR/L 11.5 NPT	-	11.5			1.5	1.1	●	●	●	●
16ER/L 8 NPT	16NR/L 8 NPT	-	8			1.8	1.3	●	●	●	●
		-									

# NPTF

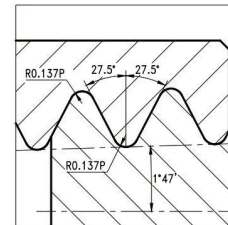
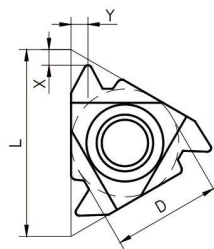
## 60°NPTF 美制密封圓錐管螺紋刀片 NPTF



規格 Ordering Code		螺距 Pitch		尺寸 Dimensions (mm)				材質 Grade			
External	Internal	mm	TPI	L	D	Y	X	H13S	CV09	CV15	CV16
	11NR/L 27 NPTF	-	27	11	6.35	0.8	0.7		●	●	
	11NR/L 18 NPTF	-	18			1.0	0.8		●	●	
	11NR/L 14 NPTF	-	14			1.0	0.8		●	●	
16ER/L 27 NPTF	16NR/L 27 NPTF	-	27	16	9.525	0.8	0.7		●	●	●
16ER/L 18 NPTF	16NR/L 18 NPTF	-	18			1.0	0.8		●	●	●
16ER/L 14 NPTF	16NR/L 14 NPTF	-	14			1.2	0.9		●	●	●
		-	11.5			1.5	1.1		●	●	●
16ER/L 8 NPTF	16NR/L 8 NPTF	-	8			1.8	1.3		●	●	●

**BSPT**

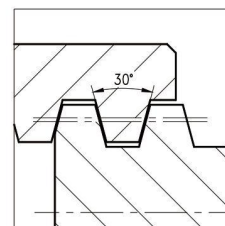
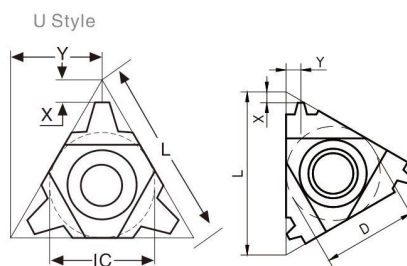
**55°BSPT 斜管螺紋刀片 BSPT (British Standard Pipe)**



規 格 Ordering Code		螺 距 Pitch		尺 寸 Dimensions (mm)				材 質 Grade			
External	Internal	mm	TPI	L	D	Y	X	H13S	CV09	CV15	CV16
	06NR/L 28 BSPT	-	28	6	3.968	0.6	0.7	●	●	●	
	08NR/L 28 BSPT	-	28	8	4.76	0.6	0.6	●	●	●	
	08NR/L 19 BSPT	-	19			0.6	0.6	●	●	●	
	11NR/L 28 BSPT	-	28	11	6.35	0.6	0.6	●	●	●	●
	11NR/L 19 BSPT	-	19			0.9	0.8	●	●	●	●
	11NR/L 14 BSPT	-	14			1.0	0.9	●	●	●	●
16ER/L 28 BSPT	16NR/L 28 BSPT	-	28	16	9.525	0.6	0.6	●	●	●	●
16ER/L 19 BSPT	16NR/L 19 BSPT	-	19			0.9	0.8	●	●	●	●
16ER/L 14 BSPT	16NR/L 14 BSPT	-	14			1.2	1.0	●	●	●	●
16ER/L 11 BSPT	16NR/L 11 BSPT	-	11			1.5	1.1	●	●	●	●

**TR**

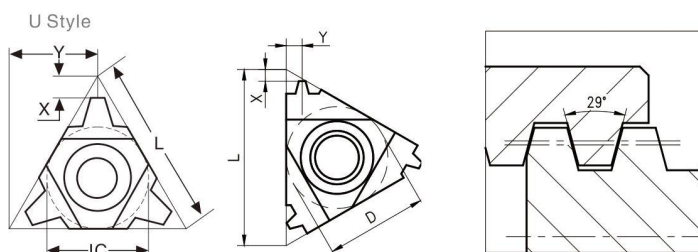
**30° 德制T型螺紋刀片 Trapeze DIN 103**



規 格 Ordering Code		螺 距 Pitch		尺 寸 Dimensions (mm)				材 質 Grade			
External	Internal	mm	TPI	L	D	Y	X	H13S	CV09	CV15	CV16
16ER/L 1.5 TR	16NR/L 1.5 TR	1.5	-	16	9.525	1.1	1.0	●	●	●	●
16ER/L 2.0 TR	16NR/L 2.0 TR	2.0	-			1.3	1.0	●	●	●	●
16ER/L 3.0 TR	16NR/L 3.0 TR	3.0	-			1.5	1.3	●	●	●	●
22ER/L 4.0 TR	22NR/L 4.0 TR	4.0	-	22	12.70	1.9	1.8	●	●	●	●
22ER/L 5.0 TR	22NR/L 5.0 TR	5.0	-			2.4	2.0	●	●	●	●
22UER/L 6.0 TR	22UNR/L 6.0 TR	6.0	-			11.0	2.0		●	●	●
22UER/L 7.0 TR	22UNR/L 7.0 TR	7.0	-			11.0	2.3		●	●	●
27ER/L 6.0 TR	27NR/L 6.0 TR	6.0	-	27	15.875	2.7	2.3		●	●	●
27ER/L 7.0 TR	27NR/L 7.0 TR	7.0	-			2.6	2.2		●	●	●
27UER/L 8.0 TR	27UNR/L 8.0 TR	8.0	-			13.7	2.5		●	●	●
27UER/L 9.0 TR	27UNR/L 9.0 TR	9.0	-			13.7	3.0		●	●	●
27UER/L 10.0 TR	27UNR/L 10.0 TR	10.0	-			13.7	3.2		●	●	●

# ACME

## 29° 美制愛克姆螺紋刀片 ACME

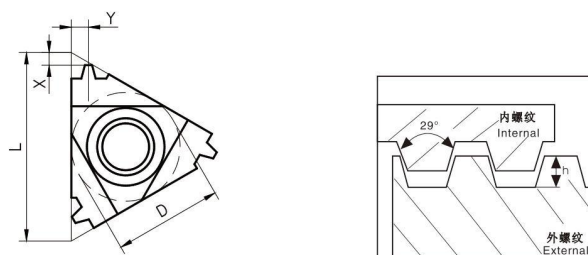


規 格 Ordering Code		螺 距 Pitch		尺 寸 Dimensions (mm)				材 質 Grade			
External	Internal	mm	TPI	L	D	Y	X	H13S	CV09	CV15	CV16
16ER/L 16 ACME	16NR/L 16 ACME	-	16	16	9.525	1.0	0.9	●	●	●	●
16ER/L 14 ACME	16NR/L 14 ACME	-	14			1.2	1.0	●	●	●	●
16ER/L 12 ACME	16NR/L 12 ACME	-	12			1.2	1.1	●	●	●	●
16ER/L 10 ACME	16NR/L 10 ACME	-	10			1.3	1.3	●	●	●	●
16ER/L 8 ACME	16NR/L 8 ACME	-	8			1.5	1.5	●	●	●	●
22ER/L 6 ACME	22NR/L 6 ACME	-	6	22	12.70	2.1	1.8		●	●	●
22ER/L 5 ACME	22NR/L 5 ACME	-	5			2.3	2.0		●	●	●
22UER/L 4 ACME	22UNR/L 4 ACME	-	4			11.0	2.3		●	●	●
27ER/L 4 ACME	27NR/L 4 ACME	-	4	27	15.875	2.7	2.4		●	●	●
27UER/L 3 ACME	27UNR/L 3 ACME	-	3			13.7	2.8		●	●	●

- 註:可接單訂做.
- Marked: Make to order.

# STUB ACME

## 29°短齒ACME螺紋刀片 STUB ACME

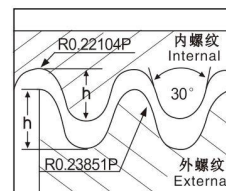
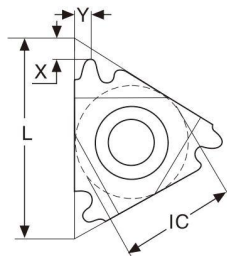


規 格 Ordering Code		螺 距 Pitch		尺 寸 Dimensions (mm)				材 質 Grade			
External	Internal	mm	TPI	L	D	Y	X	H13S	CV09	CV15	CV16
16ER/L 16 STACME	16NR/L 16 STACME	-	16	16	9.525	1.0	1.0		●	●	●
16ER/L 14 STACME	16NR/L 14 STACME	-	14			1.1	1.1		●	●	●
16ER/L 12 STACME	16NR/L 12 STACME	-	12			1.2	1.2		●	●	●
16ER/L 10 STACME	16NR/L 10 STACME	-	10			1.3	1.3		●	●	●
16ER/L 8 STACME	16NR/L 8 STACME	-	8			1.5	1.5		●	●	●
16ER/L 6 STACME	16NR/L 6 STACME	-	6			1.8	1.8		●	●	●
22ER/L 6 STACME	22NR/L 6 STACME	-	6	22	12.70	1.8	1.8		●	●	●
22ER/L 5 STACME	22NR/L 5 STACME	-	5			2.3	2.3		●	●	●
27ER/L 4 STACME	27NR/L 4 STACME	-	4	27	15.875	2.4	2.3		●	●	●
27ER/L 3 STACME	27NR/L 3 STACME	-	3			2.9	2.8		●	●	●



**ROUND**

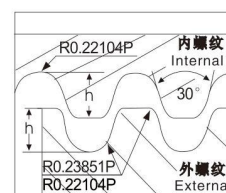
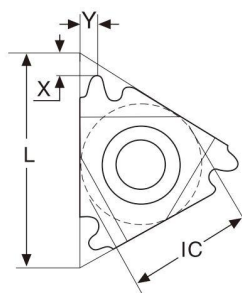
**30°圓齒螺紋刀片 DIN 405 Round DIN 405**



規格 Ordering Code		螺距 Pitch		尺寸 Dimensions (mm)				材質 Grade			
External	Internal	mm	TPI	L	D	Y	X	H13S	CV09	CV15	CV16
16ER/L 10 RD	16NR/L 10 RD	-	10	16	9.525	1.2	1.1		●	●	●
16ER/L 8 RD	16NR/L 8 RD	-	8			1.4	1.4		●	●	●
16ER/L 6 RD	16NR/L 6 RD	-	6			1.5	1.4		●	●	●
22ER/L 6 RD	22NR/L 6 RD	-	6	22	12.70	1.7	1.5		●	●	●
22ER/L 4 RD	22NR/L 4 RD	-	4			2.3	2.2		●	●	●
27ER/L 4 RD	27NR/L 4 RD	-	4	27	15.875	2.3	2.2		●	●	●

**ROUND**

**30°圓齒螺紋刀片 DIN 20400 Round DIN 20400**



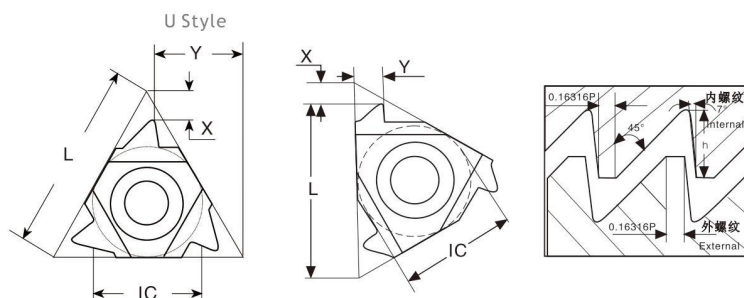
規格 Ordering Code		螺距 Pitch		尺寸 Dimensions (mm)				材質 Grade			
External	Internal	mm	TPI	L	D	Y	X	H13S	CV09	CV15	CV16
22ER/L 3.0 RD	22NR/L 3.0 RD	3.0	-	22	12.70	1.7	1.28				
22ER/L 4.0 RD	22NR/L 4.0 RD	4.0	-			2.2	1.6				
22ER/L 5.0 RD	22NR/L 5.0 RD	5.0	-			1.75	1.36				
27ER/L 6.0 RD	27NR/L 6.0 RD	6.0	-	27	15.875	2.1	1.7				
27UER/L 8.0 RD	27UNR/L 8.0 RD	8.0	-			13.5	2.95				

註:可接單訂做.

● Marked: Make to order.

# ABUT

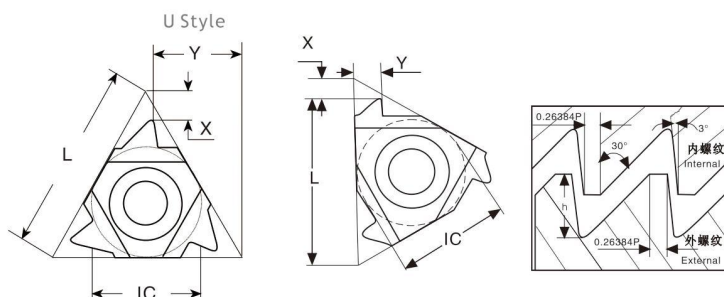
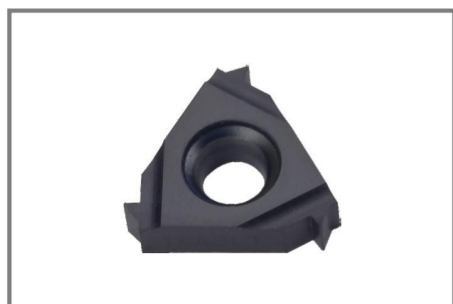
## 美制鋸齒型螺紋刀片 American Buttress



規 格 Ordering Code		螺 距 Pitch		尺 寸 Dimensions (mm)				材 質 Grade			
External	Internal	mm	TPI	L	D	Y	X	H13S	CV09	CV15	CV16
11ER/L 20 ABUT	11NR/L 20 ABUT	-	20	11	6.35	1.3	1.0				
11ER/L 16 ABUT	11NR/L 16 ABUT	-	16			1.5	1.0				
16ER/L 20 ABUT	16NR/L 20 ABUT	-	20	16	9.525	1.3	1.0		●	●	●
16ER/L 16 ABUT	16NR/L 16 ABUT	-	16			1.5	1.0		●	●	●
16ER/L 12 ABUT	16NR/L 12 ABUT	-	12			2.0	1.4		●	●	
16ER/L 10 ABUT	16NR/L 10 ABUT	-	10			2.3	1.5		●	●	
22ER/L 8 ABUT	22NR/L 8 ABUT	-	8	22	12.70	3.3	2.1		●	●	
22ER/L 6 ABUT	22NR/L 6 ABUT	-	6			3.4	2.1		●	●	
22UER/L 4 ABUT	22UNR/L 4 ABUT	-	4			9.5	2.3		●	●	
27UER/L 3 ABUT	27UNR/L 3 ABUT	-	3	27	15.875	11.7	3.1		●	●	

# SAGE

## 公制鋸齒螺紋刀片 DIN 513 Sagengwinde DIN513

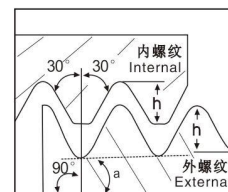
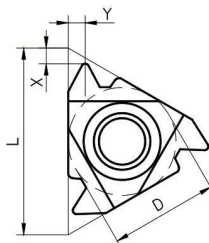


規 格 Ordering Code		螺 距 Pitch		尺 寸 Dimensions (mm)				材 質 Grade			
External	Internal	mm	TPI	L	D	Y	X	H13S	CV09	CV15	CV16
16ER/L 2 SAGE	16NR/L 2 SAGE	2.0	-	22	12.70	1.6	1.1		●	●	
22ER/L 3 SAGE	22NR/L 3 SAGE	3.0	-			2.4	1.5		●	●	
22ER/L 4 SAGE	22NR/L 4 SAGE	4.0	-			3.1	1.9		●	●	
22UER/L 5 SAGE	22UNR/L 5 SAGE	5.0	-			11.7	1.9		●	●	
22UER/L 6 SAGE	22UNR/L 6 SAGE	6.0	-			11.9	2.1		●	●	



APIRD

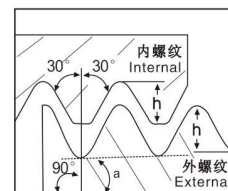
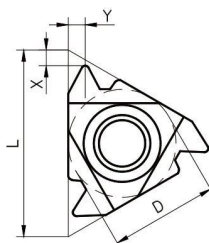
60°石油管用螺紋刀片 Oil Threads



規 格 Ordering Code		螺 距 Pitch		尺 寸 Dimensions (mm)				材 質 Grade			
External	Internal	mm	TPI	L	D	Y	X	H13S	CV09	CV15	CV16
16ER/L 10 APIRD	16NR/L 10 APIRD	-	10	16	9.525	1.4	1.5		●	●	●
16ER/L 8 APIRD	16NR/L 8 APIRD	-	8			1.6	1.3		●	●	●

API

60°石油管用螺紋刀片 Oil Threads

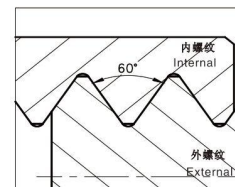
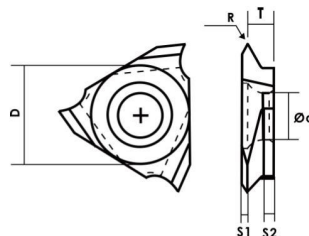
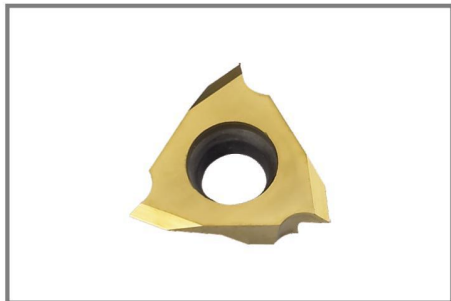


規 格 Ordering Code		範 圍 Connection No. or Size	螺 距 Pitch	尺 寸 Dimensions (mm)				材 質 Grade			
External	Internal		TPI	L	D	Y	X	H13S	CV09	CV15	CV16
22ER/L 4 API 382	22NR/L 4 API 382	NC23-NC50	4	22	12.70	2.8	2.1		●	●	●
22ER/L 4 API 383	22NR/L 4 API 383	NC56-NC77	4			2.8	2.1		●	●	●
22ER/L 4 API 502	22NR/L 4 API 502	6-5/8" REG	4			2.9	2.0		●	●	●
22ER/L 4 API 503	22NR/L 4 API 503	5-1/2",7-5/8",8-5/8" REG	4			2.9	2.0		●	●	●
22ER/L 5 API 403	22NR/L 5 API 403	2-3/8" - 4-1/2" REG	5			2.5	1.8		●	●	●
22ER/L 6 API 551	22NR/L 6 API 551	NC10-NC16	6			2.9	1.8		●	●	●
27ER/L 4 API 382	27NR/L 4 API 382	NC23-NC50	4	27	15.875	2.8	2.1		●	●	●
27ER/L 4 API 383	27NR/L 4 API 383	NC56-NC77	4			2.8	2.1		●	●	●
27ER/L 4 API 502	27NR/L 4 API 502	6-5/8" REG	4			3.0	2.0		●	●	●
27ER/L 4 API 503	27NR/L 4 API 503	5-1/2",7-5/8",8-5/8" REG	4			3.0	2.0		●	●	●

TTX

60°泛用螺紋刀片 Partial Profile 60°

55°泛用螺紋刀片 Partial Profile 55°

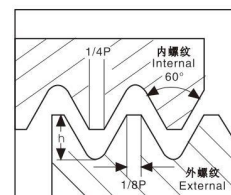
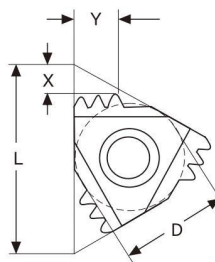


規 格 Ordering Code	螺 距 Pitch		尺 寸 Dimensions (mm)						材 質 Grade			
	mm	TPI	D	T	R	S1	S2	Ød	H13S	CV09	CV15	CV16
TTX16R/L6000	0.5-1.0	56-32	9.525	3.18	0.00	0.6	1.12	4.4	●	●	●	
TTX16R/L6000S	0.5-1.0	48-32	9.525	3.18	0.05	0.6	1.12	4.4	●	●	●	
TTX16R/L6001	1.0-2.0	28-14	9.525	3.18	0.10	1.1	1.62	4.4	●	●	●	
TTX16R/L6000S	0.5	56-48	9.525	3.18	0.00	0.3	1.12	4.4				
TTX16R/L6000S	0.5	48	9.525	3.18	0.05	0.3	1.12	4.4	●	●	●	
TTX16R/L5501	-	28-19	9.525	3.18	0.10	0.75	1.01	4.4	●	●	●	
TTX16R/L5501S	-	20-11	9.525	3.18	0.15	1.20	1.46	4.4	●	●	●	

- 註:可接單訂做.
- Marked: Make to order.

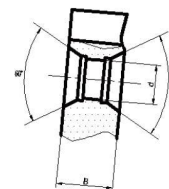
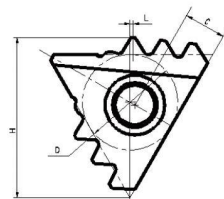
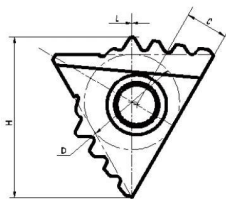
多齒型

60°多齒型螺紋刀片 MULTI TEETH



規 格 Ordering Code		螺 距 Pitch		尺 寸 Dimensions (mm)				材 質 Grade			
External	Internal	mm	TPI	L	D	Y	X	H13S	CV09	CV15	CV16
16ER/L 1.0 ISO 3M	16NR/L 1.0 ISO 3M	-	1.0	16	9.525	2.5	1.7	●	●	●	
16ER/L 1.5 ISO 2M	16NR/L 1.5 ISO 2M	-	1.5			2.3	1.5	●	●	●	
22ER/L 1.5 ISO 3M	22NR/L 1.5 ISO 3M	-	1.5	22	12.70	3.7	2.3		●	●	
22ER/L 2.0 ISO 2M	22NR/L 2.0 ISO 2M	-	2.0			3.0	2.0		●	●	
22ER/L 2.0 ISO 3M	22NR/L 2.0 ISO 3M	-	2.0			5.0	3.1		●	●	
27ER/L 3.0 ISO 2M	27NR/L 3.0 ISO 2M	-	3.0	27	15.875	4.5	2.9		●	●	

石油油管、套管圓螺紋刀片



規 格 Ordering Code	螺 距 Pitch	尺 寸 Dimensions (mm)						材 質 Grade			
	TPI	D	d	B	C	H	L	H13S	CV09	CV15	CV16
B8W2-3H	8	10.17	4.2	6.0	4.5	17.1	0.32		●	●	●
B10W2-4H	10						0.01		●	●	●
B8N2-3H	8						0.32		●	●	●
B10N2-4H	10						0.01		●	●	●

- 註:可接單訂做.
- Marked: Make to order.

工作材質	硬度	切削速度Vc(m/min)			
		CV09	CV15	CV16	H13S
碳素鋼	200HB以下	100~240	100~200	80~160	
	200HB以上	100~180	100~150	60~140	
不鏽鋼		60~200	60~180	60~120	
鑄鐵				60~90	70~100
非鐵金屬					100~500
高硬度材	50~60HRC				10~30
耐熱合金					10~40

## 切削參考數據

切深及切削次數參考下表及下述事項

螺距	0.5	0.75	1	1.25	1.5	1.75	2	2.5	3	3.5	4	4.5	5~
牙數	48	32	24	20	16	14	12	10	8	7	6	5.5	5~
切削次數	4~6	4~7	4~8	5~9	6~10	7~12	7~12	8~14	10~16	11~18	11~18	11~19	12~24

- 使用有修光刃刀片時，精加工的總切深量定為0.1mm。
- 第一次切深的刀尖半徑(R)的150~200%最大不超過0.5mm。
- 最終精加工的切深量，最低為0.05mm，不能為0。對於工件硬化層採用微小切深，甚至為0，為降低刀具壽命的原因。
- 內牙用刀尖半徑小的泛用型刀片，隨切深的減少，切削次數相對增加。
- 各種形狀螺紋刀片切削參考數據，於B25~B28頁介紹。

$$\text{切削轉速計算公式：} N = \frac{V \times 1000}{\pi \times D}$$

$N$ =切削轉速(轉/分)  
 $V$ =切削線速度(米/分)  
 $D$ =工件直徑(mm)  
 $\pi=3.14$



# 螺紋刀具切削時出現的問題及解決方法



問題點	原因	解決方法
早期磨耗	切削速度過高	降低切削速度
	刀具材料不適合	換耐磨性更好的刀具材料
	切削次數過多	減少切削次數
	最終精加工的切深小	最終精加工的切深取0.05mm以上
	冷卻液不足	儘可能供給刀尖多的含潤滑劑之冷卻液
左右切削刃磨耗不均	導程角不合理	適當的補正導程角
	進行單邊刃切削	變成交替刃切削
	螺紋牙型半角左右不對稱	把刀具的切入角調整至螺紋牙型的 $1/2$ 進行切削
崩刃	切削速度太低	提高切削速度
	鈍化量小	加大鈍化量
破損(大崩刃)	黏屑	儘可能供給刀尖更多的潤滑冷卻液，或更換相對摩擦係數小的刀片材質
	工作形狀有誘發破損的要素	在入口處倒角，在切削終了處切槽，其尺寸大小均應大於螺紋牙刀
	刀具、工件裝卡不牢	加強裝卡牢固，選擇強度高的刀具材料
產生裂紋	冷卻液供給不穩定	將冷卻液儘可能多邊穩定供給刀尖
	切削速度太高	降低切削速度
	刀具材料不適合	選擇強度更高的刀具材料
塑性變形大	每次切深過大	減小每次切深量
	冷卻液不足	儘可能供給刀尖更多冷卻液
	切削速度太高	降低切削速度
	刀具材料不適合	選擇硬度更高的刀具材質
加工面不好	導程角不合理	補正導程角
	切削速度過低	提高切削速度
	刀具過早磨損	更換耐磨性更高的刀具材料
螺紋形狀不正確	刀具安裝不正確	用百分表等檢查刀具的中心高及傾斜度並進行調整
	螺紋深度不夠	檢查切深量並進行調整
	刀具提早磨損	更換耐磨性更好的刀具材料

在螺距大，螺紋直徑小時，導程角變大，使有效後角 $\beta_2$ 減小，特別是在側面角小的梯形螺紋方面是導致刀片壽命短的原因，安裝螺紋刀片時使用左右後角相等無干擾是最理想的，因使安裝時刀片的前面朝螺旋槽方向( $\beta = \beta_3$ )請更換刀墊。

標準刀體的前角、外螺紋為 $10^\circ$  內螺紋為 $15^\circ$

螺紋牙型角	$\theta$	$\beta_1$	
$2\theta$		外螺紋刀具	內螺紋刀具
$60^\circ$	$30^\circ$	$5.8^\circ$	$8.8^\circ$
$55^\circ$	$27.5^\circ$	$5.2^\circ$	$7.9^\circ$
$30^\circ$	$15^\circ$	$2.7^\circ$	$4.1^\circ$
$29^\circ$	$14.5^\circ$	$2.6^\circ$	$4^\circ$

## ▲ 後角的計算

$$\beta_1 = \tan^{-1}(\tan\theta \cdot \tan\alpha)$$

## ▲ 導程角的計算

$$\beta = \tan^{-1}(l/\pi d) = \tan^{-1}(nP/\pi d)$$

$\beta$  : 有效導程角

$l$  : 導程

$n$  : 頭數

$P$  : 螺距

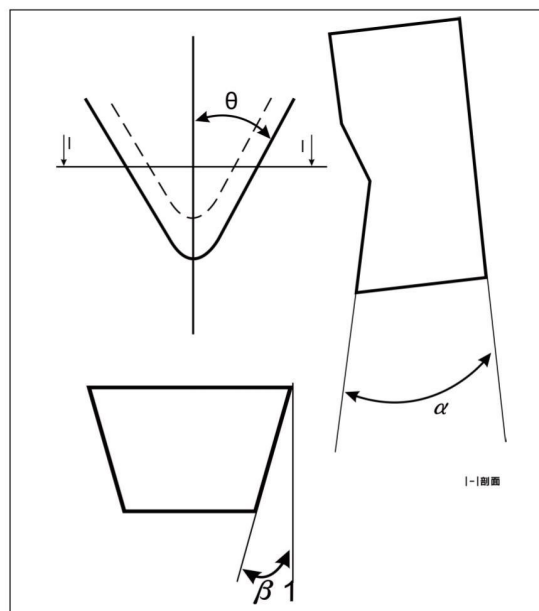
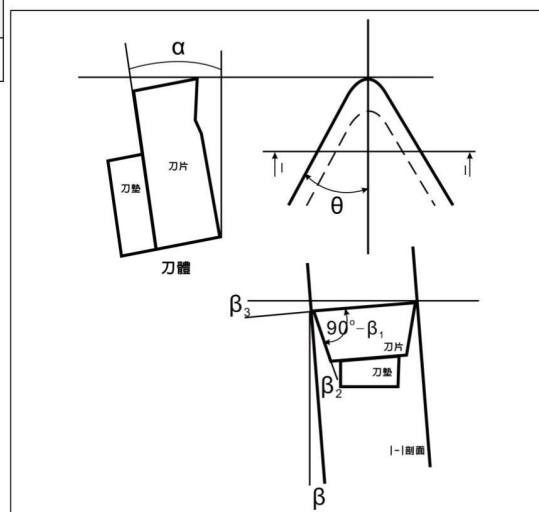
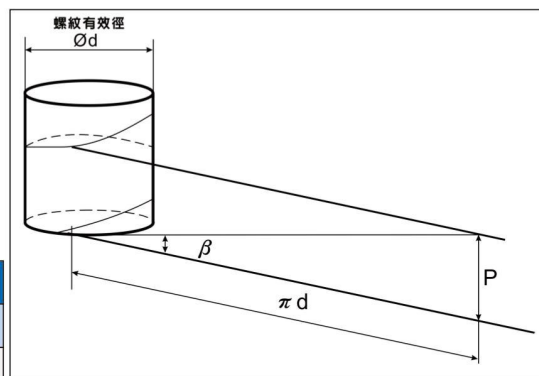
$d$  : 螺紋有效徑

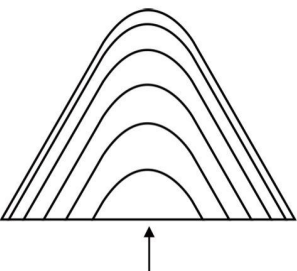
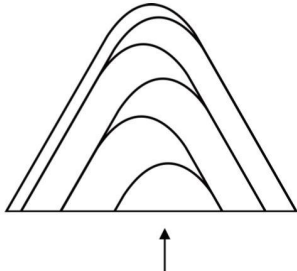
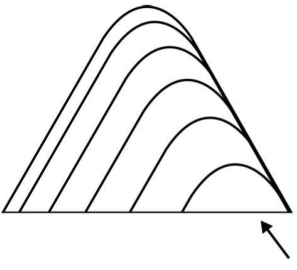
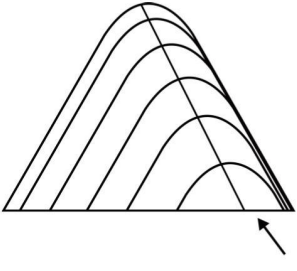
## ▲ 有效後角的計算公式

$$\beta_2 = \beta_1 + \beta_3 - \beta$$

$\beta$  : 導程角  $\beta_2$  : 有效後角  $\beta_3$  : 導程角修正值

螺紋的導程角和修正值如果相等，即 $\beta_1 = \beta_2$ 是由於刀具本身的導程角和有效後角相等，修正值有誤差時，即 $\beta_1 > \beta_2$ ，有效後角減少，因此導程角請在：  
螺紋的牙型角 $60^\circ$ 、 $55^\circ$  時 $\pm 1^\circ$   
螺紋的牙型角 $30^\circ$ 、 $29^\circ$  時 $\pm 30^\circ$   
範圍內進行修正。



螺紋切削方法	特長
 <p>垂直螺紋方法(徑向進給)</p>	<ul style="list-style-type: none"> <li>▲ 最簡單而普通的切削方式。一般CNC車床都有的程式。適用於加工性好的工件材料、小螺距螺紋的加工。</li> <li>▲ 牙形對稱，左右切削刃能均等參與切削。</li> <li>▲ 缺點是由於刀刀全接觸，較易產生振動，刀尖承受負荷過大。</li> </ul>
 <p>交叉車螺紋(交替側向進給)</p>	<ul style="list-style-type: none"> <li>▲ 適用於大螺距螺紋，是理想的作業模式，能有效解決振動問題。</li> <li>▲ 由於左右交互使用切削刃、磨損均勻，能延長刀具壽命。</li> <li>▲ 缺點是切削向左右兩方排出，有時會產生纏屑。</li> </ul>
 <p>單邊刃車螺紋(側向進給)</p>	<ul style="list-style-type: none"> <li>▲ 一般CNC車床均有的程式，簡單容易操作。是常用的作業模式。</li> <li>▲ 切屑向同一方向排出，故排屑性能良好。</li> <li>▲ 缺點是由於右側切削刃，刀削為0，因而兩側刀刃磨損不均。</li> </ul>
 <p>單邊刃修正車螺紋(側向進給)</p>	<ul style="list-style-type: none"> <li>▲ 適用於中等螺距螺紋，能使振動減小。</li> <li>▲ 切屑向同一方向排出，故排屑性能良好。</li> <li>▲ 右側的切削刃也參與小量切削，能降低刀片的磨耗。</li> </ul>

## 60° 公制螺紋刀片(ISO)外牙

螺距	螺紋高	總深切量	切次削數	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0.5	0.32	0.42	4	0.15	0.12	0.1	0.05																				
0.75	0.47	0.57	5	0.18	0.12	0.1	0.1	0.05																			
1	0.63	0.73	5	0.25	0.2	0.13	0.1	0.05																			
1.25	0.79	0.89	6	0.25	0.2	0.15	0.14	0.1	0.05																		
1.5	0.95	1.05	6	0.3	0.25	0.2	0.15	0.1	0.05																		
1.75	1.11	1.21	7	0.3	0.25	0.2	0.16	0.15	0.1	0.05																	
2	1.27	1.37	8	0.3	0.25	0.2	0.2	0.15	0.12	0.1	0.05																
2.5	1.58	1.68	9	0.35	0.3	0.3	0.2	0.2	0.15	0.15	0.1	0.05															
3	1.9	2	11	0.35	0.3	0.3	0.2	0.2	0.15	0.15	0.15	0.1	0.1	0.05													
3.5	2.21	2.3	12	0.4	0.35	0.35	0.25	0.2	0.2	0.15	0.15	0.15	0.1	0.1	0.05												
4	2.53	2.63	14	0.4	0.35	0.35	0.25	0.2	0.2	0.2	0.15	0.15	0.15	0.1	0.1	0.1	0.05										
4.5	2.85	2.95	16	0.4	0.35	0.35	0.25	0.25	0.2	0.2	0.2	0.15	0.15	0.15	0.1	0.1	0.1	0.1	0.05								
5	3.16	3.26	18	0.45	0.35	0.35	0.25	0.25	0.2	0.2	0.2	0.2	0.15	0.15	0.15	0.1	0.1	0.1	0.1	0.1	0.05						
5.5	3.48	3.58	19	0.5	0.35	0.35	0.25	0.25	0.2	0.2	0.2	0.2	0.15	0.15	0.15	0.15	0.15	0.1	0.1	0.1	0.1	0.05					
6	3.8	3.9	21	0.5	0.4	0.4	0.25	0.25	0.2	0.2	0.2	0.2	0.15	0.15	0.15	0.15	0.15	0.1	0.1	0.1	0.1	0.1	0.05				

## 60° 公制螺紋刀片(ISO)內牙

螺距	螺紋高	總深切量	切次削數	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0.5	0.29	0.39	6	0.08	0.07	0.07	0.06	0.06	0.05																		
0.75	0.43	0.53	7	0.1	0.09	0.08	0.08	0.07	0.06	0.05																	
1	0.58	0.68	7	0.14	0.13	0.11	0.1	0.08	0.07	0.05																	
1.25	0.72	0.82	8	0.15	0.13	0.12	0.11	0.1	0.09	0.07	0.05																
1.5	0.87	0.97	8	0.2	0.16	0.14	0.12	0.12	0.1	0.08	0.05																
1.75	1.01	1.11	9	0.2	0.18	0.16	0.14	0.12	0.1	0.09	0.07	0.05															
2	1.16	1.26	10	0.2	0.18	0.17	0.16	0.14	0.12	0.1	0.08	0.06	0.05														
2.5	1.44	1.54	11	0.25	0.22	0.2	0.18	0.16	0.14	0.1	0.1	0.08	0.06	0.05													
3	1.74	1.84	13	0.25	0.22	0.2	0.18	0.16	0.15	0.14	0.13	0.12	0.1	0.09	0.07	0.05											
3.5	2.03	2.13	14	0.3	0.25	0.22	0.2	0.18	0.16	0.14	0.13	0.12	0.11	0.1	0.1	0.07	0.05										
4	2.32	2.42	16	0.3	0.25	0.22	0.2	0.18	0.18	0.16	0.14	0.14	0.12	0.12	0.1	0.1	0.09	0.07	0.05								
4.5	2.61	2.71	18	0.35	0.25	0.22	0.2	0.18	0.18	0.16	0.14	0.14	0.12	0.12	0.12	0.11	0.1	0.1	0.09	0.08	0.05						
5	2.9	3	20	0.35	0.25	0.22	0.2	0.2	0.18	0.16	0.14	0.14	0.13	0.13	0.12	0.12	0.12	0.11	0.1	0.1	0.1	0.08	0.05				
5.5	3.19	3.29	22	0.4	0.25	0.22	0.2	0.2	0.18	0.16	0.14	0.14	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.1	0.1	0.1	0.1	0.08	0.05		
6	3.48	3.58	24	0.4	0.25	0.22	0.2	0.2	0.18	0.17	0.14	0.15	0.14	0.14	0.13	0.13	0.13	0.12	0.12	0.12	0.1	0.1	0.1	0.1	0.08	0.05	



# 螺紋刀片切削參考數據



## 60° 英美統一螺紋刀片(UN)

	螺距	螺牙紋高	總深	切次削數	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
內牙	24	0.67	0.77	5	0.25	0.22	0.15	0.1	0.05																		
	20	0.8	0.9	6	0.25	0.2	0.16	0.14	0.1	0.05																	
	18	0.89	0.99	6	0.28	0.23	0.18	0.15	0.1	0.05																	
	16	1.01	1.11	7	0.3	0.25	0.18	0.15	0.1	0.08	0.05																
	14	1.15	1.25	7	0.3	0.25	0.23	0.18	0.14	0.1	0.05																
	12	1.34	1.44	9	0.3	0.25	0.21	0.18	0.15	0.12	0.1	0.08	0.05														
	8	2.01	2.11	11	0.35	0.3	0.25	0.22	0.2	0.2	0.16	0.16	0.12	0.1	0.05												
外牙	24	0.61	0.71	6	0.2	0.16	0.12	0.1	0.08	0.05																	
	20	0.74	0.84	7	0.2	0.16	0.13	0.12	0.1	0.08	0.05																
	18	0.82	0.92	7	0.2	0.18	0.15	0.14	0.1	0.1	0.05																
	16	0.82	1.02	8	0.2	0.18	0.16	0.14	0.11	0.1	0.08	0.05															
	14	1.05	1.15	8	0.25	0.2	0.18	0.16	0.13	0.1	0.08	0.05															
	12	1.23	1.33	10	0.25	0.2	0.18	0.16	0.13	0.1	0.1	0.08	0.08	0.05	0.05												
	8	1.84	1.94	12	0.3	0.25	0.22	0.2	0.18	0.16	0.14	0.12	0.12	0.12	0.1	0.1	0.05										

## 55° 英國惠氏螺紋刀片(W)

	螺距	螺紋高	總深	切次	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
內牙	20	0.83	0.93	6	0.25	0.2	0.18	0.15	0.1	0.05																	
	19	0.88	0.98	6	0.28	0.22	0.18	0.15	0.1	0.05																	
	18	0.92	1.02	6	0.3	0.24	0.18	0.15	0.1	0.05																	
	16	1.04	1.14	7	0.3	0.25	0.18	0.14	0.12	0.1	0.05																
	14	1.19	1.29	7	0.3	0.25	0.23	0.2	0.16	0.1	0.05																
	12	1.39	1.49	9	0.3	0.25	0.21	0.18	0.15	0.14	0.12	0.1	0.05														
	11	1.51	1.61	10	0.3	0.25	0.21	0.18	0.15	0.14	0.12	0.12	0.1	0.05													
	10	1.66	1.76	10	0.35	0.3	0.24	0.2	0.15	0.14	0.12	0.12	0.1	0.05													
	8	2.08	2.18	11	0.35	0.3	0.25	0.23	0.22	0.2	0.18	0.16	0.14	0.1	0.05												
外牙	20	0.83	0.93	7	0.2	0.18	0.16	0.14	0.12	0.08	0.05																
	19	0.88	0.98	7	0.2	0.18	0.16	0.16	0.13	0.1	0.05																
	18	0.92	1.02	7	0.22	0.18	0.17	0.16	0.14	0.1	0.05																
	16	1.04	1.14	8	0.22	0.18	0.17	0.16	0.14	0.12	0.1	0.05															
	14	1.19	1.29	8	0.25	0.21	0.2	0.18	0.16	0.14	0.1	0.05															
	12	1.39	1.49	10	0.25	0.21	0.2	0.18	0.16	0.14	0.1	0.1	0.1	0.05													
	11	1.51	1.61	11	0.25	0.21	0.2	1.18	0.16	0.14	0.12	0.1	0.1	0.1	0.05												
	10	1.66	1.76	11	0.3	0.25	0.22	0.2	0.16	0.14	0.12	0.12	0.1	0.1	0.05												
	8	2.08	2.18	12	0.35	0.3	0.25	0.22	0.2	0.18	0.16	0.14	0.12	0.11	0.1	0.05											

## 30° 德制T型螺紋刀片(TR)

	螺距	螺紋高	總深切量	切次削數	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
外牙	2	1.25	1.35	9	0.25	0.2	0.2	0.18	0.15	0.12	0.1	0.1	0.05															
	3	1.75	1.85	12	0.25	0.22	0.2	0.18	0.17	0.16	0.14	0.14	0.12	0.12	0.1	0.05												
	4	2.25	2.35	15	0.3	0.25	0.22	0.2	0.18	0.16	0.15	0.14	0.14	0.12	0.12	0.12	0.1	0.1	0.05									
	5	2.75	2.85	19	0.3	0.25	0.2	0.2	0.18	0.16	0.16	0.15	0.14	0.14	0.14	0.14	0.12	0.12	0.12	0.1	0.1	0.1	0.05					
	6	3.5	3.6	23	0.3	0.25	0.23	0.2	0.18	0.18	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.14	0.14	0.12	0.12	0.12	0.12	0.1	0.1	0.05	
內牙	2	1.25	1.35	10	0.2	0.18	0.18	0.16	0.15	0.12	0.1	0.1	0.1	0.05														
	3	1.75	1.85	13	0.22	0.2	0.18	0.16	0.16	0.16	0.14	0.14	0.12	0.12	0.1	0.1	0.05											
	4	2.25	2.35	16	0.25	0.22	0.2	0.2	0.18	0.16	0.16	0.14	0.14	0.12	0.12	0.12	0.1	0.1	0.1	0.05								
	5	2.75	2.85	20	0.25	0.22	0.2	0.18	0.18	0.16	0.16	0.15	0.14	0.14	0.14	0.14	0.12	0.12	0.12	0.1	0.1	0.1	0.1	0.05				
	6	3.5	3.6	24	0.25	0.22	0.21	0.2	0.18	0.18	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.14	0.14	0.05	0.05	0.12	0.12	0.1	0.1	0.1	0.05

## 29° 美制愛克姆螺紋刀片(ACME)

	螺距	螺紋高	總深切量	切次削數	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
外牙	8	1.88	1.98	13	0.25	0.22	0.2	0.18	0.16	0.16	0.16	0.14	0.14	0.12	0.1	0.1	0.05											
	6	2.41	2.51	17	0.25	0.22	0.2	0.16	0.17	0.16	0.16	0.14	0.14	0.14	0.14	0.12	0.12	0.12	0.1	0.1	0.05							
	5	2.92	3.02	21	0.25	0.22	0.2	0.16	0.18	0.16	0.16	0.14	0.14	0.14	0.14	0.14	0.12	0.12	0.12	0.12	0.12	0.12	0.1	0.1	0.05			
內牙	8	1.88	1.98	14	0.22	0.2	0.18	0.16	0.16	0.16	0.15	0.14	0.14	0.12	0.1	0.1	0.1	0.05										
	6	2.41	2.51	18	0.22	0.2	0.18	0.18	0.16	0.15	0.15	0.14	0.14	0.14	0.14	0.12	0.12	0.12	0.1	0.1	0.1	0.05						
	5	2.92	3.02	22	0.22	0.2	0.18	0.18	0.16	0.16	0.15	0.14	0.14	0.14	0.14	0.14	0.12	0.12	0.12	0.12	0.12	0.12	0.1	0.1	0.1	0.05		

## 55° 斜管螺紋刀片(PT,BSPT)

	螺距	螺紋高	總深切量	切次削數	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
外牙	28	0.6	0.7	5	0.25	0.2	0.1	0.1	0.05																			
	19	0.86	0.96	6	0.28	0.2	0.18	0.15	0.1	0.05																		
	14	1.16	1.26	8	0.3	0.25	0.2	0.15	0.11	0.1	0.1	0.05																
	11	1.48	1.58	10	0.3	0.25	0.22	0.18	0.15	0.12	0.11	0.1	0.1	0.05														
內牙	19	0.86	0.96	8	0.22	0.18	0.16	0.15	0.1	0.05	0.05																	
	14	1.16	1.26	9	0.25	0.22	0.18	0.15	0.11	0.1	0.1	0.1	0.05															
	11	1.48	1.58	11	0.25	0.22	0.18	0.18	0.15	0.12	0.11	0.1	0.1	0.1	0.05													



60° 斜管螺紋刀片(NPT)

	螺距	螺紋高	總切深	切削次數	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
外牙	18	1.14	1.24	9	0.2	0.18	0.17	0.16	0.14	0.12	0.12	0.1	0.05															
	14	1.47	1.57	10	0.25	0.22	0.2	0.18	0.17	0.16	0.12	0.12	0.1	0.05														
	11.5	1.79	1.89	12	0.25	0.22	0.2	0.18	0.18	0.17	0.16	0.14	0.12	0.11	0.1	0.05												
	8	2.58	2.68	16	0.3	0.25	0.2	0.2	0.2	0.2	0.18	0.18	0.16	0.15	0.14	0.14	0.12	0.1	0.1	0.05								
內牙	14	1.47	1.57	11	0.22	0.2	0.18	0.18	0.16	0.14	0.12	0.12	0.1	0.1	0.05													
	11.5	1.79	1.89	13	0.22	0.2	0.18	0.18	0.16	0.16	0.16	0.14	0.12	0.11	0.1	0.1	0.05											
	8	2.58	2.68	17	0.25	0.2	0.2	0.2	0.2	0.2	0.18	0.18	0.16	0.1	0.14	0.14	0.12	0.1	0.1	0.05								



## B





# 切斷切槽內槽系列

PARTING & GROOVING SYSTEM

# 自動車刀系列

TURNING TOOLS FOR SWISS MACHINE



# 淺槽加工

Shallow Grooving Tools

## TNR 內徑淺槽刀 經濟、便利NO.1

為使客戶能節省工具費用及減少工具庫存的品項，設計出能與內徑螺紋刀架共用之內徑淺槽刀。獨特三刃設計，節省刀具費用與換刀時間。



TNR



SINR

### 特色

1. 三刃設計。
2. 與內徑螺紋刀共用，節省刀具庫存、使用便利、省時。
3. 刀片尺寸：TNR 08、TNR11、TNR16
4. 槽寬：0.70 mm ~ 2.50 mm
5. 特殊槽寬 可接受訂製。

**外徑淺槽刀** 槽寬規格完整  
刀片與市售刀架相容性高。



TGR/L3 □□□



STGR

C PART



# 切斷切槽系列

Grooving & Parting Tools

## KGTHR 加強型 切刀架

可以直接放在刀塔上使用，對於用量小的使用者最經濟。

### 範圍

柄徑 16,20,25 mm

切深 22~30 mm



## 傳統切斷 切槽系統



### 特色

1. SGIH懸臂長處可調整，切深較深。
2. 高速鋼板材抗震性佳。



# 自動車刀系列

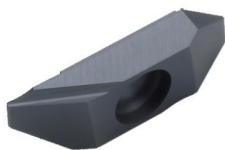
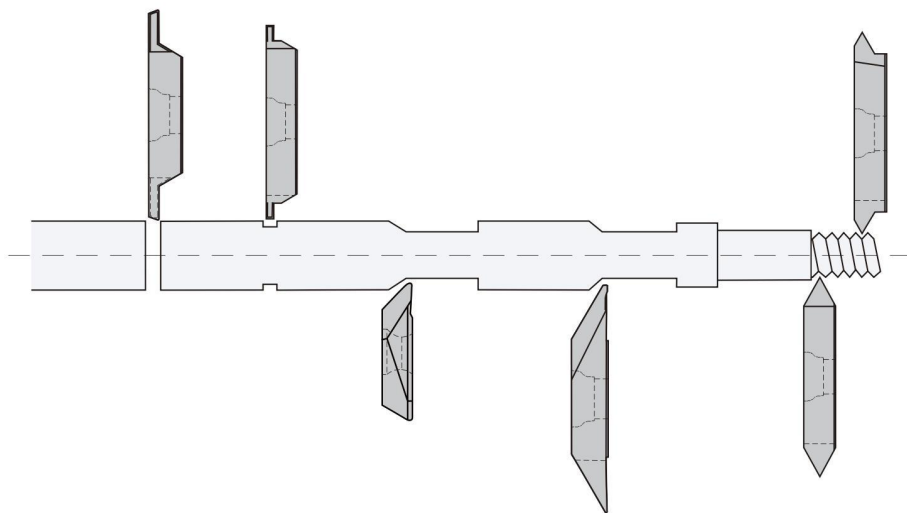
Turning Tools For Swiss Machine

## 家族新品

### 小型零件加工 精選

自動車刀為小型零件加工所設計。此概念結合了高精度的研磨級刀片及刀柄，以提供良好的重複精度。

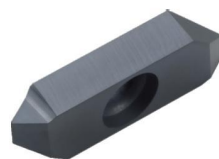
應用範圍：適用於多種鋼料、合金鋼和不銹鋼。  
亦可適用於走心式車床。



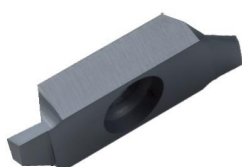
TBR  
後掃刀



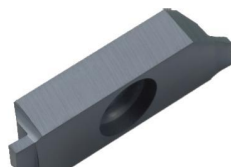
TBR  
後掃刀



TTR  
螺紋刀



TCR  
切斷刀



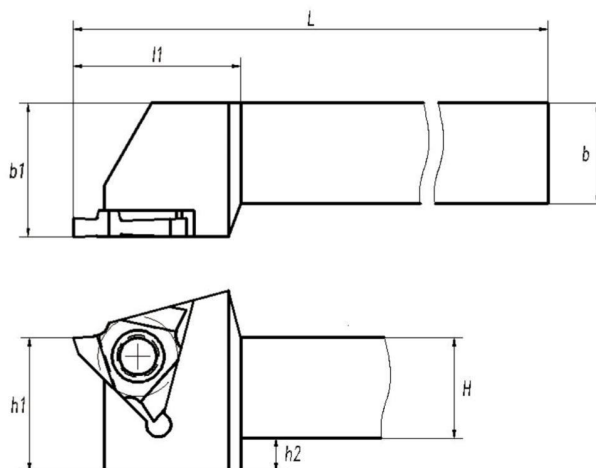
TGR  
切槽刀




C PART



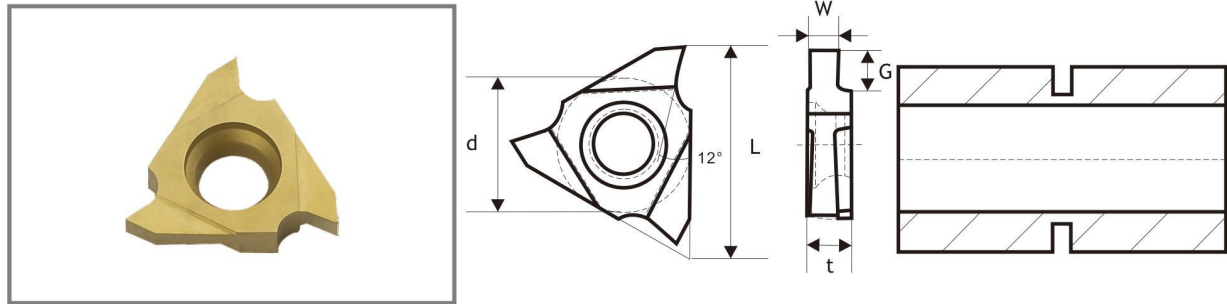


## STGR



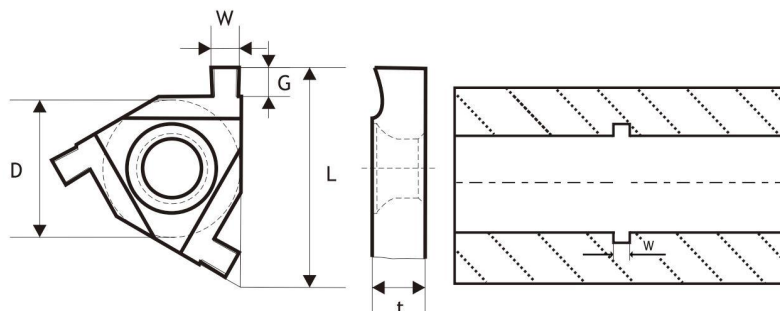
規 格 ORDERING CODE	尺 寸 Dimension							刀 片 Insert	螺 絲 Screw	扳 手 Wrench
	H	h1	h2	b	b1	L	l1			
STGR/L 1212-3	12	16	4	12	16	100	20	TGR/L 3	S040110	T15
STGR/L 1616-3	16	16	-	16	20	100	20			
STGR/L 2020-3	20	20	-	20	25	125	20			
STGR/L 2525-3	25	25	-	25	32	150	20			

## TGR/L



規 格 ORDERING CODE	尺 寸 Dimension					材 質 GRADE			
	L	W	G	d	t	H13S	CV09	CV15	CV16
TGR/L 3033	16	0.33	0.9	3/8"	3.18	•	•	•	•
TGR/L 3043		0.43	1.3			•			•
TGR/L 3050		0.50	1.3			•			•
TGR/L 3065		0.65	2.1			•			•
TGR/L 3075		0.75	2.1			•	•	•	•
TGR/L 3080		0.80	2.1			•	•	•	•
TGR/L 3085		0.85	2.1			•			•
TGR/L 3090		0.90	2.1			•			•
TGR/L 3095		0.95	2.1			•	•	•	•
TGR/L 3100	16	1.00	2.3	3/8"	3.18	•	•	•	•
TGR/L 3110		1.10	2.3			•	•	•	•
TGR/L 3115		1.15	2.3			•	•	•	•
TGR/L 3120		1.20	2.3			•	•	•	•
TGR/L 3125		1.25	2.3			•	•	•	•
TGR/L 3130		1.30	2.3			•	•	•	•
TGR/L 3135		1.35	2.3			•	•	•	•
TGR/L 3140		1.40	2.3			•	•	•	•
TGR/L 3145		1.45	2.3			•	•	•	•
TGR/L 3150		1.50	2.3			•	•	•	•
TGR/L 3155		1.55	2.3			•	•	•	•
TGR/L 3165		1.65	2.3			•	•	•	•
TGR/L 3175		1.75	2.3			•	•	•	•
TGR/L 3180		1.80	2.3			•	•	•	•
TGR/L 3190	16	1.90	2.8	3/8"	3.18	•	•	•	•
TGR/L 3195		1.95	2.8			•	•	•	•
TGR/L 3200		2.00	2.8			•	•	•	•
TGR/L 3220		2.20	2.8			•	•	•	•
TGR/L 3225		2.25	2.8			•	•	•	•
TGR/L 3240		2.40	2.8			•	•	•	•
TGR/L 3250		2.50	2.8			•	•	•	•
TGR/L 3270		2.70	2.8			•	•	•	•
TGR/L 3275		2.75	2.8			•	•	•	•
TGR/L 3300		3.00	2.8			•	•	•	•

TNR



規 格 ORDERING CODE	尺 寸 Dimension					材 質 GRADE			
	L	W	G	D	t	H13S	CV09	CV15	CV16
TNR 08075	08	0.75	0.8	3/16"	2.2	•	•	•	
TNR 08080		0.80	0.8		2.2	•	•	•	
TNR 08085		0.85	0.8		2.2	•	•	•	
TNR 08090		0.90	0.8		2.2	•	•	•	
TNR 08100		1.00	0.8		2.2	•	•	•	
TNR 11070	11	0.70	1.2	1/4"	3.2		•	•	
TNR 11080		0.80	1.2		3.2	•	•	•	
TNR 11085		0.85	1.2		3.2	•	•	•	
TNR 11090		0.90	1.2		3.2	•	•	•	
TNR 11100		1.00	1.2		3.2	•	•	•	
TNR 11110		1.10	1.2		3.2	•	•	•	
TNR 11120		1.20	1.2		3.2	•	•	•	
TNR 11125		1.25	1.2		3.2	•	•	•	
TNR 11130		1.30	1.2		3.2	•	•	•	
TNR 11140		1.40	1.2		3.2	•	•	•	
TNR 11150		1.50	1.2		3.2	•	•	•	
TNR 16080	16	0.80	2.0	3/8"	3.65	•	•	•	•
TNR 16090		0.90	2.0		3.65	•	•	•	•
TNR 16100		1.00	2.0		3.65	•	•	•	•
TNR 16110		1.10	2.0		3.65	•	•	•	•
TNR 16120		1.20	2.0		3.65	•	•	•	•
TNR 16125		1.25	2.0		3.65	•	•	•	•
TNR 16130		1.30	2.0		3.65	•	•	•	•
TNR 16140		1.40	2.0		3.65	•	•	•	•
TNR 16150		1.50	2.0		3.65	•	•	•	•
TNR 16160		1.60	2.0		3.65	•	•	•	•
TNR 16170		1.70	2.0		3.65	•	•	•	•
TNR 16180		1.80	2.0		3.65	•	•	•	•
TNR 16190		1.90	2.0		3.65	•	•	•	•
TNR 16200		2.00	2.0		3.65	•	•	•	•
TNR 16210		2.10	2.0		3.65	•	•	•	•
TNR 16250		2.50	2.0		3.65		•	•	

● 註:可接單訂做.

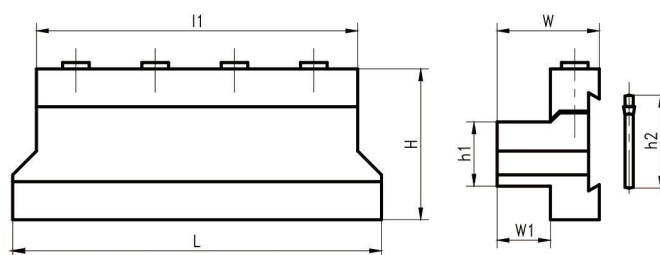
● Marked: Make to order.



● 註:適合刀架.

● Marked: For toolholders.

SINR 0916-08 SINR 2016-16  
SINR 1012-11 SINR 2420-16  
SINR 1216-11 SINR 3025-16  
SINR 1516-11 詳見B4

## SGTBU

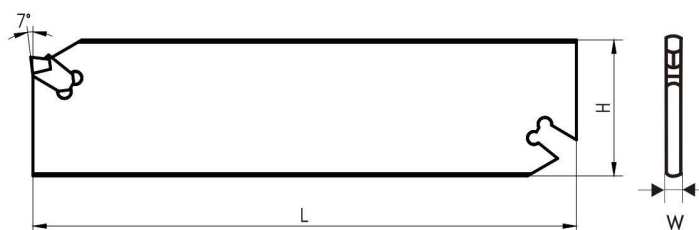


規 格 ORDERING CODE	尺 寸 Dimension							螺絲 Screw	扳 手 Wrench
	W	W1	H	h1	h2	L	l1		
SGTBU 16-5	36	17	43	16	26	100	90	HCM061025	5.0 mm
SGTBU 20-5	38	21	43	20	26	100	90		
SGTBU 20-6	38	19	52	20	32	100	90		
SGTBU 25-5	42	23	43	25	26	100	90		
SGTBU 25-6	42	23	52	25	32	100	90		

- 註：SGTBU -5 配 SGIH 26 詳見 SGIH PS HSS  
SGTBU -6 配 SGIH 32 詳見 SGIH PS HSS

- Marked：FOR BRAZED TYPE PARTING, PLEASE SEE SGIH PS HSS

## SGIH PS HSS

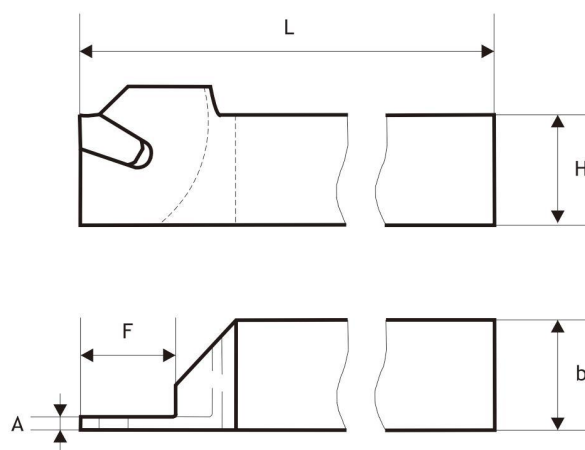
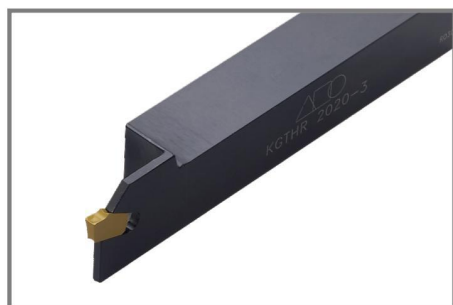


規 格 ORDERING CODE	尺 寸 Dimension		
	H	W	L
SGIH 26-3 PS HSS	26	3	110
SGIH 26-4 PS HSS	26	4	110
SGIH 32-3 PS HSS	32	3	150
SGIH 32-4 PS HSS	32	4	150

- 註：GTN3, GTN4 刀片專用.
- Marked：For GTN3, GTN4 insert.

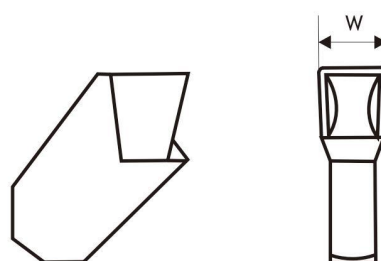


## KGTHR



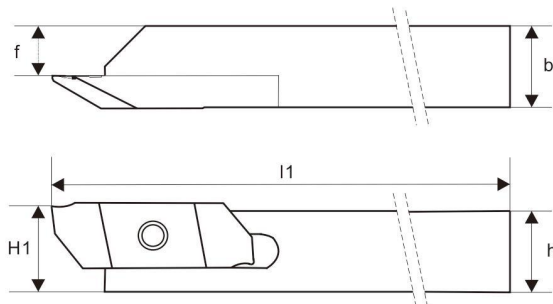
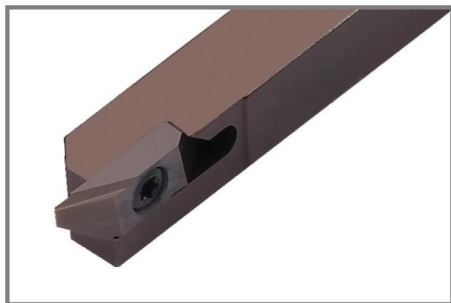
規 格 ORDERING CODE	尺 寸 Dimension (mm)							刀 片 Insert
	H	B	L	F	A	W	Dmax	
KGTHR 1616 H3	16	16	100	18.8	2.4	3.1	22	GTN-3
KGTHR 2020 K3	20	20	125	18.8	2.4	3.1	22	
KGTHR 2525 M3	25	25	150	23.8	2.4	3.1	26	

## GTN



規 格 ORDERING CODE	尺 寸 Dimension (mm)	材 質 GRADE
	W	CV17
GTN-3	3	•
GTN-4	4	•

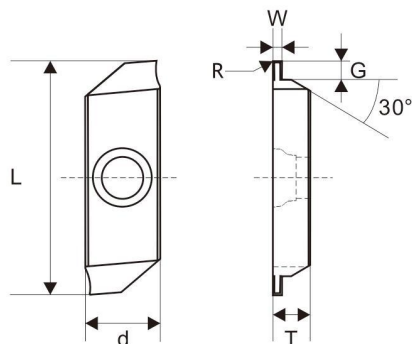
## JSXBR



規 格 ORDERING CODE	尺 寸 Dimension (mm)					刀 片 Insert	螺 絲 Screw	扳 手 Wrench
	h	b	l1	f	H1			
JSXBR 1010 K08	10	10	125	5.7	10	8TBR 8TCR 8TGR 8TTR	S040100	T15
JSXBR 1212 K08	12	12	125	7.7	12			
JSXBR 1616 K08	16	16	125	11.7	16			
JSXBR 2020 K08	20	20	125	15.7	20			

- 註: 非規格品，接單訂做.
- Marked: Make to order.

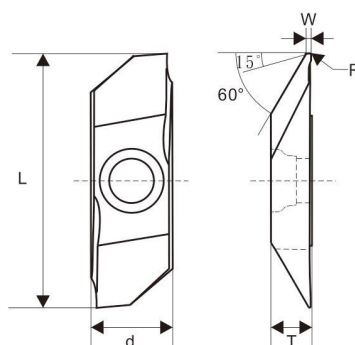
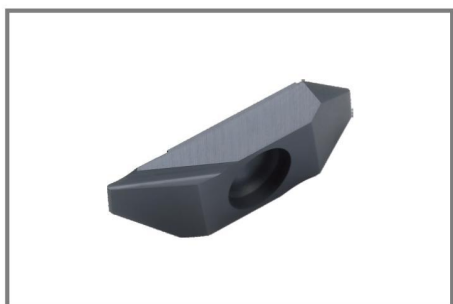
## 8TGR



規 格 ORDERING CODE	尺 寸 Dimension (mm)						材 質 Grade
	L	d	W	T	R	G	CV15
8TGR 05012-R03	25	8	0.5	4	0.03	1.2	•
8TGR 07520-R03	25	8	0.75	4	0.03	2.0	•
8TGR 10020-R03	25	8	1.0	4	0.03	2.0	•
8TGR 12525-R03	25	8	1.25	4	0.03	2.5	•
8TGR 15025-R03	25	8	1.5	4	0.03	2.5	•
8TGR 20025-R03	25	8	2.0	4	0.03	2.5	•

- 註: 此款切槽刀片，不適用橫移。
- Marked: Grooving only (Turning is not recommended).

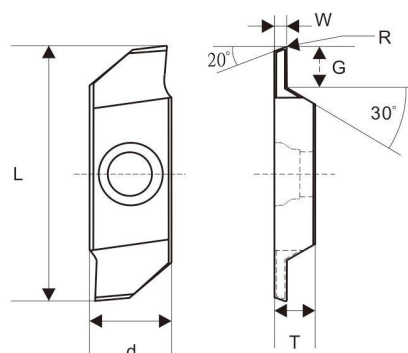
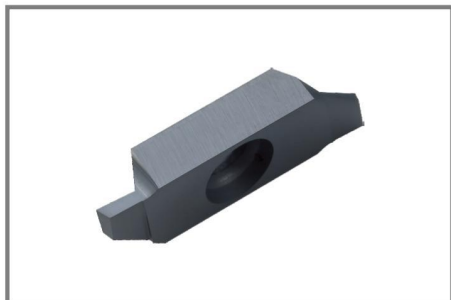
## 8TBR



規 格 ORDERING CODE	尺 寸 Dimension (mm)					材 質 Grade
	L	d	W	T	R	CV15
8TBR 6055-R03	25	8	0.55	4	0.03	•
8TBR 6055-R15	25	8	0.55	4	0.15	•

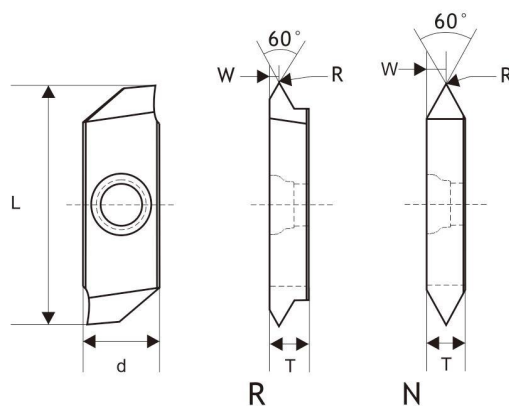
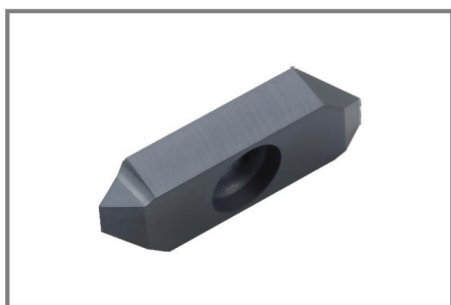
- 註: 非規格品，接單訂做。
- Marked: Make to order.

## 8TCR



規格 ORDERING CODE	尺寸 Dimension (mm)						材質 Grade
	L	d	W	T	R	G	CV15
8TCR 070RG20-R03-45	25	8	0.7	4	0.03	4.5	●
8TCR 100RG20-R03-60	25	8	1.0	4	0.03	6.0	●
8TCR 120RG20-R03-60	25	8	1.2	4	0.03	6.0	●
8TCR 150RG20-R03-60	25	8	1.5	4	0.03	6.0	●
8TCR 200RG20-R03-60	25	8	2.0	4	0.03	6.0	●

## 8TTR



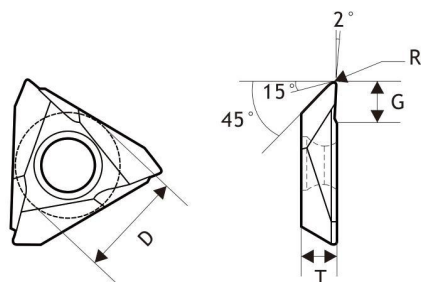
規格 ORDERING CODE	尺寸 Dimension (mm)					材質 Grade
	L	d	W	T	R	CV15
8TTR 60R-R07	25	8	0.8	4	0.07	●
8TTR 60N-R07	25	8	2.0	4	0.07	●

● 註: 非規格品, 接單訂做.

● Marked: Make to order.



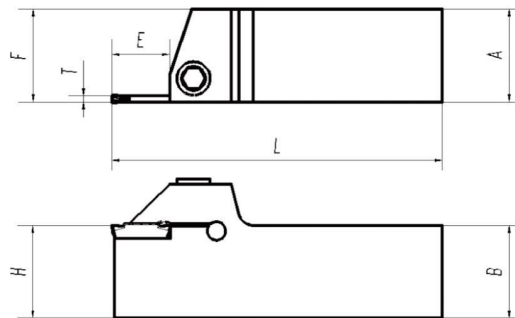
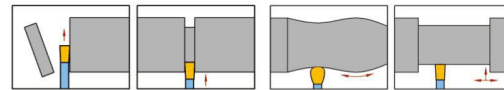
TBR





規 格 ORDERING CODE	尺 寸 Dimension (mm)				材 質 Grade
	D	T	R	G	CV15
TBR 1603-R03	9.438	3.18	0.03	3.5	●
TBR 1603-R15	9.438	3.18	0.15	3.5	●

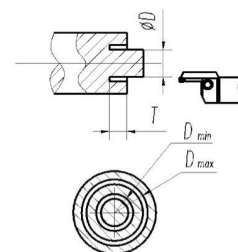
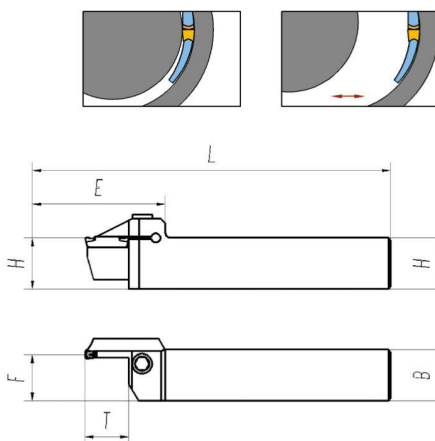
- 註: 非規格品，接單訂做.
- Marked: Make to order.

ZTER/L



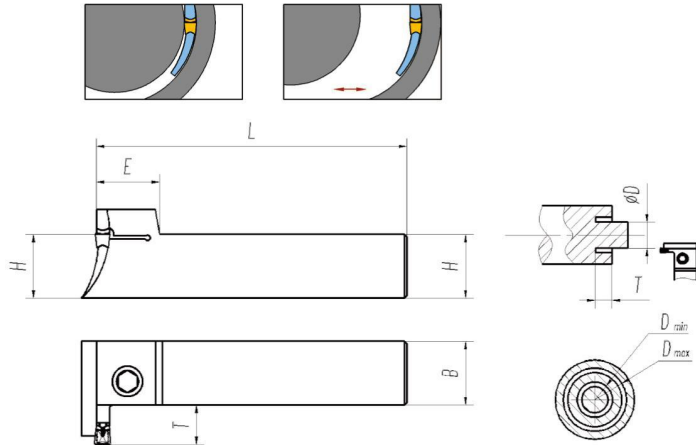
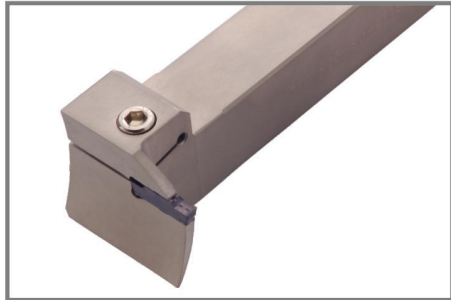
規 格  ORDERING CODE	尺 寸 Dimension (mm)						刀 片 Insert	螺 絲 Screw	扳 手 Wrench
	F	E	A	B=H	L	T			
ZTER/L 2020K-MG2-14	20	14	20	20	125	2	MGMN200	HTM6x20L	L5
ZTER/L 2020K-MG2-18	20	18	20	20	125			HTM6x20L	L5
ZTER/L 2525M-MG2-14	25	14	25	25	150	2		HTM6x25L	L5
ZTER/L 2525M-MG2-18	25	18	25	25	150			HTM6x25L	L5
ZTER/L 2020K-MG3-20	20	20	20	20	125	3	MGMN300	HTM6x20L	L5
ZTER/L 2525M-MG3-10	25	10	25	25	150			HTM6x25L	L5
ZTER/L 2525M-MG3-20	25	20	25	25	150			HTM6x25L	L5
ZTER/L 2020K-MG4-20	20	20	20	20	125	4	MGMN400	HTM6x20L	L5
ZTER/L 2525M-MG4-20	25	20	25	25	150			HTM6x25L	L5
ZTER/L 2020K-MG5-25	20	25	20	20	125	5	MGMN500	HTM6x20L	L5
ZTER/L 2525M-MG5-25	25	25	25	25	150			HTM6x25L	L5



## ZYHR



規 格 ORDERING CODE	尺 寸 Dimension (mm)								刀 片 Insert	螺 絲 Screw	扳 手 Wrench
	H	B	L	F	E	Tmax	Dmin	Dmax			
ZYHR25-3T15 F50~65	25	25	150	24	38	15	50	65	MGMN300	HTM6x25L	L5
ZYHR25-3T15 F65~90	25	25	150	24	38	15	65	90		HTM6x25L	L5
ZYHR25-3T20 F90~130	25	25	150	24	38	20	90	130		HTM6x25L	L5
ZYHR25-4T15 F50~65	25	25	150	23.6	39	15	50	65	MGMN400	HTM6x25L	L5
ZYHR25-4T15 F65~90	25	25	150	23.6	39	15	65	90		HTM6x25L	L5
ZYHR25-4T15 F90~130	25	25	150	23.6	39	15	90	130		HTM6x25L	L5
ZYHR25-4T20 F50~65	25	25	150	23.6	39	20	50	65		HTM6x25L	L5
ZYHR25-4T20 F65~90	25	25	150	23.6	39	20	65	90		HTM6x25L	L5
ZYHR25-4T20 F90~130	25	25	150	23.6	39	20	90	130		HTM6x25L	L5
ZYHR25-5T16 F50~65	25	25	150	23.1	49	16	50	65	MGMN500	HTM6x25L	L5
ZYHR25-5T16 F65~90	25	25	150	23.1	49	16	65	90		HTM6x25L	L5
ZYHR25-5T16 F90~130	25	25	150	23.1	49	16	90	130		HTM6x25L	L5
ZYHR25-5T20 F50~65	25	25	150	23.1	49	20	50	65		HTM6x25L	L5
ZYHR25-5T20 F65~90	25	25	150	23.1	49	20	65	90		HTM6x25L	L5
ZYHR25-5T20 F90~130	25	25	150	23.1	49	20	90	130		HTM6x25L	L5
ZYHR25-5T25 F50~65	25	25	150	23.1	49	25	50	65		HTM6x25L	L5
ZYHR25-5T25 F65~90	25	25	150	23.1	49	25	65	90		HTM6x25L	L5
ZYHR25-5T25 F90~130	25	25	150	23.1	49	25	90	130		HTM6x25L	L5

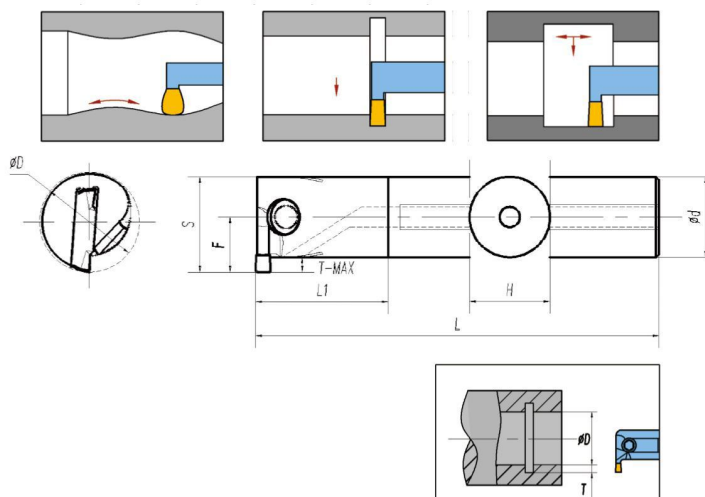
**ZLHR**





規 格 ORDERING CODE	尺 寸 Dimension (mm)								刀 片 Insert	螺 絲 Screw 	扳 手 Wrench 
	H	B	L	F	E	Tmax	Dmin	Dmax			
ZLHR25-4T15 F90-130	25	25	150	-	18.5	15	90	130	MGMN400	HTM6x25L	L5
ZLHR25-4T15 F140-230	25	25	150	-	18.5	15	140	230		HTM6x25L	L5
ZLHR25-5T15 F70-110	25	25	150	-	22	15	70	110	MGMN500	HTM6x25L	L5
ZLHR25-5T15 F90-130	25	25	150	-	22	15	90	130		HTM6x25L	L5



ZTIR/L



規 格 ORDERING CODE	尺 寸 Dimension (mm)						刀 片 Insert	螺 絲 Screw	扳 手 Wrench
	D	d	L	L1	T-MAX	F			
ZTIR/L 2016K-MG2-4	20	16	125	25	4	12	MGMN200	M4-12-5.6-60	T15
ZTIR/L 2520K-MG2-4	25	20	150	25	4	14.5	MGMN200	M5X12	L4
ZTIR/L 2620M-MG3-6	26	20	150	25	6	16	MGMN300	M5X12	L4
ZTIR/L 2620M-MG4-6	26	20	150	25	6	16	MGMN400	M5X12	L4
ZTIR/L 2925R-MG2-4	29	25	200	30	4	16.5	MGMN200	M5X12	L4
ZTIR/L 3125R-MG3-6	31	25	200	30	6	18.5	MGMN300	M5X12	L4
ZTIR/L 3125R-MG4-6	31	25	200	30	6	18.5	MGMN400	M5X12	L4
ZTIR/L 3125R-MG5-8	31	25	200	30	8	19.5	MGMG500	M6X16	L5
ZTIR/L 3832S-MG3-6	38	32	250	40	6	22	MGMN300	M5X12	L4
ZTIR/L 3832S-MG4-6	38	32	250	40	6	22	MGMN400	M5X12	L4
ZTIR/L 3832S-MG5-6	38	32	250	40	6	22	MGMN500	M6X20	L5

● 使用刀片 MGMN200 MGMN300 MGMN400 MGMN500

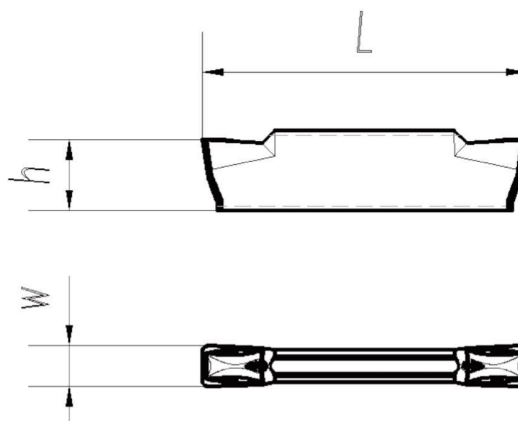
MG2 = MGMN200

MG3 = MGMN300

MG4 = MGMN400

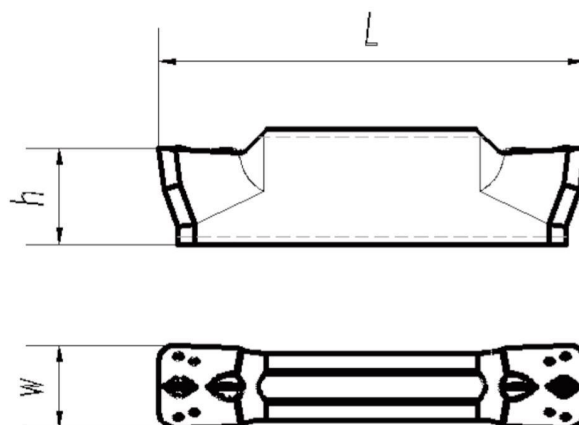
MG5 = MGMN500

## MGMN



規 格 ORDERING CODE	尺 寸 Dimension (mm)			材 質 Grade			
	L	W	H	CV17	CV55	CV56	K10
MGMN 200-G	16	2.00	3.50	•	•	•	•
MGMN 250-G	18.50	2.50	3.85	•	•		

## MGMN



規 格 ORDERING CODE	尺 寸 Dimension (mm)			材 質 Grade			
	L	W	H	CV17	CV55	CV56	K10
MGMN 300-M	21	3	4.8	•	•	•	•
MGMN 400-M	21	4	4.8	•	•	•	•
MGMN 500-M	26	5	4.8	•	•		

- 註: 非規格品, 接單訂做.
- Marked: Make to order.

# MEMO

C

## C





鋼構刀系列

INSERTS FOR CONSTRUCTION STEEL

鋼管刀系列

PIPE-SCRAPING SYSTEM

成型刀系列

SPECIAL FORM INSERTS



# 鋼管刮刀

Pipe Scraping Tools

Scraping Tools

## 薄管加工 八切削刃 經濟實用

SNG552是設計有正切削角之負角刀片，同時兼具有負角刀之強度與正角刀之低削阻力及良好排屑等優點。

薄管加工，不易變形。  
厚管加工，順暢輕鬆。



範圍 10R~70R



SNG 552  
八刃正角刀片



SNG 452  
負角刀片



WEMT  
大正角刀片

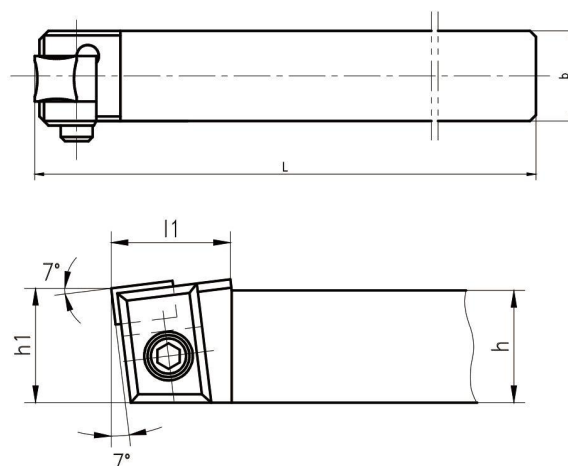


RING  
內刮刀

D PART

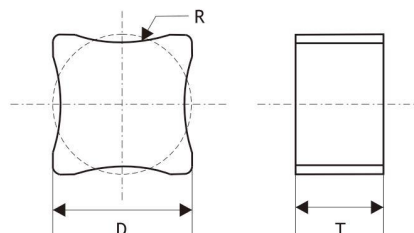


## CBCNR/L



規格	尺寸					刀片	垫片	垫片螺丝	压块	压块螺丝	弹簧	扳手
ORDERING CODE	h	b	L	h1	l1							
CBCNR/L 1919-452	19	19	200	19	25	SNG 452	CBC452S	HFM0305	CBC452C	HCM061030	M7	5.0 mm

## SNG 452



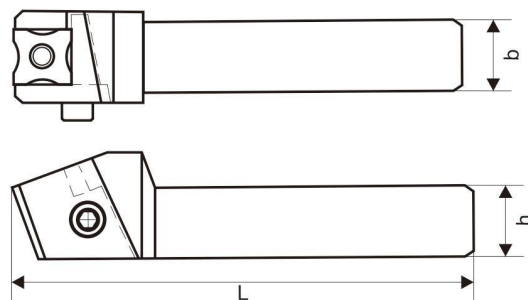
規格	尺寸			材質	
ORDERING CODE	D	T	R	CV20	CV8050
SNG 452-10R	12.7	8.0	10	•	•
SNG 452-12R	12.7	8.0	12	•	•
SNG 452-14R	12.7	8.0	14	•	•
SNG 452-16R	12.7	8.0	16	•	•
SNG 452-18R	12.7	8.0	18	•	•
SNG 452-20R	12.7	8.0	20	•	•
SNG 452-25R	12.7	8.0	25	•	•
SNG 452-30R	12.7	8.0	30	•	•
SNG 452-40R	12.7	8.0	40	•	•
SNG 452-50R	12.7	8.0	50	•	•
SNG 452-60R	12.7	8.0	60	•	•
SNG 452-70R	12.7	8.0	70	•	•
SNG 452	12.7	8.0	-	•	•

● 註:非規格品, 接單訂做.

● Marked: Make to order.

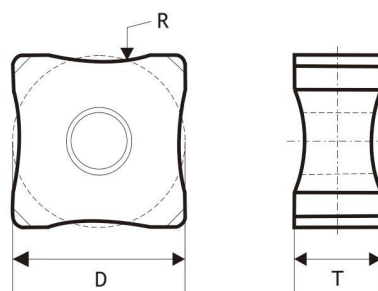


## WSANR



規 格	尺 寸 Dimension			刀 片 Insert	墊 片 Shim	墊片螺絲 Shim screw	側固壓塊 Side clamp	壓塊螺絲 Clamp screw	扳 手 Wrench
ORDERING CODE	h	b	L						
WSANR 2020 M552	20	20	150	SNG 552	WSNS 552	MSP617	WSCL 2720	HCM061030	壓塊螺絲: 5.0 mm 墊片螺絲: 3.0 mm
WSANR 2020 R552	20	20	200						
WSANR 2525 R552	25	25	200						

## SNG 552



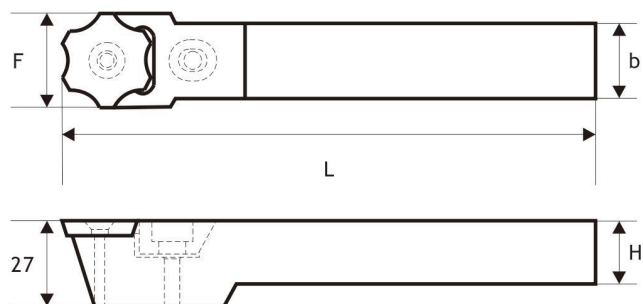
規 格	尺 寸 Dimension			材 質 Grade	
ORDERING CODE	D	T	R	CV20	CV8050
SNG 552-10R	15.87	7.8	10	•	•
SNG 552-12R	15.87	7.8	12	•	•
SNG 552-14R	15.87	7.8	14	•	•
SNG 552-16R	15.87	7.8	16	•	•
SNG 552-18R	15.87	7.8	18	•	•
SNG 552-20R	15.87	7.8	20	•	•
SNG 552-25R	15.87	7.8	25	•	•
SNG 552-30R	15.87	7.8	30	•	•
SNG 552-40R	15.87	7.8	40	•	•
SNG 552-50R	15.87	7.8	50	•	•
SNG 552-60R	15.87	7.8	60	•	•
SNG 552-70R	15.87	7.8	70	•	•
SNG 552	15.87	7.8	-	•	•

● 註:非規格品, 接單訂做.

● Marked: Make to order.

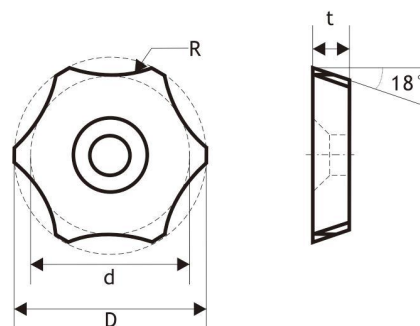


## SWCEN



規 格 ORDERING CODE	尺 寸 Dimension			刀 片 Insert	壓 塊 Clamp	壓塊螺絲 Clamp screw	扳 手 Wrench	螺絲 Screw	扳 手 Wrench
	F	L	b						
SWCEN 2020 U	25	250	20	WEMT 16R - 70R	CW0415	HCM 061021E	5.0 mm	S050140	T20

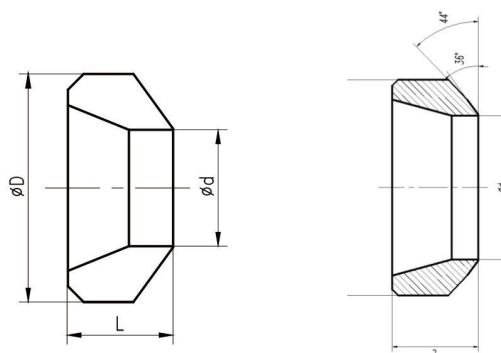
## WEMT



規 格 ORDERING CODE	尺 寸 Dimension				材 質 Grade	
	D	d	R	t	CV15	CV20
WEMT 16R	25	23.1	16	5.0		•
WEMT 20R	25	23.1	20	5.0		•
WEMT 30R	25	23.1	30	5.0		•
WEMT 40R	25	23.1	40	5.0		
WEMT 50R	25	23.1	50	5.0		
WEMT 60R	25	23.1	60	5.0		
WEMT 70R	25	23.1	70	5.0		

- 註:非規格品, 接單訂做.
- Marked: Make to order.

## RING



規 格 ORDERING CODE	尺 寸 Dimension			材 質 Grade			
	D	d	L	CV15	CV20	CV8016	CV8050
RING 8x4x5	8	4	5	•	•	•	•
RING 9x5x5	9	5	5		•		•
RING 10x5.5x6	10	5.5	6		•		•
RING 10x6x8	10	6	8	•	•	•	•
RING 13x6x8.5	13	6	8.5				
RING 13x7x6	13	7	6	•	•	•	•
RING 13x7x8.5	13	7	8.5				
RING 13x8x6	13	8	6		•		•
RING 13x8.2x5	13	8.2	5	•	•	•	•
RING 15x8x6	15	8	6				
RING 15x9x6	15	9	6				
RING 15x10x6.5	15	10	6.5	•	•	•	•
RING 15x10x7	15	10	7	•	•	•	•
RING 17x10x8.5	17	10	8.5				
RING 17x12x8.5	17	12	8.5				
RING 19x9x8	19	9	8	•	•	•	•
RING 19x9x8.7	19	9	8.7	•	•	•	•
RING 19x10x8	19	10	8				
RING 19x10x8.5	19	10	8.5	•	•	•	•
RING 19x10x8.7	19	10	8.7				
RING 19x11x8	19	11	8	•	•	•	•
RING 19x12x8.5	19	12	8.5				
RING 22x10x10	22	10	10	•	•	•	•
RING 22x11x10	22	11	10				
RING 22x12x10	22	12	10	•	•	•	•
RING 22x12x12	22	12	12				

● 註:非規格品, 接單訂做.

● Marked: Make to order.

規 格 ORDERING CODE	尺 寸 Dimension			材 質 Grade			
	D	d	L	CV15	CV20	CV8016	CV8050
RING 22x13x10	22	13	10	•	•	•	•
RING 22x13x10.7	22	13	10.7	•	•	•	•
RING 22x13x12	22	13	12		•		•
RING 22x15x12	22	15	12		•		•
RING 22x15x10	22	15	10				
RING 25x13x12	25	13	12				
RING 25x14x12	25	14	12				
RING 25x15x12	25	15	12	•	•	•	•
RING 25x16x12	25	16	12				
RING 25x17x12	25	17	12	•	•	•	•
RING 25x18x12	25	18	12		•		•
RING 30x16x12	30	16	12		•		•
RING 30x17x12	30	17	12				
RING 30x18x12	30	18	12		•		•
RING 30x18x19	30	18	19		•		•
RING 30x20x12	30	20	12	•	•	•	•
RING 30x21x12	30	21	12				
RING 30x22x12	30	22	12	•	•	•	•
RING 30x23x12	30	23	12		•		•
RING 35x25x12	35	25	12		•		•
RING 35x26x12	35	26	12	•	•	•	•
RING 35x27x12	35	27	12				
RING 36x20x15	36	20	15	•	•	•	•
RING 45x30x15	45	30	15				
RING 50x35x15	50	35	15				
RING 56x37x18	56	37	18		•		•
RING 67x45x21	67	45	21		•		•

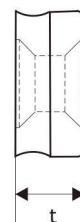
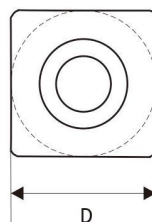
## RING - G 特殊構型



● 註:非規格品, 接單訂做.

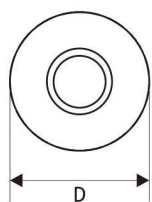
● Marked: Make to order.

## SNG



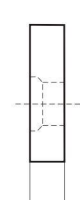
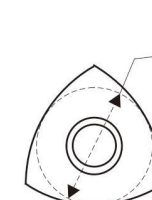
規 格 ORDERING CODE	尺 寸 Dimension				材 質 Grade
	D	t	R	r	CV16
SNG 1306	13.5	6.35	—	—	•

## RNMA



規 格 ORDERING CODE	尺 寸 Dimension				材 質 Grade
	D	t	R	r	CV16
RNMA 1006	12	6.35	—	—	•

## WRNMA



規 格 ORDERING CODE	尺 寸 Dimension				材 質 Grade
	d	t	R	r	CV16
WRNMA 1606	13.8	6.35	—	—	•

## SNHW

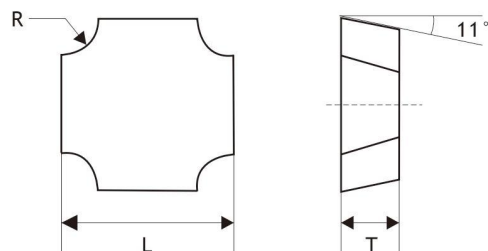


規 格 ORDERING CODE	尺 寸 Dimension				材 質 Grade
	d	t	R	r	CV16
SNHW 1307	13.5	8	—	—	•

● 註:非規格品, 接單訂做.

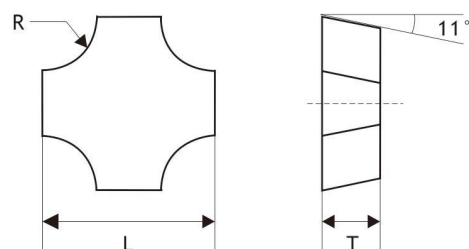
● Marked: Make to order.

## SPR 2R



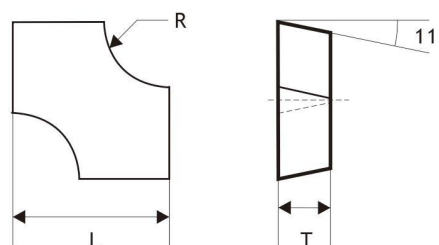
規 格	尺 寸			材 質	
ORDERING CODE	L	T	R	M20	13S
SPR 2R 11	9.525	3.175	2	•	•

## SPR 3R



規 格	尺 寸			材 質	
ORDERING CODE	L	T	R	M20	13S
SPR 3R 11	9.525	3.175	3	•	•

## SPR 4R



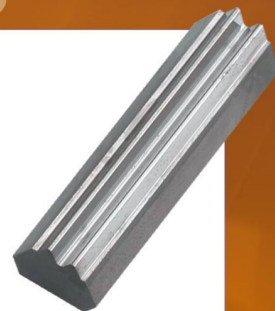
規 格	尺 寸			材 質	
ORDERING CODE	L	T	R	M20	13S
SPR 4R 11	9.525	3.175	4	•	•

- 註:非規格品, 接單訂做.
- Marked: Make to order.



# 成型刀系列

Special Form Inserts



## 經濟. 效能. 產能. NO. 1

### 特色

1. 針對各產業的不同需求，配合加工方法，設計並生產各式精密成型刀片。
2. 全檢品管制度，對產品品質嚴格把關，確保刀具精度、效能及壽命。
3. 無需遷就刀具進行加工，有效縮短加工時間，減少換刀次數，大幅度提高生產效能。
4. 在高產能要求的環境下，本公司設計生產之成型刀具能同時達成降低加工成本、提高生產效能之要求。

### 應用範圍

異型槽加工、螺桿、石油管、精密軸承製造，以及各類型特殊精密成型加工。

## 高強度. 高硬度. 高精度.



MEMO

Handwriting practice area with 20 horizontal dashed lines.



# 銑刀系列

MILLING SYSTEM





# 銑刀系列

Milling System

## ISO STANDARD

### High Productivity

周車刀為您提供多款銑刀架及銑刀片，供您選擇  
全系列ISO標準規格，讓您在挑選時得心應手，  
銑刀系列的材料及製程皆經過精心研發及管制，  
品質必能讓您滿意。



STP90  
 $K=90^\circ$



TEM  
 $K=90^\circ$



SSE45  
 $K=45^\circ$





# 銑刀系列

Milling System

## ISO 標準規格 銑刀系列



S45SE



M545SE



M500TE

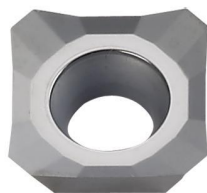
TEKN



TPKN



SEKT



SEHW



# 刀片材質對照及建議切削速度

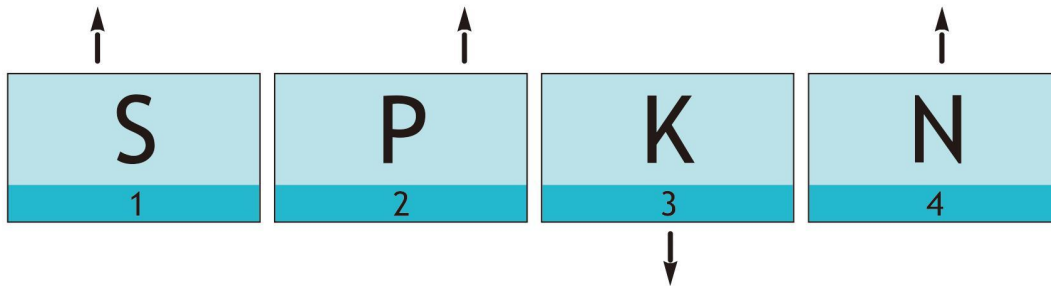


GRADE	P01	P10	P20	P30	P40	M01	M10	M20	M30	M40	K01	K10	K20	K30	K40
CV18															
CV21															
CV11															
CV17															
CV05															
CV19															

GRADE	顏色	TaeguTec	Mitsubishi	Sumitomo	Tungaloy	Kyocera
CV18	古銅	TT7080	F7030	ACP200	GH330	PR730
CV21	黑	TT9030	F7030	ACZ350	AH740	PR660
CV11	灰	TT8010	VP15TF	ACP200	AH330	PR730
CV17	紫黑	TT8080	AP20M	ACP300	AH120	PR660
CV05	黑	TT6800	F5020	ACZ310	AH110	PR510
CV19	黑	TT6080	F5010	ACK300	AH120	PR905

# MILLING INSERT DESIGNATION SYSTEM 調換式銑刀片識別法

1 INSERT SHAPE 刀片形狀				2 CLEARANCE ANGLE 離隙角				4 CHIPFORMER AND CLAMP TYPE 刀片特徵		
										
A	B	C	H	B	5	F	25	A	F	G
				C	7	G	30			
L	W	O	P	D	15	N	0	M	N	R
				E	20	P	11			
R	S	T						T	W	



3

TOLERANCE

精度

CLASS	Tolerance (mm)			I.C. Dimension (mm)					
	m	t	I.C.	6.35	9.525	12.7	15.875	19.05	25.4
A	$\pm 0.005$	$\pm 0.025$	$\pm 0.025$	•	•	•	•	•	•
E	$\pm 0.025$	$\pm 0.025$	$\pm 0.025$	•	•	•	•	•	•
F	$\pm 0.005$	$\pm 0.025$	$\pm 0.013$	•	•	•	•	•	•
G	$\pm 0.025$	$\pm 0.13$	$\pm 0.025$	•	•	•	•	•	•
H	$\pm 0.013$	$\pm 0.025$	$\pm 0.013$	•	•	•	•	•	•
K	$\pm 0.013$	$\pm 0.025$	$\pm 0.05$	•	•				
			$\pm 0.08$			•			
			$\pm 0.10$				•	•	
			$\pm 0.13$						•
M	$\pm 0.08$	$\pm 0.13$	$\pm 0.05$	•	•				
	$\pm 0.13$		$\pm 0.08$			•			
	$\pm 0.15$		$\pm 0.10$				•	•	
	$\pm 0.18$		$\pm 0.13$						•

Diagram of a triangular insert. The height is labeled 'm' and the inner circle diameter is labeled 'I.C.'.

Diagram of an octagonal insert. The thickness is labeled 'm' and the inner circle diameter is labeled 'I.C.'.

Diagram of a rectangular insert. The thickness is labeled 't'.

Diagram of a pentagonal insert. The inner circle diameter is labeled 'I.C.'.

# MILLING INSERT DESIGNATION SYSTEM 調換式銑刀片識別法

**6 THICKNESS (MM) 厚度**

01t=1.59	05t=5.56
02t=2.38	06t=6.35
03t=3.18	07t=7.94
T3t=3.97	09t=9.52
04t=4.76	

**7 NOSE RADIUS (mm) 前端圓角**

00R=SHARP	15R=1.5
02R=0.2	16R=1.6
04R=0.4	24R=2.4
05R=0.5	32R=3.2
08R=0.8	40R=4.0
10R=1.0	
12R=1.2	

**8 EDGE CONDITION 倒角形狀**

**9 HAND OF TOOL 方向**

12

5

03

6

08

ED

7

T

8

R

9

**5 EDGE LENGTH (mm) 刀片邊長**

I.C	C	R,S	T	H	O
5.56			09		
6.35	06	06	11		
7.94	08		13		
9.525	09	09	16		
12.7	12	12	22		05
15.875	16	15	27	09	
17.94					07
19.05	19	19	33	10	
25.4	25	25			

L

**7 PARALLEL LAND**

**ENTERING ANGLE 切入角**

1st

A = 45°  
 D = 60°  
 E = 75°  
 F = 85°  
 P = 90°  
 Z = Special

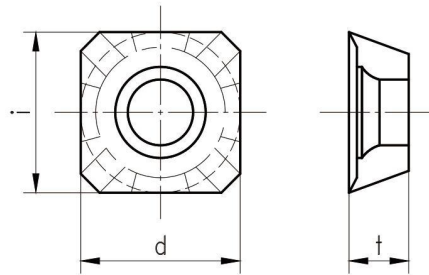
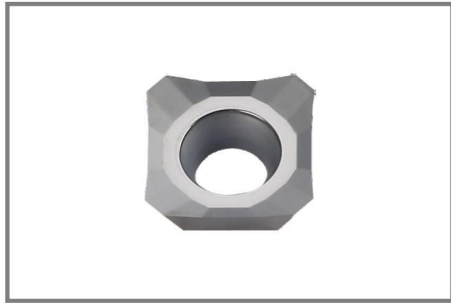
**CLEARANCE ANGLE OF LAND 離隙角**

2nd

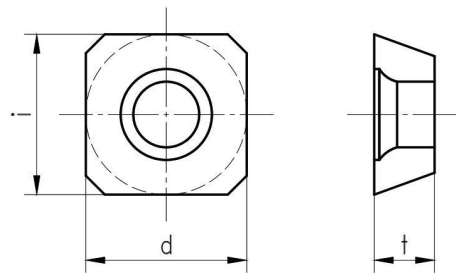
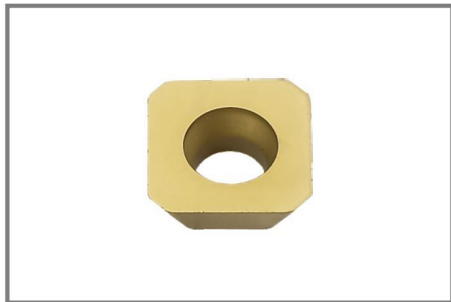
B = 5°      F = 25°  
 C = 7°      G = 30°  
 D = 15°     N = 0°  
 E = 20°     P = 11°  
 Z = Special



[illegible]

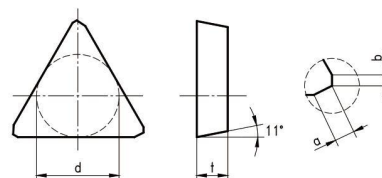
**SEKT 1204 AFFN-AH1**

規 格 ORDERING CODE	尺 寸 Dimension				材 質 GRADE
	d	i	t	r	K10
SEKT 1204 AFFN-AH1	12.70	12.70	4.76	-	•

**SEHW**

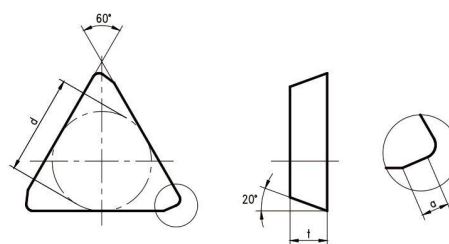
規 格 ORDERING CODE	尺 寸 Dimension				材 質 GRADE
	d	i	t	r	S30P
SEHW 1204 AFTN	12.70	12.70	4.76	-	•

## TPKN □□□□ PETR



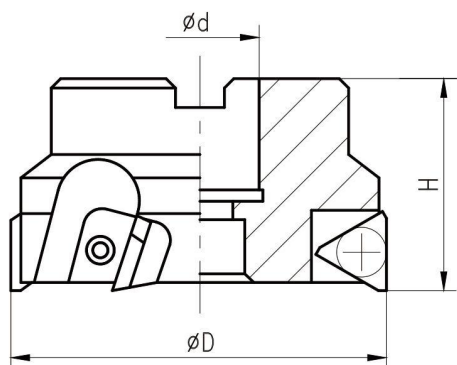
規 格	尺 寸 Dimension				材 質 GRADE		
ORDERING CODE	d	t	a	b	S30P	P30	K10
TPKN 2204 PETR	12.70	4.76	0.4	0.7	•	•	•

## TEKN □□□□ PETR



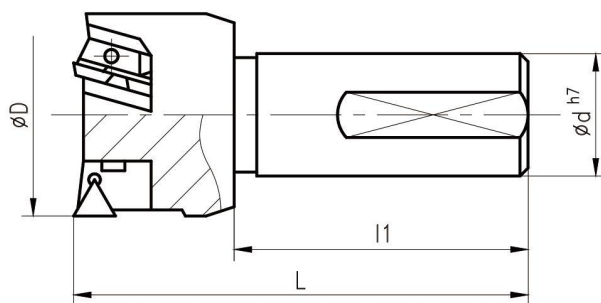
規 格	尺 寸 Dimension				材 質 GRADE		
ORDERING CODE	d	t	a	b	S30P	P30	K10
TEKN 2204 PETR	12.70	4.76	2		•	•	•

## M500TE



規 格	尺 寸				刀片	墊 片	墊片螺絲	壓 塊	壓塊螺絲	扳 手
ORDERING CODE	D	d	H		Insert	Shim	Shim Screw	Clamp	Clamp Screw	Wrench
M500TE03R 22B	80	1"	50	4	TEKN 2204	ATE54R	HCM 040708	WTE54R	WS 081015	4.0mm
M500TE04R 22B	100	1-1/4"	55	5						
M500TE05R 22B	125	1-1/2"	63	6						
M500TE06R 22B	150	2"	63	8						
M500TE08R 22B	200	1-7/8"	63	10						
M500TE10R 22B	250	1-7/8"	63	12						
M500TE12R 22B	300	1-7/8"	80	14						

## TEM

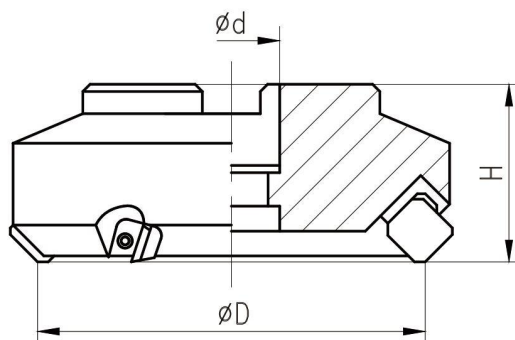









規 格	尺 寸					刀片	墊 片	墊片螺絲	壓 塊	壓塊螺絲	扳 手
ORDERING CODE	D	d	l1	L		Insert	Shim	Shim Screw	Clamp	Clamp Screw	Wrench
TEM 350R 2050	50	20	80	115	3	TEKN 2204	ATEM 350R	HCM 0305060	WTEMR	WS 081015	4.0mm
TEM 350R 2550	50	25	80	115	3						
TEM 350R 2563	63	25	80	115	3						
TEM 350R 3250	50	32	80	120	3						
TEM 350R 3263	63	32	80	120	3						



# M545SE 面銑刀

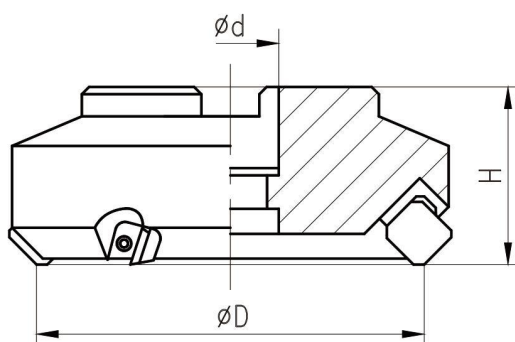
## FACE MILLS



規 格  ORDERING CODE	尺 寸 Dimension				刀片 Insert	墊 片 Shim	墊片螺絲 Shim Screw	壓 塊 Clamp	壓塊螺絲 Clamp Screw	扳 手 Wrench
	D	d	H							
M545SE03R 15B	80	1"	50	4	SEKN 1504	ASE55R	HCM 040708	WTE54R	WS 081015	4.0 mm
M545SE04R 15B	100	1-1/4"	55	5					WS 081021	
M545SE05R 15B	125	1-1/2"	63	6						
M545SE06R 15B	150	2"	63	8						
M545SE08R 15B	200	1-7/8"	63	10						
M545SE10R 15B	250	1-7/8"	63	12						
M545SE12R 15B	300	1-7/8"	80	14						

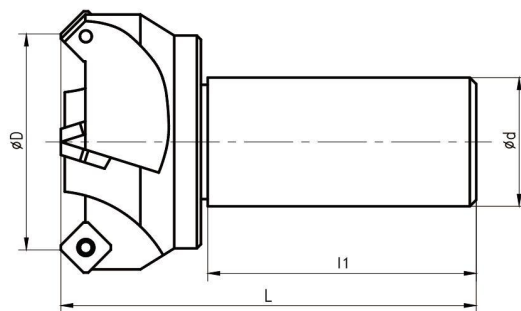
# SP4000 面銑刀

## FACE MILLS



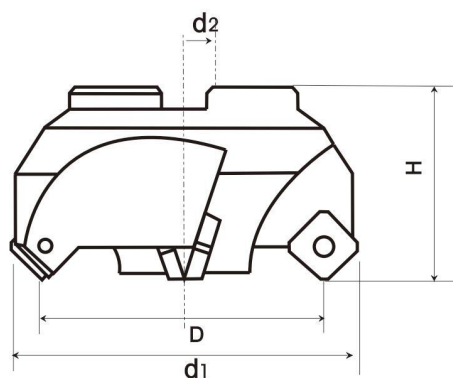
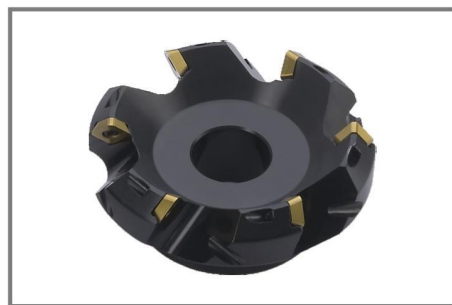
規 格	尺 寸 Dimension				刀片 Insert	墊 片 Shim	墊片螺絲 Shim Screw	壓 塊 Clamp	壓塊螺絲 Clamp Screw	扳 手 Wrench
ORDERING CODE	D	d	H							
SP4080 R/L	80	1"	50	5	SP□□ 1203	SPL602	HCM 030506	CP50-2	WS079 W24	4.0 mm
SP4100 R/L	100	1-1/4"	55	6						
SP4125 R/L	125	1-1/2"	55	8						
SP4160 R/L	160	2"	60	10						
SP4200 R/L	200	1-7/8"	60	14						
SP4250 R/L	250	1-7/8"	65	16						
SP4315 R/L	315	1-7/8"	65	18						
SP4360 R/L	360	1-7/8"	65	20						

## SSE45



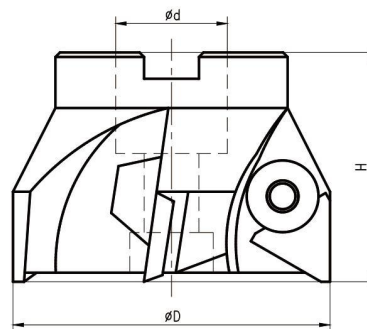
規 格 ORDERING CODE	尺 寸 Dimension					刀片 Insert	螺絲 Screw	扳 手 Wrench
	D	d	l1	L				
SSE45 2040	40	20	80	115	3	SEEW 1204 SEHT 1204 SEHW 1204 SEKT 1204	S045110	T15
SSE45 2050	50	20	80	115	4			
SSE45 2540	40	25	80	115	3			
SSE45 2550	50	25	80	115	4			
SSE45 2563	63	25	80	115	4			
SSE45 3240	40	32	80	120	3			
SSE45 3250	50	32	80	120	4			
SSE45 3263	63	32	80	120	4			

## S45SE



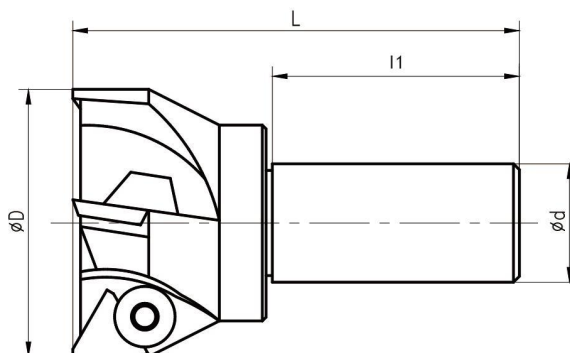
規 格 ORDERING CODE	尺 寸 Dimension					刀片 Insert	螺絲 Screw	扳 手 Wrench
	D	d1	d2	H				
50A04R-S45SE12	50	64	22	40	4	SEEW 1204 SEHT 1204 SEHW 1204 SEKT 1204	S045110	T15
63A05R-S45SE12	63	77	22	40	5			
80B06R-S45SE12	80	93	25.4	50	6			
100B06R-S45SE12	100	114	31.75	50	6			
125B07R-S45SE12	125	139	38.1	50	7			

## STP90 面銑刀



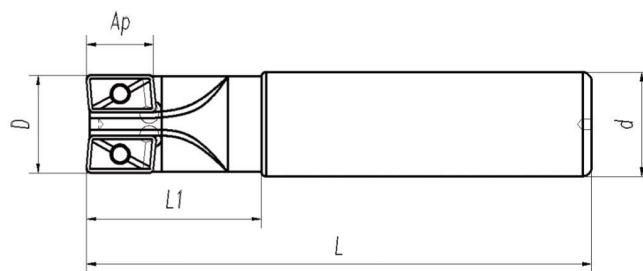
規 格	尺 寸 Dimension				刀 片 Insert	螺 絲 Screw	扳 手 Wrench
ORDERING CODE	D	d	H				
STP90 I050R	50	22	46	3	TP□N 1603	SAE 2	4.0 mm
STP90 I063R	63	22	46	4	TP□N 2204	SAE 3	5.0 mm

## STP90





規 格	尺 寸 Dimension					刀 片 Insert	螺 絲 Screw	扳 手 Wrench
ORDERING CODE	D	d	L1	L				
STP90 2025	25	20	74	100	3	TPMN 11 TPUN 11 TPKN 11	SAE1	3.0 mm
STP90 2030	30	20	74	100	3			
STP90 2525	25	25	74	100	3			
STP90 2035	35	20	70	115	2	TPMN 1603 TPUN 1603 TPKN 1603 TPMR 1603	SAE2	4.0 mm
STP90 2040	40	20	70	115	3			
STP90 2050	50	20	70	115	3			
STP90 2535	35	25	70	115	2			
STP90 2540	40	25	70	115	3			
STP90 2550	50	25	70	115	3			
STP90 3235	35	32	70	115	3			
STP90 3240	40	32	70	115	3			
STP90 3250	50	32	70	115	3	TPMR 2204	SAE3	5.0 mm
STP90 3263	63	32	70	115	4			

BAP



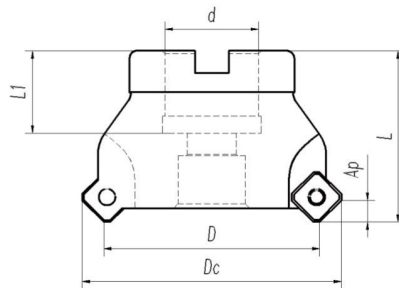
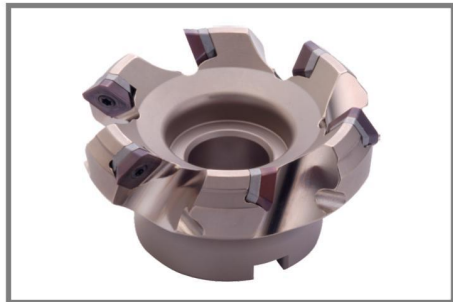
Unit:mm



規 格 ORDERING CODE	尺 寸 Dimension					刀 片 Insert	螺 絲 Screw	扳 手 Wrench					
	D	L	L1	d	T								
BAP300R162SN16-120	16	120	35	16	2	AP..1135PDER	TS2507	TK08					
BAP300R172SN16-120	17			20									
BAP300R202SN20-150	20	150			40				25	2			
BAP300R203SN20-150	20												
BAP300R213SN20-150	21												
BAP400R252SN25-150	25	170	45	32	3	AP..1604PDER	TS4004	TK15					
BAP400R262SN25-150	26				4								
BAP400R302SN25-150	30												
BAP400R323SN32-150	32												
BAP400R353SN32-150	35	200	50	20	2	AP..1135PDER	TS2507	TK08					
BAP300R162SN16-160	16								160				
BAP300R172SN16-160	17												
BAP300R202SN20-200	20								200	70	25		
BAP300R212SN20-200	21												
BAP400R252SN25-200	25	250	50	32	3	AP..1604PDER	TS4004	TK15					
BAP400R252SN25-250	25												
BAP400R262SN25-200	26	200	80	4									
BAP400R302SN25-200	30												
BAP400R323SN32-200	32	200	50		32	3	AP..1604PDER	TS4004	TK15				
BAP400R323SN32-250	32												
BAP400R323SN32-300	32	300	50	4									
BAP400R353SN32-200	35												
BAP400R353SN32-250	35	250	50		32	3	AP..1604PDER	TS4004	TK15				
BAP400R353SN32-300	35												
BAP400R404SN32-200	40	200	50	32						3	AP..1604PDER	TS4004	TK15
BAP400R404SN32-300	40												



# 45°殼型平面銑刀 45°SHELL TYPE FACE MILLING CUTTER CHOUS' TOOL

## ASX445

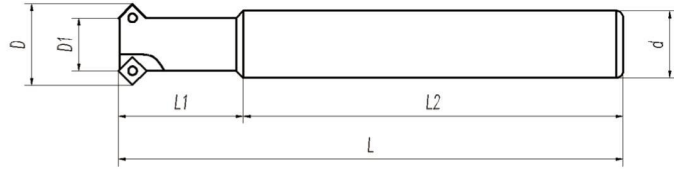





規 格 ORDERING CODE	尺 寸 Dimension							刀 片 Insert	
	D	Dc	d	L	L1	T	Ap		
ASX445R050-22-4T	50	63.0	22	40	20	4	5.5	JIS SE..13T3AGEN ISO SE..12T3AGSN	
ASX445R063-22-5T	63	75.9	22			5			
ASX445R063-25.4-5T			25.4						
ASX445R080-27-6T	80	93.2	27	50	26	6			
ASX445R080-25.4-6T			25.4						
ASX445R100-32-7T	100	113.2	32		32	7			
ASX445R100-31.75-7T			31.75						
ASX445R125-40-8T	125	138.0	40	63	38	8			
ASX445R125-38.1-8T			38.1						
ASX445R160-40-10T	160	173.0	40			10			
ASX445R160-50.8-10T			50.8						
ASX445R200-60-12T	200	212.9	60			12			
ASX445R200-47.625-12T			47.625						
ASX445R250-60-14T	250	262.9	60			14			
ASX445R250-47.625-14T			47.625						

墊片 Shim	牙套 Screw	螺絲 Screw	扳手 Wrench	扳手 Wrench
AS445N	PS35T	TS3505	TK15	TY3.5

# 45°高速内外倒角刀 *HIGH SPEED INSIDE AND OUTSIDE CHAMFERING CUTTER* CHOUS' TOOL

**CDR**



規 格 ORDERING CODE	尺 寸 Dimension						刀 片 Insert	螺 絲 Screw	扳 手 Wrench
	D	D1	d	L1	L2	L			
CDR 1510C12-2T	15	10	12	20	100	120	SPGT 050204	TS2003	TK6
CDR 1913C16-3T	19	13	16	30	120	150			
CDR 2418C20-4T	24	18	20	35	115	150			
CDR 3019C20-2T	30	19	20	40	110	150	SPGT 090408	TS2003	TK15
CDR 4029C25-3T	40	29	25	40	110	150			
CDR 5039C25-4T	50	39	25	40	110	150			



# 快速鑽頭系列

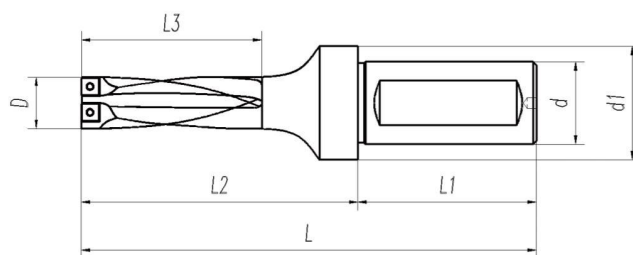
DRILLING SYSTEM



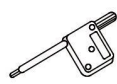
刀片 Insert	規 格 ORDERING CODE	建議切削參數 Recommended Cutting Condition		材 質 / 切削速度 Grade / Vc(m/min)					
		feed (mm/rev)	ap (mm)	CV18	CV21	CV11	CV17	CV05	CV19
	WCMX 030208					•	•		
	WCMX 040208					•	•		
	WCMX 050308					•	•		
	WCMX 06T308					•	•		
	WCMX 080412					•	•		
	SPGT 050204					•	•		
	SPGT 060204					•	•		
	SPGT 07T308					•	•		
	SPGT 090408					•	•		
	SPGT 110408					•	•		
	SPGT 140512					•	•		



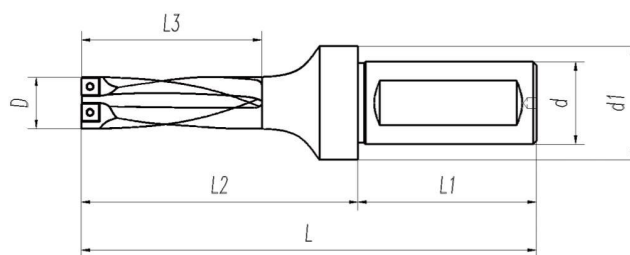
## DDR






Unit:mm

規 格 ORDERING CODE	尺 寸 Dimension							刀片 Insert	螺 絲 Screw	扳 手 Wrench
	D	d	d1	L	L3	L2	L1			
DDR2125-20T2-05	12.5	20	25	94	26	44	50	SPGT050204	TS2003	TK06
DDR2130-20T2-05	13									
DDR2135-20T2-05	13.5			96	28	46				
DDR2140-20T2-05	14			99	30	49				
DDR2145-20T2-05	14.5									
DDR2150-20T2-05	15	25	33	108	32	52	56	SPGT060204	TS2202	TK06
DDR2155-25T2-06	15.5									
DDR2160-25T2-06	16			110	34	54				
DDR2165-25T2-06	16.5									
DDR2170-25T2-06	17			113	36	57				
DDR2175-25T2-06	17.5									
DDR2180-25T2-06	18			115	38	59				
DDR2185-25T2-06	18.5									
DDR2190-25T2-06	19			119	40	63				
DDR2195-25T2-06	19.5									
DDR2200-25T2-06	20			121	42	65				
DDR2205-25T2-06	20.5									
DDR2210-25T2-06	21			123	44	67				
DDR2215-25T2-06	21.5									
DDR2220-25T2-07	22	32	43	131	46	71	60	SPGT07T308	TS2511	TK08
DDR2225-32T2-07	22.5									
DDR2230-32T2-07	23			134	48	74				
DDR2235-32T2-07	23.5									
DDR2240-32T2-07	24			137	50	77				
DDR2245-32T2-07	24.5									
DDR2250-32T2-07	25			139	52	79				
DDR2255-32T2-07	25.5									
DDR2260-32T2-07	26									

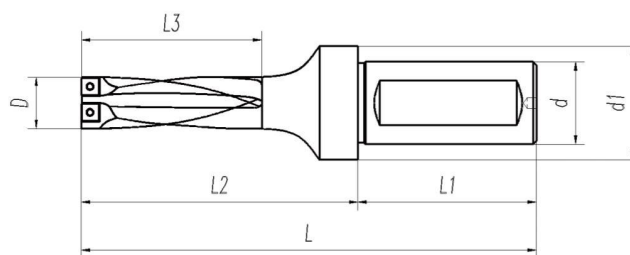
## DDR






Unit:mm

規 格 ORDERING CODE	尺 寸 Dimension							刀片 Insert 	螺 絲 Screw 	扳 手 Wrench 
DDR2265-32T2-07	26.5	32	43	142	54	81	60	SPGT07T308	TS2511	TK08
DDR2270-32T2-07	27							SPGT090408	TS3504	TK15
DDR2275-32T2-07	27.5			144	56	84				
DDR2280-32T2-09	28									
DDR2285-32T2-09	28.5			146	58	86				
DDR2290-32T2-09	29									
DDR2295-32T2-09	29.5			148	60	88				
DDR2300-32T2-09	30									
DDR2305-32T2-09	30.5			150	62	90				
DDR2310-32T2-09	31									
DDR2315-32T2-09	31.5			152	6	92				
DDR2320-32T2-09	32									
DDR2325-32T2-09	32.5			154	66	94		SPGT110408	TS4006	TK15
DDR2330-32T2-09	33									
DDR2340-32T2-11	34			156	68	96				
DDR2350-32T2-11	35			158	70	98				
DDR2360-32T2-11	36			160	72	100				
DDR2370-32T2-11	37			162	74	102				
DDR2380-32T2-11	38			164	73	104		SPGT140512	TS5009	TK20
DDR2390-32T2-11	39			166	78	106				
DDR2400-40T2-11	40	40	53	185	80	115				
DDR2410-40T2-11	41			187	82	117				
DDR2420-40T2-14	42			189	84	119				
DDR2430-40T2-14	43			191	86	121				
DDR2440-40T2-14	44			193	88	123				
DDR2450-40T2-14	45			195	90	125				
DDR2460-40T2-14	46			197	92	127				
DDR2470-40T2-14	47			199	94	129				
DDR2480-40T2-14	48			201	96	131				
DDR2490-40T2-14	49			203	98	133				
DDR2500-40T2-14	50			205	100	135				

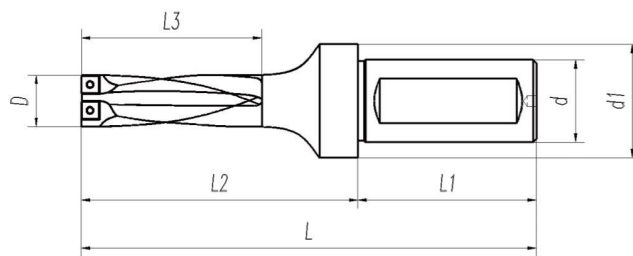
## DDR





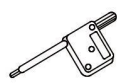
Unit:mm

規 格 ORDERING CODE	尺 寸 Dimension							刀片 Insert	螺 絲 Screw	扳 手 Wrench
	D	d	d1	L	L3	L2	L1			
DDR3125-20T2-05	12.5	20	25	107	39	57	50	SPGT050204	TS2003	TK06
DDR3130-20T2-05	13			110	42	60				
DDR3135-20T2-05	13.5			114	45	64				
DDR3140-20T2-05	14									
DDR3145-20T2-05	14.5									
DDR3150-20T2-05	15	25	33				56	SPGT060204	TS2202	TK06
DDR3155-25T2-06	15.5			124	48	68				
DDR3160-25T2-06	16			127	51	71				
DDR3165-25T2-06	16.5									
DDR3170-25T2-06	17			131	54	75				
DDR3175-25T2-06	17.5			134	57	78				
DDR3180-25T2-06	18			139	60	83				
DDR3185-25T2-06	18.5			142	63	86				
DDR3190-25T2-06	19			145	66	89				
DDR3195-25T2-06	19.5									
DDR3200-25T2-06	20									
DDR3205-25T2-06	20.5									
DDR3210-25T2-06	21									
DDR3215-25T2-06	21.5									
DDR3220-25T2-07	22	32	43	154	69	94	60	SPGT07T308	TS2511	TK08
DDR3225-32T2-07	22.5			158	72	98				
DDR3230-32T2-07	23			162	75	102				
DDR3235-32T2-07	23.5			165	78	105				
DDR3240-32T2-07	24									
DDR3245-32T2-07	24.5									
DDR3250-32T2-07	25									
DDR3255-32T2-07	25.5									
DDR3260-32T2-07	26									

## DDR

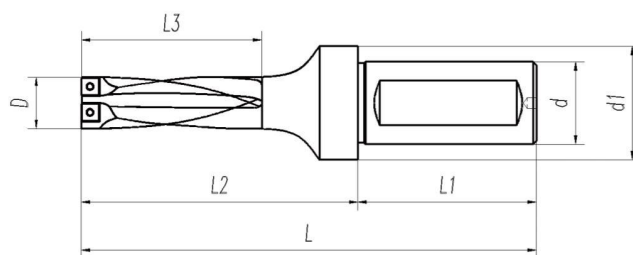


Unit:mm



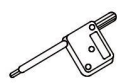
規 格 ORDERING CODE	尺 寸 Dimension							刀片 Insert	螺 絲 Screw	扳 手 Wrench
	D	d	d1	L	L3	L2	L1			
DDR3265-32T2-07	26.5	32	43	169	81	108	60	SPGT07T308	TS2511	TK08
DDR3270-32T2-07	27									
DDR3275-32T2-07	27.5			172	84	112				
DDR3280-32T2-09	28									
DDR3285-32T2-09	28.5			175	87	115		SPGT090408	TS3504	TK15
DDR3290-32T2-09	29									
DDR3295-32T2-09	29.5			178	90	118				
DDR3300-32T2-09	30									
DDR3305-32T2-09	30.5			181	93	121				
DDR3310-32T2-09	31									
DDR3315-32T2-09	31.5			184	96	124				
DDR3320-32T2-09	32									
DDR3325-32T2-09	32.5			187	99	127				
DDR3330-32T2-09	33							SPGT110408	TS4006	TK15
DDR3340-32T2-11	34			190	102	130				
DDR3350-32T2-11	35			193	105	133				
DDR3360-32T2-11	36			196	108	136				
DDR3370-32T2-11	37			199	111	139				
DDR3380-32T2-11	38			202	114	142				
DDR3390-32T2-11	39			205	117	145				
DDR3400-40T2-11	40	40	53	225	120	155	70	SPGT140512	TS5009	TK20
DDR3410-40T2-11	41			228	123	158				
DDR3420-40T2-14	42			231	126	161				
DDR3430-40T2-14	43			234	129	164				
DDR3440-40T2-14	44			237	132	167				
DDR3450-40T2-14	45			240	135	170				
DDR3460-40T2-14	46			243	138	173				
DDR3470-40T2-14	47			246	141	176				
DDR3480-40T2-14	48			249	144	179				
DDR3490-40T2-14	49			252	147	182				
DDR3500-40T2-14	50			255	150	185				



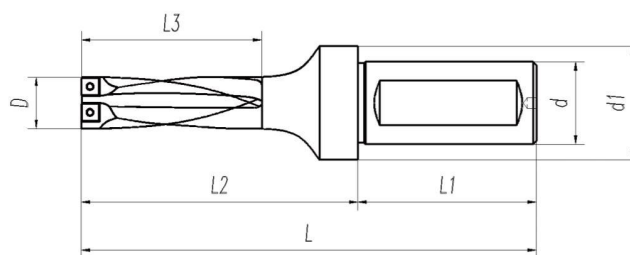
## DDR





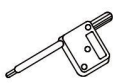
Unit:mm

規 格 ORDERING CODE	尺 寸 Dimension							刀片 Insert	螺 絲 Screw	扳 手 Wrench
	D	d	d1	L	L3	L2	L1			
DDR4125-20T2-05	12.5	20	25	120	52	70	50	SPGT050204	TS2003	TK06
DDR4130-20T2-05	13			124	56	74				
DDR4135-20T2-05	13.5			129	60	79				
DDR4140-20T2-05	14									
DDR4145-20T2-05	14.5									
DDR4150-20T2-05	15	25	33	140	64	84	56	SPGT060204	TS2202	TK06
DDR4155-25T2-06	15.5			144	68	88				
DDR4160-25T2-06	16			148	72	92				
DDR4165-25T2-06	16.5			152	76	96				
DDR4170-25T2-06	17			156	80	100				
DDR4175-25T2-06	17.5			160	84	104				
DDR4180-25T2-06	18			164	88	108				
DDR4185-25T2-06	18.5									
DDR4190-25T2-06	19									
DDR4195-25T2-06	19.5									
DDR4200-25T2-06	20									
DDR4205-25T2-06	20.5									
DDR4210-25T2-06	21									
DDR4215-25T2-06	21.5									
DDR4220-25T2-07	22	32	43	177	92	117	60	SPGT07T308	TS2511	TK08
DDR4225-32T2-07	22.5			181	96	121				
DDR4230-32T2-07	23			185	100	125				
DDR4235-32T2-07	23.5			189	104	129				
DDR4240-32T2-07	24									
DDR4245-32T2-07	24.5									
DDR4250-32T2-07	25									
DDR4255-32T2-07	25.5									
DDR4260-32T2-07	26									

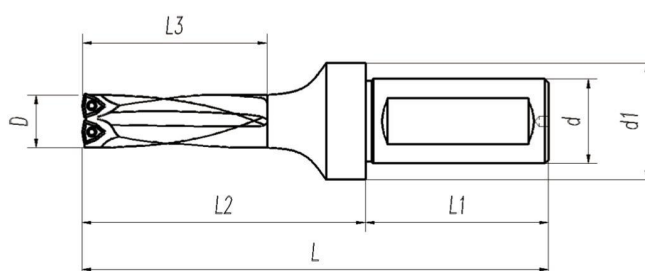
## DDR





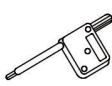
Unit:mm

規 格 ORDERING CODE	尺 寸 Dimension							刀片 Insert	螺 絲 Screw	扳 手 Wrench
	D	d	d1	L	L3	L2	L1			
DDR4265-32T2-07	26.5	32	43	196	108	136	60	SPGT07T308	TS2511	TK08
DDR4270-32T2-07	27									
DDR4275-32T2-07	27.5			200	112	140				
DDR4280-32T2-09	28									
DDR4285-32T2-09	28.5			204	116	144		SPGT090408	TS3504	TK15
DDR4290-32T2-09	29									
DDR4295-32T2-09	29.5			208	120	148				
DDR4300-32T2-09	30									
DDR4305-32T2-09	30.5			212	124	152				
DDR4310-32T2-09	31									
DDR4315-32T2-09	31.5			216	128	156				
DDR4320-32T2-09	32									
DDR4325-32T2-09	32.5			220	132	160				
DDR4330-32T2-09	33							SPGT110408	TS4006	TK15
DDR4340-32T2-11	34			224	136	164				
DDR4350-32T2-11	35			228	140	168				
DDR4360-32T2-11	36			232	144	172				
DDR4370-32T2-11	37			236	148	176				
DDR4380-32T2-11	38			240	152	180				
DDR4390-32T2-11	39			244	156	184				
DDR4400-40T2-11	40	40	53	265	160	195	70	SPGT140512	TS5009	TK20
DDR4410-40T2-11	41			269	164	199				
DDR4420-40T2-14	42			273	168	203				
DDR4430-40T2-14	43			277	172	207				
DDR4440-40T2-14	44			281	176	211				
DDR4450-40T2-14	45			285	180	215				
DDR4460-40T2-14	46			289	184	219				
DDR4470-40T2-14	47			293	188	223				
DDR4480-40T2-14	48			297	192	227				
DDR4490-40T2-14	49			301	196	231				
DDR4500-40T2-14	50			305	200	235				

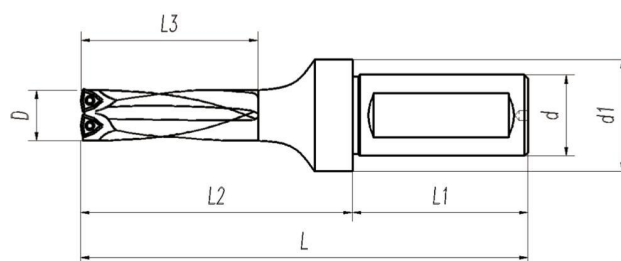
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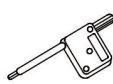
Unit:mm

規 格 ORDERING CODE	尺 寸 Dimension							刀片 Insert	螺 絲 Screw	扳 手 Wrench		
	D	d	d1	L	L3	L2	L1					
SDR2140-25T2-03	14	25	38	114	28	58	60	WCMX030208	TS2502	TK08		
SDR2145-25T2-03	14.5											
SDR2150-25T2-03	15				116	30			60			
SDR2155-25T2-03	15.5											
SDR2160-25T2-03	16				119	32			63			
SDR2165-25T2-03	16.5											
SDR2170-25T2-03	17				120	34			64			
SDR2175-25T2-03	17.5											
SDR2180-25T2-03	18				122	36		66				
SDR2185-25T2-03	18.5											
SDR2190-25T2-03	19				124	38		68				
SDR2195-25T2-03	19.5											
SDR2200-25T2-03	20				126	40		70				
SDR2205-25T2-03	20.5											
SDR2210-25T2-04	21		128	42	72							
SDR2215-25T2-04	21.5											
SDR2220-32T2-04	22	32	43	136	44	76	70	WCMX040208	TS2507	TK08		
SDR2225-32T2-04	22.5											
SDR2230-32T2-04	23				138	46					78	
SDR2235-32T2-04	23.5											
SDR2240-32T2-04	24				141	48					81	
SDR2245-32T2-04	24.5											
SDR2250-32T2-04	25				142	50					82	
SDR2255-32T2-04	25.5											
SDR2260-32T2-05	26				144	52		84				
SDR2270-32T2-05	27				146	54		86				
SDR2280-32T2-05	28				148	56		88				
SDR2290-32T2-05	29				150	58		90				
SDR2300-32T2-05	30				152	60		92				
												WCMX050308

## SDR

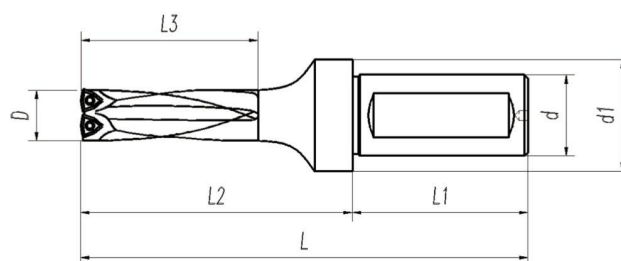


Unit:mm




規 格 ORDERING CODE	尺 寸 Dimension							刀片 Insert	螺 絲 Screw	扳 手 Wrench
	D	d	d1	L	L3	L2	L1			
SDR2310-32T2-06	31	32	43	154	62	94	60	WCMX06T308	TS3502	TK15
SDR2320-32T2-06	32			156	64	96				
SDR2330-32T2-06	33			159	66	99				
SDR2340-32T2-06	34			160	68	100				
SDR2350-32T2-06	35			162	70	102				
SDR2360-32T2-06	36			164	72	104				
SDR2370-32T2-06	37			166	74	106				
SDR2380-32T2-06	38			168	76	106				
SDR2390-32T2-06	39			170	78	110				
SDR2400-40T2-06	40	40	54	185	80	115	56	WCMX080412	TS4004	
SDR2410-40T2-06	41			187	82	117				
SDR2420-40T2-08	42			189	84	119				
SDR2430-40T2-08	43			191	86	121				
SDR2440-40T2-08	44			194	88	124				
SDR2450-40T2-08	45			195	90	125				
SDR2460-40T2-08	46			197	92	127				
SDR2470-40T2-08	47			199	94	129				
SDR2480-40T2-08	48			201	96	131				
SDR2490-40T2-08	49			202	98	132				
SDR2500-40T2-08	50			204	100	134				
SDR2510-40T2-08	51			206	102	136				
SDR2520-40T2-08	52			208	104	138				
SDR2530-40T2-08	53			210	106	140				
SDR2540-40T2-08	54			212	108	142				
SDR2550-40T2-08	55		58	215	110	145				
SDR2560-40T2-08	56			217	112	147				
SDR2570-40T2-08	57			219	114	149				
SDR2580-40T2-08	58		59	221	116	151				
SDR2590-40T2-08	59			223	118	153				
SDR2600-40T2-08	60			225	120	155				



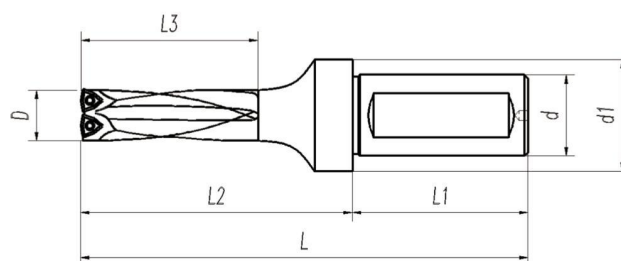
## SDR






Unit:mm

規 格 ORDERING CODE	尺 寸 Dimension							刀片 Insert	螺 絲 Screw	扳 手 Wrench			
	D	d	d1	L	L3	L2	L1						
SDR3140-25T2-03	14	25	38	128	42	72	56	WCMX030208	TS2502	TK08			
SDR3145-25T2-03	14.5			131	45	75							
SDR3150-25T2-03	15			134	48	78							
SDR3155-25T2-03	15.5												
SDR3160-25T2-03	16												
SDR3165-25T2-03	16.5												
SDR3170-25T2-03	17												
SDR3175-25T2-03	17.5												
SDR3180-25T2-03	18												
SDR3185-25T2-03	18.5												
SDR3190-25T2-03	19	32	43	140	54	84	60	WCMX040208	TS2507				
SDR3195-25T2-03	19.5			143	57	87							
SDR3200-25T2-03	20			146	60	90							
SDR3205-25T2-03	20.5			149	63	93							
SDR3210-25T2-04	21			151	64	95							
SDR3215-25T2-04	21.5			158	66	98				101	104	107	110
SDR3220-32T2-04	22												
SDR3225-32T2-04	22.5												
SDR3230-32T2-04	23												
SDR3235-32T2-04	23.5												
SDR3240-32T2-04	24												
SDR3245-32T2-04	24.5												
SDR3250-32T2-04	25												
SDR3255-32T2-04	25.5												
SDR3260-32T2-05	26	32	43				170	78	110				
SDR3270-32T2-05	27			173	81	113							
SDR3280-32T2-05	28			176	84	116							
SDR3290-32T2-05	29			179	87	119							
SDR3300-32T2-05	30			182	90	122							
SDR3305-32T2-06	30.5			182	93	125							
SDR3310-32T2-06	31			185	93	125							
						</							

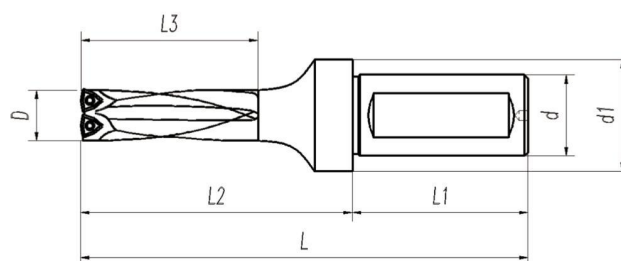
## SDR






Unit:mm

規 格 ORDERING CODE	尺 寸 Dimension							刀片 Insert	螺 絲 Screw	扳 手 Wrench
	D	d	d1	L	L3	L2	L1			
SDR3315-32T2-06	31.5	32	43	185	93	125	60	WCMX06T308	SO35100	T15
SDR3320-32T2-06	32			188	96	128				
SDR3325-32T2-06	32.5			188	96	128				
SDR3330-32T2-06	33			191	99	131				
SDR3340-32T2-06	34			194	102	134				
SDR3350-32T2-06	35			197	105	137				
SDR3360-32T2-06	36			200	108	140				
SDR3370-32T2-06	37			203	111	143				
SDR3380-32T2-06	38			206	114	146				
SDR3390-32T2-06	39			209	117	149				
SDR3400-40T2-06	40	40	54	225	120	155	70	WCMX080412	TS4004	
SDR3410-40T2-06	41			228	123	158				
SDR3420-40T2-08	42			231	126	161				
SDR3430-40T2-08	43			234	129	164				
SDR3440-40T2-08	44			238	132	168				
SDR3450-40T2-08	45			240	135	170				
SDR3460-40T2-08	46			243	138	173				
SDR3470-40T2-08	47			246	141	176				
SDR3480-40T2-08	48			249	144	179				
SDR3490-40T2-08	49			253	147	182				
SDR3500-40T2-08	50		254	150	184					
SDR3510-40T2-08	51		257	153	187					
SDR3520-40T2-08	52		260	156	190					
SDR3530-40T2-08	53		263	159	193					
SDR3540-40T2-08	54		266	162	196					
SDR3550-40T2-08	55		58	270	165	200				
SDR3560-40T2-08	56			273	168	203				
SDR3570-40T2-08	57			276	171	205				
SDR3580-40T2-08	58		59	279	174	209				
SDR3590-40T2-08	59			282	177	212				
SDR3600-40T2-08	60			63	285	180	215			

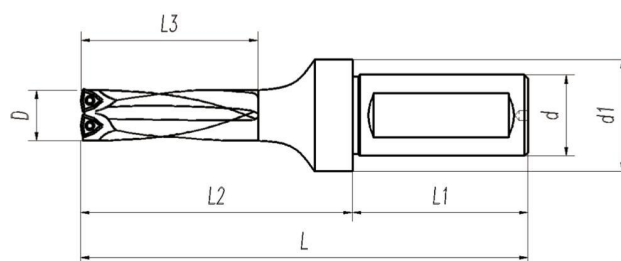
## SDR





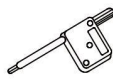
Unit:mm

規 格 ORDERING CODE	尺 寸 Dimension							刀片 Insert	螺 絲 Screw	扳 手 Wrench
	D	d	d1	L	L3	L2	L1			
SDR4140-25T2-03	14	25	38	142	56	86	56	WCMX030208	TS2502	TK08
SDR4150-25T2-03	15			146	60	90				
SDR4160-25T2-03	16			150	64	94				
SDR4170-25T2-03	17			154	68	98				
SDR4180-25T2-03	18			158	72	102				
SDR4190-25T2-03	19			162	76	106				
SDR4200-25T2-03	20			166	80	110				
SDR4210-25T2-04	21	32	43	170	84	114	60	WCMX040208	TS2507	
SDR4220-32T2-04	22			180	88	120				
SDR4230-32T2-04	23			184	92	124				
SDR4240-32T2-04	24			188	96	128				
SDR4250-32T2-04	25			192	100	132	60	WCMX050308	TS3007	TK10
SDR4260-32T2-05	26			196	104	136				
SDR4270-32T2-05	27			200	108	140				
SDR4280-32T2-05	28			204	112	144				
SDR4290-32T2-05	29			208	116	148				
SDR4300-32T2-05	30			212	120	152	60	WCMX06T308	TS3502	TK15
SDR4310-32T2-06	31			216	124	156				
SDR4320-32T2-06	32			220	128	160				
SDR4330-32T2-06	33			224	132	164				
SDR4340-32T2-06	34	228	136	168						
SDR4350-32T2-06	35	232	140	172						
SDR4360-32T2-06	36	236	144	176						
SDR4370-32T2-06	37			240	148	180				

## SDR



Unit:mm

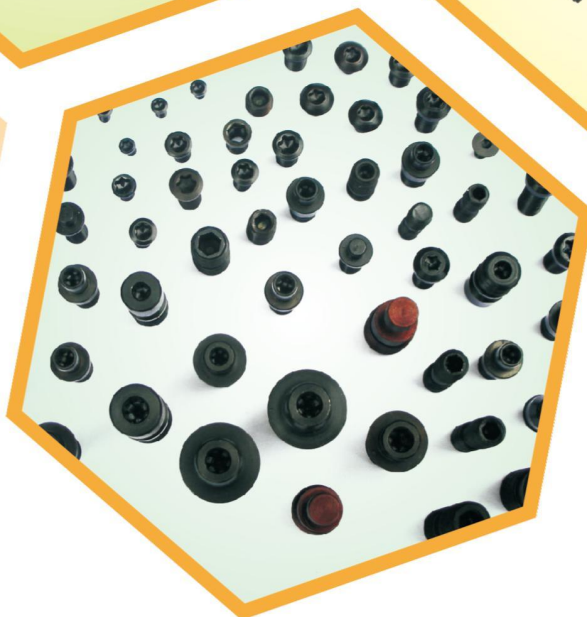
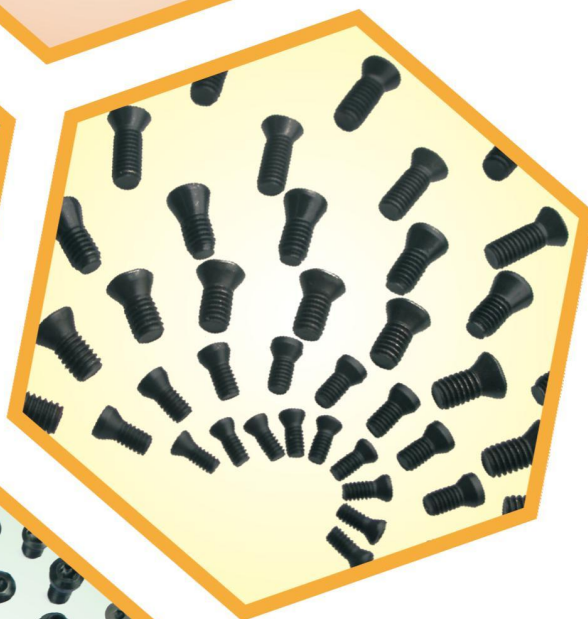
規 格 ORDERING CODE	尺 寸 Dimension							刀片 Insert	螺 絲 Screw	扳 手 Wrench
	D	d	d1	L	L3	L2	L1			
SDR4380-32T2-06	38	32	43	244	152	184	60	WCMX06T308	TS3502	TK15
SDR4390-32T2-06	39			248	156	188				
SDR4400-40T2-06	40			265	160	195				
SDR4410-40T2-06	41	40	54	269	164	199	70	WCMX080412	TS4004	TK15
SDR4420-40T2-08	42			273	168	203				
SDR4430-40T2-08	43			277	172	207				
SDR4440-40T2-08	44			282	176	212				
SDR4450-40T2-08	45			285	180	215				
SDR4460-40T2-08	46			289	184	219				
SDR4470-40T2-08	47			293	188	223				
SDR4480-40T2-08	48			297	192	227				
SDR4490-40T2-08	49			301	196	231				
SDR4500-40T2-08	50			305	200	235				
SDR4510-40T2-08	54			309	204	239				
SDR4520-40T2-08	52			313	208	243				
SDR4530-40T2-08	53			317	212	247				
SDR4540-40T2-08	54			320	216	250				
SDR4550-40T2-08	55			325	220	255				
SDR4560-40T2-08	56	58	58	329	224	259	63			
SDR4570-40T2-08	57			333	228	263				
SDR4580-40T2-08	58	59	59	337	232	267				
SDR4590-40T2-08	59			341	236	271				
SDR4600-40T2-08	60			345	240	275				



# 車削銑削配件系列

Turning & Milling Parts

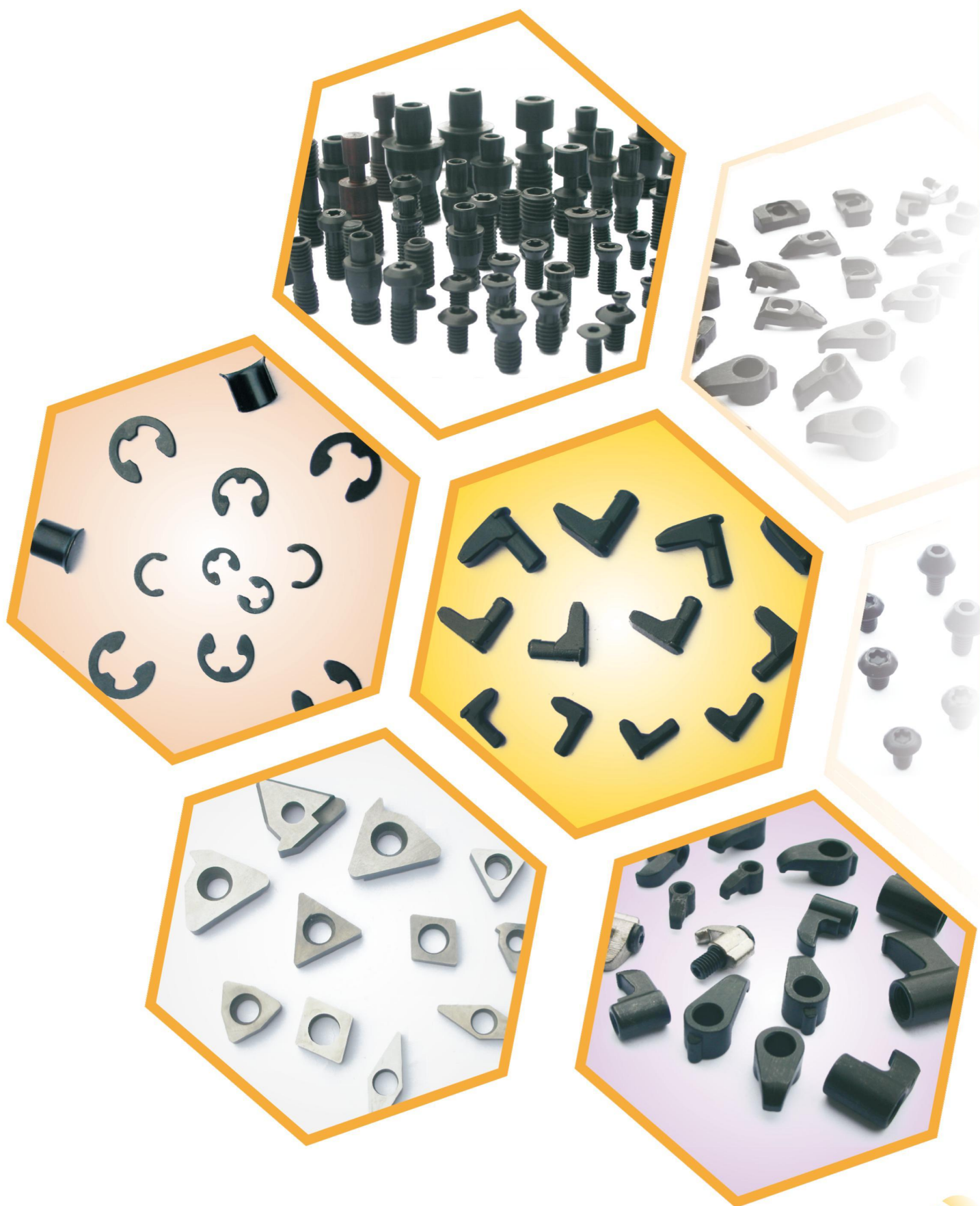
# Milling Tools



# 車削銑削配件系列

Turning & Milling Parts

# Milling Tools



## 外徑車刀

1			
規 格 Ordering Code	尺 寸 Dimensions		
	W (in)	H (in)	L (mm)
0 = 3/8"	3/8"	3/8"	80
1 = 1/2"	1/2"	1/2"	100
2 = 5/8"	5/8"	5/8"	120
3 = 3/4"	3/4"	3/4"	140
4 = 1"	1"	1"	160

## 內徑車刀

2			
規 格 Ordering Code	尺 寸 Dimensions		
	W (in)	H (in)	L (mm)
0 = 3/8"	3/8"	3/8"	130
1 = 1/2"	1/2"	1/2"	145
2 = 5/8"	5/8"	5/8"	170
3 = 3/4"	3/4"	3/4"	210
4 = 1"	1"	1"	300





## 英制與公厘換算表

英 吋	公 制	公 厘	英 吋	公 制	公 厘
1/64	0.3969	1 厘 25	43/64	17.0656	5 分 3 厘 75
1/32	0.7937	2 厘 5	11/16	17.4625	5 分 5 厘
3/64	1.1906	3 厘 75	45/64	17.8594	5 分 6 厘 25
1/16	1.5874	6 厘 25	23/32	18.2562	5 分 7 厘 5
5/64	1.9844	5 厘	47/64	18.6531	5 分 8 厘 75
3/32	2.3812	7 厘 5	3/4	19.050	6 分
7/64	2.7781	8 厘 75	49/64	19.4469	6 分 1 厘 25
1/8	3.175	1 分	25/32	19.8437	6 分 2 厘 5
9/64	3.5719	1 分 1 厘 25	51/64	20.6406	6 分 3 厘 75
5/32	3.9687	1 分 2 厘 5	13/16	20.6375	6 分 5 厘
11/64	4.3656	1 分 3 厘 25	53/64	21.0344	6 分 6 厘 25
3/16	4.7625	1 分 5 厘	27/32	21.4312	6 分 7 厘 5
13/64	5.1594	1 分 6 厘 25	55/64	21.8281	6 分 8 厘 75
7/32	5.5562	1 分 7 厘 5	7/8	22.22	7 分
15/64	5.5931	1 分 8 厘 75	57/64	22.6219	7 分 1 厘 25
1/4	6.350	2 分	29/32	23.0187	7 分 2 厘 75
17/64	6.7469	2 分 1 厘 25	59/64	23.4156	7 分 3 厘 75
9/23	7.1437	2 分 2 厘 25	15/16	23.8125	7 分 5 厘
19/64	7.5406	2 分 3 厘 75	61/64	24.2094	7 分 6 厘 25
5/16	7.9375	2 分 5 厘	31/32	24.6062	7 分 7 厘 25
21/64	8.3384	2 分 6 厘 25	23/64	25.0031	7 分 8 厘 75
11/32	8.7312	2 分 7 厘 5	1	25.400	8 分
23/64	9.1681	2 分 8 厘 75	1 1/32	26.4937	8 分 2 厘 5
3/8	9.525	3 分	1 1/16	26.9875	8 分 5 厘
25/64	9.9219	3 分 1 厘 25	1 3/32	27.7812	8 分 7 厘 5
13/32	10.8187	3 分 2 厘 5	1 1/8	28.575	9 分
27/64	10.7156	3 分 3 厘 75	1 5/32	29.3687	9 分 2 厘 5
7/16	11.1125	3 分 5 厘	1 3/16	30.1625	9 分 5 厘
29/64	11.5094	3 分 6 厘 25	1 7/32	30.9562	9 分 7 厘 5
15/32	11.9062	3 分 7 厘 5	1 1/4	31.750	10 分
31/64	12.3031	3 分 8 厘 75	1 5/16	33.3375	10 分 5 厘
1/2	12.700	4 分	1 3/8	34.952	11 分
33/64	13.0969	4 分 1 厘 25	1 7/16	36.512	11 分 5 厘
17/32	13.4937	4 分 2 厘 75	1 1/2	38.100	12 分
35/64	13.8906	4 分 3 厘 75	1 9/16	39.6875	12 分 5 厘
9/16	14.2875	4 分 5 厘	1 5/8	41.275	13 分
37/64	14.6844	4 分 6 厘 25	1 11/16	42.8625	13 分 5 厘
19/32	15.0812	4 分 7 厘 25	1 3/4	44.450	14 分
39/64	15.4781	4 分 8 厘 75	1 13/16	46.0375	14 分 5 厘
5/8	15.875	5 分	1 7/8	47.625	15 分
41/64	16.2719	5 分 1 厘 25	1 15/16	49.2125	15 分 5 厘
21/32	16.6687	5 分 2 厘 5	2	50.800	16 分



主要材質：SIB、UIB、CH05  
SIP、AU20、H13  
P10、M20、K10

形 狀		規格品 型號 ITEM TYPE.NO.		0	1	2	3	4
				3/8"	1/2"	5/8"	3/4"	1"
	外徑偏刀	右	33	•	•	•	•	
		左	34	•	•	•	•	
	外徑 彎圓頭刀	右	39	•	•	•	•	
		左	40	•	•	•	•	
	內徑 通孔刀	30		•	•	•	•	
	內徑 修正刀	47		•	•	•	•	
	內徑牙刀	51		•	•	•	•	
	內徑 圓頭車刀	55		•	•	•	•	
	內徑槽刀	53		•	•	•	•	
	外徑 方平頭刀	27		•	•	•	•	
	外徑 彎平頭刀	右	41	•	•	•	•	
		左	42	•	•	•	•	
	外徑 圓頭刀	36		•	•	•	•	
	外徑 斜刀刀	右	31	•	•	•	•	
		左	32	•	•	•	•	
	外徑 倒角修正刀	35						
	外徑 彎修正刀	右	37	•	•	•	•	
		左	38	•	•	•	•	
	外徑 直切斷刀	右	43	•	•	•	•	
		左	44	•	•	•	•	
	外徑牙刀	49		•	•	•	•	

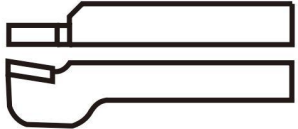



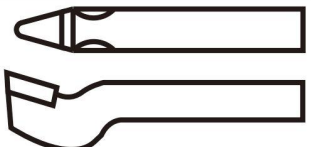
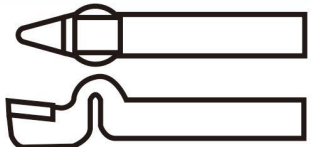
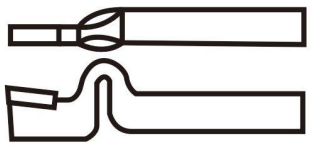
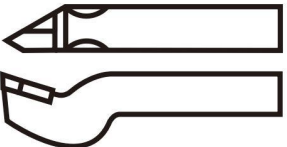
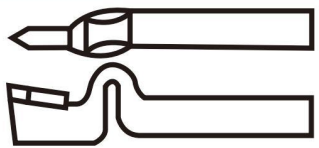
● 註：圖面上為右手刀

● Marked: Items shown above are all right-hand type.

● 註：其他規格可訂製

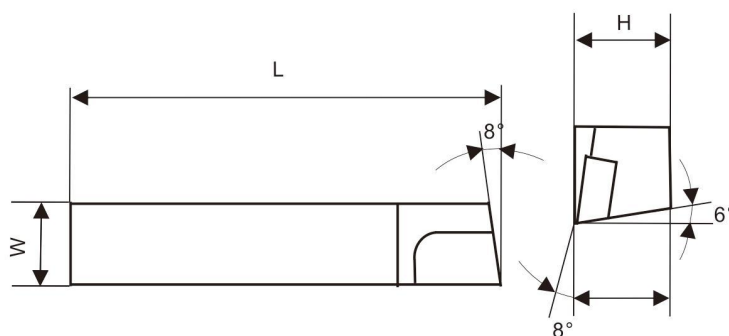
● Marked: Special items: Make to order.

主要材質：SIB、UIB、CH05  
SIP、AU20、H13  
P10、M20、K10

形 狀		規格品 型號 ITEM TYPE,NO.	0	1	2	3	4
			3/8"	1/2"	5/8"	3/4"	1"
	加強 切 斷 刀	D43	•	•	•	•	
	內 孔 精 削 刀	A30	•	•	•	•	
	避 震 內 孔 刀	B0					
	逆 轉 高 速 切 斷 刀	A43			•	•	
	翹 頭 圓 頭 刀	T36		•	•	•	
	彈 簧 圓 頭 刀	S36			•	•	
	彈 簧 切 刀	S43			•	•	
	強 力 牙 刀	T49			•	•	
	彈 簧 牙 刀	S49			•	•	

焊接搪刀

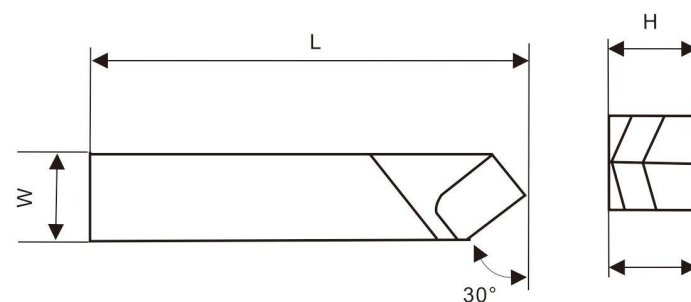
BSM/BSI 1



規 格	尺 寸 Dimension			材 質 Grade		
ORDERING CODE	W	H	L	P10	M20	K10
BSM 106	6	6	30	•	•	•
BSI 1025	5/16"	5/16"	40	•	•	•
BSI 103	3/8"	3/8"	50	•	•	•
BSI 104	1/2"	1/2"	65	•	•	•
BSI 105	5/8"	5/8"	80	•	•	•
BSI 106	3/4"	3/4"	95	•	•	•
BSI 108	1"	1"	110	•	•	•

- 註: BSM=mm規格 BSI=英吋規格
- Marked: BSM=mm BSI=inch

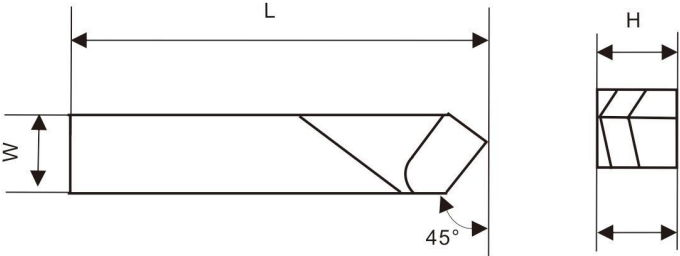
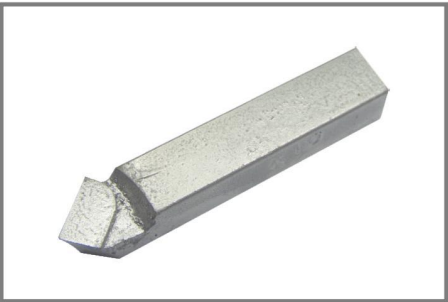
BSM/BSI 3



規 格	尺 寸 Dimension			材 質 Grade		
ORDERING CODE	W	H	L	P10	M20	K10
BSM 306	6	6	30	•	•	•
BSI 3025	5/16"	5/16"	40	•	•	•
BSI 303	3/8"	3/8"	50	•	•	•
BSI 304	1/2"	1/2"	65	•	•	•
BSI 305	5/8"	5/8"	80	•	•	•
BSI 306	3/4"	3/4"	95	•	•	•
BSI 308	1"	1"	110	•	•	•

- 註: BSM=mm規格 BSI=英吋規格
- Marked: BSM=mm BSI=inch

焊接搪刀  
 BSM/BSI 4

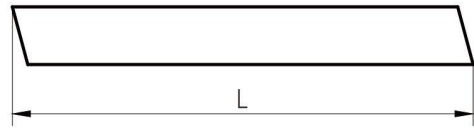
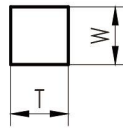


規 格	尺 寸 Dimension			材 質 Grade		
ORDERING CODE	W	H	L	P10	M20	K10
BSM 406	6	6	30	•	•	•
BSI 4025	5 / 16 "	5 / 16 "	40	•	•	•
BSI 403	3 / 8 "	3 / 8 "	50	•	•	•
BSI 404	1 / 2 "	1 / 2 "	65	•	•	•
BSI 405	5 / 8 "	5 / 8 "	80	•	•	•
BSI 406	3 / 4 "	3 / 4 "	95	•	•	•
BSI 408	1 "	1 "	110	•	•	•

- 註: BSM=mm規格 BSI=英吋規格
- Marked : BSM=mm BSI=inch

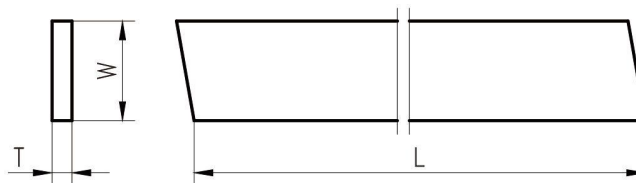


## 正方形規格



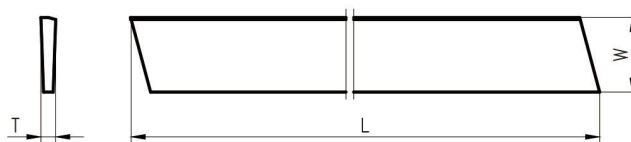
規 格 ORDERING CODE	材 質 Grade		
	FOX818	FOX868	FOX889
3/16"X2-1/2"			
3/16"X4"			
1/4"X2-1/2"			
1/4"X4"			
1/4"X6"			
1/4"X8"			
5/16"X2-1/2"			
5/16"X4"			
5/16"X6"			
5/16"X8"			
3/8"X3"	•	•	•
3/8"X4"		•	•
3/8"X6"			
3/8"X8"		•	•
1/2"X4"			
1/2"X6"			
1/2"X8"			
5/8"X4-1/2"		•	•
5/8"X5"			•
5/8"X6"		•	•
5/8"X8"		•	•
3/4"X5"			
3/4"X6"			
3/4"X8"			
1"X8"		•	

## 平板型規格



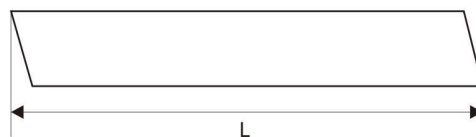
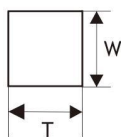
規 格 ORDERING CODE	材 質 Grade	
	FOX868	FOX889
1/4" X 1/2" X 4"		
1/4" X 1/2" X 8"		
1/8" X 1/2" X 3-1/2" (NO-1)	•	
1/8" X 1/2" X 6" (NO-1x6)		
1/8" X 1/2" X 8" (NO-1x8)	•	
1/8" X 5/8" X 4-1/2" (NO-2)	•	
1/4" X 5/8" X 6" (NO-2x6)		
1/8" X 5/8" X 8" (NO-2x8)	•	
3/16" X 3/4" X 5-1/2"	•	

## 斧頭型規格



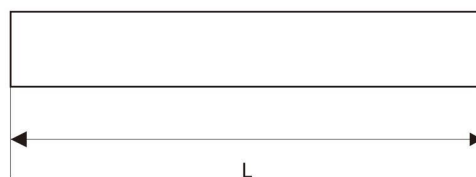
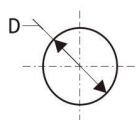
規 格 ORDERING CODE	材 質 Grade	
	FOX868	FOX889
1/8" X 5/8" X 5" (S-1)	•	•

## 四角MM規格



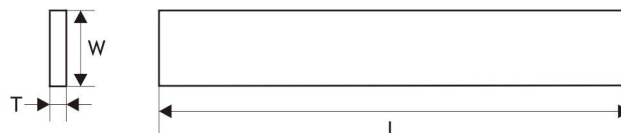
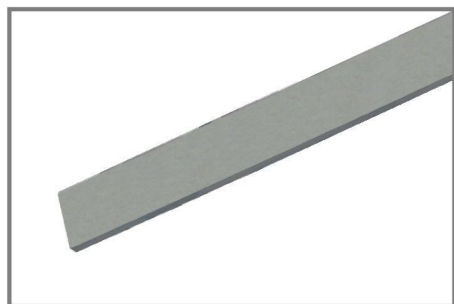
規 格 ORDERING CODE	材 質 Grade	
	FOX868	FOX889
8mm X 100L	•	
10mm X 100L	•	
12mm X 100L	•	
14mm X 150L		
16mm X 150L		
16mm X 200L		

## 圓形MM規格



規 格 ORDERING CODE	材 質 Grade	
	FOX868	
3mm X 100L	•	
4mm X 100L	•	
5mm X 100L	•	
6mm X 100L	•	
8mm X 100L	•	
10mm X 100L	•	
12mm X 100L	•	
16mm X 100L	•	

## 鎢鋼板

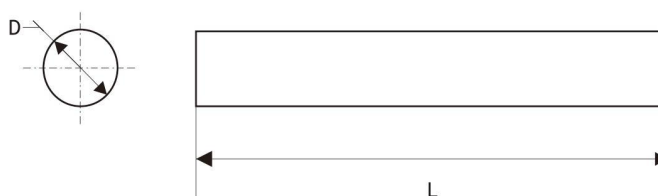
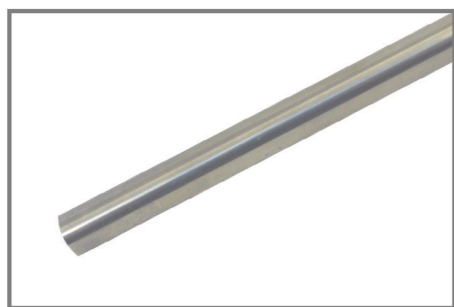


規 格 ORDERING CODE (T X W X L)
2 X 3 X 140
2 X 4 X 140
2 X 5 X 140
2 X 10 X 140
2 X 12 X 140
2 X 16 X 140
2 X 20 X 140
2 X 25 X 140
2.5 X 3 X 140
3 X 6 X 140
3 X 8 X 140
3 X 10 X 140
3 X 12 X 140

規 格 ORDERING CODE (T X W X L)
3 X 16 X 140
3 X 20 X 140
3 X 25 X 140
3 X 30 X 140
3 X 35 X 140
3 X 40 X 140
4 X 4 X 140
4 X 5 X 140
4 X 6 X 140
4 X 8 X 140
4 X 10 X 140
4 X 12 X 140
4 X 16 X 140

規 格 ORDERING CODE (T X W X L)
4 X 20 X 140
4 X 25 X 140
4 X 35 X 140
5 X 6 X 140
5 X 10 X 140
5 X 12 X 140
5 X 20 X 140
5 X 25 X 140
6 X 8 X 140
6 X 10 X 140
6 X 12 X 140
6 X 16 X 140

## 圓形MM規格



規 格 ORDERING CODE (Dimension D X L) (mm)
1mm X 100L
2mm X 100L
3mm X 100L
4mm X 100L
5mm X 100L

規 格 ORDERING CODE (Dimension D X L) (mm)
6mm X 100L
8mm X 100L
10mm X 100L
12mm X 100L



# 客製化刀具

## 客製化刀具

