

Metal Cutting Tools

Indexable - Milling / Drilling / Turning



切削刀具 – 可轉位系列

銑削 · 鑽削 · 車削

Chasing the dream and passion in developing the high quality cutting tools, Winstar Cutting Technologies Corp. was established in 2008.

Winstar has worked out the research department. We are developing the innovative technologies such as sintering, grinding, coating and polishing. All the tooling design, production and inspection process are completed in Winstar plant.

Winstar has been always dedicating to create the excellent quality tools in the industries of die & mold, automotive, aircraft, and machinery...etc. Our products have been distributed in the Europe, America, Oceania, Asia and all around the world.

We believe in providing the exceptional products and building long terms relationship with our valuable customers are the keys to success. Hand in hand we will be growing together in a family.

Welcome Joining the Winstar Family!



Patent & Certification



Contents

Indexable Milling Tools

IA001 ~ IA115



Indexable Drills & Boring Tools

IB001 ~ IB041



Turning & Parting Tools

IC001 ~ IC071



CXBN High Feed Face Milling 高進給平面銑削系列

- High feed inserts allow lower cutting force.
高進給低切削阻力的刀片確保產能最大化
- Double sided insert, 4 cutting edges.
雙面刀片，4 個切削角
- Use BNMX0603 or BNMX0904 insert.
使用 BNMX0603 或 BNMX0904 雙面刀片
- Endmill, modular and face milling cutters available.
端銑刀桿，鎖牙式銑刀頭與面銑刀盤可供選擇



CXLN High Feed Face Milling 高進給平面銑削系列

- For small milling machines.
適合較低功率的小型機台使用
- Double sided insert, 4 cutting edges.
雙面刀片，4 個切削角
- Use LNMX0303 insert.
使用 LNMX0303 雙面刀片
- Endmill, modular and face milling cutters available.
端銑刀桿，鎖牙式銑刀頭與面銑刀盤可供選擇



CXSN 45° Face Milling 平面銑削系列

- 2 types of double sided inserts fit in same pocket.
兩種雙面刀片，可共用於相同刀盤
- Double sided, 8 or 16 cutting edges.
雙面刀片，8 或 16 個切削角
- Use SNMX1205 or ONMX0505 insert.
使用 SNMX1205 或 ONMX0505 雙面刀片
- Face milling cutters available.
面銑刀盤可供選擇



CXWN High Feed Face Milling 高進給平面銑削系列

- High rigidity cutting edge design.
雙面高剛性的切削角設計
- Double sided insert, 6 cutting edges.
雙面刀片, 6 個切削角
- Use WNMX09T3 or WNMX1305 insert.
使用 WNMX09T3 或 WNMX1305 雙面刀片
- Endmill and face milling cutters available.
端銑刀桿與面銑刀盤可供選擇



CXXN 90° Shoulder Milling 90° 方肩銑削系列

- For small and large sized milling machines.
適用於大中小型機台
- Double sided insert, 6 cutting edges.
雙面刀片, 6 個切削角
- Use XNMX0403 or XNMX0806 insert.
使用 XNMX0403 或 XNMX0806 雙面刀片
- Endmill, modular and face milling cutters available.
端銑刀桿, 鎖牙式銑刀頭或面銑刀盤可供選擇

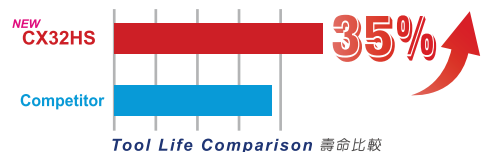


New Milling Grade CX32HS 全新材質 CX32HS 適用於銑削

- Improve cutting edge treatment. 改進切削刀口處理
 - Strengthen wear resistance capabilities. 加強耐磨性能
 - Improve surface finishing. 提高表面光潔度
 - Less cutting force. 降低切削阻力
 - Less heat transfer occurs. 降低熱傳導力
- Improve coating adherence. 改進塗層效能
 - Improve anti-adhesive properties. 提高刀片抗沾黏特性
 - Improve heat resistance capabilities. 提高刀片耐熱特性
 - Wider applications for P, M, K, S, H. 更廣泛的加工應用, 適合 P, M, K, S, H 材質
 - Longer tool life. 更長的刀具壽命
- Comparison Sample 比較範例

Insert : APMT1135PDER-RG
Cutter : 16mm / 2t
Material : S45C heat treated to HRC 50
Workpiece size : 300*200mm
Coolant: Dry

VC : 61 m/min
S : 1225 rpm
vf : 320 mm/min
fz : 0.13 mm/tooth
ap : 0.8 mm
ae : 15 mm



CAPK 90° Shoulder Milling 90° 方肩銑削系列

- Enhancement chip breaker design.
強壯的刀口設計提供更好的刀具壽命
- 2 cutting edges, cutter range 16~100 mm.
2 個切削角，刀具尺寸 16~100mm
- Use APKT1003 or APKT1604 insert.
使用 APKT1003 或 APKT1604 刀片
- Endmill, modular and face milling cutters available.
端銑刀桿，鎖牙式銑刀頭與面銑刀盤可供選擇



CART 90° Shoulder Milling 90° 方肩銑削系列

- For small sized milling machines.
低主軸負荷，特別適用於小型機台
- 2 cutting edges.
2 個切削角
- Mini shoulder milling use WRT0702 insert, cutter range 10~16mm.
小徑方肩銑削使用 WRT0702 刀片，刀具尺寸 10~16mm
- General shoulder milling use WRT1003 insert, cutter range 17~21mm.
一般方肩銑削使用 WRT1003 刀片，刀具尺寸 17~21mm



CATP 90° Shoulder Milling 90° 方肩銑削系列

- Innovative & economical shoulder milling.
三個加工角設計帶來更大的經濟效益
- 3 cutting edges, cutter range 20~63 mm.
3 個切削角，刀具尺寸 20~63mm
- Use TPMX1004 insert.
使用 TPMX1004 刀片
- Endmill and face milling cutters available.
端銑刀桿與面銑刀盤可供選擇



CAXO 90° Mini Shoulder Milling 90° 小徑多刃方肩銑削系列

- For small sized milling machines.
低主軸負荷，特別適用於小型機台
- 2 cutting edges, cutter range 10~20 mm.
2 個切削角，刀具尺寸 10~20mm
- Use XOMT0602 insert.
使用 XOMT0602 刀片
- Endmill and modular cutters available.
端銑刀桿與鎖牙式銑刀頭可供選擇



CR39 90° Shoulder Milling 90° 方肩銑削系列

- For productive milling at high speed machining.
專為高速加工時的高效率銑削而設計
- 2 cutting edges, cutter range 16 ~ 80 mm.
2 個切削角，刀具尺寸 16~80mm
- Use W39011T3 insert.
使用 W39011T3 刀片
- Endmill, modular and face milling cutters available.
端銑刀桿，鎖牙式銑刀頭與面銑刀盤可供選擇



CWEX 90° Shoulder Milling 90° 方肩銑削系列

- High efficiency and high removal rates.
高效率和高移除率的方肩銑削
- 2 cutting edges, cutter range 16~100 mm.
2 個切削角，刀具尺寸 16~100mm.
- Use AXMT1235 or AXMT1705 insert.
使用 AXMT1235 或 AXMT1705 刀片
- Endmill, modular and face milling cutters available.
端銑刀桿，鎖牙式銑刀頭與面銑刀盤可供選擇



DSP Use ***SPMG insert*** 可轉位鑽頭, SPMG 刀片

- Internal coolant. 內冷可轉位鑽頭
- 2D, 3D, 4D, 5D indexable drills. 2、3、4、5 倍徑鑽孔深度
- Diameter 12.5 ~ 50mm. 適用 12.5 ~ 50mm 孔徑加工
- 4 cutting edges economic insert. 使用 4 個切削角刀片, 更加經濟



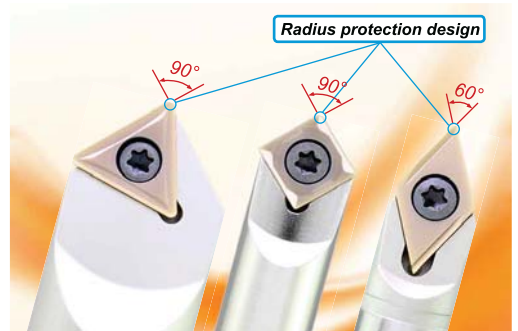
DWC Use ***WCMT insert*** 可轉位鑽頭, WCMT 刀片

- Internal coolant. 內冷可轉位鑽頭
- 2D, 3D, 4D, 5D indexable drills. 2、3、4、5 倍徑鑽孔深度
- Diameter 14 ~ 60mm. 適用 14 ~ 60mm 孔徑加工
- 3 cutting edges economic insert. 使用 3 個切削角刀片, 更加經濟



DTS for Spotting 可轉位定位鑽頭

- Multi-function : spotting, 45° chamfering, countersinking, grooving, and engraving.
可用於定位、倒角、錐孔、V 形槽、刻字等多種加工用途
- Prevents tip cracking design. 防止刀尖裂口設計
- Use DCEX11T3, SCMX09T3, TCMX16T3 insert.
使用 DCEX11T3、SCMX09T3、TCMX16T3 刀片



DB Boring Tools 可轉位搪孔刀具

- Easy to adjust. 易於調整加工孔徑
- High rigidity tool body. 高剛性合金鋼本體
- Various inserts available. 可適用多種刀片
- Diameter 25mm to 610mm. 適用 25 ~ 610mm 孔徑加工



G Class Inserts for Aluminum 適合鋁加工的研磨級車刀片

- Suitable for accurate cutting of small size workpiece.
適用於小尺寸工件高精度加工
- Wear resistant substrate improve insert life.
高耐磨性基材提高刀片壽命
- Sharp geometry design is suitable for Finishing.
鋒利的幾何設計適合精加工



Negative Turning Inserts 負角車刀片

- 50+ types to choose from.
超過 50 種刀片種類可供選擇
- Thick coating layer structure for various applications.
針對多樣化加工提供厚塗層對應
- Longitudinal, profile and face turning machining.
適合端面，輪廓及外徑加工應用
- Usable range cover from medium to roughing.
加工範圍包含蓋中加工至粗加工



Positive Turning Inserts 正角車刀片

- 25+ types to choose from, E, G or M tolerance insert available.
超過 25 種刀片種類可供選擇，可提供 E, G 或 M 級公差車刀片
- Thick or normal coating layer structure for different applications.
針對不同加工應用面提供不同塗層對應
- Internal turning, profiling and boring machining.
適合內孔，輪廓及鏜孔加工應用
- Usable range cover from semi-finishing to roughing.
加工範圍包含半精加工至粗加工



Parting & Grooving Tools 切斷 & 切槽刀

- MGEH / KGB Series for cut-off and grooving of small workpieces in automatic lathe or small machine.
MGEH / KGB 系列適用於自動車床或小型機台，小型工件的切斷與切槽加工
- SGIH Series for parting of large workpieces.
SGIH 系列適用於大型工件的切斷加工



Indexable Milling Tools



Milling Inserts 銑刀片

Designations For Milling Inserts (銑刀片型號編碼) IA002

Milling Insert Grades (銑刀片材質等級) IA003

Milling Insert Chip Breakers (銑刀片斷屑槽介紹) IA004

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Milling Cutters 銑刀桿

Cutter Types Index (刀桿種類總覽) IA016

Shoulder Milling Cutters (方肩銑削) IA019

Face Milling Cutters (平面銑削) IA057

Copy Milling Cutters (仿形銑削) IA067

High Feed Face Milling Cutters (高進給平面銑削) IA083

Helical Milling Cutters (玉米銑削) IA100

Disc Milling Cutters (三面刃銑削) IA101

Chamfer Milling Cutters (倒角銑削) IA102

Winmaster Series 硬質合金可替換式銑刀頭 IA103

Tooling System & Accessories 配件

Adapter (鎖牙式延長桿) IA110

BT Tool Holder (BT 刀把) IA113

Additional information 相關資訊

Milling Inserts Grade Comparison Chart (銑刀片材質等級比較表) ... IA115

A

1

P

2

M

3

T

4

16

5

04

6

08

7

PD

8

ER

9

MG

10

1

Insert Shape

2

Relief Angle

A

85°

B

82°

C

80°

D

55°

E

75°

H

K

55°

L

M

86°

O

R

S

T

V

35°

W

A

3°

B

5°

C

7°

D

15°

E

20°

F

25°

G

30°

N

0°

P

11°

3

Tolerance Class

	Tolerance	A	C	E	F	G	H	J	K	L	M	N	U
	d±	0.025	0.025	0.025	0.013	0.025	0.013	0.05~0.15	0.05~0.15	0.05~0.15	0.05~0.15	0.05~0.15	0.08~0.25
	m±	0.005	0.013	0.025	0.005	0.025	0.013	0.005	0.013	0.025	0.08~0.2	0.08~0.2	0.13~0.38
	s±	0.025	0.025	0.025	0.025	0.05~0.13	0.025	0.025	0.025	0.025	0.05~0.13	0.025	0.13

4

Insert Features

A	C	F	G	H	J	M	N	Q	R	T	U	W	X
													Special shape

5

Edge Length

6

Thickness

A

B

C

D

E

H

K

L

M

O

R

S

T

V

W

Index	01	T1	02	03	T3	04	05	06	07	09
S(mm)	1.59	1.98	2.38	3.18	3.97	4.76	5.56	6.35	7.94	9.52

7

Corner Radius

8

Edge Clearance

r

02

04

08

16

20

...

0.2R

0.4R

0.8R

1.6R

2.0R

...

Kr

A

D

E

F

P

Z

45°

60°

75°

85°

90°

other

an

A

B

C

D

E

F

G

N

P

Z

3°

5°

7°

15°

20°

25°

30°

0°

11°

other

9

Cutting Edge & Direction

10

Chip Breaker Geometry

E

F

T

S

Rounded

Sharp

Chamferd

Chamferd and rounded

R

N

L

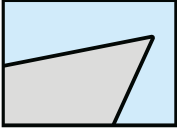
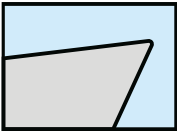
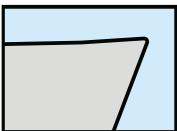
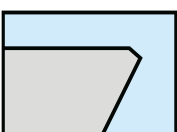
AL, SG, MG, RG, HG

IA002

Milling Insert Grades

銑刀片材質等級

Grade Type 材質類別	Coating Type 塗層種類	Properties 屬性	Application 加工特性	Working Material 加工材質							Industry Area 產業應用範圍
				P	M	K	N	S	H		
CX12HS	PVD	- HRA 93 HRA 93 - Wear resistance 高耐磨性基材	- Continuous finishing machining 適用於連續穩定精加工 - For Hardened steel 適合高硬度鋼銑削	○	○	○		○	●	- Die and mould 模具產業 - Hardened parts 硬質零件	
CX22HS (CX21NS)	PVD	- HRA 92 HRA 92 - Wear resistance 高耐磨性基材	- Continuous semi-finishing machining 適用於連續穩定輕加工 - For Hardened steel and Cast Iron 適合高硬度鋼和鑄鐵銑削	●	○	●		○	●	- Die and mould 模具產業 - Hardened parts 硬質零件	
CX32HS (CX31NS) (CX31NA)	PVD	- HRA 91.6 HRA 91.6 - Wear resistance 高耐磨性基材	- Medium machining 適用於中加工 - For Carbon steel, Alloy steel and Stainless steel 適合碳鋼，合金鋼和不鏽鋼銑削	●	●	●		○	○	- Auto parts 汽車零件 - Machinery parts 機械零件	
CX43TS	PVD	- HRA 89.9 HRA 89.9 - Impact resistance 抗衝擊性基材 - High toughness 高韌性	- Roughing or interrupted machining 適用於粗加工或斷續加工 - For Carbon steel, Alloy steel, Stainless steel and High temperature alloy 適合碳鋼，合金鋼，不鏽鋼和高溫合金銑削	●	●	●		●		- Auto parts 汽車零件 - Machinery parts 機械零件 - Aircraft parts 航太零件	
CX53TS	PVD	- HRA 90 HRA 90 - Heat resistance 耐熱性基材 - High toughness 高韌性	- Roughing or interrupted machining 適用於粗加工或斷續加工 - For Stainless steel and High temperature alloy 適合不鏽鋼和高溫合金銑削	●	●			●		- Auto and Machinery parts 汽車和機械零件 - Aircraft parts 航太零件	

Chipbreaker 斷屑槽		Application 應用
	AL	Large positive rake angle with sharp cutting edge for Non-ferrous materials. 鋒利的大正前角刀口設計，適用於非鐵金屬加工應用
for Aluminum 適用於鋁		
	SG	Sharp geometry design for Semi-finishing cutting in steel, stainless and difficult-to-cut material. 鋒利的刀口設計，適用於鋼件、不鏽鋼，及難切削材的半精加工應用
Semi-Finishing 半精加工		
	MG	Low cutting force for medium cutting in steel, stainless and cast iron. 低切削阻力的刀口設計，適用於鋼件、不鏽鋼和鑄鐵的中加工應用
Medium 中加工		
	RG	Strong geometry design for rough cutting in steel, alloy steel and hardened steel. 強壯的刀口設計，適用於鋼件、合金鋼、預硬鋼的粗加工應用
Roughing 粗加工		
	HG	Strong, negative and big chamfering cutting edge for roughing, forging and cast skin. 粗加工的強力刀口設計，適用於鑄件及鍛件
Heavy-Roughing 重粗加工		

Inserts 刀片	Item No. 名稱	Grade No. 材質					Dimensions (mm) 尺寸						Drawing 圖形	Cutter Page
		CX12HS	CX22HS	CX32HS	CX43TS	CX53TS	A	B	S	r	d1	t1		
	APKT100304PDER-MG <i>I</i>		✓	✓	✓		10.5	6.7	3.5	0.4	2.8	-		IA039 ~ IA042
	APKT100308PDER-MG <i>I</i>		✓	✓			10.5	6.7	3.5	0.8	2.8	-		
	APKT100304PDER-RG <i>I</i>			✓			10.5	6.7	3.5	0.4	2.8	-		
	APKT160408PDER-MG <i>I</i>		✓	✓	✓		16.3	9.525	5.25	0.8	4.5	-		IA039 ~ IA042
	APKT160408PDER-RG <i>I</i>		✓	✓	✓		16.3	9.525	5.25	0.8	4.5	-		
	APKT170516PEER-RG <i>T</i>		✓	✓			18.5	10.7	5.56	1.6	4.5	-		
	APET160402PDFR-AL <i>I</i>	CX10 for Aluminum					16.3	9.525	4.76	0.2	4.5	-		IA039 ~ IA042
	APMT103508PDER-RG <i>S</i>		✓	✓	✓		10.64	6.5	3.5	0.8	3	-		
	APMT113508PDER-MG <i>M</i>		✓	✓	✓		11.0	6.35	3.5	0.8	2.8	-		IA049 ~ IA051
	APMT113516PDER-MG <i>M</i>		✓	✓			11.0	6.35	3.5	1.6	2.8	-		
	APMT113508PDER-RG <i>M</i>		✓	✓	✓		11.0	6.35	3.5	0.8	2.8	-		
	APMT113508PDER-HG <i>M</i>			✓	✓		11.0	6.35	3.5	0.8	2.8	-		

*Customized geometries acceptable & previous grades(CX21NS, CX31NA, CX31NS) optional
提供刀片幾何客製化服務 & 早期刀片材質 (CX21NS, CX31NA, CX31NS) 可選擇

Inserts 刀片	Item No. 名稱	Grade No. 材質					Dimensions (mm) 尺寸						Drawing 圖形	Cutter Page
		CX12HS	CX22HS	CX32HS	CX43TS	CX53TS	A	B	S	r	d1	t1		
	APMT160408PDER-MG <i>M</i>		✓	✓	✓		16.5	9.525	4.76	0.8	4.4	-		IA049 ~ IA051
	APMT160416PDER-MG <i>M</i>			✓			16.5	9.525	4.76	1.6	4.4	-		
	APMT160408PDER-RG <i>M</i>		✓	✓	✓		16.5	9.525	4.76	0.8	4.4	-		
	APMT160408PDER-HG <i>M</i>		✓	✓	✓		16.5	9.525	4.76	0.8	4.4	-		
	APGT160408PDER-AL <i>M</i>	CX10 for Aluminum					16.5	9.525	4.76	0.8	4.4	-		IA049 ~ IA051
	AXMT123508PEER-RG <i>S</i>		✓	✓	✓		12.18	6.93	3.58	0.8	3.4	-		IA043 ~ IA046
	AXMT170508PEER-RG <i>S</i>			✓	✓		17.50	10.2	5.56	0.8	4.6	-		IA043 ~ IA046
	AXMT170516PEER-RG <i>S</i>			✓	✓		17.50	10.2	5.56	1.6	4.6	-		
	<i>Double Sided</i> BNMX0603-SG <i>T</i>		✓	✓	✓		9.0	6.38	3.75	-	3.2	-		IA083 ~ IA086
	<i>Double Sided</i> BNMX0603-MG <i>T</i>		✓	✓	✓		9.0	6.38	3.75	-	3.2	-		
	<i>Double Sided</i> BNMX0603-RG <i>T</i>		✓	✓	✓		9.0	6.38	3.75	-	3.2	-		
	<i>Double Sided</i> BNMX0904-MG <i>T</i>		✓	✓	✓		11.9	9.18	4.8	-	4.2	-		

*Customized geometries acceptable & previous grades(CX21NS, CX31NA, CX31NS) optional
提供刀片幾何客製化服務 & 早期刀片材質 (CX21NS, CX31NA, CX31NS) 可選擇

Inserts 刀片	Item No. 名稱	Grade No. 材質					Dimensions (mm) 尺寸						Drawing 圖形	Cutter Page
		CX12HS	CX22HS	CX32HS	CX43TS	CX53TS	A	B	S	r	d1	t1		
	CPMT090308-MG <i>H</i>			✓	✓		9.525	-	3.18	0.8	4.4	-		-
	CPMT120408-MG <i>H</i>			✓	✓		12.7	-	4.76	0.8	5.5	-		
	<i>Double Sided</i> HNMX0704-SG <i>W</i>					✓	6.8	12.7	4.45	1.2	4.9	1.4		-
	ISR145 <i>S</i>		✓	✓	✓		12	7.0	3.0	1.45	3.4	-		-
	JDMT150508R-MG <i>H</i>			✓	✓		15.1	9.12	5.0	0.8	4.5	-		IA052 ~ IA053
	JDMW120420ZDSR-RG <i>M</i>		✓	✓	✓		2.5	12.0	4.76	2.0	4.75	-		IA097 ~ IA098
	JDMW140520ZDSR-RG <i>M</i>			✓			2.8	14.0	5.56	2.0	5.75	-		
	<i>Double Sided</i> LNMX0303-SG <i>T</i>		✓	✓	✓		11.59	6.0	4.29	-	2.85	-		IA087 ~ IA090
	LNMX0303-MG <i>T</i>		✓	✓	✓		11.59	6.0	4.29	-	2.85	-		
	OFMT05T3TN-MG <i>T</i>			✓	✓		12.7	-	3.8	0.6	4.6	-		IA062 ~ IA063
	OFMT05T3TN-RG <i>T</i>			✓	✓		12.7	-	3.8	0.6	4.6	-		
	<i>Double Sided</i> ONMX0505-RG <i>W</i>		✓	✓			12.7	12.7	6.4	-	6	-		IA059 ~ IA059

*Customized geometries acceptable & previous grades(CX21NS, CX31NA, CX31NS) optional
提供刀片幾何客製化服務 & 早期刀片材質 (CX21NS, CX31NA, CX31NS) 可選擇

Insert Specifications

可轉位銑刀片規格總覽

Inserts 刀片	Item No. 名稱	Grade No. 材質						Dimensions (mm) 尺寸						Drawing 圖形	Cutter Page
		CX12HS	CX22HS	CX32HS	CX43TS	CX53TS		A	B	S	r	d1	t1		
	RDKW0501MOE S		✓	✓	✓			5	-	1.59	-	2.2	-		IA071 ~ IA072
	RDKW0702MO S		✓	✓				7	-	2.38	-	2.8	-		
	RDKW0702MOE S		✓	✓	✓			7	-	2.38	-	2.8	-		
	RDKW0702MOT S		✓	✓				7	-	2.38	-	2.8	-		
	RDMT1003MOE T		✓	✓				10	-	3.18	-	3.9	-		IA071 ~ IA073
	RDMT1003MOT T		✓	✓				10	-	3.18	-	3.9	-		
	RDMX1003MOE K		✓	✓	✓			10	-	3.18	-	4.15	-		
	RDMX1003MOT K		✓	✓	✓			10	-	3.18	-	4.15	-		
	RDMT10T3MOE H		✓	✓	✓			10	-	3.97	-	4.5	-		IA071 ~ IA073
	RDMT10T3MOT H			✓	✓			10	-	3.97	-	4.5	-		
	RDMW10T3MOE H			✓				10	-	3.97	-	4.5	-		

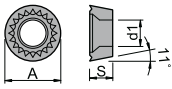
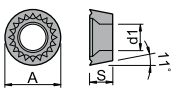
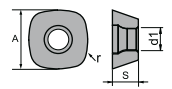
*Customized geometries acceptable & previous grades(CX21NS, CX31NA, CX31NS) optional
提供刀片幾何客製化服務 & 早期刀片材質 (CX21NS, CX31NA, CX31NS) 可選擇

Inserts 刀片	Item No. 名稱	Grade No. 材質						Dimensions (mm) 尺寸						Drawing 圖形	Cutter Page
		CX12HS	CX22HS	CX32HS	CX43TS	CX53TS		A	B	S	r	d1	t1		
	RDMT12T3MOE T			✓				12	-	3.97	-	4.1	-		-
	RDMX12T3MOE L		✓	✓	✓			12	-	3.97	-	4.1	-		
	RDMX12T3MOT L		✓	✓	✓			12	-	3.97	-	4.1	-		
	RDMT1204MOT H		✓	✓	✓			12	-	4.76	-	4.4	-		IA071
	RDMW1204MOT W		✓	✓	✓			12	-	4.76	-	4.4	-		IA073
	RDMT1604MOT H		✓	✓	✓			16	-	4.76	-	5.5	-		IA073
	RDMW1604MOT H		✓	✓	✓			16	-	4.76	-	5.5	-		
	RPMT08T2MOE M			✓	✓			8	-	2.78	-	3.2	-		IA076
	RPMT08T2MOT M			✓				8	-	2.78	-	3.2	-		
	RPMW1003MOE M		✓	✓	✓			10	-	3.18	-	4.6	-		-
	RPMW1003MOT M		✓	✓	✓			10	-	3.18	-	4.6	-		

*Customized geometries acceptable & previous grades(CX21NS, CX31NA, CX31NS) optional
提供刀片幾何客製化服務 & 早期刀片材質 (CX21NS, CX31NA, CX31NS) 可選擇

Insert Specifications

可轉位銑刀片規格總覽

Inserts 刀片	Item No. 名稱	Grade No. 材質						Dimensions (mm) 尺寸						Drawing 圖形	Cutter Page
		CX12HS	CX22HS	CX32HS	CX43TS	CX53TS		A	B	S	r	d1	t1		
	RPMT10T3MOE <i>M</i>			✓	✓			10	-	3.97	-	4.5	-		IA076
	RPMT10T3MOT <i>M</i>			✓	✓			10	-	3.97	-	4.3	-		
	RPMT1204MOE <i>M</i>		✓	✓	✓			12	-	4.76	-	4.3	-		IA076
	RPMT1204MOT <i>M</i>		✓	✓	✓			12	-	4.76	-	4.3	-		
	RPMW1204MOE <i>M</i>			✓	✓			12	-	4.76	-	4.3	-		
	RPMW1204MOT <i>M</i>			✓	✓			12	-	4.76	-	4.3	-		
	SDMT1205ZDEN-SG <i>H</i>			✓				12.7	-	5.56	15	4.6	-		IA095 ~ IA096
	SDMT1205ZDTN-MG <i>H</i>			✓	✓			12.7	-	5.56	15	4.6	-		
	SDMT1205ZDTN-RG <i>H</i>			✓	✓			12.7	-	5.56	15	4.6	-		
	SDNW1205ZDEN-MG <i>H</i>			✓				12.7	-	5.56	15	4.6	-		
	SDNW1205ZDTN-RG <i>H</i>		✓	✓	✓			12.7	-	5.56	15	4.6	-		

*Customized geometries acceptable & previous grades(CX21NS, CX31NA, CX31NS) optional
提供刀片幾何客製化服務 & 早期刀片材質 (CX21NS, CX31NA, CX31NS) 可選擇

Insert Specifications

可轉位銑刀片規格總覽

Inserts 刀片	Item No. 名稱	Grade No. 材質						Dimensions (mm) 尺寸						Drawing 圖形	Cutter Page
		CX12HS	CX22HS	CX32HS	CX43TS	CX53TS		A	B	S	r	d1	t1		
	SEMR1203AFSN-RG <i>T</i>			✓				12.7	1.6	3.18	1	2	-		-
	SEKT1204AFFN-MG <i>K</i>			✓				12.7	-	4.76	0.8	5.5	-		IA064 ~ IA065
	SEKT1204AFTN-RG <i>K</i>			✓	✓			12.7	-	4.76	0.8	5.5	-		
	SEKW1204AFFN <i>K</i>			✓				12.7	-	4.76	0.8	5.5	-		
	SEKW1204AFTN <i>K</i>			✓				12.7	-	4.76	0.8	5.5	-		
	SEET1204AFFN-AL <i>K</i>	CX10 for Aluminum						12.7	-	4.76	0.8	5.5	-		IA064 ~ IA065
	SEMT13T3AGEN-MM <i>M</i>			✓	✓			13.4	1.9	3.97	1.5	4.2	-		IA060 ~ IA061
	SEMT13T3AGSN-MG <i>M</i>		✓	✓	✓			13.4	1.9	3.97	1.5	4.2	-		
	SEMT13T3AGSN-RG <i>M</i>			✓	✓			13.4	1.9	3.97	1.5	4.2	-		
	SEMT13T3AGSN-HG <i>M(S)</i>			✓	✓			13.4	1.9	3.97	1.5	4.2	-		
	SEET13T3AGFN-AL <i>M</i>	CX10 for Aluminum						13.4	1.9	3.97	1.5	4.2	-		IA060 ~ IA061
	SNMX1205-MG <i>W</i>		✓	✓	✓			12.7	1.5	6.4	-	6	-		IA057 ~ IA059
	SNMX1205-RG <i>W</i>		✓	✓	✓			12.7	1.5	6.4	-	6	-		

***Customized geometries acceptable & previous grades(CX21NS, CX31NA, CX31NS) optional**
提供刀片幾何客製化服務 & 早期刀片材質 (CX21NS, CX31NA, CX31NS) 可選擇

Insert Specifications

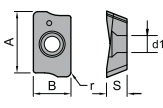
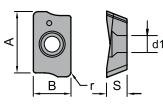
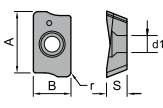
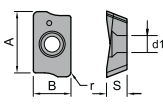
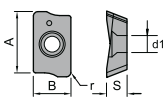
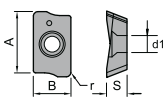
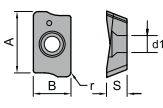
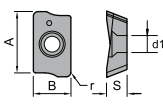
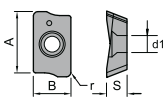
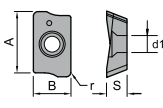
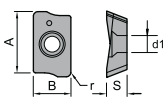
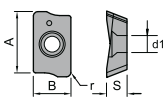
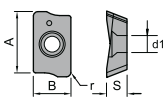
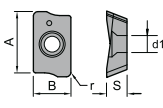
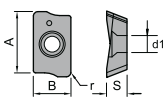
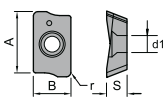
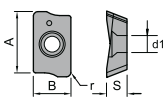
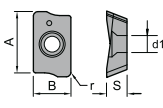
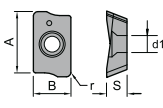
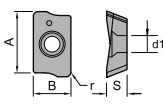
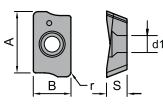
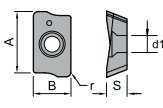
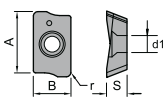
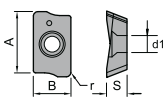
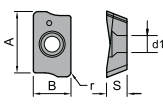
可轉位銑刀片規格總覽

Inserts 刀片	Item No. 名稱	Grade No. 材質						Dimensions (mm) 尺寸						Drawing 圖形	Cutter Page
		CX12HS	CX22HS	CX32HS	CX43TS	CX53TS		A	B	S	r	d1	t1		
	SPMG050204-MG T		✓	✓	✓			5.00	-	2.38	0.4	2.30	-		IA054 ~ IA056 IA100 ~ IA102
	SPMG060204-MG T		✓	✓	✓			6.00	-	2.38	0.4	2.65	-		
	SPMG07T308-MG T		✓	✓	✓			7.94	-	3.97	0.8	2.85	-		
	SPMG090408-MG T			✓	✓			9.80	-	4.3	0.8	4.05	-		
	SPMG090408-RG T		✓	✓	✓			9.80	-	4.3	0.8	4.05	-		
	SPMG110408-MG T			✓	✓			11.50	-	4.8	0.8	4.45	-		
	SPMG110408-RG T		✓	✓	✓			11.50	-	4.8	0.8	4.45	-		
	SPMN120308			✓				12.7	-	3.18	0.8	2	-		-
	TPKR1603PPR-RG I			✓	✓			16.5	9.525	3.1	-	2.2	1.423		-
	TPMX100408-MG T		✓	✓	✓			6.9	-	4	0.8	3	-		IA027 ~ IA030
	TPMX150508-MG T		✓	✓	✓			10.7	-	5	0.8	4.85	-		

*Customized geometries acceptable & previous grades(CX21NS, CX31NA, CX31NS) optional
提供刀片幾何客製化服務 & 早期刀片材質 (CX21NS, CX31NA, CX31NS) 可選擇

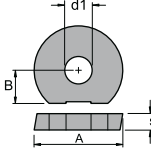
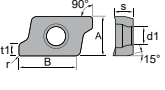
Insert Specifications

可轉位銑刀片規格總覽

Inserts 刀片	Item No. 名稱	Grade No. 材 質					Dimensions (mm) 尺 寸						Drawing 圖 形	Cutter Page
		CX12HS	CX22HS	CX32HS	CX43TS	CX53TS	A	B	S	r	d1	t1		
	W39011T308-MG S		✓	✓	✓		11	6.9	3.59	0.8	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		IA031 ~ IA034
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S		✓	✓			11	6.9	3.59	2.0	2.8	-		
	W39011T320-MG S</													

Insert Specifications

可轉位銑刀片規格總覽

Inserts 刀片	Item No. 名稱	Grade No. 材質						Dimensions (mm) 尺寸						Drawing 圖形	Cutter Page
		CX12HS	CX22HS	CX32HS	CX43TS	CX53TS		A	B	S	r	d1	t1		
	WP3212-MM W		✓					12	6	2.5	-	5	-		IA079
	WP3216-MM W		✓					16	6	3	-	5	-		
	WP3220-MM W		✓					20	6	3	-	5	-		
	WP3225-MM W		✓					25	9	4	-	6	-		
	WP3232-MM W		✓					32	10	5	-	8	-		
	WP3212-MG W		✓					12	6	2.5	-	5	-		
	WP3216-MG W		✓					16	6	3	-	5	-		
	WP3220-MG W		✓					20	6	3	-	5	-		
	WP3225-MG W		✓					25	9	4	-	6	-		
	WRT070204-RG S		✓	✓	✓			4.30	6.4	2.38	0.4	2.2	1.3		IA035 ~ IA038
	WRT100308-RG S		✓	✓	✓			6.35	9.3	3.4	0.8	2.9	1.8		

*Customized geometries acceptable & previous grades(CX21NS, CX31NA, CX31NS) optional
提供刀片幾何客製化服務 & 早期刀片材質 (CX21NS, CX31NA, CX31NS) 可選擇

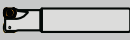
Insert Specifications

可轉位銑刀片規格總覽

Inserts 刀片	Item No. 名稱	Grade No. 材質					Dimensions (mm) 尺寸						Drawing 圖形	Cutter Page
		CX12HS	CX22HS	CX32HS	CX43TS	CX53TS	A	B	S	r	d1	t1		
	Double Sided XNMX040304-SG S		✓	✓			6.7	-	3.285	0.4	3.15	-		IA019 ~ IA022
	Double Sided XNMX040304-MG S		✓	✓			6.7	-	3.285	0.4	3.15	-		
	Double Sided XNMX040308-MG S		✓	✓	✓		6.7	-	3.285	0.8	3.15	-		
	Double Sided XNMX040308-RG S		✓	✓			6.7	-	3.285	0.8	3.15	-		
	Double Sided XNMX080608-MG S		✓	✓	✓		12.53	-	6.5	0.8	4.5	-		
	Double Sided XNMX080608-RG S			✓	✓		12.53	-	6.5	0.8	4.5	-		
	XOMT060204-MG S		✓	✓			7	4.09	2.45	0.4	2	-		IA023 ~ IA026
	XOMT060208-MG S		✓	✓			7	4.09	2.45	0.8	2	-		
	XOMT10T308-SG S					✓	11.08	6.86	3.8	0.8	3	-		

***Customized geometries acceptable & previous grades(CX21NS, CX31NA, CX31NS) optional**
提供刀片幾何客製化服務 & 早期刀片材質 (CX21NS, CX31NA, CX31NS) 可選擇

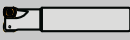
Shoulder Milling 方肩銑削

Cutter Series	Cutter Range			Inserts	Page
					
CXXN	Ø20 ~ Ø32	Ø50 ~ Ø63	Ø17 ~ Ø32	XNMX0403 (DoubleSide)	IA021 ~ IA022
	-	Ø50 ~ Ø125	-	XNMX0806 (DoubleSide)	
CAXO	Ø10 ~ Ø20	-	Ø10 ~ Ø20	XOMT0602	IA026
	Ø10 ~ Ø32	-	-	XOMT10T3	
CATP	Ø20 ~ Ø25	Ø50 ~ Ø63	Ø21 ~ Ø33	TPMX1004	IA030
	Ø33 ~ Ø40	-	-	TPMX1505	
CR39	Ø16 ~ Ø32	Ø50 ~ Ø80	Ø16 ~ Ø32	W39011T3	IA034
CART	Ø10 ~ Ø16	-	Ø10 ~ Ø13	WRT0702	IA038
	Ø17 ~ Ø26	-	Ø17 ~ Ø21	WRT1003	
CAPK	Ø16 ~ Ø32	Ø50 ~ Ø80	Ø16 ~ Ø32	APKT1003	IA041 ~ IA042
	Ø25 ~ Ø32	Ø50 ~ Ø100	Ø25 ~ Ø32	APKT1604	
CWEX	Ø16 ~ Ø32	Ø50 ~ Ø80	-	AXMT1235	IA046
	Ø25 ~ Ø32	Ø50 ~ Ø80	-	AXMT1705	
CAPM	Ø16 ~ Ø32	Ø50 ~ Ø63	-	APMT1035	IA048
CBAP	Ø16 ~ Ø32	Ø50 ~ Ø80	Ø16 ~ Ø33	APMT1135	IA050 ~ IA051
	Ø25 ~ Ø32	Ø50 ~ Ø80	Ø25 ~ Ø32	APMT1604	
CAJD	Ø25 ~ Ø32	-	-	JDMT1505	IA053
CASP	Ø12 ~ Ø32	Ø50 ~ Ø80	-	SPMG..	IA055 ~ IA056

Face Milling 平面銑削

Cutter Series	Cutter Range			Inserts	Page
					
CXSN	-	Ø50 ~ Ø100	-	SNMX1205 (DoubleSide)	IA059
	-	Ø52.9 ~ Ø102.9	-	ONMX0505 (DoubleSide)	
CASX	-	Ø50 ~ Ø100	-	SEMT13T3	IA061
CAOF	-	Ø50 ~ Ø100	-	OFMT05T3	IA063
CASE	-	Ø50 ~ Ø120	-	SEKT1204	IA065
	-			SEKW1204	

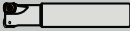
Copy Milling 仿形銑削

Cutter Series	Cutter Range			Inserts	Page
					
CARD	Ø10 ~ Ø16	-	Ø12 ~ Ø16	RDKW0501	IA071 ~ IA073
	Ø16 ~ Ø25	-	Ø16 ~ Ø25	RDKW0702	
	Ø25 ~ Ø32	Ø50 ~ Ø63	Ø25 ~ Ø42	RDMT10T3	
	Ø25 ~ Ø32	Ø50 ~ Ø63	Ø25 ~ Ø42	RDMW10T3	
	Ø32	Ø50 ~ Ø100	-	RDMT1204	
	Ø32	Ø50 ~ Ø100	-	RDMW1204	
	-	Ø63 ~ Ø100	-	RDMT1604	
	-	Ø63 ~ Ø100	-	RDMW1604	
	Ø20 ~ Ø35	Ø50 ~ Ø63	Ø20 ~ Ø30	RDMT1003	
	Ø20 ~ Ø35	Ø50 ~ Ø63	Ø20 ~ Ø30	RDMX1003	
CARP	Ø16 ~ Ø25	-	-	RPMT08T2	IA076
	Ø25 ~ Ø32	Ø50 ~ Ø63	-	RPMT10T3	
	Ø32	Ø50 ~ Ø80	-	RPMT1204	
	Ø32	Ø50 ~ Ø80	-	RPMW1204	
CF21	Ø12 ~ Ø32	-	Ø12 ~ Ø32	WP32..	IA079
CF22	-	-	Ø25 ~ Ø32	WP26339	IA080
	-	-	Ø40 ~ Ø50	WP26379	

High Feed Face Milling 高進給平面銑削

Cutter Series	Cutter Range			Inserts	Page
					
CXBN	Ø15 ~ Ø32	Ø40 ~ Ø63	Ø16 ~ Ø40	BNMX0603(DoubleSide)	IA085 ~ IA086
	Ø25 ~ Ø32	Ø50 ~ Ø80	Ø25 ~ Ø42	BNMX0904(DoubleSide)	
CXLN	Ø16 ~ Ø32	Ø50	Ø17 ~ Ø32	LNMX0303(DoubleSide)	IA089 ~ IA090
CXWN	Ø25 ~ Ø32	Ø50 ~ Ø63	-	WNMX09T3(DoubleSide)	IA094
	-	Ø63 ~ Ø80	-	WNMX1305(DoubleSide)	
CASR	-	Ø50 ~ Ø80	-	SDNW1205	IA096
	-	-	-	SDMT1205	
CAJX	Ø32	Ø50 ~ Ø80	-	JDMW1204	IA098
	-	Ø63 ~ Ø100	-	JDMW1405	

Helical Milling 玉米銑削

Cutter Series	Cutter Range			Inserts	Page
					
CSPH	Ø16 ~ Ø32	-	-	SPMG...	IA100

Disc Milling 三面刃銑削

Cutter Series	Cutter Range			Inserts	Page
					
CSPT	Ø19 ~ Ø32	-	-	SPMG...	IA101

Chamfer Milling 倒角銑削

Cutter Series	Cutter Range			Inserts	Page
					
CSPC	Ø11 ~ Ø50	-	-	SPMG...	IA102



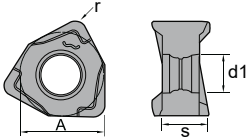
Economical solution in various end-milling applications !!!



- ***CXXN is the best solution 90° milling with the economy of 6 cutting edges while providing the highest performance.***
 - ***Available in multiple mounting tools, such as End mill, Modular and Face mill type.***
 - ***Suitable for small and large sized milling machines.***
-
- 90° 銑削的最好選擇，提供 6 個切削角並有完美的切削表現
 - 提供端銑刀桿、面銑刀盤和鎖牙式銑刀頭，讓您的切削選擇更多樣化
 - 特別適用於大中小型機台

Insert Specifications

Insert	Dimensions (mm)			
	A	S	r	d1
XNMX040304	6.7	3.285	0.4	3.15
XNMX040308	6.7	3.285	0.8	3.15
XNMX080608	12.53	6.5	0.8	4.5



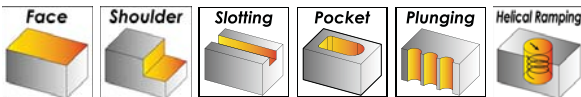
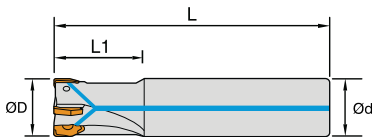
Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IXNMX040304SG22HS	XNMX040304-SG-CX22HS	●	○	●		○	●
	IXNMX040304SG32HS	XNMX040304-SG-CX32HS	●	●	●		○	○
	IXNMX040304MG22HS	XNMX040304-MG-CX22HS	●	○	●		○	●
	IXNMX040304MG32HS	XNMX040304-MG-CX32HS	●	●	●		○	○
	IXNMX040308MG22HS	XNMX040308-MG-CX22HS	●	○	●		○	●
	IXNMX040308MG32HS	XNMX040308-MG-CX32HS	●	●	●		○	○
	IXNMX040308MG43TS	XNMX040308-MG-CX43TS	●	●	●		●	
	IXNMX040308RG22HS	XNMX040308-RG-CX22HS	●	○	●		○	●
	IXNMX040308RG32HS	XNMX040308-RG-CX32HS	●	●	●		○	○
	IXNMX080608MG22HS	XNMX080608-MG-CX22HS	●	○	●		○	●
	IXNMX080608MG32HS	XNMX080608-MG-CX32HS	●	●	●		○	○
	IXNMX080608MG43TS	XNMX080608-MG-CX43TS	●	●	●		●	
	IXNMX080608RG32HS	XNMX080608-RG-CX32HS	●	●	●		○	○
	IXNMX080608RG43TS	XNMX080608-RG-CX43TS	●	●	●		●	

Recommended Cutting Conditions

Working Material	for XNMX0403			for XNMX0806		
	Vc	fz	ap	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.10 ~ 0.16	0.3 ~ 3.0	120 ~ 250	0.1 ~ 0.3	0.3 ~ 7.0
Stainless 300 Series	100 ~ 180	0.08 ~ 0.12	0.3 ~ 1.6	100 ~ 180	0.08 ~ 0.25	0.3 ~ 4.5
Cast Iron (HB140-220)	120 ~ 250	0.10 ~ 0.16	0.3 ~ 3.0	120 ~ 250	0.1 ~ 0.3	0.3 ~ 7.0
High temp. & Titanium alloy	40 ~ 100	0.08 ~ 0.12	0.3 ~ 1.5	40 ~ 100	0.08 ~ 0.18	0.3 ~ 4.0
Hardened steel	50 ~ 100	0.09 ~ 0.13	0.3 ~ 1.5	50 ~ 100	0.09 ~ 0.19	0.3 ~ 4.0

CXXNE - Milling tools

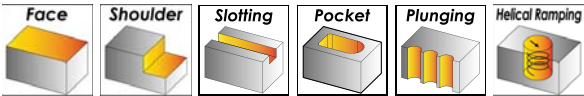
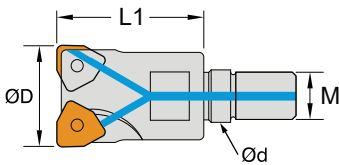


Order No. 訂購編碼	D	L1	L	d	T	Coolant Hole	Inserts	 Screw	 Wrench
ICXXNE403020150	20	40	150	20	3		XNMX0403	ITS2512	ITK08
ICXXNE403020200	20	100	200	20	3				
ICXXNE404025150	25	40	150	25	4				
ICXXNE405032200	32	45	200	32	5			ITS2512	
ICXXNE403020111	20	28	110	20	3	●			
ICXXNE404025121	25	28	120	25	4	●			
ICXXNE405032131	32	30	130	30	5	●			

Customize available.

Indexable Milling Tools

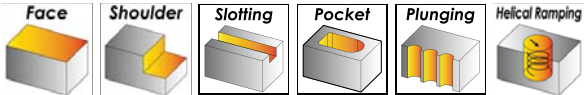
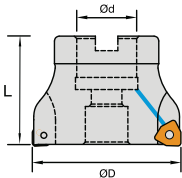
CXXNM - Modular tools



Order No. 訂購編碼	D	L1	d	M	T	Coolant Hole	Inserts	Screw	Wrench
ICXXNM402017081	17	26	8.5	M08	2	●	XNMX0403	ITS2512	ITK08
ICXXNM403021101	21	32	10.5	M10	3	●			
ICXXNM404026121	26	38	12.5	M12	4	●			
ICXXNM404032160	32	41	17	M16	4				

Customize available.

CXXNF - Milling tools



Order No. 訂購編碼	D	L	d	T	Coolant Hole	Inserts	Screw	Wrench
ICXXNF406050220	50	50	22	6		XNMX0403	ITS2512	ITK08
ICXXNF407063220	63	50	22	7				
ICXXNF407063250	63	50	25.4	7				
ICXXNF407040161	40	40	16	7	●			
ICXXNF409050221	50	40	22	9	●			
ICXXNF805050221	50	40	22	5	●	XNMX0806	ITS4006	ITK15
ICXXNF806063221	63	40	22	6	●			
ICXXNF807080271	80	50	27	7	●			
ICXXNF811100321	100	50	32	11	●			
ICXXNF811125401	125	63	40	11	●			

Customize available.



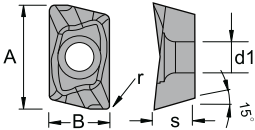
Mini Size Cutter for Wider Applications !

- ***Ø10 cutter with 2 teeth, Ø12 cutter with 3 teeth, Ø16 cutter with 4 teeth and Ø20 cutter with 5 teeth.***
- ***Replace solid end mill with better cost saving.***
- ***Offering excellent tool life and precision on small to medium size work pieces.***
- ***Cutter and modular head ensure better flexibility.***

- Ø10 刀桿 2 刃、Ø12 刀桿 3 刃、Ø16 刀桿 4 刃及 Ø20 刀桿 5 刃
- 小徑多刃取代整體式立銑刀，給您更經濟實惠的選擇
- 為小尺寸加工提供更好的刀具壽命
- 刀桿和鎖牙式刀頭靈活運用

Insert Specifications

Insert	Dimensions (mm)				
	A	B	S	r	d1
XOMT060204	7	4.09	2.45	0.4	2
XOMT060208	7	4.09	2.45	0.8	2
XOMT10T308	11.08	6.86	3.8	0.8	3



Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IXOMT060204MG22HS	XOMT060204-MG-CX22HS	●	○	●		○	●
	IXOMT060204MG32HS	XOMT060204-MG-CX32HS	●	●	●		○	○
	IXOMT060208MG22HS	XOMT060208-MG-CX22HS	●	○	●		○	●
	IXOMT060208MG32HS	XOMT060208-MG-CX32HS	●	●	●		○	○
	IXOMT10T308SG53TS	XOMT10T308-SG-CX53TS	●	●			●	

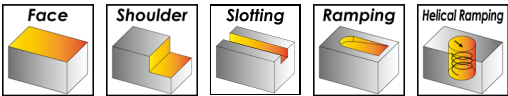
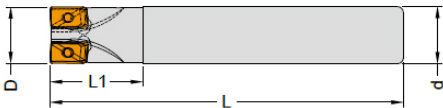
Recommended Cutting Conditions
for XOMT0602

Working Material	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.08 ~ 0.20	0.3 ~ 3.0
Stainless 300 Series	100 ~ 180	0.05 ~ 0.15	0.3 ~ 2.5
Cast Iron (HB140-220)	120 ~ 250	0.08 ~ 0.13	0.3 ~ 3.0
High temp. & Titanium alloy	40 ~ 100	0.05 ~ 0.12	0.3 ~ 2.5
Hardened steel	50 ~ 100	0.05 ~ 0.13	0.3 ~ 2.5

for XOMT10T3

Working Material	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.10 ~ 0.22	0.3 ~ 7.0
Stainless 300 Series	100 ~ 180	0.08 ~ 0.18	0.3 ~ 4.0
Cast Iron (HB140-220)	120 ~ 250	0.10 ~ 0.22	0.3 ~ 7.0
High temp. & Titanium alloy	40 ~ 100	0.07 ~ 0.14	0.3 ~ 5.0
Hardened steel	50 ~ 100	0.07 ~ 0.15	0.3 ~ 5.0

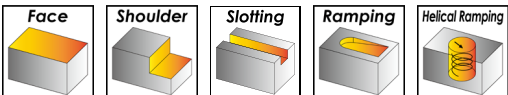
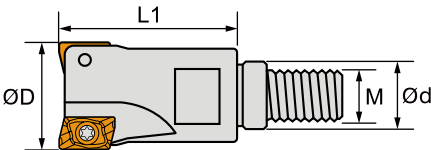
CAXOE - Milling tools



Order No. 訂購編碼	D	L1	L	d	T	Inserts	Screw	Wrench
ICAXOE602010100	10	20	100	10	2	XOMT0602	ITS1801	ITK06
ICAXOE603012100	12	20	100	12	3			
ICAXOE604016100	16	30	100	16	4			
ICAXOE605020120	20	30	120	20	5			
ICAXOE102016150	16	22	150	16	2	XOMT10T3	ITS2515	ITK08
ICAXOE102020150	20	28	150	20	2			
ICAXOE104025150	25	35	150	25	4			
ICAXOE105032150	32	40	150	32	5			

Customize available.

CAXOM - Modular tools



Order No. 訂購編碼	D	L1	d	M	T	Inserts	Screw	Wrench
ICAXOM602010050	10	16	5.5	M5	2	XOMT0602	ITS1801	ITK06
ICAXOM603012060	12	18	6.5	M6	3			
ICAXOM604016080	16	20	8.5	M8	4			
ICAXOM605020100	20	30	10.5	M10	5			

Customize available.



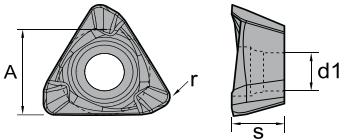
Innovative & Economical milling with 3 cutting edges !

- *Ensures productive milling of true 90° machining.*
- *Provide an improved low cost per cutting edge for various milling applications.*
- *Low cutting force and excellent chip evacuation.*
- *More economical compare to AP inserts.*

- 高效能的正 90 度銑削
- 為各種銑削應用而進化的低成本切削角
- 低切削阻力以及完美的排屑
- 與 AP 系列刀片相比，更為經濟

Insert Specifications

Insert	Dimensions (mm)			
	A	S	r	d1
TPMX100408	6.9	4	0.8	3
TPMX150508	10.7	5	0.8	4.85



Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	ITPMX100408MG22HS	TPMX100408-MG-CX22HS	●	○	●		○	●
	ITPMX100408MG32HS	TPMX100408-MG-CX32HS	●	●	●		○	○
	ITPMX100408MG43TS	TPMX100408-MG-CX43TS	●	●	●		●	
	ITPMX150508MG22HS	TPMX150508-MG-CX22HS	●	○	●		○	●
	ITPMX150508MG32HS	TPMX150508-MG-CX32HS	●	●	●		○	○
	ITPMX150508MG43TS	TPMX150508-MG-CX43TS	●	●	●		●	

Recommended Cutting Conditions

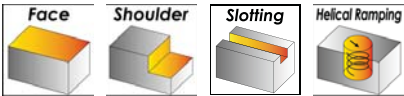
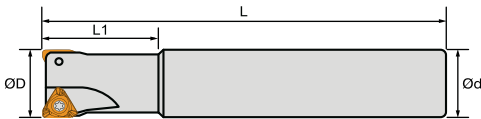
for TPMX1004

Working Material	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.08 ~ 0.20	0.3 ~ 7.0
Stainless 300 Series	100 ~ 180	0.05 ~ 0.15	0.3 ~ 4.0
Cast Iron (HB140-220)	120 ~ 250	0.08 ~ 0.20	0.3 ~ 6.0
High temp. & Titanium alloy	40 ~ 100	0.05 ~ 0.12	0.3 ~ 4.0
Hardened steel	50 ~ 100	0.05 ~ 0.13	0.3 ~ 4.0

for TPMX1505

Working Material	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.12 ~ 0.28	0.5 ~ 11.0
Stainless 300 Series	100 ~ 180	0.10 ~ 0.22	0.5 ~ 7.0
Cast Iron (HB140-220)	120 ~ 250	0.12 ~ 0.28	0.5 ~ 10.0
High temp. & Titanium alloy	40 ~ 100	0.10 ~ 0.18	0.5 ~ 7.0
Hardened steel	50 ~ 100	0.10 ~ 0.20	0.5 ~ 7.0

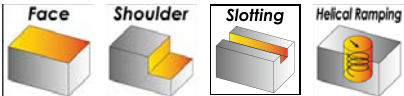
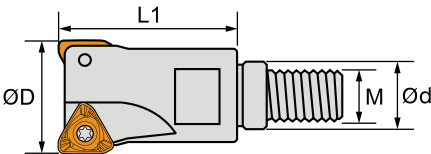
CATPE - Milling tools



Order No. 訂購編碼	D	L1	L	d	T	Inserts	Screw	Wrench
ICATPE102020130	20	50	130	20	2	TPMX1004	ITS2517	ITK08
ICATPE103025150	25	55	150	25	3			
ICATPE503033200	33	45	200	32	3	TPMX1505	ITS4014	ITK15
ICATPE504040200	40	45	200	32	4			

Customize available.

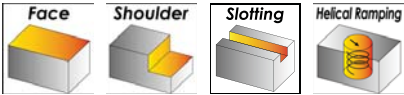
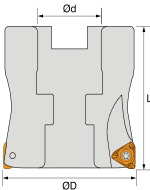
CATPM - Modular tools



Order No. 訂購編碼	D	L1	d	M	T	Inserts	Screw	Wrench
ICATPM102021100	21	35	18	M10	2	TPMX1004	ITS2517	ITK08
ICATPM103026120	26	35	21	M12	3			
ICATPM105033160	33	43	29	M16	5			

Customize available.

CATPF - Milling tools



Order No. 訂購編碼	D	L	d	T	Inserts	Screw	Wrench
ICATPF107050220	50	50	22	7	TPMX1004	ITS2517	ITK08
ICATPF109063220	63	50	22	9			

Customize available.



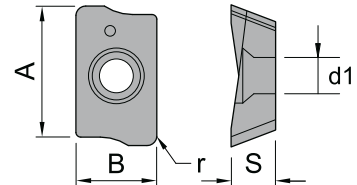
***Versatile concept suitable for
various applications !***

- ***Specially designed for productive milling at high temperature alloys.***
- ***Finishing and roughing capability in a wide range of operations and materials.***
- ***High removal rates can be achieved even at smaller low powered machines.***

- 專為高速加工時的高效率銑削而設計
- 廣泛的銑削操作和加工難切削材料應用
- 即使在低功率機器上也可以實現高移除率

Insert Specifications

Insert	Dimensions (mm)				
	A	B	S	r	d1
W39011T308	11	6.9	3.59	0.8	2.8
W39011T320	11	6.9	3.59	2.0	2.8



Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IW39011T308MG22HS	W39011T308-MG-CX22HS	●	○	●		○	●
	IW39011T308MG32HS	W39011T308-MG-CX32HS	●	●	●		○	○
	IW39011T308MG43TS	W39011T308-MG-CX43TS	●	●	●		●	
	IW39011T320MG22HS	W39011T320-MG-CX22HS	●	○	●		○	●
	IW39011T320MG32HS	W39011T320-MG-CX32HS	●	●	●		○	○

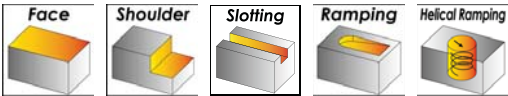
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 200	0.10 ~ 0.22	0.5 ~ 7.0
Stainless 300 Series	70 ~ 150	0.08 ~ 0.18	0.5 ~ 4.0
Cast Iron (HB140-220)	120 ~ 220	0.10 ~ 0.22	0.5 ~ 6.0
High temp. & Titanium alloy	40 ~ 80	0.07 ~ 0.14	0.5 ~ 4.0
Hardened steel	50 ~ 100	0.07 ~ 0.15	0.5 ~ 4.0

Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.10 ~ 0.22	0.3 ~ 7.0
Stainless 300 Series	100 ~ 180	0.08 ~ 0.18	0.3 ~ 4.0
Cast Iron (HB140-220)	120 ~ 250	0.10 ~ 0.22	0.3 ~ 6.0
High temp. & Titanium alloy	40 ~ 100	0.07 ~ 0.14	0.3 ~ 4.0
Hardened steel	50 ~ 100	0.07 ~ 0.15	0.3 ~ 4.0

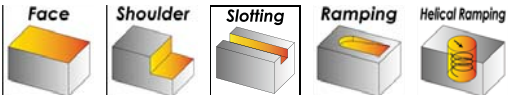
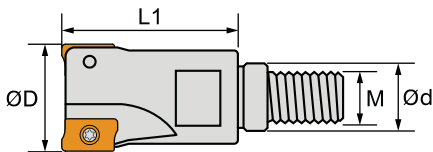
CR39E - Milling tools



Order No. 訂購編碼	D	L1	L	d	T	Inserts	Screw	Wrench
ICR39E302016150	16	30	150	16	2	W39011T3	ITS2515	ITK08
ICR39E303025150	25	30	150	25	3			
ICR39E303032150	32	35	150	32	3			

Customize available.

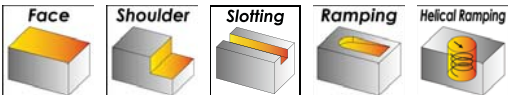
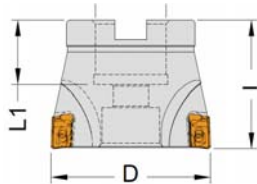
CR39M - Modular tools



Order No. 訂購編碼	D	L1	d	M	T	Inserts	Screw	Wrench
ICR39M302016080	16	26	8.5	M8	2	W39011T3	ITS2515	ITK08
ICR39M303020100	20	32	10.5	M10	3			
ICR39M303025120	25	38	12.5	M12	3			
ICR39M303032160	32	41	17	M16	3			

Customize available.

CR39F - Milling tools



Order No. 訂購編碼	D	L	d	T	Inserts	Screw	Wrench
ICR39F304050220	50	40	22	4	W39011T3	ITS2515	ITK08
ICR39F305063220	63	40	22	5			
ICR39F308080270	80	50	27	8			

Customize available.



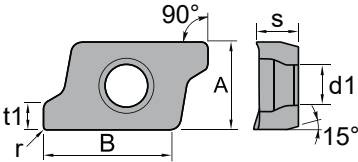
Suitable for small power machine !

- ***Ø10,Ø11,Ø12,Ø13 cutter with 2 teeth and Ø16,Ø20,Ø21 cutter with 3 teeth.***
- ***Strong Pocket design with excellent chip evacuation.***
- ***Extreme well ramping and slotting capabilities.***
- ***Unique geometry designed for low cutting force.***

- Ø10、Ø11、Ø12、Ø13 刀桿 2 刃及 Ø16、Ø20、Ø21 刀桿 3 刃
- 低切削阻力，給您低主軸的負荷，且不傷機台
- 小徑取代整體式立銑刀，給您更經濟實惠的選擇
- 適用於中加工到中精加工
- 特殊的幾何設計適用於螺旋下刀、斜向進刀和大伸出長的加工

Insert Specifications

Insert	Dimensions (mm)				
	A	B	S	r	d1
WRT070204	4.30	6.4	2.38	0.4	2.2
WRT100308	6.35	9.3	3.4	0.8	2.9



Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IWRT070204RG22HS	WRT070204-RG-CX22HS	●	○	●		○	●
	IWRT070204RG32HS	WRT070204-RG-CX32HS	●	●	●		○	○
	IWRT070204RG43TS	WRT070204-RG-CX43TS	●	●	●		●	
	IWRT100308RG22HS	WRT100308-RG-CX22HS	●	○	●		○	●
	IWRT100308RG32HS	WRT100308-RG-CX32HS	●	●	●		○	○
	IWRT100308RG43TS	WRT100308-RG-CX43TS	●	●	●		●	

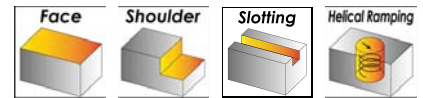
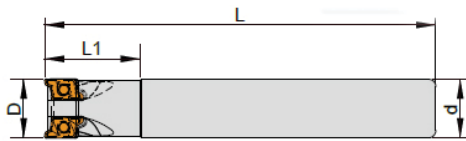
Recommended Cutting Conditions
for WRT0702

Working Material	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.08 ~ 0.20	0.3 ~ 5.0
Stainless 300 Series	100 ~ 180	0.05 ~ 0.15	0.3 ~ 3.0
Cast Iron (HB140-220)	120 ~ 250	0.08 ~ 0.20	0.3 ~ 4.0
High temp. & Titanium alloy	40 ~ 100	0.05 ~ 0.12	0.3 ~ 3.0
Hardened steel	50 ~ 100	0.05 ~ 0.13	0.3 ~ 3.0

for WRT1003

Working Material	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.10 ~ 0.22	0.5 ~ 7.0
Stainless 300 Series	100 ~ 180	0.08 ~ 0.18	0.5 ~ 4.0
Cast Iron (HB140-220)	120 ~ 250	0.10 ~ 0.22	0.5 ~ 6.0
High temp. & Titanium alloy	40 ~ 100	0.07 ~ 0.14	0.5 ~ 4.0
Hardened steel	50 ~ 100	0.07 ~ 0.15	0.5 ~ 4.0

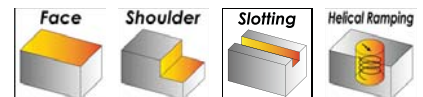
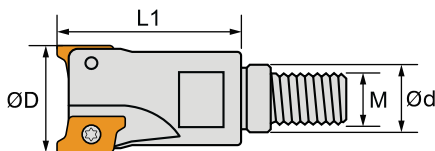
CARTE - Milling tools



Order No. 訂購編碼	D	L1	L	d	T	Inserts	Screw	Wrench
ICARTE702010100	10	18	100	10	2	WRT0702	ITS2003	ITK06
ICARTE702011100	11	18	100	10	2			
ICARTE702013100	13	20	100	12	2			
ICARTE703016150	16	30	150	16	3			
ICARTE102017150	17	30	150	16	2	WRT1003	ITS2515	ITK08
ICARTE103021150	21	30	150	20	3			
ICARTE104026150	26	40	150	25	4			

Customize available.

CARTM - Modular tools



Order No. 訂購編碼	D	L1	M	d	T	Inserts	Screw	Wrench
ICARTM702010050	10	18	M5	5.5	2	WRT0702	ITS2003	ITK06
ICARTM702011050	11	18	M5	5.5	2			
ICARTM702012060	12	20	M6	6.5	2			
ICARTM702013060	13	20	M6	6.5	2			
ICARTM103017080	17	30	M8	8.5	3	WRT1003	ITS2515	ITK08
ICARTM103021100	21	32	M10	10.5	3			

Customize available.



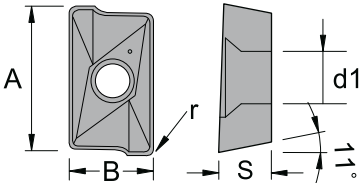
***Versatile concept suitable for
various applications !***

- ***Enhancement chip breaker design for longer tool life.***
- ***Offering better cost efficiency on medium to large work pieces.***
- ***Medium to large sized cutter for shoulder milling and face milling available.***

- 強壯的刀口設計提供更好的刀具壽命
- 為大尺寸工件加工提供更好的經濟性
- 大尺寸刀桿與刀盤可供選擇

Insert Specifications

Insert	Dimensions (mm)				
	A	B	S	r	d1
APKT100304	10.5	6.7	3.5	0.4	2.8
APKT100308	10.5	6.7	3.5	0.8	2.8
APET160402	16.3	9.525	5.25	0.2	4.5
APKT160408	16.3	9.525	5.25	0.8	4.5
APKT170516	18.5	10.7	5.56	1.6	4.5



Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IAPKT100304EMG22HS	APKT100304PDER-MG-CX22HS	●	○	●		○	●
	IAPKT100304EMG32HS	APKT100304PDER-MG-CX32HS	●	●	●		○	○
	IAPKT100304EMG43TS	APKT100304PDER-MG-CX43TS	●	●	●		●	
	IAPMT100308EMG22HS	APMT100308PDER-MG-CX22HS	●	○	●		○	●
	IAPMT100308EMG32HS	APMT100308PDER-MG-CX32HS	●	●	●		○	○
	IAPKT100304ERG32HS	APKT100304PDER-RG-CX32HS	●	●	●		○	○
	IAPKT160408EMG22HS	APKT160408PDER-MG-CX22HS	●	○	●		○	●
	IAPKT160408EMG32HS	APKT160408PDER-MG-CX32HS	●	●	●		○	○
	IAPKT160408EMG43TS	APKT160408PDER-MG-CX43TS	●	●	●		●	
	IAPKT160408ERG22HS	APKT160408PDER-RG-CX22HS	●	○	●		○	●
	IAPKT160408ERG32HS	APKT160408PDER-RG-CX32HS	●	●	●		○	○
	IAPKT160408ERG43TS	APKT160408PDER-RG-CX43TS	●	●	●		●	
	IAPET160402FAL 10	APET160402PDFR-AL-CX10				●		
	IAPKT170516ERG22HS	APKT170516PEER-RG-CX22HS	●	○	●		○	●
	IAPKT170516ERG32HS	APKT170516PEER-RG-CX32HS	●	●	●		○	○

Recommended Cutting Conditions

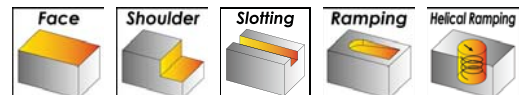
for APKT1003

Working Material	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.10 ~ 0.22	0.3 ~ 7.0
Stainless 300 Series	100 ~ 180	0.08 ~ 0.18	0.3 ~ 4.0
Cast Iron (HB140-220)	120 ~ 250	0.10 ~ 0.22	0.3 ~ 6.0
High temp. & Titanium alloy	40 ~ 100	0.07 ~ 0.14	0.3 ~ 4.0
Hardened steel	50 ~ 100	0.07 ~ 0.15	0.3 ~ 4.0

for APKT1604

Working Material	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.12 ~ 0.28	0.5 ~ 11.0
Stainless 300 Series	100 ~ 180	0.10 ~ 0.22	0.5 ~ 7.0
Cast Iron (HB140-220)	120 ~ 250	0.12 ~ 0.28	0.5 ~ 10.0
Aluminum alloy	300 ~ 1000	0.10 ~ 0.40	0.5 ~ 11.0
High temp. & Titanium alloy	40 ~ 100	0.10 ~ 0.18	0.5 ~ 7.0
Hardened steel	50 ~ 100	0.10 ~ 0.20	0.5 ~ 7.0

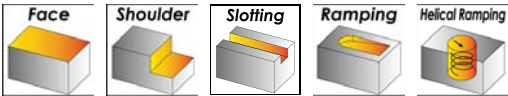
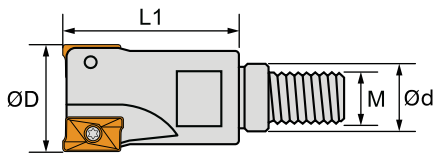
CAPKE - Milling tools



Order No. 訂購編碼	D	L1	L	d	T	Inserts	Screw	Wrench
ICAPKE302016120	16	25	120	16	2	APKT1003	ITS2507	ITK08
ICAPKE302020120	20	30	120	20	2			
ICAPKE304025150	25	35	150	25	4			
ICAPKE305032150	32	35	150	32	5			
ICAPKE402025150	25	40	150	25	2	APKT1604	ITS4005	ITK15
ICAPKE402032150	32	45	150	32	2			

Customize available.

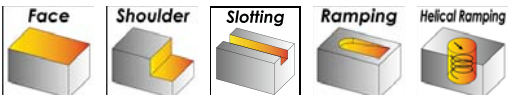
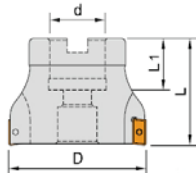
CAPKM - Modular tools



Order No. 訂購編碼	D	L1	d	M	T	Inserts	 Screw	 Wrench
ICAPKM302016080	16	26	8.5	M8	2	APKT1003	ITS2504	ITK08
ICAPKM303020100	20	32	10.5	M10	3			
ICAPKM304025120	25	38	12.5	M12	4			
ICAPKM305032160	32	41	17	M16	5			
ICAPKM402025120	25	38	12.5	M12	2	APKT1604	ITS4004	ITK15
ICAPKM403032160	32	41	17	M16	3			

Customize available.

CAPKF - Milling tools



Order No. 訂購編碼	D	L1	L	d	T	Inserts	 Screw	 Wrench
ICAPKF306050220	50	20	40	22	6	APKT1003	ITS2507	ITK08
ICAPKF306063220	63	21	45	22	6			
ICAPKF307080270	80	23	50	27	7			
ICAPKF404050220	50	23	50	22	4	APKT1604	ITS4005	ITK15
ICAPKF405063220	63	23	50	22	5			
ICAPKF406080270	80	32	55	27	6			
ICAPKF408100320	100	32	55	32	8			

Customize available.

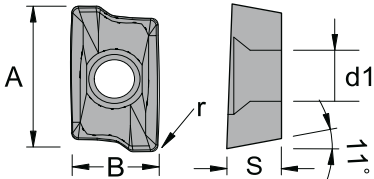


Shoulder Milling with high efficiency and high removal rates !

- ***Shoulder milling with strong cutting edges for high feed rate capabilities.***
 - ***High efficiency and productive machining can be achieved due to optimize cutting edge geometry and high rigidity body.***
-
- 強化切削刃的方肩銑削，可實現高進給速率
 - 優化的切削刃幾何形狀和高剛性刀桿，可以實現高效率和高效加工

Insert Specifications

Insert	Dimensions (mm)			
	A	S	r	d1
AXMT123508	12.18	3.58	0.8	3.4
AXMT170508	17.50	5.56	0.8	4.6
AXMT170516	17.50	5.56	1.6	4.6



Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IAXMT123508ERG22HS	AXMT123508PEER-RG-CX22HS	●	○	●		○	●
	IAXMT123508ERG32HS	AXMT123508PEER-RG-CX32HS	●	●	●		○	○
	IAXMT123508ERG43TS	AXMT123508PEER-RG-CX43TS	●	●	●		●	
	IAXMT170508ERG32HS	AXMT170508PEER-RG-CX32HS	●	●	●		○	○
	IAXMT170508ERG43TS	AXMT170508PEER-RG-CX43TS	●	●	●		●	
	IAXMT170516ERG32HS	AXMT170516PEER-RG-CX32HS	●	●	●		○	○
	IAXMT170516ERG43TS	AXMT170516PEER-RG-CX43TS	●	●	●		●	

Recommended Cutting Conditions

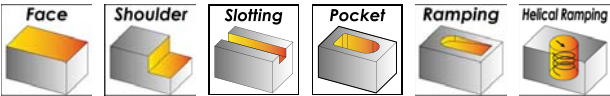
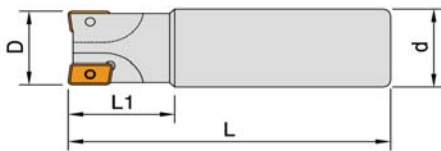
for AXMT1235

Working Material	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.10 ~ 0.22	0.3 ~ 7.0
Stainless 300 Series	100 ~ 180	0.08 ~ 0.18	0.3 ~ 4.0
Cast Iron (HB140-220)	120 ~ 250	0.10 ~ 0.22	0.3 ~ 6.0
High temp. & Titanium alloy	40 ~ 100	0.07 ~ 0.14	0.3 ~ 4.0
Hardened steel	50 ~ 100	0.07 ~ 0.15	0.3 ~ 4.0

for AXMT1705

Working Material	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.12 ~ 0.28	0.5 ~ 11.0
Stainless 300 Series	100 ~ 180	0.10 ~ 0.22	0.5 ~ 7.0
Cast Iron (HB140-220)	120 ~ 250	0.12 ~ 0.28	0.5 ~ 10.0
High temp. & Titanium alloy	40 ~ 100	0.10 ~ 0.18	0.5 ~ 7.0
Hardened steel	50 ~ 100	0.10 ~ 0.20	0.5 ~ 7.0

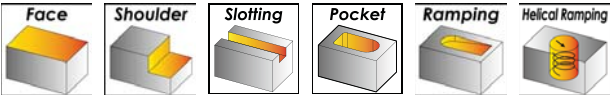
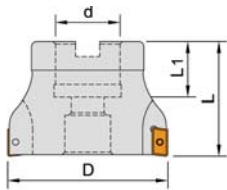
CWEXE - Milling tools



Order No. 訂購編碼	D	L1	L	d	T	Inserts	Screw	Wrench
ICWEXE202016120	16	35	120	16	2	AXMT1235	ITS3002	ITK09
ICWEXE203020120	20	40	120	20	3			
ICWEXE204025150	25	45	150	25	4			
ICWEXE205032150	32	45	150	32	5			
ICWEXE702025150	25	40	150	25	2	AXMT1705	ITS4004	ITK15
ICWEXE703032150	32	45	150	32	3			

Customize available.

CWEXF - Milling tools

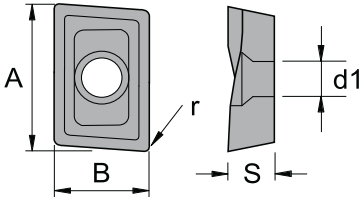


Order No. 訂購編碼	D	L1	L	d	T	Inserts	Screw	Wrench
ICWEXF206050220	50	20	45	22	6	AXMT1235	ITS3002	ITK09
ICWEXF207063220	63	20	45	22	7			
ICWEXF208080270	80	26	50	27	8			
ICWEXF704050220	50	20	45	22	4	AXMT1705	ITS4004	ITK15
ICWEXF705063220	63	20	45	22	5			
ICWEXF707080270	80	26	50	27	7			

Customize available.

Insert Specifications

Insert	Dimensions (mm)				
	A	B	S	r	d1
APMT103508	10.64	6.5	3.5	0.8	3



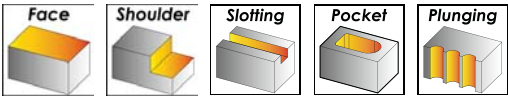
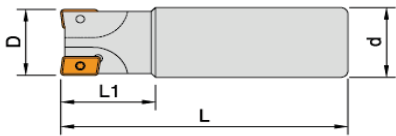
Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IAPMT103508ERG22HS	APMT103508PDER-RG-CX22HS	●	○	●		○	●
	IAPMT103508ERG32HS	APMT103508PDER-RG-CX32HS	●	●	●		○	○
	IAPMT103508ERG43TS	APMT103508PDER-RG-CX43TS	●	●	●		●	

Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.10 ~ 0.20	0.3 ~ 7.0
Stainless 300 Series	100 ~ 180	0.08 ~ 0.15	0.3 ~ 4.0
Cast Iron (HB140-220)	120 ~ 250	0.10 ~ 0.20	0.3 ~ 6.0
High temp. & Titanium alloy	40 ~ 100	0.07 ~ 0.13	0.3 ~ 4.0
Hardened steel	50 ~ 100	0.07 ~ 0.13	0.3 ~ 4.0

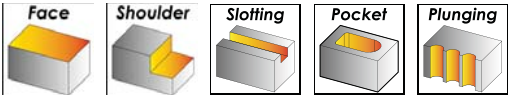
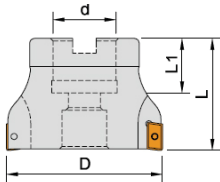
CAPME - Milling tools



Order No. 訂購編碼	D	L1	L	d	T	Inserts	 Screw	 Wrench
ICAPME102016120	16	25	120	16	2	APMT1035	ITS2502	ITK08
ICAPME103020120	20	30	120	20	3			
ICAPME104025150	25	35	150	25	4		ITS2507	
ICAPME105032150	32	45	150	32	5			

Customize available.

CAPMF - Milling tools

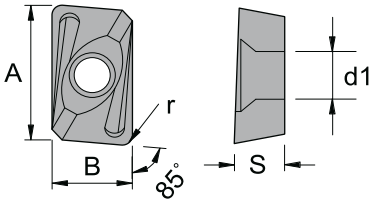


Order No. 訂購編碼	D	L	L1	d	T	Inserts	Screw	Wrench
ICAPMF106050220	50	45	20	22	6	APMT1035	ITS2507	ITK08
ICAPMF106050250	50	45	20	25.4	6			
ICAPMF106063220	63	45	20	22	6			
ICAPMF106063250	63	45	20	25.4	6			

Customize available.

Insert Specifications

Insert	Dimensions (mm)				
	A	B	S	r	d1
APMT113508	11.0	6.35	3.5	0.8	2.8
APMT113516	11.0	6.35	3.5	1.6	2.8
APMT160408	16.5	9.525	4.76	0.8	4.4
APMT160416	16.5	9.525	4.76	1.6	4.4
APGT160408	16.5	9.525	4.76	0.8	4.4



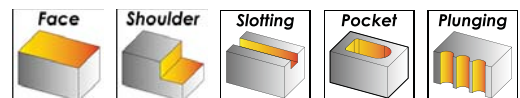
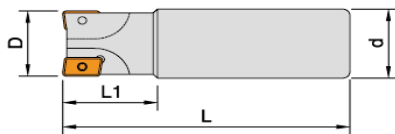
Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IAPMT113508EMG22HS	APMT113508PDER-MG-CX22HS	●	○	●		○	●
	IAPMT113508EMG32HS	APMT113508PDER-MG-CX32HS	●	●	●		○	○
	IAPMT113508EMG43TS	APMT113508PDER-MG-CX43TS	●	●	●		●	
	IAPMT113516EMG22HS	APMT113516PDER-MG-CX22HS	●	○	●		○	●
	IAPMT113516EMG32HS	APMT113516PDER-MG-CX32HS	●	●	●		○	○
	IAPMT113508ERG22HS	APMT113508PDER-RG-CX22HS	●	○	●		○	●
	IAPMT113508ERG32HS	APMT113508PDER-RG-CX32HS	●	●	●		○	○
	IAPMT113508ERG43TS	APMT113508PDER-RG-CX43TS	●	●	●		●	
	IAPMT113508EHG32HS	APMT113508PDER-HG-CX32HS	●	●	●		○	○
	IAPMT113508EHG43TS	APMT113508PDER-HG-CX43TS						
	IAPMT160408EMG22HS	APMT160408PDER-MG-CX22HS	●	○	●		○	●
	IAPMT160408EMG32HS	APMT160408PDER-MG-CX32HS	●	●	●		○	○
	IAPMT160408EMG43TS	APMT160408PDER-MG-CX43TS	●	●	●		●	
	IAPMT160416EMG32HS	APMT160416PDER-MG-CX32HS	●	●	●		○	○
	IAPMT160408ERG22HS	APMT160408PDER-RG-CX22HS	●	○	●		○	●
	IAPMT160408ERG32HS	APMT160408PDER-RG-CX32HS	●	●	●		○	○
	IAPMT160408ERG43TS	APMT160408PDER-RG-CX43TS	●	●	●		●	
	IAPMT160408EHG22HS	APMT160408PDER-HG-CX22HS	●	○	●		○	●
	IAPMT160408EHG32HS	APMT160408PDER-HG-CX32HS	●	●	●		○	○
	IAPMT160408EHG43TS	APMT160408PDER-HG-CX43TS	●	●	●		●	
	IAPGT160408EAL10	APGT160408PDER-AL-CX10				●		

Recommended Cutting Conditions

Working Material	for APMT1135			for APMT1604		
	Vc	fz	ap	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.10 ~ 0.22	0.5 ~ 7.0	120 ~ 250	0.12 ~ 0.28	0.5 ~ 11.0
Stainless 300 Series	100 ~ 180	0.08 ~ 0.18	0.5 ~ 4.0	100 ~ 180	0.10 ~ 0.22	0.5 ~ 7.0
Cast Iron (HB140-220)	120 ~ 250	0.10 ~ 0.22	0.5 ~ 6.0	120 ~ 250	0.12 ~ 0.28	0.5 ~ 11.0
Aluminum alloy	-	-	-	300 ~ 1000	0.10 ~ 0.40	0.5 ~ 11.0
High temp. & Titanium alloy	40 ~ 100	0.07 ~ 0.14	0.5 ~ 4.0	40 ~ 100	0.10 ~ 0.22	0.5 ~ 7.0
Hardened steel	50 ~ 100	0.07 ~ 0.15	0.5 ~ 4.0	50 ~ 100	0.10 ~ 0.22	0.5 ~ 7.0

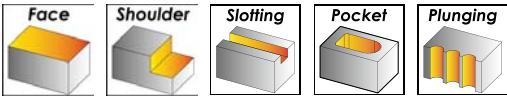
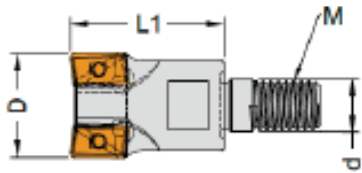
CBAPE - Milling tools



Order No. 訂購編碼	D	L1	L	d	T	Inserts	Screw	Wrench
ICBAPE302016100	16	25	100	16	2	APMT1135	ITS2515	ITK08
ICBAPE302016160	16	35	160	16	2			
ICBAPE302020150	20	35	150	20	2			
ICBAPE303020100	20	30	100	20	3			
ICBAPE303020150	20	35	150	20	3			
ICBAPE304025100	25	35	100	25	4			
ICBAPE304030120	30	40	120	25	4			
ICBAPE305032120	32	40	120	32	5	APMT1604 or APGT1604	ITS4023	ITK15
ICBAPE402025150	25	40	150	25	2			
ICBAPE402025200	25	70	200	25	2			
ICBAPE402030150	30	40	150	25	2			
ICBAPE402030200	30	50	200	25	2			
ICBAPE403032150	32	45	150	32	3			
ICBAPE403032200	32	80	200	32	3			

Customize available.

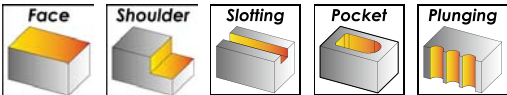
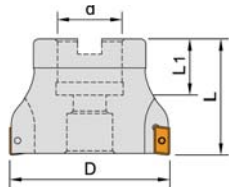
CBAPM - Modular tools



Order No. 訂購編碼	D	L1	d	M	T	Inserts	Screw	Wrench
ICBAPM302016080	16	26	8.5	M8	2	APMT1135	ITS2515	ITK08
ICBAPM302020100	20	30	10.5	M10	2			
ICBAPM303020100	20	30	10.5	M10	3			
ICBAPM304025120	25	35	12.5	M12	4			
ICBAPM305032160	32	40	17	M16	5			
ICBAPM305033160	33	40	17	M16	5			
ICBAPM402025120	25	35	12.5	M12	2	APMT1604 or APGT1604	ITS4023	ITK15
ICBAPM402032160	32	40	17	M16	3			

Customize available.

CBAPF - Milling tools

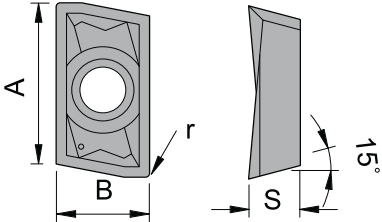


Order No. 訂購編碼	D	L1	L	d	T	Inserts	Screw	Wrench
ICBAPF306050250	50	45	18	25.4	6	APMT1135	ITS2515	ITK08
ICBAPF307063220	63	45	22	22	7			
ICBAPF307063254	63	45	22	25.4	7			
ICBAPF308063250	80	50	26	25.4	8			
ICBAPF308063270	80	50	26	27	8			
ICBAPF405050220	50	45	22	22	5	APMT1604 or APGT1604	ITS4023	ITK15
ICBAPF405050250	50	45	18	25.4	5			
ICBAPF406063220	63	45	22	22	6			
ICBAPF406063250	63	45	22	25.4	6			
ICBAPF407080250	80	50	26	25.4	7			
ICBAPF407080270	80	50	26	27	7			

Customize available.

Insert Specifications

Insert	Dimensions (mm)				
	A	B	S	r	d1
JDMT150508	15.1	9.12	5.0	0.8	4.5



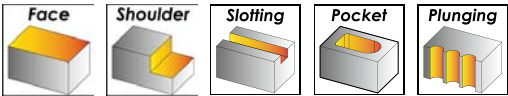
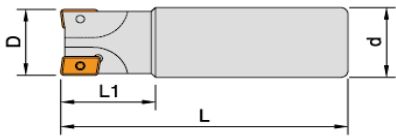
Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IJDMT150508RMG32HS	JDMT150508R-MG-CX32HS	●	●	●		○	○
	IJDMT150508RMG43TS	JDMT150508R-MG-CX43TS	●	●	●		●	

Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.12 ~ 0.28	0.5 ~ 11.0
Stainless 300 Series	100 ~ 180	0.10 ~ 0.22	0.5 ~ 7.0
Cast Iron (HB140-220)	120 ~ 250	0.12 ~ 0.28	0.5 ~ 11.0
High temp. & Titanium alloy	40 ~ 100	0.10 ~ 0.22	0.5 ~ 7.0
Hardened steel	50 ~ 100	0.10 ~ 0.22	0.5 ~ 7.0

CAJDE - Milling tools



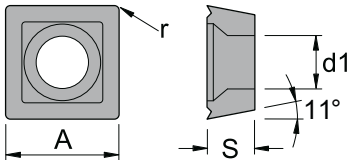
Order No. 訂購編碼	D	L1	L	d	T	Inserts	 Screw	 Wrench
ICAJDE502025120	25	40	125	25	2	JDMT1505	ITS4005	ITK15
ICAJDE502025180	25	75	180	25	2			
ICAJDE503032140	32	45	140	32	3			
ICAJDE503032200	32	90	200	32	3			

Customize available.

Indexable Milling Tools

Insert Specifications

Insert	Dimensions (mm)			
	A	S	r	d1
SPMG050204	5.00	2.38	0.4	2.30
SPMG060204	6.00	2.38	0.4	2.65
SPMG07T308	7.94	3.97	0.8	2.85
SPMG090408	9.80	4.3	0.8	4.05
SPMG110408	11.50	4.8	0.8	4.45



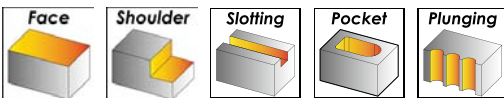
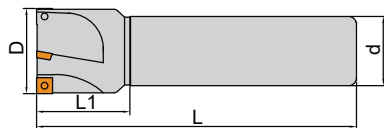
Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	ISPMG050204MG22HS	SPMG050204-MG-CX22HS	●	○	●		○	●
	ISPMG050204MG32HS	SPMG050204-MG-CX32HS	●	●	●		○	○
	ISPMG050204MG43TS	SPMG050204-MG-CX43TS	●	●	●		●	
	ISPMG060204MG22HS	SPMG060204-MG-CX22HS	●	○	●		○	●
	ISPMG060204MG32HS	SPMG060204-MG-CX32HS	●	●	●		○	○
	ISPMG060204MG43TS	SPMG060204-MG-CX43TS	●	●	●		●	
	ISPMG07T308MG22HS	SPMG07T308-MG-CX22HS	●	○	●		○	●
	ISPMG07T308MG32HS	SPMG07T308-MG-CX32HS	●	●	●		○	○
	ISPMG07T308MG43TS	SPMG07T308-MG-CX43TS	●	●	●		●	
	ISPMG090408MG32HS	SPMG090408-MG-CX32HS	●	●	●		○	○
	ISPMG090408MG43TS	SPMG090408-MG-CX43TS	●	●	●		●	
	ISPMG090408RG22HS	SPMG090408-RG-CX22HS	●	○	●		○	●
	ISPMG090408RG32HS	SPMG090408-RG-CX32HS	●	●	●		○	○
	ISPMG090408RG43TS	SPMG090408-RG-CX43TS	●	●	●		●	
	ISPMG110408MG32HS	SPMG110408-MG-CX32HS	●	●	●		○	○
	ISPMG110408MG43TS	SPMG110408-MG-CX43TS	●	●	●		●	
	ISPMG110408RG22HS	SPMG110408-RG-CX22HS	●	○	●		○	●
	ISPMG110408RG32HS	SPMG110408-RG-CX32HS	●	●	●		○	○
	ISPMG110408RG43TS	SPMG110408-RG-CX43TS	●	●	●		●	

Recommended Cutting Conditions

Working Material	SPMG050204 & SPMG060204			SPMT07T308 & SPMG090408		
	Vc	fz	ap	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.10 ~ 0.22	0.3 ~ 3.0	120 ~ 250	0.10 ~ 0.22	0.5 ~ 6.0
Stainless 300 Series	100 ~ 180	0.08 ~ 0.18	0.3 ~ 2.0	100 ~ 180	0.08 ~ 0.18	0.5 ~ 4.0
Cast Iron (HB140-220)	120 ~ 250	0.10 ~ 0.22	0.3 ~ 3.0	120 ~ 250	0.10 ~ 0.22	0.5 ~ 6.0
High temp. & Titanium alloy	40 ~ 100	0.07 ~ 0.14	0.3 ~ 2.0	40 ~ 100	0.07 ~ 0.14	0.5 ~ 4.0
Hardened steel	50 ~ 100	0.07 ~ 0.15	0.3 ~ 2.0	50 ~ 100	0.07 ~ 0.15	0.5 ~ 4.0

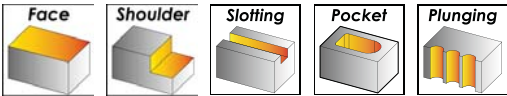
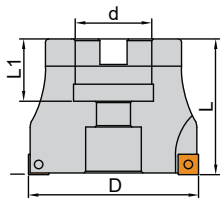
CASPE - Milling tools



Order No. 訂購編碼	D	L1	L	d	T	Inserts	Screw	Wrench
ICASPE502012100	12	20	100	12	2	SPMG0502	ITS2003	ITK06
ICASPE502013100	13	20	100	12	2			
ICASPE502014100	14	20	100	12	2			
ICASPE502015100	15	20	100	12	2			
ICASPE602016120	16	25	120	16	2	SPMG0602	ITS2205	ITK06
ICASPE603020120	20	30	120	20	3			
ICASPE604025120	25	30	120	25	4			
ICASPE604030120	30	30	120	25	4			
ICASPE605032120	32	30	120	25	5	SPMG07T3	ITS3504	ITK15
ICASPE703025150	25	35	150	25	3			
ICASPE703030150	30	35	150	25	3			
ICASPE704030150	30	40	150	32	4			
ICASPE704032150	32	40	150	32	4			

Customize available.

CASPF - Milling tools



Order No. 訂購編碼	D	L1	L	d	T	Inserts	 Screw	 Wrench
ICASPF607050220	50	20	45	22	7	SPMG0602	ITS2205	ITK06
ICASPF607050250	50	20	45	25.4	7			
ICASPF609063220	63	20	45	22	9			
ICASPF609063250	63	20	45	25.4	9			
ICASPF611080270	80	23	50	27	11			
ICASPF611080250	80	23	50	25.4	11			
ICASPF905050220	50	20	45	22	5	SPMG0904	ITS3504	ITK15
ICASPF905050250	50	20	45	25.4	5			
ICASPF906063220	63	20	45	22	6			
ICASPF906063250	63	20	45	25.4	6			
ICASPF907080270	80	23	50	27	7			
ICASPF907080250	80	23	50	25.4	7			

Customize available.

2 types of double sided inserts fit in same pocket !



Brings a top performance in face milling operation !

- *SNMX1205 - 8 cutting edges suitable for large depth of cutting.*
- *ONMX0505 - 16 cutting edges suitable for small depth of cutting.*
- *High cutting edges strength and high efficiency machining for general purpose application.*

- SNMX1205
8 個切削角用於大切深 2~6mm
- ONMX0505
16 個切削角適用於淺切深 2mm 以下

CXSNF



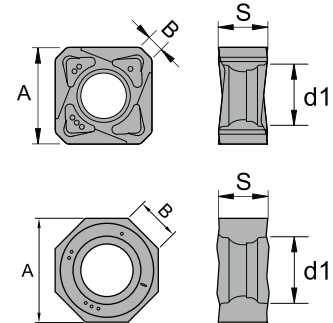
SNMX1205



ONMX0505

Insert Specifications

Insert	Dimensions (mm)			
	A	B	S	d1
SNMX1205	12.7	1.5	6.4	6
ONMX0505	12.7	5.0	6.4	6



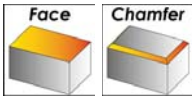
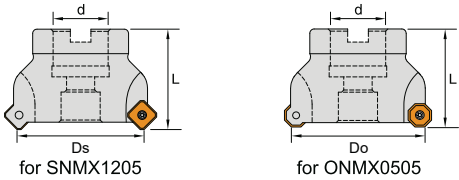
Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	ISNMX1205MG22HS	SNMX1205-MG-CX22HS	●	○	●		○	●
	ISNMX1205MG32HS	SNMX1205-MG-CX32HS	●	●	●		○	○
	ISNMX1205MG43TS	SNMX1205-MG-CX43TS	●	●	●		●	
	ISNMX1205RG22HS	SNMX1205-RG-CX22HS	●	○	●		○	●
	ISNMX1205RG32HS	SNMX1205-RG-CX32HS	●	●	●		○	○
	ISNMX1205RG43TS	SNMX1205-RG-CX43TS	●	●	●		●	
	IONMX0505RG22HS	ONMX0505-RG-CX22HS	●	○	●		○	●
	IONMX0505RG32HS	ONMX0505-RG-CX32HS	●	○	●		○	○

Recommended Cutting Conditions

Working Material	for SNMX1205			for ONMX0505		
	Vc	fz	ap	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 240	0.1 ~ 0.4	0.3 ~ 6.0	120 ~ 240	0.1 ~ 0.4	0.3 ~ 2.0
Stainless 300 Series	75 ~ 165	0.08 ~ 0.25	0.3 ~ 3.6	75 ~ 165	0.08 ~ 0.25	0.3 ~ 1.5
Cast Iron (HB140-220)	120 ~ 215	0.1 ~ 0.4	0.3 ~ 6.0	120 ~ 215	0.1 ~ 0.4	0.3 ~ 2.0
High temp. & Titanium alloy	35 ~ 70	0.08 ~ 0.2	0.3 ~ 3.6	35 ~ 70	0.08 ~ 0.2	0.3 ~ 1.5
Hardened steel	40 ~ 85	0.08 ~ 0.23	0.3 ~ 3.6	40 ~ 85	0.08 ~ 0.23	0.3 ~ 1.5

CXSNF - Milling tools



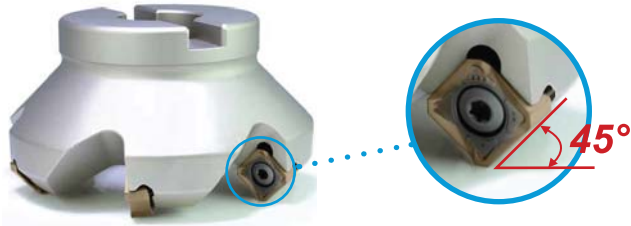
Order No. 訂購編碼	D		L	d	T	Inserts	Screw	Wrench
	Ds	Do						
ICXSNF504050220	50	52.9	40	22	4	SNMX1205 or ONMX0505	ITS4015	ITK15
ICXSNF505063220	63	65.9	40	22	5			
ICXSNF506080270	80	82.9	50	27	6			
ICXSNF508100320	100	102.9	50	32	8			

Customize available.

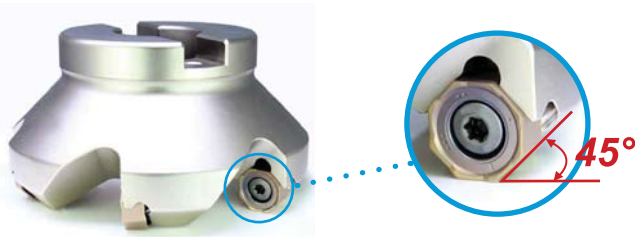
Tools Features

2 types of double sided inserts fit in same pocket !

- Depth of cutting > 2mm, use Square insert - SNMX1205 (Total 8 cutting edges)

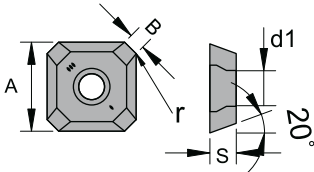


- Depth of cutting <= 2mm, use Octagonal insert - ONMX0505 (Total 16 cutting edges)



Insert Specifications

Insert	Dimensions (mm)				
	A	B	S	r	d1
SEMT13T3	13.4	1.9	3.97	1.5	4.2
SEET13T3	13.4	1.9	3.97	1.5	4.2



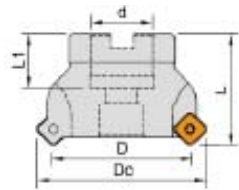
Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	ISEMT13T3AGENMM32HS	SEMT13T3AGEN-MM-CX32HS	●	●	●		○	○
	ISEMT13T3AGSNMG22HS	SEMT13T3AGSN-MG-CX22HS	●	○	●		○	●
	ISEMT13T3AGSNMG32HS	SEMT13T3AGSN-MG-CX32HS	●	●	●		○	○
	ISEMT13T3AGSNMG43TS	SEMT13T3AGSN-MG-CX43TS	●	●	●		●	
	ISEMT13T3AGSNRG32HS	SEMT13T3AGSN-RG-CX32HS	●	●	●		○	○
	ISEMT13T3AGSNRG43TS	SEMT13T3AGSN-RG-CX43TS	●	●	●		●	
	ISEMT13T3AGSNHG32HS	SEMT13T3AGSN-HG-CX32HS	●	●	●		○	○
	ISEMT13T3AGSNHG43TS	SEMT13T3AGSN-HG-CX43TS	●	●	●		●	
	ISEET13T3AGFNAL03	SEET13T3AGFN-AL-CX03				●		

Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless 300 Series	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron (HB140-220)	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
High temp. & Titanium alloy	40 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

CASXF - Milling tools

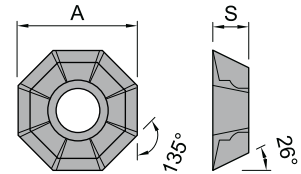


Order No. 訂購編碼	D	L	L1	d	Dc	T	Inserts
ICASXF304050220	50	40	20	22	63	4	SEMT13T3
ICASXF305063220	63	40	20	22	75.9	5	
ICASXF305063250	63	40	20	25.4	75.9	5	
ICASXF306080250	80	50	26	25.4	93.2	6	
ICASXF306080270	80	50	26	27	93.2	6	
ICASXF307100310	100	50	32	31.75	113.2	7	
ICASXF307100320	100	50	32	32	113.2	7	

Shim	Screw	Screw	Wrench	Wrench
IAS445N	IPS35T	ITS3505	ITK15	ITK20

Insert Specifications

Insert	Dimensions (mm)			
	A	S	r	d1
OFMT05T3	12.7	3.8	0.6	4.6



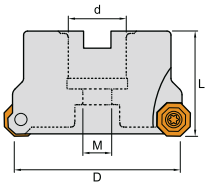
Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IOFMT05T3TNMG32HS	OFMT05T3TN-MG-CX32HS	●	●	●		○	○
	IOFMT05T3TNMG43TS	OFMT05T3TN-MG-CX43TS	●	●	●		●	
	IOFMT05T3TNRG32HS	OFMT05T3TN-RG-CX32HS	●	●	●		○	○
	IOFMT05T3TNRG43TS	OFMT05T3TN-RG-CX43TS	●	●	●		●	

Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.10 ~ 0.30	0.3 ~ 2.8
Stainless 300 Series	100 ~ 180	0.08 ~ 0.25	0.3 ~ 1.7
Cast Iron (HB140-220)	120 ~ 250	0.10 ~ 0.30	0.3 ~ 2.8
High temp. & Titanium alloy	40 ~ 100	0.08 ~ 0.25	0.3 ~ 1.7
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 1.7

CAOFF - Milling tools

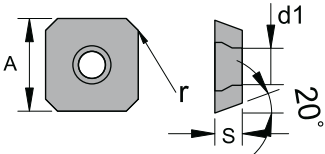


Order No. 訂購編碼	D	d	L	M	T	Inserts	 Screw	 Wrench
ICAOFF505050220	50	22	40	11	5	OFMT05T3...	ITS4006	ITK15
ICAOFF506063220	63	22	40	11	6			
ICAOFF506063250	63	25.4	50	13	6			
ICAOFF507080250	80	25.4	50	13	7			
ICAOFF507080270	80	27	50	38	7			
ICAOFF508100310	100	31.75	50	46	8			
ICAOFF508100320	100	32	50	46	8			



Insert Specifications

Insert	Dimensions (mm)			
	A	S	r	d1
SEKT1204	12.7	4.76	0.8	5.5
SEKW1204				
SEET1204				



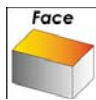
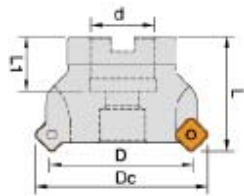
Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	ISEKT1204AFFNMG32HS	SEKT1204AFFN-MG-CX32HS	●	●	●		○	○
	ISEKT1204AFTNRG32HS	SEKT1204AFTN-RG-CX32HS	●	●	●		○	○
	ISEKT1204AFTNRG43TS	SEKT1204AFTN-RG-CX43TS	●	●	●		●	
	ISEKW1204AFFN32HS	SEKW1204AFFN-CX32HS	●	●	●		○	○
	ISEKW1204AFTN32HS	SEKW1204AFTN-CX32HS	●	●	●		○	○
	ISEET1204AFFNL10	SEET1204AFFN-AL-CX10				●		

Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless 300 Series	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron (HB140-220)	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
High temp. & Titanium alloy	40 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

CASEF - Milling tools



Order No. 訂購編碼	D	L	L1	d	Dc	T	Inserts	Screw	Wrench
ICASEF204050220	50	40	20	22	64	4	SEKT1204 or SEKW1204 or SEET1204	ITS5006	ITK20
ICASEF205063220	63	45	21	22	77	5			
ICASEF205063250	63	45	21	25.4	77	5			
ICASEF206080270	80	50	26	27	94	6			
ICASEF206080310	80	50	26	31.75	94	6			
ICASEF206100310	100	32	32	31.75	114	6			
ICASEF206100320	100	32	32	32	114	6			



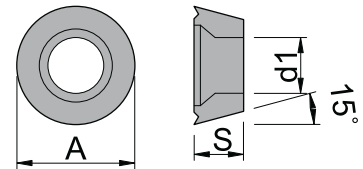


Suitable for mould & die machining and steel profiling !!

- ***Inserts for CARD Series (刀片尺寸)***
2.5R, 3.5R, 5R, 6R & 8R
- ***Inserts for CARP Series (刀片尺寸)***
4R, 5R & 6R

Insert Specifications

Insert	Dimensions (mm)		
	A	S	d1
RDKW0501	5	1.59	2.2
RDKW0702	7	2.38	2.8
RDMT1003	10	3.18	3.9
RDMX1003	10	3.18	4.15
RDMT10T3	10	3.97	4.5
RDMW10T3	10	3.97	4.5
RDMT12T3	12	3.97	4.1
RDMX12T3	12	3.97	4.1
RDMT1204	12	4.76	4.4
RDMW1204	12	4.76	4.4
RDMT1604	16	4.76	5.5
RDMW1604	16	4.76	5.5



Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IRDKW0501MOE22HS	RDKW0501MOE-CX22HS	●	○	●		○	●
	IRDKW0501MOE32HS	RDKW0501MOE-CX32HS	●	●	●		○	○
	IRDKW0501MOE43TS	RDKW0501MOE-CX43TS	●	●	●		●	
	IRDKW0702MO22HS	RDKW0702MO-CX22HS	●	○	●		○	●
	IRDKW0702MO32HS	RDKW0702MO-CX32HS	●	●	●		○	○
	IRDKW0702MOE22HS	RDKW0702MOE-CX22HS	●	○	●		○	●
	IRDKW0702MOE32HS	RDKW0702MOE-CX32HS	●	●	●		○	○
	IRDKW0702MOE43TS	RDKW0702MOE-CX43TS	●	●	●		●	
	IRDKW0702MOT22HS	RDKW0702MOT-CX22HS	●	○	●		○	●
	IRDKW0702MOT32HS	RDKW0702MOT-CX32HS	●	●	●		○	○

Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IRDMT1003MOE22HS	RDMT1003MOE-CX22HS	●	○	●		○	●
	IRDMT1003MOE32HS	RDMT1003MOE-CX32HS	●	●	●		○	○
	IRDMT1003MOT22HS	RDMT1003MOT-CX22HS	●	○	●		○	●
	IRDMT1003MOT32HS	RDMT1003MOT-CX32HS	●	●	●		○	○
	IRDMX1003MOE22HS	RDMX1003MOE-CX22HS	●	○	●		○	●
	IRDMX1003MOE32HS	RDMX1003MOE-CX32HS	●	●	●		○	○
	IRDMX1003MOE43TS	RDMX1003MOE-CX43TS	●	●	●		●	
	IRDMX1003MOT22HS	RDMX1003MOT-CX22HS	●	○	●		○	●
	IRDMX1003MOT32HS	RDMX1003MOT-CX32HS	●	●	●		○	○
	IRDMX1003MOT43TS	RDMX1003MOT-CX43TS	●	●	●		●	
	IRDMT10T3MOE22HS	RDMT10T3MOE-CX22HS	●	○	●		○	●
	IRDMT10T3MOE32HS	RDMT10T3MOE-CX32HS	●	●	●		○	○
	IRDMT10T3MOE43TS	RDMT10T3MOE-CX43TS	●	●	●		●	
	IRDMT10T3MOT22HS	RDMT10T3MOT-CX32HS	●	●	●		○	○
	IRDMT10T3MOT43TS	RDMT10T3MOT-CX43TS	●	●	●		●	
	IRDMW10T3MOE32HS	RDMW10T3MOE-CX32HS	●	●	●		○	○
	IRDMT12T3MOE32HS	RDMT12T3MOE-CX32HS	●	●	●		○	○
	IRDMX12T3MOE22HS	RDMX12T3MOE-CX22HS	●	○	●		○	●
	IRDMX12T3MOE32HS	RDMX12T3MOE-CX32HS	●	●	●		○	○
	IRDMX12T3MOE43TS	RDMX12T3MOE-CX43TS	●	●	●		●	
	IRDMX12T3MOT22HS	RDMX12T3MOT-CX22HS	●	○	●		○	●
	IRDMX12T3MOT32HS	RDMX12T3MOT-CX32HS	●	●	●		○	○
	IRDMX12T3MOT43TS	RDMX12T3MOT-CX43TS	●	●	●		●	

Indexable Milling Tools

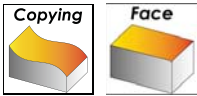
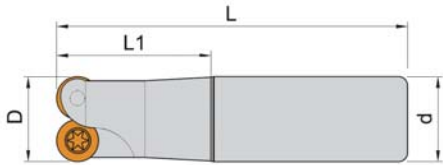
Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IRDMT1204MOT22HS	RDMT1204MOT-CX22HS	●	○	●		○	●
	IRDMT1204MOT32HS	RDMT1204MOT-CX32HS	●	●	●		○	○
	IRDMT1204MOT43TS	RDMT1204MOT-CX43TS	●	●	●		●	
	IRDMW1204MOT22HS	RDMW1204MOT-CX22HS	●	○	●		○	●
	IRDMW1204MOT32HS	RDMW1204MOT-CX32HS	●	●	●		○	○
	IRDMW1204MOT43TS	RDMW1204MOT-CX43TS	●	●	●		●	
	IRDMT1604MOT22HS	RDMT1604MOT-CX22HS	●	○	●		○	●
	IRDMT1604MOT32HS	RDMT1604MOT-CX32HS	●	●	●		○	○
	IRDMT1604MOT43TS	RDMT1604MOT-CX43TS	●	●	●		●	
	IRDMW1604MOT22HS	RDMW1604MOT-CX22HS	●	○	●		○	●
	IRDMW1604MOT32HS	RDMW1604MOT-CX32HS	●	●	●		○	○
	IRDMW1604MOT43TS	RDMW1604MOT-CX43TS	●	●	●		●	

Recommended Cutting Conditions

Working Material	Vc	Dia ≤ 10		Dia > 10	
		fz	ap	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.1 ~ 0.6	0.3 ~ 1.5	0.2 ~ 0.8	0.5 ~ 2.5
Stainless 300 Series	100 ~ 180	0.08 ~ 0.4	0.3 ~ 1.2	0.15 ~ 0.4	0.5 ~ 2.0
Cast Iron (HB140-220)	120 ~ 250	0.1 ~ 0.6	0.3 ~ 1.5	0.2 ~ 0.8	0.5 ~ 2.5
High temp. & Titanium alloy	40 ~ 100	0.08 ~ 0.3	0.3 ~ 1.0	0.15 ~ 0.3	0.3 ~ 2.0
Hardened steel	50 ~ 100	0.08 ~ 0.3	0.3 ~ 1.0	0.15 ~ 0.3	0.3 ~ 2.0

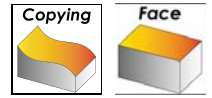
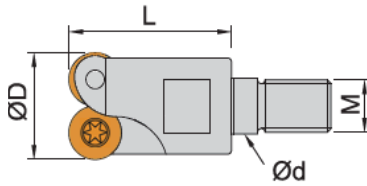
CARDE - Milling tools



Indexable Milling Tools

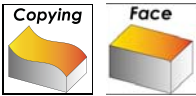
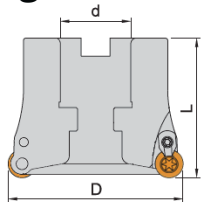
Order No. 訂購編碼	D	L1	L	d	T	Inserts	 Screw	 Wrench
ICARDE502010100	10	25	100	10	2	RDKW0501	ITS2003	ITK06
ICARDE502012100	12	25	100	12	2			
ICARDE503016130	16	35	130	16	3			
ICARDE703016130	16	40	130	16	3	RDKW0702	ITS2015	ITK08
ICARDE704020150	20	40	150	20	4			
ICARDE704025150	25	40	150	25	4			
ICARDE102025150	25	45	150	25	2	RDMT10T3 or RDMW10T3	ITS3504	ITK15
ICARDE102030150	30	45	150	25	2			
ICARDE103032150	32	45	150	32	3			
ICARDE202032150	32	50	150	32	2	RDMT1204 or RDMW1204	ITS4008	ITK15
ICARDE302020150	20	40	150	20	2	RDMT1003 or RDMX1003	IMS3507A	ITK15
ICARDE303025150	25	40	150	25	3			
ICARDE303026150	26	25	150	25	3			
ICARDE303030150	30	25	150	25	3		IMS3509A	
ICARDE304035150	35	40	150	32	4			

CARDM - Modular tools



Order No. 訂購編碼	D	L1	d	M	T	Inserts	Screw	Wrench
ICARDM503012060	12	21	6.5	M06	3	RDKW0501	ITS2003	ITK06
ICARDM504016080	16	26	8.5	M08	4			
ICARDM703016080	16	26	8.5	M08	3	RDKW0702	ITS2515	ITK08
ICARDM704020100	20	32	10.5	M10	4			
ICARDM705025120	25	38	12.5	M12	5			
ICARDM103025120	25	38	12.5	M12	3	RDMT10T3 or RDMW10T3	ITS3504	ITK10
ICARDM104030120	30	38	12.5	M12	4			
ICARDM105032120	35	38	12.5	M12	5			
ICARDM106042160	42	43	17	M16	6			
ICARDM302020100	20	30	10.5	M10	2	RDMT1003 or RDMX1003	IMS3507A	ITK15
ICARDM302021100	21	30	10.5	M10	2			
ICARDM303025120	25	35	12.5	M12	3			
ICARDM303026120	26	35	12.5	M12	3			
ICARDM303030120	30	35	12.5	M12	3		IMS3509A	

CARDF - Milling tools

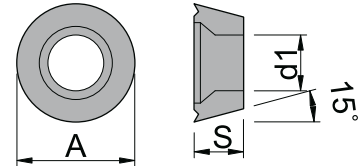


Indexable Milling Tools

Order No. 訂購編碼	D	L	d	T	Inserts	Screw	Wrench	Clamp	Clamp Screw
ICARDF104050220	50	45	22	4	RDMT10T3 or RDMW10T3	ITS3504	ITK15	IRD-45	ITS4009
ICARDF106063220	63	45	22	6					
ICARDF204050220	50	45	22	4	RDMT1204 or RDMW1204	ITS4008	ITK15	IRD-6R	ITS5004
ICARDF205050220	50	45	22	5					
ICARDF205063220	63	45	22	5					
ICARDF206063220	63	45	22	6					
ICARDF207080270	80	50	27	7					
ICARDF208100320	100	50	32	8					
ICARDF604063220	63	45	22	4	RDMT1604 or RDMW1604	ITS5007	ITK20	IRD-68	ITS5009
ICARDF605063220	63	45	22	5					
ICARDF606080270	80	50	27	6					
ICARDF607100320	100	50	32	7					
ICARDF305050220	50	40	22	5	RDMT1003 or RDMX1003	IMS3509A	ITK15	IMC35-3V	-
ICARDF305050250	50	50	25.4	5					
ICARDF306063250	63	50	25.4	6					

Insert Specifications

Insert	Dimensions (mm)		
	A	S	d1
RPMT08T2	8	2.78	3.2
RPMW1003	10	3.18	4.6
RPMT10T3	10	3.97	4.5
RPMT1204	12	4.76	4.3
RPMW1204	12	4.76	4.3



Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IRPMT08T2MOE32HS	RPMT08T2MOE-CX32HS	●	●	●		○	○
	IRPMT08T2MOE43TS	RPMT08T2MOE-CX43TS	●	●	●		●	
	IRPMT08T2MOT32HS	RPMT08T2MOT-CX32HS	●	●	●		○	○
	IRPMW1003MOE22HS	RPMW1003MOE-CX22HS	●	○	●		○	●
	IRPMW1003MOE32HS	RPMW1003MOE-CX32HS	●	●	●		○	○
	IRPMW1003MOE43TS	RPMW1003MOE-CX43TS	●	●	●		●	
	IRPMW1003MOT22HS	RPMW1003MOT-CX22HS	●	○	●		○	●
	IRPMW1003MOT32HS	RPMW1003MOT-CX32HS	●	●	●		○	○
	IRPMW1003MOT43TS	RPMW1003MOT-CX43TS	●	●	●		●	

Insert Order Code

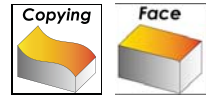
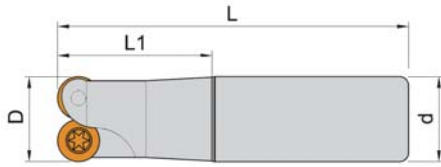
Indexable Milling Tools

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IRPMT10T3MOE32HS	RPMT10T3MOE-CX32HS	●	●	●		○	○
	IRPMT10T3MOE43TS	RPMT10T3MOE-CX43TS	●	●	●		●	
	IRPMT10T3MOT32HS	RPMT10T3MOT-CX32HS	●	●	●		○	○
	IRPMT10T3MOT43TS	RPMT10T3MOT-CX43TS	●	●	●		●	
	IRPMT1204MOE22HS	RPMT1204MOE-CX22HS	●	○	●		○	●
	IRPMT1204MOE32HS	RPMT1204MOE-CX32HS	●	●	●		○	○
	IRPMT1204MOE43TS	RPMT1204MOE-CX43TS	●	●	●		●	
	IRPMT1204MOT22HS	RPMT1204MOT-CX22HS	●	○	●		○	●
	IRPMT1204MOT32HS	RPMT1204MOT-CX32HS	●	●	●		○	○
	IRPMT1204MOT43TS	RPMT1204MOT-CX43TS	●	●	●		●	
	IRPMW1204MOE32HS	RPMW1204MOE-CX32HS	●	●	●		○	○
	IRPMW1204MOE43TS	RPMW1204MOE-CX43TS	●	●	●		●	
	IRPMW1204MOT32HS	RPMW1204MOT-CX32HS	●	●	●		○	○
	IRPMW1204MOT43TS	RPMW1204MOT-CX43TS	●	●	●		●	

Recommended Cutting Conditions

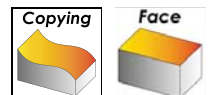
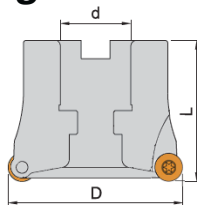
Working Material	Vc	Dia ≤ 10		Dia > 10	
		fz	ap	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.1 ~ 0.6	0.3 ~ 1.5	0.2 ~ 0.8	0.5 ~ 2.5
Stainless 300 Series	100 ~ 180	0.08 ~ 0.4	0.3 ~ 1.2	0.15 ~ 0.4	0.5 ~ 2.0
Cast Iron (HB140-220)	120 ~ 250	0.1 ~ 0.6	0.3 ~ 1.5	0.2 ~ 0.8	0.5 ~ 2.5
High temp. & Titanium alloy	40 ~ 100	0.08 ~ 0.3	0.3 ~ 1.0	0.15 ~ 0.3	0.3 ~ 2.0
Hardened steel	50 ~ 100	0.08 ~ 0.3	0.3 ~ 1.0	0.15 ~ 0.3	0.3 ~ 2.0

CARPE - Milling tools



Order No. 訂購編碼	D	L1	L	d	T	Inserts	Screw	Wrench
ICARPE802016150	16	50	150	16	2	RPMT08T2	ITS3004	ITK09
ICARPE802020150	20	50	150	20	2			
ICARPE803025150	25	40	150	25	3			
ICARPE302025150	25	40	150	25	2	RPMT10T3	ITS3503	ITK15
ICARPE303030150	30	40	150	25	3			
ICARPE303032150	32	40	150	32	3			
ICARPE202032170	32	45	170	32	2	RPMT1204 or RPMW1204	ITS4006	ITK15

CARPF - Milling tools



Order No. 訂購編碼	D	L	d	T	Inserts	Screw	Wrench
ICARPF305050220	50	45	22	5	RPMT10T3	ITS3503	ITK15
ICARPF305050250	50	45	25.4	5			
ICARPF306063220	63	45	22	6			
ICARPF306063250	63	45	25.4	6			
ICARPF204050250	50	45	25.4	4	RPMT1204 or RPMW1204	ITS4006	ITK15
ICARPF205063220	63	45	22	5			
ICARPF205063250	63	45	25.4	5			
ICARPF206080250	80	50	25.4	6			
ICARPF206080270	80	50	27	6			



Suitable for mould & die machining and steel profiling !!

• **CF21 Series :**

Copy milling for medium & finishing

適合精加工與中加工

WP32 Inserts : 6R, 8R, 10R, 12.5R & 16R

WP32 刀片尺寸 : 6R, 8R, 10R, 12.5R & 16R

• **CF22 Series :**

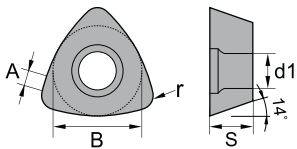
Copy milling for roughing

適合粗加工

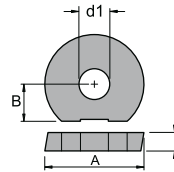
WP26 Inserts : 14R & 25R

WP26 刀片尺寸 : 14R & 25R

Insert Specifications



WP26..



WP32..

Insert	Dimensions (mm)				
	A	B	S	r	d1
WP26339R14	-	9.52	3.97	1.2	4.4
WP26379R25	1.1	13	5.56	2.0	5.5

Insert	Dimensions (mm)				
	A	B	S	r	d1
WP3212	12	6	2.5	-	5
WP3216	16	6	3	-	5
WP3220	20	6	3	-	5
WP3225	25	9	4	-	6
WP3232	32	10	5	-	8

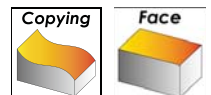
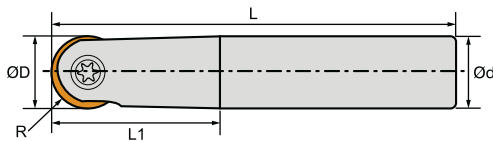
Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IWP26314RG22HS	WP26339R14-RG-CX22HS	●	○	●		○	●
	IWP26314RG32HS	WP26339R14-RG-CX32HS	●	●	●		○	○
	IWP26725RG22HS	WP26379R25-RG-CX22HS	●	○	●		○	●
	IWP26725RG32HS	WP26379R25-RG-CX32HS	●	●	●		○	○
	IWP26725RG53TS	WP26379R25-RG-CX53TS	●	●			●	
	IWP3212SM12HS	WP3212-SM-CX12HS	○	○	○		○	●
	IWP3212SM22HS	WP3212-SM-CX22HS	●	○	●		○	●
	IWP3216SM12HS	WP3216-SM-CX12HS	○	○	○		○	●
	IWP3216SM22HS	WP3216-SM-CX22HS	●	○	●		○	●
	IWP3220SM12HS	WP3220-SM-CX12HS	○	○	○		○	●
	IWP3220SM22HS	WP3220-SM-CX22HS	●	○	●		○	●
	IWP3225SM12HS	WP3225-SM-CX12HS	○	○	○		○	●
	IWP3225SM22HS	WP3225-SM-CX22HS	●	○	●		○	●
	IWP3232SM22HS	WP3232-SM-CX22HS	●	○	●		○	●
	IWP3212SG22HS	WP3212-SG-CX22HS	●	○	●		○	●
	IWP3216SG22HS	WP3216-SG-CX22HS	●	○	●		○	●
	IWP3220SG22HS	WP3220-SG-CX22HS	●	○	●		○	●
	IWP3225SG22HS	WP3225-SG-CX22HS	●	○	●		○	●
	IWP3212MM22HS	WP3212-MM-CX22HS	●	○	●		○	●
	IWP3216MM22HS	WP3216-MM-CX22HS	●	○	●		○	●
	IWP3220MM22HS	WP3220-MM-CX22HS	●	○	●		○	●
	IWP3225MM22HS	WP3225-MM-CX22HS	●	○	●		○	●
	IWP3232MM22HS	WP3232-MM-CX22HS	●	○	●		○	●
	IWP3212MG22HS	WP3212-MG-CX22HS	●	○	●		○	●
	IWP3216MG22HS	WP3216-MG-CX22HS	●	○	●		○	●
	IWP3220MG22HS	WP3220-MG-CX22HS	●	○	●		○	●
	IWP3225MG22HS	WP3225-MG-CX22HS	●	○	●		○	●

Recommended Cutting Conditions

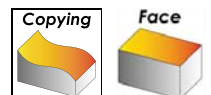
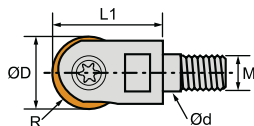
Working Material	Vc	fz					ap
		WP3212	WP3216	WP3220	WP3225	WP3232	
Carbon Steel (HB85-225)	150 ~ 300	0.20	0.20	0.25	0.25	0.30	$\leq 0.03 \times \varnothing D$
Stainless 300 Series	100 ~ 250	0.20	0.20	0.25	0.25	0.30	$\leq 0.03 \times \varnothing D$
Cast Iron (HB140-220)	90 ~ 350	0.25	0.30	0.30	0.35	0.40	$\leq 0.04 \times \varnothing D$
Hardened steel	100 ~ 350	0.10	0.125	0.15	0.20	0.25	$\leq 0.02 \times \varnothing D$

CF21E - Milling tools



Order No. 訂購編碼	R	D	L1	L	d	T	Inserts	Screw	Wrench
ICF21E302012150	6R	12	32	150	12	2	WP3212 ..	IMGR5012	ITK20
ICF21E302012200	6R	12	58	200	16	2			
ICF21E302016150	8R	16	36	150	16	2	WP3216..	IMGR5016	ITK20
ICF21E302016200	8R	16	36	200	16	2			
ICF21E302016201	8R	16	65	200	20	2	WP3220..	IMGR5020	ITK20
ICF21E302020150	10R	20	45	150	20	2			
ICF21E302020200	10R	20	45	200	20	2			
ICF21E302020201	10R	20	76	200	25	2			
ICF21E302020250	10R	20	76	250	25	2	WP3225..	IMGR6025	ITK30
ICF21E302025200	12.5R	25	45	200	25	2			
ICF21E302025250	12.5R	25	45	250	25	2			
ICF21E302025201	12.5R	25	98	200	32	2			
ICF21E302025251	12.5R	25	98	250	32	2			
ICF21E302025300	12.5R	25	98	300	32	2			
ICF21E302032200	16R	32	50	200	32	2	WP3232..	IMGR8030	ITK30
ICF21E302032250	16R	32	50	250	32	2			
ICF21E302032300	16R	32	50	300	32	2			

CF21M - Modular tools

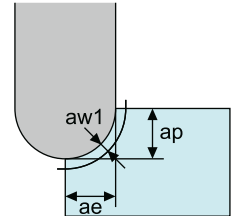


Order No. 訂購編碼	R	D	L1	d	M	T	Inserts	Screw	Wrench
ICF21M302012060	6R	12	22	6.5	M6	2	WP3212 ..	IMGR5012	ITK20
ICF21M302012080	6R	12	30	8.5	M8	2			
ICF21M302016080	8R	16	28	8.5	M8	2	WP3216 ..	IMGR5016	ITK20
ICF21M302020100	10R	20	30	10.5	M10	2	WP3220 ..	IMGR5020	ITK20
ICF21M302025120	12.5R	25	40	12.5	M12	2	WP3225 ..	IMGR6025	ITK30
ICF21M302032160	16R	32	43	17	M16	2	WP3232 ..	IMGR8030	ITK30

Recommended Cutting Conditions

for WP26339R14

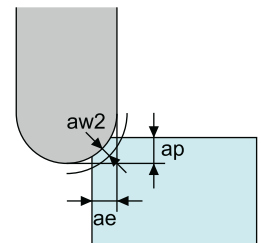
Working Material	Vc	aw1 = (0.5D, 0.5D)	aw2 = (0.25D, 0.25D)
		fz	
Carbon Steel (HB85-225)	120 ~ 250	0.16 ~ 0.30	0.2 ~ 0.39
Stainless 300 Series	100 ~ 180	0.08 ~ 0.14	0.1 ~ 0.18
Cast Iron (HB140-220)	120 ~ 250	0.16 ~ 0.30	0.2 ~ 0.39
High temp. & Titanium alloy	40 ~ 100	0.08 ~ 0.12	0.1 ~ 0.18



aw1 = (ap, ae)

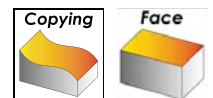
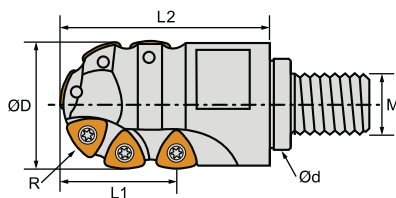
for WP26379R25

Working Material	Vc	aw1 = (0.5D, 0.5D)	aw2 = (0.25D, 0.25D)
		fz	
Carbon Steel (HB85-225)	120 ~ 250	0.20 ~ 0.36	0.26 ~ 0.46
Stainless 300 Series	100 ~ 180	0.08 ~ 0.14	0.10 ~ 0.18
Cast Iron (HB140-220)	120 ~ 250	0.20 ~ 0.36	0.26 ~ 0.46
High temp. & Titanium alloy	40 ~ 100	0.08 ~ 0.12	0.10 ~ 0.18



aw2 = (ap, ae)

CF22M - Modular tools



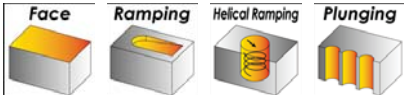
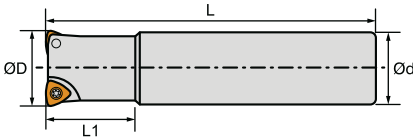
Order No. 訂購編碼	R	D	L1	L2	d	M	T	Inserts	Screw	Wrench
ICF22M202025120	12.5R	25	21	42	12.5	M12	2	WP26339R14	ITS4023	ITK15
ICF22M202030120	15R	30	23	50	12.5	M12	2			
ICF22M202032160	16R	32	23	50	17.0	M16	2			
ICF22M202040180	20R	40	38	65	28.0	M18	2	WP26379R25	ITS5007	ITK20
ICF22M202050250	25R	50	45	80	36.0	M25	2			

Customize available.

Recommended Cutting Conditions

Working Material	WP26339R14			WP26379R25		
	Vc	fz	ap	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.4 ~ 1.5	0.4 ~ 1.5	120 ~ 250	0.4 ~ 3.0	0.4 ~ 2.0
Stainless 300 Series	100 ~ 180	0.4 ~ 1.2	0.4 ~ 1.0	100 ~ 180	0.4 ~ 2.0	0.4 ~ 1.4
Cast Iron (HB140-220)	120 ~ 250	0.4 ~ 1.5	0.4 ~ 1.5	120 ~ 250	0.4 ~ 3.0	0.4 ~ 2.0
High temp. & Titanium alloy	40 ~ 100	0.4 ~ 1.0	0.4 ~ 1.0	40 ~ 100	0.4 ~ 1.6	0.4 ~ 1.2

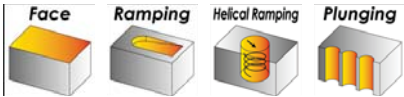
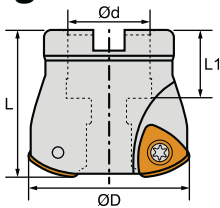
CF23E - Milling tools for high feed face milling



Order No. 訂購編碼	D	L1	L	d	T	Inserts	Screw	Wrench
ICF23E203032150	32	28	150	32	3	WP26339R14	ITS4005	ITK15
ICF23E203035180	35	40	180	32	3			
ICF23E203035230	35	40	230	32	3			
ICF23E204040200	40	40	200	32	4			
ICF23E202040200	40	45	200	32	2	WP26379R25	ITS5002	ITK20
ICF23E203050200	50	45	200	32	3			

Customize available.

CF23F - Milling tools for high feed face milling



Order No. 訂購編碼	D	L1	L	d	T	Inserts	Screw	Wrench
ICF23F203050220	50	21	50	22	3	WP26379R25	ITS5002	ITK20
ICF23F204063220	63	21	50	22	4			
ICF23F205080270	80	23	50	27	5			
ICF23F206100320	100	26	50	32	6			
ICF23F207125400	125	38	63	40	7			
ICF23F208160400	160	38	63	40	8			

Customize available.





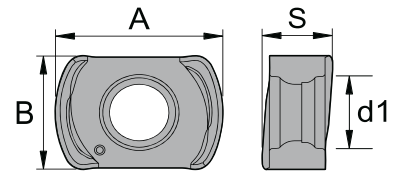
High Feed Face Milling Offers Increased Productivity !!!

- *The CXBN Mini milling cutters offer exceptional milling performance.*
- *The BNMX0603 and BNMX0904 high feed inserts allow lowest cutting force to insure maximum productivity!*
- *Many insert geometries, wide range cutting applications, strong insert clamping and solid high feed design insure higher efficient performance!*
- *Let the CXBN stream line improve your milling process!*

- 出色的銑削表現
- 高進給低切削阻力的刀片確保產能最大化
- 多種幾何設計適用於不同的切削材

Insert Specifications

Insert	Dimensions (mm)			
	A	B	S	d1
BNMX0603	9.0	6.38	3.75	3.2
BNMX0904	11.9	9.18	4.8	4.2

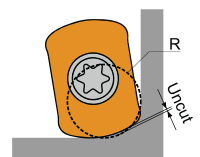


Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IBNMX0603SG22HS	BNMX0603-SG-CX22HS	●	○	●		○	●
	IBNMX0603SG32HS	BNMX0603-SG-CX32HS	●	●	●		○	○
	IBNMX0603SG43TS	BNMX0603-SG-CX43TS	●	●	●		●	
	IBNMX0603MG22HS	BNMX0603-MG-CX22HS	●	○	●		○	●
	IBNMX0603MG32HS	BNMX0603-MG-CX32HS	●	●	●		○	○
	IBNMX0603MG43TS	BNMX0603-MG-CX43TS	●	●	●		●	
	IBNMX0603RG22HS	BNMX0603-RG-CX22HS	●	○	●		○	●
	IBNMX0603RG32HS	BNMX0603-RG-CX32HS	●	●	●		○	○
	IBNMX0603RG43TS	BNMX0603-RG-CX43TS	●	●	●		●	
	IBNMX0904MG22HS	BNMX0904-MG-CX22HS	●	○	●		○	●
	IBNMX0904MG32HS	BNMX0904-MG-CX32HS	●	●	●		○	○
	IBNMX0904MG43TS	BNMX0904-MG-CX43TS	●	●	●		●	

Corner R Programming

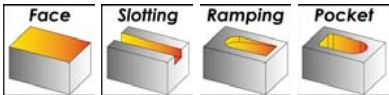
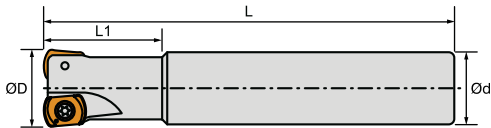
Designation	Approx. R (mm)	
	Input. R	Uncut
BNMX0603	2.0	0.42
BNMX0904	2.5	0.61



Recommended Cutting Conditions

Working Material	for BNMX0603			for BNMX0904		
	Vc	fz	ap	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.4 ~ 1.6	0.3 ~ 0.9	120 ~ 250	0.4 ~ 2.0	0.3 ~ 1.4
Stainless 300 Series	100 ~ 180	0.3 ~ 1.2	0.3 ~ 0.7	100 ~ 180	0.3 ~ 1.6	0.3 ~ 1.2
Cast Iron (HB140-220)	120 ~ 250	0.4 ~ 1.6	0.3 ~ 0.9	120 ~ 250	0.4 ~ 2.0	0.3 ~ 1.4
High temp. & Titanium alloy	40 ~ 100	0.3 ~ 0.8	0.3 ~ 0.6	40 ~ 100	0.3 ~ 1.2	0.3 ~ 1.2
Hardened steel	50 ~ 100	0.3 ~ 1.0	0.3 ~ 0.6	50 ~ 100	0.3 ~ 1.4	0.3 ~ 1.2

CXBNE - Milling tools

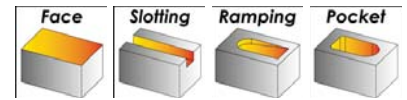
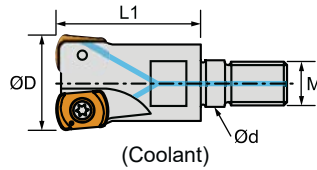
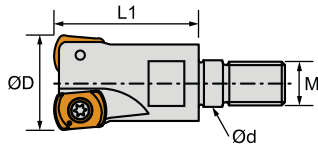


Order No. 訂購編碼	D	L1	L	d	T	Inserts	Screw	Wrench
ICXBNE602015130	15	26	130	16	2	BNMX0603	ITS3004	ITK08
ICXBNE602016130	16	26	130	16	2			
ICXBNE602017130	17	26	130	16	2			
ICXBNE602018130	18	25	130	20	2			
ICXBNE603020150	20	40	150	20	3			
ICXBNE603021150	21	40	150	20	3			
ICXBNE604025150	25	40	150	25	4			
ICXBNE604026150	26	30	150	25	4			
ICXBNE604032200	32	45	200	32	4	BNMX0904	ITS4009	ITK15
ICXBNE903025150	25	40	150	25	3			
ICXBNE903032150	32	40	150	32	3			

Customize available.

Indexable Milling Tools

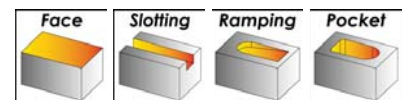
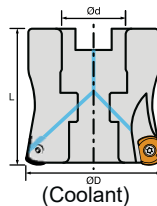
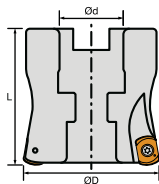
CXBNM - Modular tools



Order No. 訂購編碼	D	L1	d	M	T	Coolant	Inserts	Screw	Wrench
ICXBNM602016080	16	26	8.5	M8	2		BNMX0603	ITS3004	ITK08
ICXBNM602016081	16	26	8.5	M8	2	●			
ICXBNM603020100	20	30	10.5	M10	3				
ICXBNM603020101	20	30	10.5	M10	3	●			
ICXBNM603021100	21	30	10.5	M10	3				
ICXBNM603025120	25	35	12.5	M12	3				
ICXBNM604025120	25	35	12.5	M12	4				
ICXBNM604025121	25	35	12.5	M12	4	●			
ICXBNM603026120	26	35	12.5	M12	3				
ICXBNM604032161	32	40	17.0	M16	4	●			
ICXBNM605032160	32	40	17.0	M16	5		BNMX0904	ITS3504	ITK15
ICXBNM606040161	40	43	17.0	M16	6	●			
ICXBNM903025121	25	35	12.5	M12	3	●			
ICXBNM904032161	32	40	17.0	M16	4	●			
ICXBNM904035161	35	43	17.0	M16	4	●			
ICXBNM905042161	42	43	17.0	M16	5	●			

Customize available.

CXBNF - Milling tools



Order No. 訂購編碼	D	L	d	T	Coolant	Inserts	 Screw	 Wrench
ICXBNF606040220	40	50	22	6		BNMX0603	ITS3004	ITK08
ICXBNF607050220	50	50	22	7				
ICXBNF607050221	50	50	22	7	●			
ICXBNF607052221	52	50	22	7	●			
ICXBNF607063220	63	50	22	7				
ICXBNF906050221	50	50	22	6	●	BNMX0904	ITS3504	ITK15
ICXBNF906052221	52	50	22	6	●		ITS4009	
ICXBNF907063220	63	50	22	7				
ICXBNF907063271	63	50	27	7	●		ITS3504	
ICXBNF907066271	66	50	27	7	●			
ICXBNF908080271	80	50	27	8	●			

Customize available.



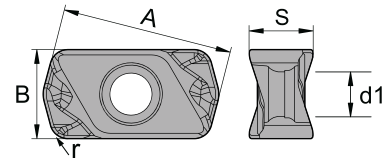
***More Speed, More Feed,
More Cutting Depth and More Performance !!***

- *Available in End mill, Modular and Face mill type.*
- *Up to 1mm D.O.C capability.*
- *Large positive insert rake angles for extremely easy cutting.*
- *Single screw design for high rigid & tensile clamping.*

- 提供端銑刀桿、面銑刀盤及鎖牙式銑刀頭
- 最大切深可達 1mm
- 低切削阻力的刀口設計
- 適合較低功率的小型機台使用

Insert Specifications

Insert	Dimensions (mm)			
	A	B	S	d1
LNMX0303	11.59	6.0	4.29	2.85

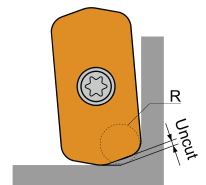


Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	ILNMX0303SG22HS	LNMX0303-SG-CX22HS	●	○	●		○	●
	ILNMX0303SG32HS	LNMX0303-SG-CX32HS	●	●	●		○	○
	ILNMX0303MG22HS	LNMX0303-MG-CX22HS	●	○	●		○	●
	ILNMX0303MG32HS	LNMX0303-MG-CX32HS	●	●	●		○	○
	ILNMX0303MG43TS	LNMX0303-MG-CX43TS	●	●	●		●	

Corner R Programming

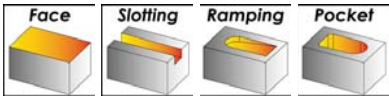
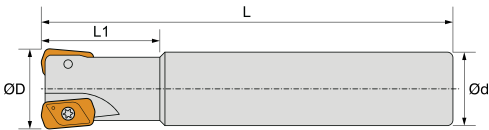
Designation	Approx. R (mm)	
	Input. R	Uncut
LNMX0303	1.5	0.5



Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.4 ~ 1.6	0.3 ~ 0.9
Stainless 300 Series	100 ~ 180	0.3 ~ 1.2	0.3 ~ 0.7
Cast Iron (HB140-220)	120 ~ 250	0.4 ~ 1.6	0.3 ~ 0.9
High temp. & Titanium alloy	40 ~ 100	0.3 ~ 0.8	0.3 ~ 0.6
Hardened steel	50 ~ 100	0.3 ~ 1.0	0.3 ~ 0.6

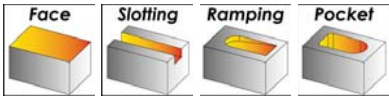
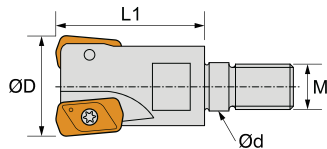
CXLNE - Milling tools



Order No. 訂購編碼	D	L1	L	d	T	Inserts	Screw	Wrench
ICXLNE302016100	16	30	100	16	2	LNMX0303	ITS2535	ITK07
ICXLNE302016150	16	50	150	16	2			
ICXLNE303020150	20	50	150	20	3			
ICXLNE304020130	20	50	130	20	4			
ICXLNE304025150	25	60	150	25	4			
ICXLNE305025140	25	60	140	25	5			
ICXLNE306032150	32	70	150	32	6			

Customize available.

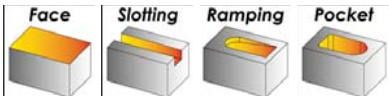
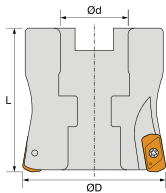
CXLNM - Modular tools



Order No. 訂購編碼	D	L1	d	M	T	Inserts	Screw	Wrench
ICXLNM302017080	17	26	8.5	M8	2	LNMX0303	ITS2535	ITK07
ICXLNM303021100	21	32	10.5	M10	3			
ICXLNM304026120	26	38	12.5	M12	4			
ICXLNM304032160	32	41	17	M16	4			

Customize available.

CXLNF - Milling tools



Order No. 訂購編碼	D	L	d	T	Inserts	Screw	Wrench
ICXLNF305050220	50	50	22	5	LNMX0303	ITS2535	ITK07

Customize available.





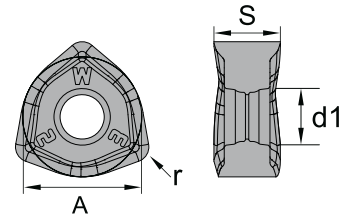
New Economical Solution for High Feed Face Milling Applications!!!

- ***CXWN High Feed Face Mill Series is more economical due to the use of 6 cutting edges compared to conventional tool with a 3/4 edges positive insert.***
- ***Double sided has been designed for rigidity of cutting edge.***
- ***New insert design for multiple functional machining, such as face milling, Ramping and plunging.***

- 與傳統刀片比較起來更有競爭力及節省成本的雙面六角設計
- 雙面高剛性的切削角設計
- 適用於面銑，斜銑及插銑的多功能刀片設計

Insert Specifications

Insert	Dimensions (mm)			
	A	S	r	d1
WNMX09T3	9.525	3.97	1.6	3.6
WNMX1305	12.7	6.0	1.6	4.7

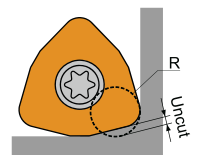


Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IWNMX09T316MG32HS	WNMX09T316-MG-CX32HS	●	●	●		○	○
	IWNMX09T316RG22HS	WNMX09T316-RG-CX22HS	●	○	●		○	●
	IWNMX09T316RG32HS	WNMX09T316-RG-CX32HS	●	●	●		○	○
	IWNMX09T316RG43TS	WNMX09T316-RG-CX43TS	●	●	●		●	
	IWNMX130516MG22HS	WNMX130516-MG-CX22HS	●	○	●		○	●
	IWNMX130516MG32HS	WNMX130516-MG-CX32HS	●	●	●		○	○
	IWNMX130516MG43TS	WNMX130516-MG-CX43TS	●	●	●		●	

Corner R Programming

Designation	Approx. R (mm)	
	Input. R	Uncut
WNMX09T3	2.5	0.6
WNMX1305	3.0	1.0



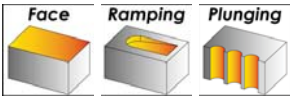
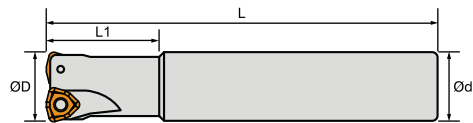
Recommended Cutting Conditions
for WNMX09T3

Working Material	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.4 ~ 1.5	0.4 ~ 1.35
Stainless 300 Series	100 ~ 180	0.4 ~ 1.2	0.4 ~ 1.0
Cast Iron (HB140-220)	120 ~ 250	0.4 ~ 1.5	0.4 ~ 1.35
High temp. & Titanium alloy	40 ~ 100	0.4 ~ 1.0	0.4 ~ 1.0
Hardened steel	50 ~ 100	0.4 ~ 1.1	0.4 ~ 1.0

for WNMX1305

Working Material	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.4 ~ 3.0	0.4 ~ 1.7
Stainless 300 Series	100 ~ 180	0.3 ~ 2.0	0.4 ~ 1.4
Cast Iron (HB140-220)	120 ~ 250	0.4 ~ 3.0	0.4 ~ 1.7
High temp. & Titanium alloy	40 ~ 100	0.3 ~ 1.6	0.4 ~ 1.3
Hardened steel	50 ~ 100	0.3 ~ 2.0	0.4 ~ 1.3

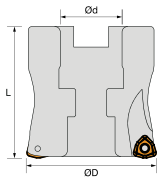
CXWNE - Milling tools



Order No. 訂購編碼	D	L1	L	d	T	Inserts	Screw	Wrench
ICXWNE902025150	25	40	150	25	2	WNMX09T3	ITS3006	ITK10
ICXWNE903032150	32	40	150	32	3			

Customize available.

CXWNF - Milling tools

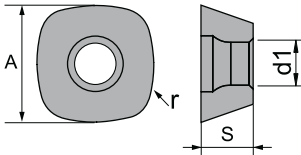


Order No. 訂購編碼	D	L	d	T	Inserts	Screw	Wrench
ICXWNF905050220	50	50	22	5	WNMX09T3	ITS3006	ITK10
ICXWNF905063220	63	50	22	5			
ICXWNF305063220	63	50	22	5	WNMX1305	ITS4006	ITK15
ICXWNF307080270	80	50	27	7			

Customize available.

Insert Specifications

Insert	Dimensions (mm)			
	A	S	r	d1
SDMT1205	12.7	5.56	15	4.6
SDNW1205	12.7	5.56	15	4.6

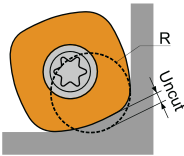


Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	ISDMT1205ZDENSG32HS	SDMT1205ZDEN-SG-CX32HS	●	●	●		○	○
	ISDMT1205ZDTNMG32HS	SDMT1205ZDTN-MG-CX32HS	●	●	●		○	○
	ISDMT1205ZDTNMG43TS	SDMT1205ZDTN-MG-CX43TS	●	●	●		●	
	ISDMT1205ZDTNRG32HS	SDMT1205ZDTN-RG-CX32HS	●	●	●		○	○
	ISDMT1205ZDTNRG43TS	SDMT1205ZDTN-RG-CX43TS	●	●	●		●	
	ISDNW1205ZDENMG32HS	SDNW1205ZDEN-MG-CX32HS	●	●	●		○	○
	ISDNW1205ZDTNRG22HS	SDNW1205ZDTN-RG-CX22HS	●	○	●		○	●
	ISDNW1205ZDTNRG32HS	SDNW1205ZDTN-RG-CX32HS	●	●	●		○	○
	ISDNW1205ZDTNRG43TS	SDNW1205ZDTN-RG-CX43TS	●	●	●		●	

Corner R Programming

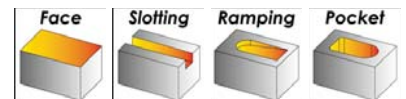
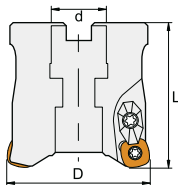
Designation	Approx. R (mm)	
	Input. R	Uncut
SDMT1205 / SDNW1205	4.5	0.83



Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.8 ~ 1.8	0.3 ~ 1.5
Stainless 300 Series	100 ~ 180	0.6 ~ 1.2	0.3 ~ 1.0
Cast Iron (HB140-220)	120 ~ 250	0.8 ~ 1.8	0.3 ~ 1.5
High temp. & Titanium alloy	40 ~ 100	0.5 ~ 1.2	0.3 ~ 1.0
Hardened steel	50 ~ 100	0.5 ~ 1.2	0.3 ~ 1.0

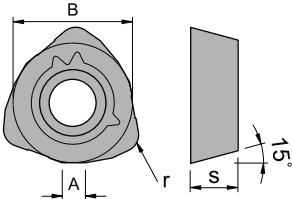
CASRF - Milling tools



Order No. 訂購編碼	D	L	d	T	Inserts	Screw	Wrench	Clamp	Clamp Screw
ICASRF203050220	50	22	50	3	SDMT1205 or SDNW1205	IMS4011A	ITF15	IYR-06	IMS4008ES
ICASRF204050220	50	22	50	4					
ICASRF203063220	63	22	50	3					
ICASRF204063220	63	22	50	4					
ICASRF204080310	80	31.75	55	4					
ICASRF204080320	80	32	55	4					
ICASRF205080310	80	31.75	55	5					
ICASRF205080320	80	32	55	5					

Insert Specifications

Insert	Dimensions (mm)				
	A	B	S	r	d1
JDMW1204	2.5	12.0	4.76	2.0	4.75
JDMW1405	2.8	14.0	5.56	2.0	5.75

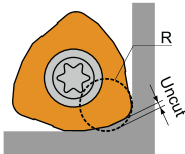


Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IJDMW120420SRG22HS	JDMW120420ZDSR-RG-CX22HS	●	○	●		○	●
	IJDMW120420SRG32HS	JDMW120420ZDSR-RG-CX32HS	●	●	●		○	○
	IJDMW120420SRG43TS	JDMW120420ZDSR-RG-CX43TS	●	●	●		●	
	IJDMW140520SRG32HS	JDMW140520ZDSR-RG-CX32HS	●	●	●		○	○

Corner R Programming

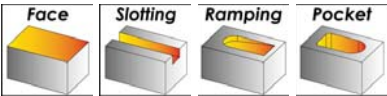
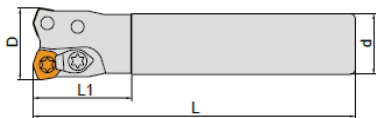
Designation	Approx. R (mm)	
	Input. R	Uncut
JDMW1204	3.0	0.63
JDMW1405	3.0	0.64



Recommended Cutting Conditions

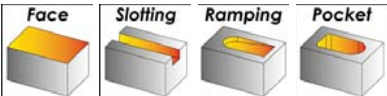
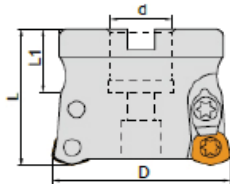
Working Material	for JDMW1204			for JDMW1405		
	Vc	fz	ap	Vc	fz	ap
Carbon Steel (HB85-225)	120 ~ 250	0.8 ~ 1.3	0.3 ~ 1.5	120 ~ 250	0.8 ~ 1.8	0.5 ~ 2.0
Stainless 300 Series	100 ~ 180	0.6 ~ 1.0	0.3 ~ 1.0	100 ~ 180	0.6 ~ 1.2	0.5 ~ 1.5
Cast Iron (HB140-220)	120 ~ 250	0.8 ~ 1.3	0.3 ~ 1.5	120 ~ 250	0.8 ~ 1.8	0.5 ~ 2.0
High temp. & Titanium alloy	40 ~ 100	0.5 ~ 1.0	0.3 ~ 1.0	40 ~ 100	0.5 ~ 1.2	0.5 ~ 1.5
Hardened steel	50 ~ 100	0.5 ~ 1.0	0.3 ~ 1.0	50 ~ 100	0.5 ~ 1.2	0.5 ~ 1.5

CAJXE - Milling tools



Order No. 訂購編碼	D	L1	L	d	T	Inserts	Screw	Wrench	Clamp	Clamp Screw
ICAJXE202032150	32	35	150	32	2	JDMW1204	ITS4008	ITK15	IAS04	IAJ4012

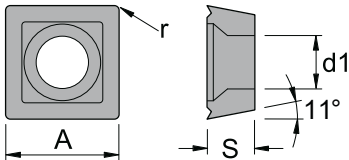
CAJXF - Milling tools



Order No. 訂購編碼	D	L1	L	d	T	Inserts	Screw	Wrench	Clamp	Clamp Screw
ICAJXF204050220	50	23	45	22	4	JDMW1204	ITS4008	ITK15	IAS04	IAJ4012
ICAJXF205063220	63	23	45	22	5					
ICAJXF206080270	80	26	55	27	6					
ICAJXF403063220	63	23	50	22	4	JDMW1405	ITS5001	ITK20	IAS05	IAJ5014
ICAJXF404080270	80	26	55	27	5					
ICAJXF405100320	100	32	55	32	6					

Insert Specifications

Insert	Dimensions (mm)			
	A	S	r	d1
SPMG050204	5.00	2.38	0.4	2.30
SPMG060204	6.00	2.38	0.4	2.65
SPMG07T308	7.94	3.97	0.8	2.85
SPMG090408	9.80	4.3	0.8	4.05
SPMG110408	11.50	4.8	0.8	4.45



Insert Order Code

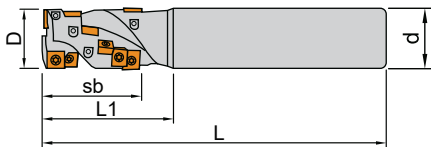
Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	ISPMG050204MG22HS	SPMG050204-MG-CX22HS	●	○	●		○	●
	ISPMG050204MG32HS	SPMG050204-MG-CX32HS	●	●	●		○	○
	ISPMG050204MG43TS	SPMG050204-MG-CX43TS	●	●	●		●	
	ISPMG060204MG22HS	SPMG060204-MG-CX22HS	●	○	●		○	●
	ISPMG060204MG32HS	SPMG060204-MG-CX32HS	●	●	●		○	○
	ISPMG060204MG43TS	SPMG060204-MG-CX43TS	●	●	●		●	
	ISPMG07T308MG22HS	SPMG07T308-MG-CX22HS	●	○	●		○	●
	ISPMG07T308MG32HS	SPMG07T308-MG-CX32HS	●	●	●		○	○
	ISPMG07T308MG43TS	SPMG07T308-MG-CX43TS	●	●	●		●	
	ISPMG090408MG32HS	SPMG090408-MG-CX32HS	●	●	●		○	○
	ISPMG090408MG43TS	SPMG090408-MG-CX43TS	●	●	●		●	
	ISPMG090408RG22HS	SPMG090408-RG-CX22HS	●	○	●		○	●
	ISPMG090408RG32HS	SPMG090408-RG-CX32HS	●	●	●		○	○
	ISPMG090408RG43TS	SPMG090408-RG-CX43TS	●	●	●		●	
	ISPMG110408MG32HS	SPMG110408-MG-CX32HS	●	●	●		○	○
	ISPMG110408MG43TS	SPMG110408-MG-CX43TS	●	●	●		●	
	ISPMG110408RG22HS	SPMG110408-RG-CX22HS	●	○	●		○	●
	ISPMG110408RG32HS	SPMG110408-RG-CX32HS	●	●	●		○	○
	ISPMG110408RG43TS	SPMG110408-RG-CX43TS	●	●	●		●	

Indexable Milling Tools

Recommended Cutting Conditions

Working Material	0.5xD < ap < 1.0xD ae ≤ 0.5		1.0xD < ap < 1.5xD ae ≤ 0.3	
	Vc	fz	Vc	fz
Carbon Steel (HB85-225)	120 ~ 250	0.08 ~ 0.13	120 ~ 250	0.06 ~ 0.10
Stainless 300 Series	100 ~ 180	0.06 ~ 0.12	100 ~ 180	0.04 ~ 0.09
Cast Iron (HB140-220)	120 ~ 250	0.10 ~ 0.15	120 ~ 250	0.06 ~ 0.10
High temp. & Titanium alloy	40 ~ 100	0.05 ~ 0.10	40 ~ 100	0.03 ~ 0.08
Hardened steel	50 ~ 100	0.05 ~ 0.10	50 ~ 100	0.03 ~ 0.08

CSPHE - Milling tools

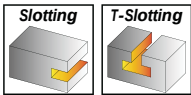
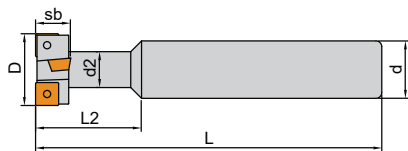


Order No. 訂購編碼	D	sb	L1	L	d	T	Inserts	Screw	Wrench
ICSPHE502016100	16	20	30	100	16	2	SPMG0502	ITS2003	ITK06
ICSPHE602020110	20	30	40	110	20	2	SPMG0602	ITS2205	ITK06
ICSPHE702025130	25	40	55	130	25	2	SPMG07T3	ITS2511	ITK08
ICSPHE902032150	32	50	65	150	32	2	SPMG0904	ITS3504	ITK15

Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel (HB85-225)	120 ~ 250	0.08 ~ 0.12
Stainless 300 Series	100 ~ 180	0.07 ~ 0.10
Cast Iron (HB140-220)	120 ~ 250	0.08 ~ 0.12
High temp. & Titanium alloy	40 ~ 100	0.05 ~ 0.08
Hardened steel	50 ~ 100	0.05 ~ 0.08

CSPTE - Milling tools

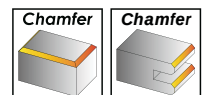
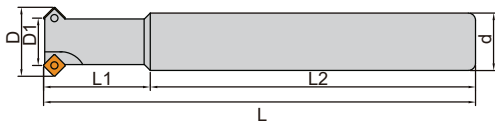


Order No. 訂購編碼	D	sb	d2	L2	L	d	T	Inserts	 Screw	 Wrench
ICSPTE504019950	19	8	9.5	25	95	16	4	SPMG0502	ITS2003	ITK06
ICSPTE604021100	21	9	11	27	100	16	4	SPMG0602	ITS2205	ITK06
ICSPTE504022090	22	6.3	15	15	90	20	4	SPMG0502	ITS2003	ITK06
ICSPTE704025110	25	11	12	31	110	20	4	SPMG07T3	ITS2511	ITK08
ICSPTE904032110	32	14	17	39	110	25	4	SPMG0904	ITS3504	ITK15

Recommended Cutting Conditions

Working Material	Vc	fz				
		Ø11 ~ Ø15	Ø16 ~ Ø22	Ø23 ~ Ø33	Ø34 ~ Ø41	Ø42 ~ Ø50
Carbon Steel (HB85-225)	120 ~ 250	0.06 ~ 0.12	0.06 ~ 0.12	0.06 ~ 0.12	0.12 ~ 0.24	0.12 ~ 0.25
Stainless 300 Series	100 ~ 180	0.05 ~ 0.10	0.05 ~ 0.10	0.05 ~ 0.10	0.10 ~ 0.17	0.10 ~ 0.17
Cast Iron (HB140-220)	120 ~ 250	0.06 ~ 0.12	0.06 ~ 0.12	0.06 ~ 0.12	0.12 ~ 0.24	0.12 ~ 0.25
High temp. & Titanium alloy	40 ~ 100	0.03 ~ 0.06	0.03 ~ 0.06	0.03 ~ 0.06	0.05 ~ 0.10	0.05 ~ 0.10
Hardened steel	50 ~ 100	0.03 ~ 0.06	0.03 ~ 0.06	0.03 ~ 0.06	0.05 ~ 0.10	0.05 ~ 0.10

CSPCE - Milling tools



Order No. 訂購編碼	D	D1	d	L1	L2	L	T	Inserts	Screw	Wrench
ICSPCE501011100	11	6	10	17	83	100	1	SPMG0502	ITS2003	ITK06
ICSPCE502015120	15	10	12	20	100	120	2			
ICSPCE503017150	17	11	16	25	125	150	3			
ICSPCE503019150	19	13	16	30	120	150	3			
ICSPCE504024150	24	18	20	35	115	150	4			
ICSPCE603022120	22	16	16	30	80	120	3	SPMG0602	ITS2205	ITK06
ICSPCE703027120	27	17	20	30	80	120	3	SPMG07T3	ITS2511	ITK08
ICSPCE902030150	30	19	20	40	110	150	2	SPMG0904	ITS3504	ITK15
ICSPCE903040150	40	29	25	40	110	150	3			
ICSPCE904050150	50	39	25	40	110	150	4			



- **Carbide Exchangeable Endmill Head and Carbide Adapter**
- **A single adapter to accommodate a wide variety of exchangeable head endmills**
- **ISO M screw threads suitable for most adapter**
- **Reconditioning Services**

- 硬質合金材質可替換式銑刀頭與硬質合金材質抗震刀桿
- 單一抗震刀桿，可組合各種不同的可替換式銑刀頭
- ISO M 型螺牙，適用於大部份的抗震刀桿
- 提供修磨服務

EHSWH

- P

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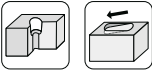
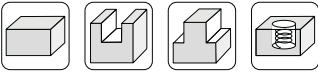
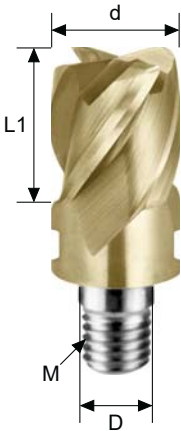
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Ød	Tolerance
All	0 ~ -0.04

Work Material						
Carbon Steel (S45C, S55C)	Alloy Steel (SK, SCM)	Pre-Hardened Steel / Hardened Steel			Stainless Steel (SUS304, 316)	Cast Iron
		~ HRC 40	~ HRC 45	~ HRC 55		
○	◎	◎	◎	◎	○	◎

Order No. 訂購編碼	Dia. (d)	CL (L1)	ND (D)	M (M)	Flutes (F)
EHSWH410000S	10	10	6.5	M6	4
EHSWH412000S	12	12	6.5	M6	4
EHSWH416000S	16	16	8.5	M8	4
EHSWH420000S	20	20	10.5	M10	4

EHBWH

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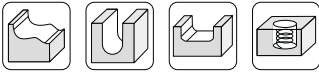
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2 Flutes

UMG

SICO

R

30°

HRC 65

Ød	R Tolerance
All	± 0.02

Work Material						
Carbon Steel (S45C, S55C)	Alloy Steel (SK, SCM)	Pre-Hardened Steel / Hardened Steel			Stainless Steel (SUS304, 316)	Cast Iron
		~ HRC 40	~ HRC 45	~ HRC 55		
○	◎	◎	◎	◎	○	◎

Order No. 訂購編碼	Radius (R)	Dia. (d)	CL (L1)	ND (D)	M (M)	Flutes (F)
EHBWH210000S	5R	10	10	6.5	M6	2
EHBWH212000S	6R	12	12	6.5	M6	2
EHBWH216000S	8R	16	16	8.5	M8	2
EHBWH220000S	10R	20	20	10.5	M10	2

Cutting conditions (建議切削參數表) : Page B110

Exchangeable Endmill Head



Winmaster - Corner Radius Head - 4F硬質合金可替換式銑刀頭 - 圓鼻刀 - 4 刃

EHCWH

P

M

K

N

S

H

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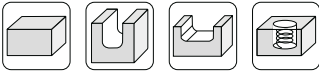
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4 Flutes

UMG

SICO

R

30°

HRC 65

Ød	Tolerance
All	0 ~ -0.04
R	± 0.02

Work Material						
Carbon Steel (S45C, S55C)	Alloy Steel (SK, SCM)	Pre-Hardened Steel / Hardened Steel			Stainless Steel (SUS304, 316)	Cast Iron
		~ HRC 40	~ HRC 45	~ HRC 55		
○	◎	◎	◎	◎	○	◎

Order No. 訂購編碼	Dia. (d)	Radius (R)	CL (L1)	ND (D)	M (M)	Flutes (F)
EHCWH410005S	10	0.5R	10	6.5	M6	4
EHCWH410010S	10	1.0R	10	6.5	M6	4
EHCWH412005S	12	0.5R	12	6.5	M6	4
EHCWH412010S	12	1.0R	12	6.5	M6	4
EHCWH412020S	12	2.0R	12	6.5	M6	4
EHCWH412030S	12	3.0R	12	6.5	M6	4
EHCWH416010S	16	1.0R	16	8.5	M8	4
EHCWH416020S	16	2.0R	16	8.5	M8	4
EHCWH416030S	16	3.0R	16	8.5	M8	4
EHCWH420010S	20	1.0R	20	10.5	M10	4
EHCWH420020S	20	2.0R	20	10.5	M10	4
EHCWH420030S	20	3.0R	20	10.5	M10	4

Cutting conditions (建議切削參數表) : Page B110

EPFWA

- P

M

K

N

S

H
- ☒

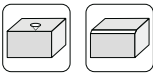
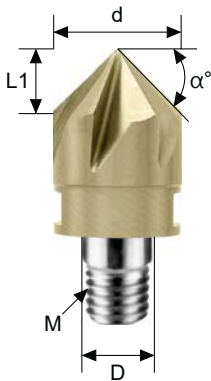
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- 4 Flutes

6 Flutes

MG

SICO
- HRC 65

Work Material						
Carbon Steel (S45C, S55C)	Alloy Steel (SK, SCM)	Pre-Hardened Steel / Hardened Steel			Stainless Steel (SUS304, 316)	Cast Iron
		~ HRC 40	~ HRC 45	~ HRC 55		
○	◎	◎	◎	◎	○	◎

Order No. 訂購編碼	Dia. (d)	CL (L1)	α°	ND (D)	M (M)	Flutes (F)
EPFWA410090S	10	5	45°	6.5	M6	4
EPFWA412090S	12	6	45°	6.5	M6	4

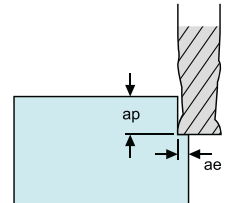
EPFWA610090S	10	5	45°	6.5	M6	6
EPFWA612090S	12	6	45°	6.5	M6	6
EPFWA616090S	16	8	45°	8.5	M8	6

Recommended Cutting Conditions

EHSWH4, EHCWH4 (Square Head - 4F, Corner Radius Head - 4F)

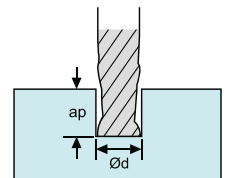
Shoulder Milling $L/D \leq 3$ (Reference L/D ratio table, reduce vc, fz and ae value)

Material	Pre-Hardened Steels NAK80 CENA1				Hardened Steels SKD61, SKD11				Hardened Steels SKD11, SKH51			
Hardness	HRC 35~45				HRC 40~55				HRC 55~65			
VC	90 ~ 150(m/min)				80 ~ 120 (m/min)				70 ~ 100 (m/min)			
Dia	RPM	fz (mm/tooth)	ap (mm)	ae (mm)	RPM	fz (mm/tooth)	ap (mm)	ae (mm)	RPM	fz (mm/tooth)	ap (mm)	ae (mm)
10mm	3820	0.05	8.0	2.0	3190	0.05	8.0	1.5	2390	0.05	8.0	1.0
12mm	3190	0.05	9.6	2.4	2650	0.05	9.6	1.8	2000	0.05	9.6	1.2
16mm	2390	0.06	12.8	3.2	2000	0.06	12.8	2.4	1500	0.06	12.8	1.6
20mm	1910	0.06	16.0	4.0	1600	0.06	16.0	3.0	1190	0.06	16.0	2.0



Slot Milling $L/D \leq 3$ (Reference L/D ratio table, reduce vc and fz value)

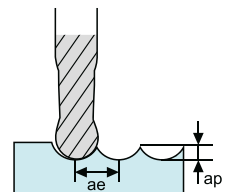
Material	Pre-Hardened Steels NAK80 CENA1			Hardened Steels SKD61, SKD11			Hardened Steels SKD11, SKH51		
Hardness	HRC 35~45			HRC 40~55			HRC 55~65		
VC	60 ~ 100(m/min)			50 ~ 90 (m/min)			40 ~ 80 (m/min)		
Dia	RPM	fz (mm/tooth)	ap (mm)	RPM	fz (mm/tooth)	ap (mm)	RPM	fz (mm/tooth)	ap (mm)
10mm	2550	0.02	4.0	2390	0.02	4.0	1900	0.02	4.0
12mm	2120	0.02	4.8	2000	0.02	4.8	1590	0.02	4.8
16mm	1590	0.03	6.4	1490	0.03	6.4	1190	0.03	6.4
20mm	1275	0.03	8.0	1190	0.03	8.0	950	0.03	8.0



EHBWH2 (Ball Nose Head - 2F)

$L/D \leq 3$ (Reference L/D ratio table, reduce vc and fz value)

Material	Pre-Hardened Steels NAK80 CENA1				Hardened Steels SKD61, SKD11				Hardened Steels SKD11, SKH51			
Hardness	HRC 35~45				HRC 40~55				HRC 55~65			
VC	100 ~ 190(m/min)				90 ~ 160 (m/min)				70 ~ 140 (m/min)			
Dia	RPM	fz (mm/tooth)	ap (mm)	ae (mm)	RPM	fz (mm/tooth)	ap (mm)	ae (mm)	RPM	fz (mm/tooth)	ap (mm)	ae (mm)
10mm	4620	0.1	0.7	2	3980	0.05	0.4	1.5	3345	0.02	0.2	1.0
12mm	3850	0.1	0.84	2.4	3320	0.05	0.5	1.8	2790	0.02	0.2	1.2
16mm	2885	0.15	1.12	3.2	2485	0.075	0.64	2.4	2090	0.03	0.3	1.6
20mm	2300	0.2	1.4	4.0	2000	0.1	0.8	3.0	1670	0.04	0.4	2.0

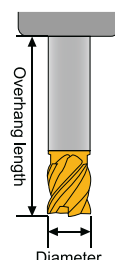


How to set cutting conditions on different overhang length

The recommended cutting condition is depended by the L/D factor.

L/D ratio table :

L/D	VC (m/min)	fz (mm/t)	ae (mm)
2 ~ 3	100%	100%	100%
4 ~ 5	70%	80%	50%
6 ~ 7	50%	70%	30%
8 ~ 9	40%	60%	20%



EX :

Tool : $\varnothing d=12\text{mm}$ Square Head
Overhang length : 50mm
 $L/D : 50/12 = 4.16$
Material HRC : 35 ~ 45
Application : Shoulder Milling

Cutting condition is recommended as :

$Vc = 120 \times 70\% = 84 \text{ m/min}$
 $fz = 0.05 \times 80\% = 0.04 \text{ mm/t}$
 $ap = 9.6 \text{ mm}$
 $\text{max } ae = 2.4 \times 50\% = 1.2 \text{ mm}$

How to install the Head 如何安裝銑刀頭至抗震刀桿



1. Screw the adapter to the holder and clean.
將抗震刀桿鎖在刀把上



2. Screw the Head to the adapter.
將刀頭鎖在抗震刀桿上



3. Use the spanner to screw the Head.
使用板手鎖緊刀頭



4. Complete installation.
完成安裝

How to uninstall the Head 如何拆卸銑刀頭



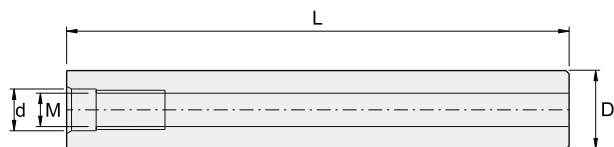
- When uninstall the head, please push the spanner lightly for avoiding the neck broken.
拆卸刀頭時，請輕輕推動板手，避免刀頭頸部斷

Recommended Torque 建議板手扭力值

Suitable Endmill Head Diameter	Recommended Clamping Torque (N · m)
10mm	10
12mm	10
16mm	10
20mm	10

Adapter

SWMEA - Carbide Adapter (Straight)

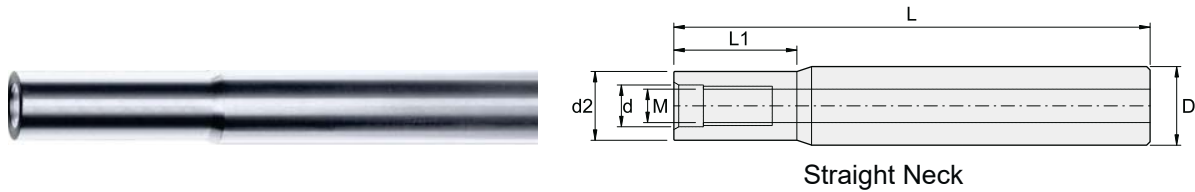


Straight

Order No. 訂購編碼	Dimensions (mm)			
	D	L	d	M
ISWMEA10075050	10	75	5.5	M5
ISWMEA10100050	10	100	5.5	M5
ISWMEA10150050	10	150	5.5	M5
ISWMEA10100060	10	100	5.5	M6
ISWMEA10150060	10	150	5.5	M6
ISWMEA11100060	11	100	6.5	M6
ISWMEA11150060	11	150	6.5	M6
ISWMEA12075060	12	75	6.5	M6
ISWMEA12100060	12	100	6.5	M6
ISWMEA12150060	12	150	6.5	M6
ISWMEA12200060	12	200	6.5	M6
ISWMEA15100080	15	100	8.5	M8
ISWMEA15150080	15	150	8.5	M8
ISWMEA15200080	15	200	8.5	M8
ISWMEA16100080	16	100	8.5	M8
ISWMEA16150080	16	150	8.5	M8
ISWMEA16200080	16	200	8.5	M8
ISWMEA16250080	16	250	8.5	M8
ISWMEA20100100	20	100	10.5	M10
ISWMEA20150100	20	150	10.5	M10
ISWMEA20200100	20	200	10.5	M10
ISWMEA20250100	20	250	10.5	M10
ISWMEA20300100	20	300	10.5	M10
ISWMEA25100120	25	100	12.5	M12
ISWMEA25150120	25	150	12.5	M12
ISWMEA25200120	25	200	12.5	M12
ISWMEA25250120	25	250	12.5	M12
ISWMEA25300120	25	300	12.5	M12
ISWMEA32200160	32	200	17.0	M16
ISWMEA32300160	32	300	17.0	M16

SWMEB - Carbide Adapter (Straight Neck)

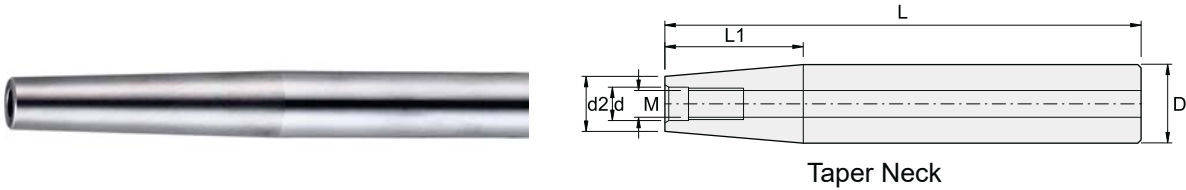
Indexable Milling Tools



Order No. 訂購編碼	Dimensions (mm)					
	D	L	L1	d	d2	M
ISWMEB12100060	12	100	24	6.5	11.5	M6
ISWMEB12100061	12	100	40	6.5	11.5	M6
ISWMEB12100062	12	100	60	6.5	11.5	M6
ISWMEB12150060	12	150	24	6.5	11.5	M6
ISWMEB12150061	12	150	100	6.5	11.5	M6
ISWMEB16150080	16	150	30	8.5	15.0	M8
ISWMEB16150081	16	150	100	8.5	15.0	M8
ISWMEB16200080	16	200	40	8.5	15.0	M8
ISWMEB16200081	16	200	120	8.5	15.0	M8
ISWMEB20150100	20	150	40	10.5	19.0	M10
ISWMEB20150101	20	150	100	10.5	19.0	M10
ISWMEB20200100	20	200	40	10.5	19.0	M10
ISWMEB20200101	20	200	120	10.5	19.0	M10
ISWMEB25150120	25	150	48	12.5	24.0	M12
ISWMEB25150121	25	150	100	12.5	24.0	M12
ISWMEB25200120	25	200	48	12.5	24.0	M12
ISWMEB25200121	25	200	100	12.5	24.0	M12

Adapter

SWMET - Carbide Adapter (Taper Neck)



Order No. 訂購編碼	Dimensions (mm)					
	D	L	L1	d	d2	M
ISWMET12150050	12	150	60	5.5	9.8	M5
ISWMET12150060	12	150	60	5.5	9.8	M6
ISWMET16150060	16	150	70	6.5	11.8	M6
ISWMET20200080	20	200	90	8.5	15.5	M8
ISWMET25200100	25	200	90	10.5	19.8	M10
ISWMET32200120	32	200	90	12.5	24.5	M12

SWAMM - Connect Adapter (Steel)



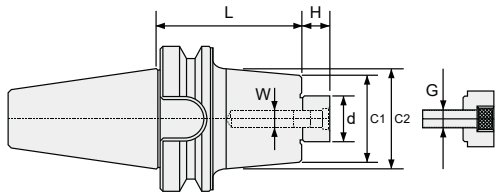
Order No. 訂購編碼	Specification
ISWAMM0606	M6 to M6
ISWAMM0808	M8 to M8
ISWAMM1010	M10 to M10

Customize available.

Wrench Specifications (for Exchangeable End mill Head)

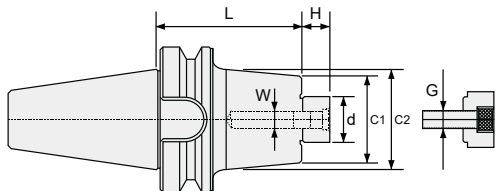
Order No. 訂購編碼	Wrench Size (mm)	Suitable Endmill Head Diameter (mm)
ISP100	8 × 9	10
ISP120	10 × 11	12
ISP160	12 × 13	16
ISP200	16 × 17	20

BT40FMA - Face Mill BT Holder



Order No. 訂購編碼	Dimensions (mm)							
	Cutter dia.	d	L	C1	C2	H	W	G
IBT40FMA25045	76	25.4	45	50	-	20	9.5	M12
IBT40FMA25090	76	25.4	90	50	60	20	9.5	M12
IBT40FMA31045	100	31.75	45	60	-	22	12.5	M12
IBT40FMA31075	100	31.75	75	60	70	22	12.5	M12
IBT40FMA31105	100	31.75	105	60	70	22	12.5	M12

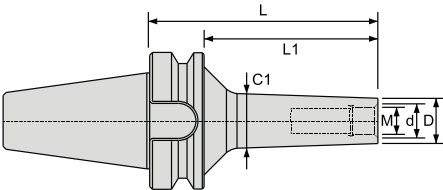
BT40FMB - Face Mill BT Holder



Order No. 訂購編碼	Dimensions (mm)							
	Cutter dia.	d	L	C1	C2	H	W	G
IBT40FMB22045	60	22	45	50	-	18	10	M10
IBT40FMB22060	60	22	60	50	60	81	10	M10
IBT40FMB22090	60	22	90	50	60	18	10	M10
IBT40FMB27045	80	27	45	60	-	20	12	M12
IBT40FMB27060	80	27	60	60	-	20	12	M12
IBT40FMB27090	80	27	90	60	-	20	12	M12
IBT40FMB27105	80	27	105	60	-	20	12	M12
IBT40FMB32045	100	32	45	78	-	20	14	M16
IBT40FMB40060	125	40	60	85	-	22	16	M16

BT Tool Holder

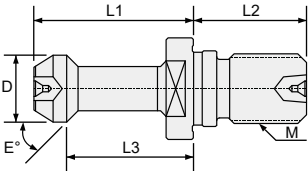
BT40/50 - Replaceable Integrated Shank



Order No. 訂購編碼	d	L	L1	D	C1	M	Arbor Type
IBT40DM08050	8.5	50	23	13	15	M8	BT40
IBT40DM10057	10.5	57	30	18	21	M10	
IBT40DM12080	12.5	80	53	21	25	M12	
IBT40DM16087	17.0	87	60	28	31	M16	
IBT40FMC403060	28.0	60	30	36	40	M18	
IBT40FMC406090	28.0	90	60	36	40	M18	
IBT50FMC5003065	36.0	65	30	48	50	M25	BT50
IBT50FMC50080115	36.0	115	80	48	50	M25	
IBT50FMC50130165	36.0	165	130	48	50	M25	

Customize available.

P40T - Pull Studs



Order No. 訂購編碼	Dimensions (mm)						For Shank
	L1	L2	L3	D	E°	M	
IP40T01	35	25	28	15	45	M16	BT40
IP40T02	35	25	28	15	60	M16	BT40

Milling Inserts Grade Comparison Chart

銑刀片材質等級比較表

Indexable Milling Tools

ISO Code		WINSTAR	Mitsubishi	Sumiotmo	TaugeTec	SECO
PSteel	P10			ACP100	TT2510	
	P20	CX22HS CX32HS	MP6120 VP15TF	ACP200	TT7080 TT7030	F25M MP3000
	P30	CX32HS	VP15TF MP6120 MP6130 VP30RT	ACP300	TT9080 TT9030	F30M F40M MP3000
	P40	CX43TS	VP30RT		TT8080 TT8020	F40M T60M
MStainless Steel	M10			ACM100 ACK300		
	M20	CX32HS	VP15TF MP7130 MP7140 VP20RT	ACM200	TT9080 TT9030	F25M F30M MP30000
	M30	CX32HS CX43TS	VP15TF MP7130 MP7140 VP30RT	ACM300	TT8080 TT8020	F30M F40M MP3000
	M40	CX43TS	MP7140 VP30RT			F40M
KCast Iron	K01		MP8010			
	K10	CX22HS	MP8010		TT7515	MK1500
	K20	CX32HS	VP15TF VP20RT	ACK200	TT7515 TT6080	MK1500 MK2000 T150M
	K30			ACK300	TT6080	MK2000 MK2050

The above table is selected from a publication for reference only, which is not obtained approval from each brand.

Indexable Drills & Boring Tools



Indexable Drills 可轉位鑽頭

DSP Series (可轉位內冷快速鑽)	
- SPMG Inserts (SPMG 刀片)	IB006
- DSP Series Holders (鑽頭刀桿)	IB008
DWC Series (可轉位內冷快速鑽)	
- WCMT Inserts (WCMT 刀片)	IB016
- DWC Series Holders (鑽頭刀桿)	IB018
DTS Series (可轉位外冷定位鑽)	
- DCEX, DCEW Inserts (DCEX, DCEW 刀片)	IB026
- DTS 60° Series Holders (60° 定位鑽刀桿)	IB026
- SCGX, SCMX, TCMX Inserts (SCGX, SCMX, TCMX 刀片)	IB027
- DTS 90° Series Holders (90° 定位鑽刀桿)	IB027

Indexable Boring Tools 可轉位搪孔刀具

CCMT Inserts (CCMT 刀片)	IB030
SCMT Inserts (SCMT 刀片)	IB031
TCMT Inserts (TCMT 刀片)	IB032
DB Rough Boring Head (雙刃粗搪刀)	IB033
DBLA Rough Boring Head For Large Hole (大徑雙刃粗搪刀) ...	IB035
DBBT Taper Shank (搪刀刀柄)	IB037

Appearance	Item	Series	Coolant	ØRange	Page
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DSP Indexable Drills

	SPMG Inserts SPMG 刀片	SPMG	-	-	IB006
	DSP Indexable Drills - 2×D 可轉位內冷快速鑽	DSP	Internal	Ø12.5~Ø41	IB008
	DSP Indexable Drills - 3×D 可轉位內冷快速鑽	DSP	Internal	Ø12.5~Ø41	IB010
	DSP Indexable Drills - 4×D 可轉位內冷快速鑽	DSP	Internal	Ø12.5~Ø41	IB012
	DSP Indexable Drills - 5×D 可轉位內冷快速鑽	DSP	Internal	Ø13~Ø36	IB014

DWC Indexable Drills

	WCMT Inserts WCMT 刀片	WCMT	-	-	IB016
	DWC Indexable Drills - 2×D 可轉位內冷快速鑽	DWC	Internal	Ø14~Ø60	IB018
	DWC Indexable Drills - 3×D 可轉位內冷快速鑽	DWC	Internal	Ø14~Ø60	IB020
	DWC Indexable Drills - 4×D 可轉位內冷快速鑽	DWC	Internal	Ø14~Ø60	IB022
	DWC Indexable Drills - 5×D 可轉位內冷快速鑽	DWC	Internal	Ø16~Ø44	IB024

DTS 60° Indexable Spotting Drills

	DCEX, DCEW Inserts DCEX, DCEW 刀片	DCEX DCEW	-	-	IB026
	DTS 60° Indexable Spotting Drills 可轉位外冷定位鑽	DTS	External	Ø0.2~Ø6.8	IB026

DTS 90° Indexable Spotting Drills

	SCGX, SCMX Inserts SCGX, SCMX 刀片	SCGX SCMX	-	-	IB027
	TCMX Inserts TCMX 刀片	TCMX	-	-	IB027
	DTS 90° Indexable Spotting Drills 可轉位外冷定位鑽	DTS	External	Ø2~Ø11	IB027
	DTS 90° Indexable Spotting Drills 可轉位外冷定位鑽	DTS	External	Ø3~Ø20	IB027

Appearance	Items	Series	Coolant	ØRange	Page
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DB Series for Boring System

	CCMT Inserts CCMT 刀片	CCMT	-	-	IB030
	SCMT Inserts SCMT 刀片	SCMT	-	-	IB031
	TCMT Inserts TCMT 刀片	TCMT	-	-	IB032
	DB Rough boring head 雙刃粗搪刀	DB	External	Ø25~Ø204	IB033
	DB Rough boring tool 雙刃粗搪刀含 BT 刀柄	DB	External	Ø25~Ø204	IB034
	DBLA Rough boring head for large hole 大徑雙刃粗搪刀	DBLA	External	Ø200~Ø610	IB035
	DBLA Rough boring tool for large hole 大徑雙刃粗搪刀含 BT 刀柄	DBLA	External	Ø200~Ø610	IB036
	DBBT series taper shank DBBT 系列搪刀刀柄	DBBT	-	-	IB037

Indexable Drills



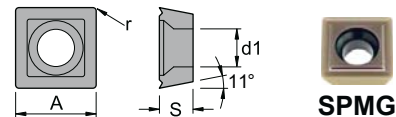


Features

- SPMG series inserts
- Optimized flute design
- Internal coolant
- Better tool life
- Self-Produced inserts
- Diameter 12.5-50 mm
- 使用 SPMG 系列刀片
- 排屑槽設計優化
- 內冷孔設計
- 良好刀具壽命
- 刀片全程自產，提供您最佳性價比
- 孔徑加工範圍：12.5-50mm

■ Insert Specifications

Insert	Dimensions (mm)			
	A	S	r	d1
SPMG050204	5.00	2.38	0.4	2.30
SPMG060204	6.00	2.38	0.4	2.65
SPMG07T308	7.94	3.97	0.8	2.85
SPMG090408	9.80	4.3	0.8	4.05
SPMG110408	11.50	4.8	0.8	4.45



■ Insert Geometry

Shape	Chipbreaker	Application
	MG	Low cutting force for medium cutting in steel, stainless and cast iron. 低切削阻力的刀口設計，適用於鋼件、不鏽鋼和鑄鐵的中加工應用

■ Insert Grade

Grade Type	Machining Application	Industry area
CX22HS	- Continuous semi-finishing machining - For hardened steel and cast Iron - 適用於連續穩定輕加工 - 適合高硬度鋼和鑄鐵銑削	- Die and mould - Hardened parts - 模具產業 - 硬質零件
CX32HS (CX31NS)	- Medium machining - For carbon steel, alloy steel and stainless steel - 適用於中加工 - 適合碳鋼，合金鋼和不鏽鋼銑削	- Auto parts - Machinery parts - 汽車零件 - 機械零件
CX43TS	- Roughing or interrupted machining - For carbon steel, alloy steel, stainless steel and superalloy. - 適用於粗加工或斷續加工 - 適合碳鋼，合金鋼，不鏽鋼及高溫合金銑削	- Auto parts - Machinery parts - Aircraft parts - 汽車零件 - 機械零件 - 航太零件

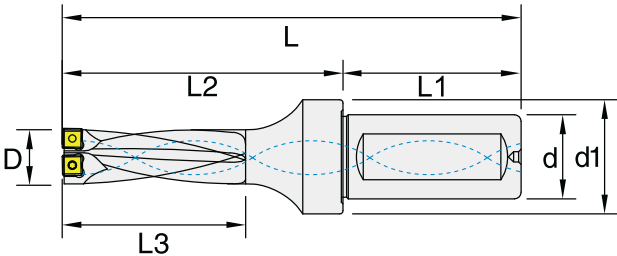
※ Different grades for various applications are available to select, please contact us for more information.
針對不同的加工應用，本公司提供不同的材質等級供選擇。如果您有需要，請與我們連繫。

■ Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	ISPMG050204MG22HS	SPMG050204-MG-CX22HS	●	○	●		○	●
	ISPMG050204MG31NS	SPMG050204-MG-CX31NS	●	○	●		○	○
	ISPMG050204MG32HS	SPMG050204-MG-CX32HS	●	●	●		○	○
	ISPMG050204MG43TS	SPMG050204-MG-CX43TS	●	●	●		●	
	ISPMG060204MG22HS	SPMG060204-MG-CX22HS	●	○	●		○	●
	ISPMG060204MG31NS	SPMG060204-MG-CX31NS	●	○	●		○	○
	ISPMG060204MG32HS	SPMG060204-MG-CX32HS	●	●	●		○	○
	ISPMG060204MG43TS	SPMG060204-MG-CX43TS	●	●	●		●	
	ISPMG07T308MG22HS	SPMG07T308-MG-CX22HS	●	○	●		○	●
	ISPMG07T308MG31NS	SPMG07T308-MG-CX31NS	●	○	●		○	○
	ISPMG07T308MG32HS	SPMG07T308-MG-CX32HS	●	●	●		○	○
	ISPMG07T308MG43TS	SPMG07T308-MG-CX43TS	●	●	●		●	
	ISPMG090408MG31NS	SPMG090408-MG-CX31NS	●	○	●		○	○
	ISPMG090408MG32HS	SPMG090408-MG-CX32HS	●	●	●		○	○
	ISPMG090408MG43TS	SPMG090408-MG-CX43TS	●	●	●		●	
	ISPMG090408RG22HS	SPMG090408-RG-CX22HS	●	○	●		○	●
	ISPMG090408RG31NS	SPMG090408-RG-CX31NS	●	○	●		○	○
	ISPMG090408RG32HS	SPMG090408-RG-CX32HS	●	●	●		○	○
	ISPMG090408RG43TS	SPMG090408-RG-CX43TS	●	●	●		●	
	ISPMG110408MG31NS	SPMG110408-MG-CX31NS	●	○	●		○	○
	ISPMG110408MG32HS	SPMG110408-MG-CX32HS	●	●	●		○	○
	ISPMG110408MG43TS	SPMG110408-MG-CX43TS	●	●	●		●	
	ISPMG110408RG22HS	SPMG110408-RG-CX22HS	●	○	●		○	●
	ISPMG110408RG31NS	SPMG110408-RG-CX31NS	●	○	●		○	○
	ISPMG110408RG32HS	SPMG110408-RG-CX32HS	●	●	●		○	○
	ISPMG110408RG43TS	SPMG110408-RG-CX43TS	●	●	●		●	

Product Specs

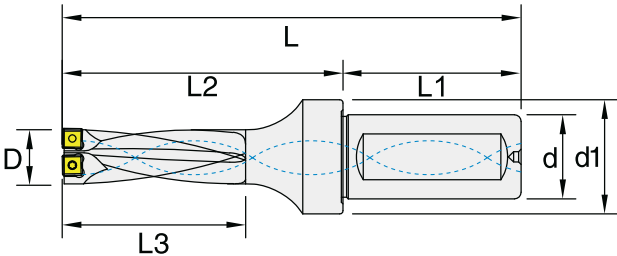
- 2×D Cutting depth
 - Use with SPMG series inserts
 - For Alloy Steel, Steel, Stainless Steel and Cast Iron.
- High durable SDK holder body
 - Indexable Insert with 4 sides cutting edge
- Internal Coolant



Order No. 訂購編碼	Dimensions, mm							Teeth	Insert	Screw	Wrench
	D	d	d1	L	L3	L2	L1				
IDSP125220T205	12.5	20	27	94	26	44	50	2	SPMG0502...	ITS2003	ITK06
IDSP130220T205	13							2			
IDSP135220T205	13.5							2			
IDSP140220T205	14							2			
IDSP145220T205	14.5							2			
IDSP150220T205	15							2			
IDSP155225T206	15.5	25	33	108	32	52	56	2	SPMG0602...	ITS2205	ITK06
IDSP160225T206	16							2			
IDSP165225T206	16.5							2			
IDSP170225T206	17							2			
IDSP175225T206	17.5							2			
IDSP180225T206	18							2			
IDSP185225T206	18.5							2			
IDSP190225T206	19							2			
IDSP195225T206	19.5							2			
IDSP200225T206	20							2			
IDSP205225T206	20.5							2			
IDSP210225T206	21							2			
IDSP215225T206	21.5							2			
IDSP220225T207	22							2	SPMG07T308	ITS2511	ITK08
IDSP225232T207	22.5	32	43	131	46	71	60	2			
IDSP230232T207	23							2			
IDSP235232T207	23.5							2			
IDSP240232T207	24							2			
IDSP245232T207	24.5							2			
IDSP250232T207	25							2			
IDSP255232T207	25.5							2			
IDSP260232T207	26							2			
IDSP265232T207	26.5							2			
IDSP270232T207	27							2			
IDSP275232T207	27.5							2			

Product Specs

- 2×D Cutting depth
 - Use with SPMG series inserts
 - For Alloy Steel, Steel, Stainless Steel and Cast Iron.
- High durable SDK holder body
 - Indexable Insert with 4 sides cutting edge
- Internal Coolant

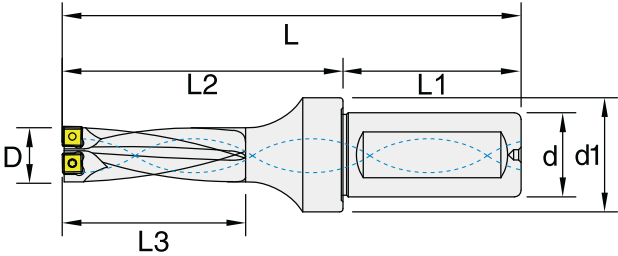


Order No. 訂購編碼	Dimensions, mm							Teeth	Insert	Screw	Wrench
	D	d	d1	L	L3	L2	L1				
IDSP280232T209	28	32	43	144	56	84	60	2	SPMG090408	ITS3504	ITK15
IDSP285232T209	28.5			146	58	86		2			
IDSP290232T209	29			148	60	88		2			
IDSP295232T209	29.5			150	62	90		2			
IDSP300232T209	30			152	64	92		2			
IDSP305232T209	30.5			154	66	94		2			
IDSP310232T209	31			156	68	96		2			
IDSP315232T209	31.5			158	70	98		2			
IDSP320232T209	32			160	72	100		2			
IDSP325232T209	32.5			162	74	102		2			
IDSP330232T209	33			164	76	104		2			
IDSP340232T211	34			166	78	106		2			
IDSP350232T211	35	40	53	168	80	108	60	2	SPMG110408	ITS4006	ITK15
IDSP360232T211	36			170	82	110		2			
IDSP370232T211	37			172	84	112		2			
IDSP380232T211	38			174	86	114		2			
IDSP390232T211	39			176	88	116		2			
IDSP400240T211	40			178	90	118		2			
IDSP410240T211	41	40	53	180	92	120	60	2	SPMG110408	ITS4006	ITK15
IDSP420240T211	42			182	94	122		2			

Cutting conditions (切削條件數據表) : Page IB034

Product Specs

- 3×D Cutting depth
 - Use with SPMG series inserts
 - For Alloy Steel, Steel, Stainless Steel and Cast Iron.
- High durable SDK holder body
 - Indexable Insert with 4 sides cutting edge
- Internal Coolant

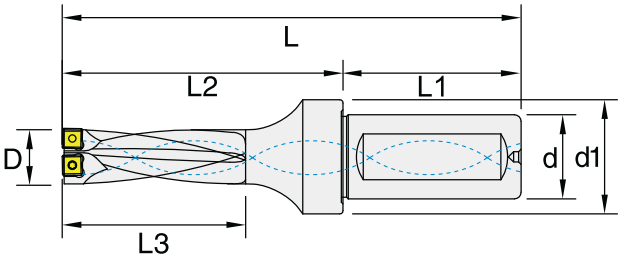


Order No. 訂購編碼	Dimensions, mm							Teeth	Insert	Screw	Wrench
	D	d	d1	L	L3	L2	L1				
IDSP125320T205	12.5	20	25	107	39	57	50	2	SPMG0502...	ITS2003	ITK06
IDSP130320T205	13							2			
IDSP135320T205	13.5							2			
IDSP140320T205	14							2			
IDSP145320T205	14.5							2			
IDSP150320T205	15							2			
IDSP155325T206	15.5	25	33	124	48	68	56	2	SPMG0602...	ITS2205	ITK06
IDSP160325T206	16							2			
IDSP165325T206	16.5							2			
IDSP170325T206	17							2			
IDSP175325T206	17.5							2			
IDSP180325T206	18							2			
IDSP185325T206	18.5							2			
IDSP190325T206	19							2			
IDSP195325T206	19.5							2			
IDSP200325T206	20							2			
IDSP205325T206	20.5							2			
IDSP210325T206	21							2			
IDSP215325T206	21.5							2			
IDSP220325T207	22							2	SPMG07T3...	ITS2511	ITK08
IDSP225332T207	22.5	32	43	154	69	94	60	2			
IDSP230332T207	23							2			
IDSP235332T207	23.5							2			
IDSP240332T207	24							2			
IDSP245332T207	24.5							2			
IDSP250332T207	25							2			
IDSP255332T207	25.5							2			
IDSP260332T207	26							2			
IDSP265332T207	26.5							2			
IDSP270332T207	27							2			
IDSP275332T207	27.5							2			

Cutting conditions (切削條件數據表) : Page IB034

Product Specs

- 3×D Cutting depth
 - Use with SPMG series inserts
 - For Alloy Steel, Steel, Stainless Steel and Cast Iron.
- High durable SDK holder body
 - Indexable Insert with 4 sides cutting edge
- Internal Coolant

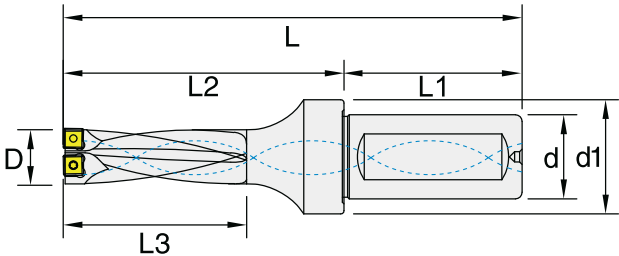


Order No. 訂購編碼	Dimensions, mm							Teeth	Insert	Screw	Wrench
	D	d	d1	L	L3	L2	L1				
IDSP280332T209	28	32	43	172	84	112	60	2	SPMG0904...	ITS3504	ITK15
IDSP285332T209	28.5			175	87	115		2			
IDSP290332T209	29			178	90	118		2			
IDSP295332T209	29.5			181	93	121		2			
IDSP300332T209	30			184	96	124		2			
IDSP305332T209	30.5			187	99	127		2			
IDSP310332T209	31			190	102	130		2			
IDSP315332T209	31.5			193	105	133		2			
IDSP320332T209	32			196	108	136		2			
IDSP325332T209	32.5			199	111	139		2			
IDSP330332T209	33			202	114	142		2			
IDSP340332T211	34			205	117	145		2			
IDSP350332T211	35	40	53	225	120	155		2	SPMG1104...	ITS4006	ITK15
IDSP360332T211	36			228	123	158		2			
IDSP370332T211	37							2			
IDSP380332T211	38							2			
IDSP390332T211	39							2			
IDSP400340T211	40	41						2			
IDSP410340T211	41							2			

Cutting conditions (切削條件數據表) : Page IB034

Product Specs

- 4×D Cutting depth
 - Use with SPMG series inserts
 - For Alloy Steel, Steel, Stainless Steel and Cast Iron.
- High durable SDK holder body
 - Indexable Insert with 4 sides cutting edge
- Internal Coolant

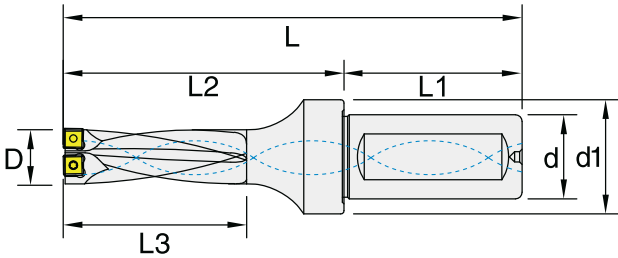


Order No. 訂購編碼	Dimensions, mm							Teeth	Insert	Screw	Wrench
	D	d	d1	L	L3	L2	L1				
IDSP125420T205	12.5	20	27	120	52	70	50	2	SPMG0502...	ITS2003	ITK06
IDSP130420T205	13							2			
IDSP135420T205	13.5							2			
IDSP140420T205	14			124	56	74		2			
IDSP145420T205	14.5							2			
IDSP150420T205	15			129	60	79		2			
IDSP155425T206	15.5	25	33	140	64	84	56	2	SPMG0602...	ITS2205	ITK06
IDSP160425T206	16							2			
IDSP165425T206	16.5			144	68	88		2			
IDSP170425T206	17							2			
IDSP175425T206	17.5			148	72	92		2			
IDSP180425T206	18							2			
IDSP185425T206	18.5			152	76	96		2			
IDSP190425T206	19							2			
IDSP195425T206	19.5			156	80	100		2			
IDSP200425T206	20							2			
IDSP205425T206	20.5			160	84	104		2			
IDSP210425T206	21							2			
IDSP215425T206	21.5			164	88	108		2			
IDSP220425T207	22							2	SPMG07T3...	ITS2511	ITK08
IDSP225432T207	22.5	32	43	177	92	117	60	2			
IDSP230432T207	23							2			
IDSP235432T207	23.5			181	96	121		2			
IDSP240432T207	24							2			
IDSP245432T207	24.5			185	100	125		2			
IDSP250432T207	25							2			
IDSP255432T207	25.5			189	104	129		2			
IDSP260432T207	26							2			
IDSP265432T207	26.5			196	108	136		2			
IDSP270432T207	27							2			
IDSP275432T207	27.5			200	112	140		2			

Cutting conditions (切削條件數據表) : Page IB034

Product Specs

- 4×D Cutting depth
 - Use with SPMG series inserts
 - For Alloy Steel, Steel, Stainless Steel and Cast Iron.
- High durable SDK holder body
 - Indexable Insert with 4 sides cutting edge
- Internal Coolant

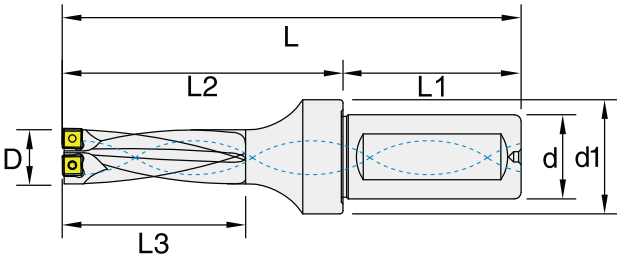


Order No. 訂購編碼	Dimensions, mm							Teeth	Insert	Screw	Wrench
	D	d	d1	L	L3	L2	L1				
IDSP280432T209	28	32	43	200	112	140	60	2	SPMG0904...	TS3504	TK15
IDSP285432T209	28.5			204	116	144		2			
IDSP290432T209	29							2			
IDSP295432T209	29.5							2			
IDSP300432T209	30			2							
IDSP305432T209	30.5			212	124	152		2			
IDSP310432T209	31							2			
IDSP315432T209	31.5							2			
IDSP320432T209	32			216	128	156		2			
IDSP325432T209	32.5							2			
IDSP330432T209	33							2			
IDSP340432T211	34			224	136	164		2	SPMG1104...	TS4006	TK15
IDSP350432T211	35							2			
IDSP360432T211	36							2			
IDSP370432T211	37							2			
IDSP380432T211	38							2			
IDSP390432T211	39							2			
IDSP400440T211	40	40	53					265			
IDSP410440T211	41			269	164	199		2			

Cutting conditions (切削條件數據表) : Page IB034

Product Specs

- 5×D Cutting depth
 - Use with SPMG series inserts
 - For Alloy Steel, Steel, Stainless Steel and Cast Iron.
- High durable SDK holder body
 - Indexable Insert with 4 sides cutting edge
- Internal Coolant



Order No. 訂購編碼	Dimensions, mm							Teeth	Insert	Screw	Wrench
	D	d	d1	L	L3	L2	L1				
IDSP130520T205	13	20	27	133	65	83	50	2	SPMG0502...	ITS2003	ITK06
IDSP140520T205	14			138	70	88		2			
IDSP150520T205	15			144	75	94		2			
IDSP160525T206	16	25	33	156	80	100	56	2	SPMG0602	ITS2205	ITK06
IDSP170525T206	17			161	85	105		2			
IDSP180525T206	18			166	90	110		2			
IDSP190525T206	19			171	95	115		2			
IDSP200525T206	20			176	100	120		2			
IDSP210525T206	21			181	105	125		2			
IDSP220525T207	22			186	110	130		2			
IDSP230532T207	23	32	43	200	115	140	60	2	SPMG07T3	ITS2511	ITK08
IDSP240532T207	24			205	120	145		2			
IDSP250532T207	25			210	125	150		2			
IDSP260532T207	26			215	130	155		2			
IDSP270532T207	27			223	135	163		2			
IDSP280532T209	28			228	140	168		2	SPMG0904	ITS3504	ITK15
IDSP290532T209	29			233	145	173		2			
IDSP300532T209	30			238	150	178		2			
IDSP310532T209	31			243	155	183		2			
IDSP320532T209	32			248	160	188		2			
IDSP330532T209	33			253	165	193		2	SPMG1104	ITS4006	ITK15
IDSP340532T211	34			258	170	198		2			
IDSP350532T211	35			263	175	203		2			
IDSP360532T211	36			268	180	208		2			

Cutting conditions (切削條件數據表) : Page IB034

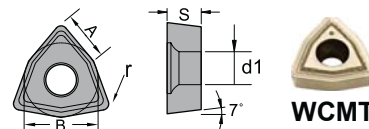


Features

- WCMT series inserts
- Optimized flute design
- Internal coolant
- Better tool life
- Self-Produced inserts
- Diameter 14-60 mm
- 使用 WCMT 系列刀片
- 排屑設計優化
- 內冷孔設計
- 良好刀具壽命
- 刀片全程自產，提供您最佳性價比
- 孔徑加工範圍 :14-60mm

■ Insert Specifications

Insert	Dimensions (mm)				
	A	B	S	r	d1
WCMT030208	3.8	5.56	2.38	0.8	2.8
WCMT040208	4.3	6.35	2.38	0.8	3.0
WCMT050308	5.4	7.94	3.18	0.8	3.4
WCMT06T308	6.5	9.53	3.97	0.8	4.0
WCMT080412	8.7	12.7	4.76	1.2	4.3



■ Insert Geometry

Shape	Chipbreaker	Application
	 MM	Low cutting force for medium cutting in steel, stainless and cast iron. 低切削阻力的刀口設計，適用於鋼件、不鏽鋼和鑄鐵的中加工應用

■ Insert Grade

Grade Type	Machining Application	Industry area
CX32HS (CX31NS)	• Medium machining • For carbon steel, alloy steel and stainless steel • 適用於中加工 • 適合碳鋼，合金鋼和不鏽鋼銑削	• Auto parts • Machinery parts • 汽車零件 • 機械零件
CX43TS	• Roughing or interrupted machining • For carbon steel, alloy steel, stainless steel and superalloy. • 適用於粗加工或斷續加工 • 適合碳鋼，合金鋼，不鏽鋼及高溫合金銑削	• Auto parts • Machinery parts • Aircraft parts • 汽車零件 • 機械零件 • 航太零件

※ Different grades for various applications are available to select, please contact us for more information.
針對不同的加工應用，本公司提供不同的材質等級供選擇。如果您有需要，請與我們連繫。

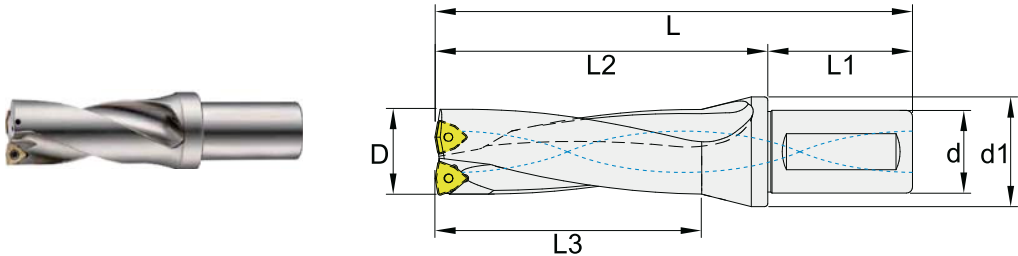
■ Insert Order Code

Insert	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IWCMT030208MM31NS	WCMT030208-MM-CX31NS	●	○	●		○	○
	IWCMT030208MM32HS	WCMT030208-MM-CX32HS	●	●	●		○	○
	IWCMT030208MM43TS	WCMT030208-MM-CX43TS	●	●	●		●	
	IWCMT040208MM31NS	WCMT040208-MM-CX31NS	●	○	●		○	○
	IWCMT040208MM32HS	WCMT040208-MM-CX32HS	●	●	●		○	○
	IWCMT040208MM43TS	WCMT040208-MM-CX43TS	●	●	●		●	
	IWCMT050308MM31NS	WCMT050308-MM-CX31NS	●	○	●		○	○
	IWCMT050308MM32HS	WCMT050308-MM-CX32HS	●	●	●		○	○
	IWCMT050308MM43TS	WCMT050308-MM-CX43TS	●	●	●		●	
	IWCMT06T308MM31NS	WCMT06T308-MM-CX31NS	●	○	●		○	○
	IWCMT06T308MM32HS	WCMT06T308-MM-CX32HS	●	●	●		○	○
	IWCMT06T308MM43TS	WCMT06T308-MM-CX43TS	●	●	●		●	
	IWCMT080412MM31NS	WCMT080412-MM-CX31NS	●	○	●		○	○
	IWCMT080412MM32HS	WCMT080412-MM-CX32HS	●	●	●		○	○
	IWCMT080412MM43TS	WCMT080412-MM-CX43TS	●	●	●		●	

Indexable Drills

Product Specs

- 2×D Cutting depth
 - Use with WCMT series inserts
 - For Alloy Steel, Steel, Stainless Steel and Cast Iron.
- High durable SDK holder body
 - Indexable Insert with 3 sides cutting edge
- Internal Coolant



Order No. 訂購編碼	Dimensions, mm							Teeth	Insert	Screw	Wrench			
	D	d	d1	L	L3	L2	L1							
IDWC140225T203	14	25	38	114	28	58	56	2	WCMT0302...	ITS2502	ITK08			
IDWC145225T203	14.5							2						
IDWC150225T203	15							116		30		60	2	
IDWC155225T203	15.5												2	
IDWC160225T203	16			119	32	63		2						
IDWC165225T203	16.5							2						
IDWC170225T203	17			120	34	64		2						
IDWC175225T203	17.5							2						
IDWC180225T203	18							122		36		66	2	
IDWC185225T203	18.5												2	
IDWC190225T203	19			124	38	68		2						
IDWC195225T203	19.5							2						
IDWC200225T203	20			126	40	70		2						
IDWC205225T203	20.5							2						
IDWC210225T204	21			32	43	128		42	72	60		2	WCMT0402...	ITS2507
IDWC215225T204	21.5											2		
IDWC220232T204	22	136	44				76					2		
IDWC225232T204	22.5											2		
IDWC230232T204	23					138		46	78			2		
IDWC235232T204	23.5											2		
IDWC240232T204	24	141	48			81	2							
IDWC245232T204	24.5						2							
IDWC250232T204	25	142	50			82	2							
IDWC255232T204	25.5						2							
IDWC260232T205	26						144	52	84		2			
IDWC270232T205	27										2			
IDWC280232T205	28	146	54			86					2			
IDWC290232T205	29										2			
IDWC300232T205	30	148	56			88	2							
							150	58	90		2			
				152	60					92	2			
														WCMT0503...

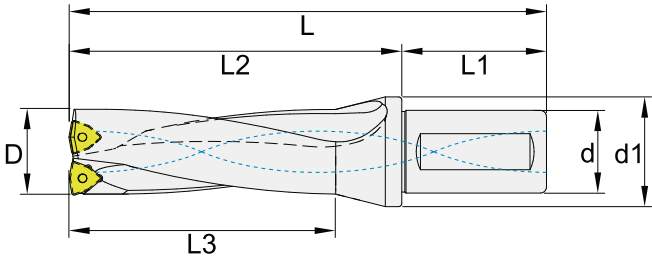
Cutting conditions (切削條件數據表) : Page IB034

DWC - 2×D

可轉位內冷快速鑽 - 2×D

Product Specs

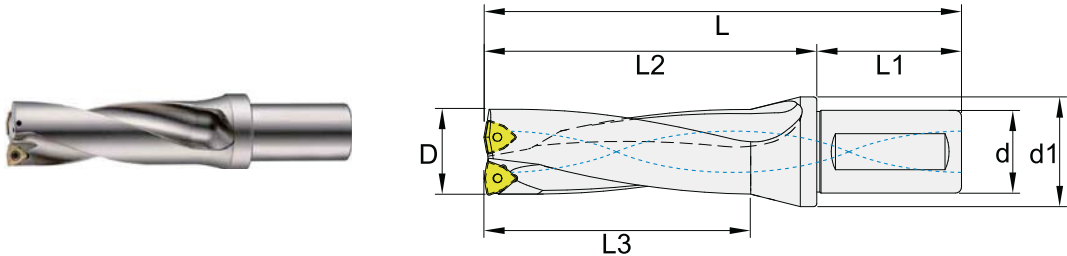
- 2×D Cutting depth
 - Use with WCMT series inserts
 - For Alloy Steel, Steel, Stainless Steel and Cast Iron.
- High durable SDK holder body
 - Indexable Insert with 3 sides cutting edge
- Internal Coolant



Order No. 訂購編碼	Dimensions, mm							Teeth	Insert	Screw	Wrench
	D	d	d1	L	L3	L2	L1				
IDWC310232T206	31	32	43	154	62	94	60	2	WCMT06T3...	ITS3504	
IDWC320232T206	32			156	64	96		2			
IDWC330232T206	33			159	66	99		2			
IDWC340232T206	34			160	68	100		2			
IDWC350232T206	35			162	70	102		2			
IDWC360232T206	36			164	72	104		2			
IDWC370232T206	37			166	74	106		2			
IDWC380232T206	38			168	76	106		2			
IDWC390232T206	39			170	78	110		2			
IDWC400240T206	40	40	54	185	80	115	70	2	WCMT0804...	ITS4004	ITK15
IDWC410240T206	41			187	82	117		2			
IDWC420240T208	42			189	84	119		2			
IDWC430240T208	43			191	86	121		2			
IDWC440240T208	44			194	88	124		2			
IDWC450240T208	45			195	90	125		2			
IDWC460240T208	46			197	92	127		2			
IDWC470240T208	47			199	94	129		2			
IDWC480240T208	48			201	96	131		2			
IDWC490240T208	49			202	98	132		2			
IDWC500240T208	50			204	100	134		2			
IDWC510240T208	51			206	102	136		2			
IDWC520240T208	52			208	104	138		2			
IDWC530240T208	53			210	106	140		2			
IDWC540240T208	54			212	108	142		2			
IDWC550240T208	55		58	215	110	145		2			
IDWC560240T208	56			217	112	147		2			
IDWC570240T208	57			219	114	149		2			
IDWC580240T208	58		59	221	116	151		2			
IDWC590240T208	59			223	118	153		2			
IDWC600240T208	60		63	225	120	155					

Product Specs

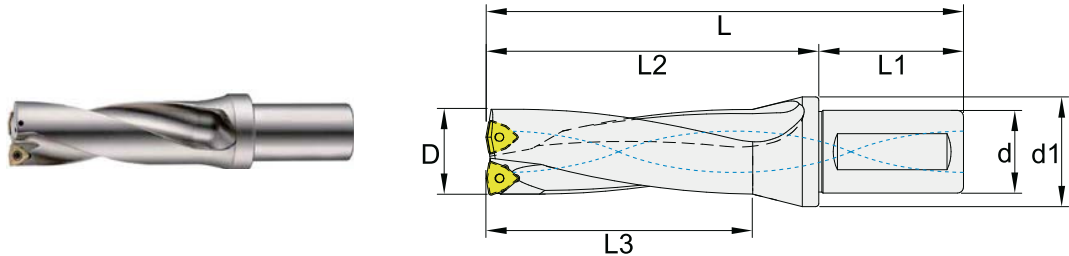
- 3×D Cutting depth
 - Use with WCMT series inserts
 - For Alloy Steel, Steel, Stainless Steel and Cast Iron.
- High durable SDK holder body
 - Indexable Insert with 3 sides cutting edge
- Internal Coolant



Order No. 訂購編碼	Dimensions, mm							Teeth	Insert	Screw	Wrench	
	D	d	d1	L	L3	L2	L1					
IDWC140325T203	14	25	38	128	42	72	56	2	WCMT0302...	ITS2502	ITK08	
IDWC145325T203	14.5							2				
IDWC150325T203	15			131	45	75		2				
IDWC155325T203	15.5							2				
IDWC160325T203	16			134	48	78		2				
IDWC165325T203	16.5							2				
IDWC170325T203	17			137	51	81		2				
IDWC175325T203	17.5							2				
IDWC180325T203	18			140	54	84		2				
IDWC185325T203	18.5							2				
IDWC190325T203	19			143	57	87		2				
IDWC195325T203	19.5							2				
IDWC200325T203	20			146	60	90		2				
IDWC205325T203	20.5							2				
IDWC210325T204	21	149	63	93	2	WCMT0402...	ITS2507					
IDWC215325T204	21.5				151			64	95	2		
IDWC220332T204	22	32	43	158	66			98	2			
IDWC225332T204	22.5								2			
IDWC230332T204	23			161	69			101	2			
IDWC235332T204	23.5								2			
IDWC240332T204	24			164	72			104	2			
IDWC245332T204	24.5								2			
IDWC250332T204	25			167	75			107	2			
IDWC255332T204	25.5								2			
IDWC260332T205	26			170	78			110	2	WCMT0503...	ITS3007	ITK10
IDWC270332T205	27			173	81			113	2			
IDWC280332T205	28			176	84			116	2			
IDWC290332T205	29			179	87			119	2			
IDWC300332T205	30			30.5	182	90	122	125	2	WCMT06T3...	ITS3504	ITK15
IDWC305332T206	30.5					93	125		2			
IDWC310332T206	31	93	125			2						

Product Specs

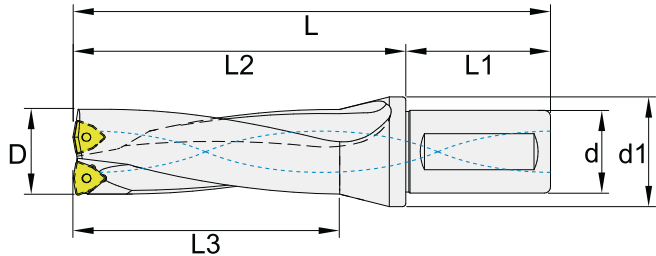
- 3×D Cutting depth
 - Use with WCMT series inserts
 - For Alloy Steel, Steel, Stainless Steel and Cast Iron.
- High durable SDK holder body
 - Indexable Insert with 3 sides cutting edge
- Internal Coolant



Order No. 訂購編碼	Dimensions, mm							Teeth	Insert	Screw	Wrench
	D	d	d1	L	L3	L2	L1				
IDWC315332T206	31.5	32	43	185	93	125	60	2	WCMT06T3...	ITS3504	
IDWC320332T206	32			188	96	128		2			
IDWC325332T206	32.5			188	96	128		2			
IDWC330332T206	33			191	99	131		2			
IDWC340332T206	34			194	102	134		2			
IDWC350332T206	35			197	105	137		2			
IDWC360332T206	36			200	108	140		2			
IDWC370332T206	37			203	111	143		2			
IDWC380332T206	38			206	114	146		2			
IDWC390332T206	39			209	117	149		2			
IDWC400340T206	40	40	54	225	120	155	70	2	WCMT0804...	ITS4004	ITK15
IDWC410340T206	41			228	123	158		2			
IDWC420340T208	42			231	126	161		2			
IDWC430340T208	43			234	129	164		2			
IDWC440340T208	44			238	132	168		2			
IDWC450340T208	45			240	135	170		2			
IDWC460340T208	46			243	138	173		2			
IDWC470340T208	47			246	141	176		2			
IDWC480340T208	48			249	144	179		2			
IDWC490340T208	49			253	147	182		2			
IDWC500340T208	50			254	150	184		2			
IDWC510340T208	51			257	153	187		2			
IDWC520340T208	52			260	156	190		2			
IDWC530340T208	53			263	159	193		2			
IDWC540340T208	54			266	162	196		2			
IDWC550340T208	55		58	270	165	200		2			
IDWC560340T208	56			273	168	203		2			
IDWC570340T208	57		59	276	171	205		2			
IDWC580340T208	58			279	174	209		2			
IDWC590340T208	59		63	282	177	212		2			
IDWC600340T208	60			285	180	215		2			

Product Specs

- 4×D Cutting depth
 - Use with WCMT series inserts
 - For Alloy Steel, Steel, Stainless Steel and Cast Iron.
- High durable SDK holder body
 - Indexable Insert with 3 sides cutting edge
- Internal Coolant

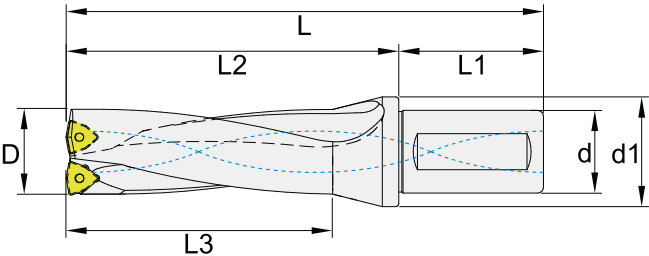


Order No. 訂購編碼	Dimensions, mm							Teeth	Insert	Screw	Wrench
	D	d	d1	L	L3	L2	L1				
IDWC140425T203	14	25	38	142	56	86	56	2	WCMT0302...	ITS2502	ITK08
IDWC150425T203	15			146	60	90		2			
IDWC160425T203	16			150	64	94		2			
IDWC170425T203	17			154	68	98		2			
IDWC180425T203	18			158	72	102		2			
IDWC190425T203	19			162	76	106		2			
IDWC200425T203	20			166	80	110		2			
IDWC210425T204	21			170	84	114		2			
IDWC220432T204	22	32	43	180	88	120	60	2	WCMT0402...	ITS2507	ITK10
IDWC230432T204	23			184	92	124		2			
IDWC240432T204	24			188	96	128		2			
IDWC250432T204	25			192	100	132		2			
IDWC260432T205	26			196	104	136		2	WCMT0503...	ITS3007	ITK15
IDWC270432T205	27			200	108	140		2			
IDWC280432T205	28			204	112	144		2			
IDWC290432T205	29			208	116	148		2			
IDWC300432T205	30			212	120	152		2	WCMT06T3...	ITS3504	ITK15
IDWC310432T206	31			216	124	156		2			
IDWC320432T206	32			220	128	160		2			
IDWC330432T206	33			224	132	164		2			
IDWC340432T206	34			228	136	168		2			
IDWC350432T206	35			232	140	172		2			
IDWC360432T206	36			236	144	176		2			
IDWC370432T206	37			240	148	180		2			
IDWC380432T206	38			244	152	184		2			
IDWC390432T206	39			248	156	188		2			
IDWC400440T206	40	40	54	265	160	195	70	2			
IDWC410440T206	41			269	164	199		2			

Cutting conditions (切削條件數據表) : Page IB034

Product Specs

- 4×D Cutting depth
 - Use with WCMT series inserts
 - For Alloy Steel, Steel, Stainless Steel and Cast Iron.
- High durable SDK holder body
 - Indexable Insert with 3 sides cutting edge
- Internal Coolant

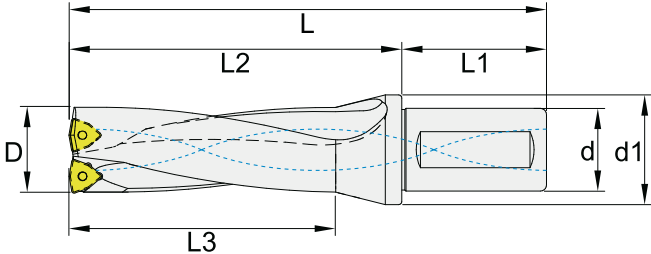


Order No. 訂購編碼	Dimensions, mm							Teeth	Insert	Screw	Wrench
	D	d	d1	L	L3	L2	L1				
IDWC420440T208	42	40	54	273	168	203	70	2	WCMT0804...	ITS4004	ITK15
IDWC430440T208	43			277	172	207		2			
IDWC440440T208	44			282	176	212		2			
IDWC450440T208	45			285	180	215		2			
IDWC460440T208	46			289	184	219		2			
IDWC470440T208	47			293	188	223		2			
IDWC480440T208	48			297	192	227		2			
IDWC490440T208	49			301	196	231		2			
IDWC500440T208	50			305	200	235		2			
IDWC510440T208	51			309	204	239		2			
IDWC520440T208	52			313	208	243		2			
IDWC530440T208	53			317	212	247		2			
IDWC540440T208	54			320	216	250		2			
IDWC550440T208	55			325	220	255		2			
IDWC560440T208	56		58	329	224	259		2			
IDWC570440T208	57			333	228	263		2			
IDWC580440T208	58		59	337	232	267		2			
IDWC590440T208	59			341	236	271		2			
IDWC600440T208	60		63	345	240	275		2			

Cutting conditions (切削條件數據表) : Page IB034

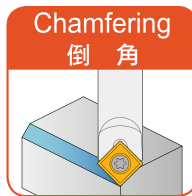
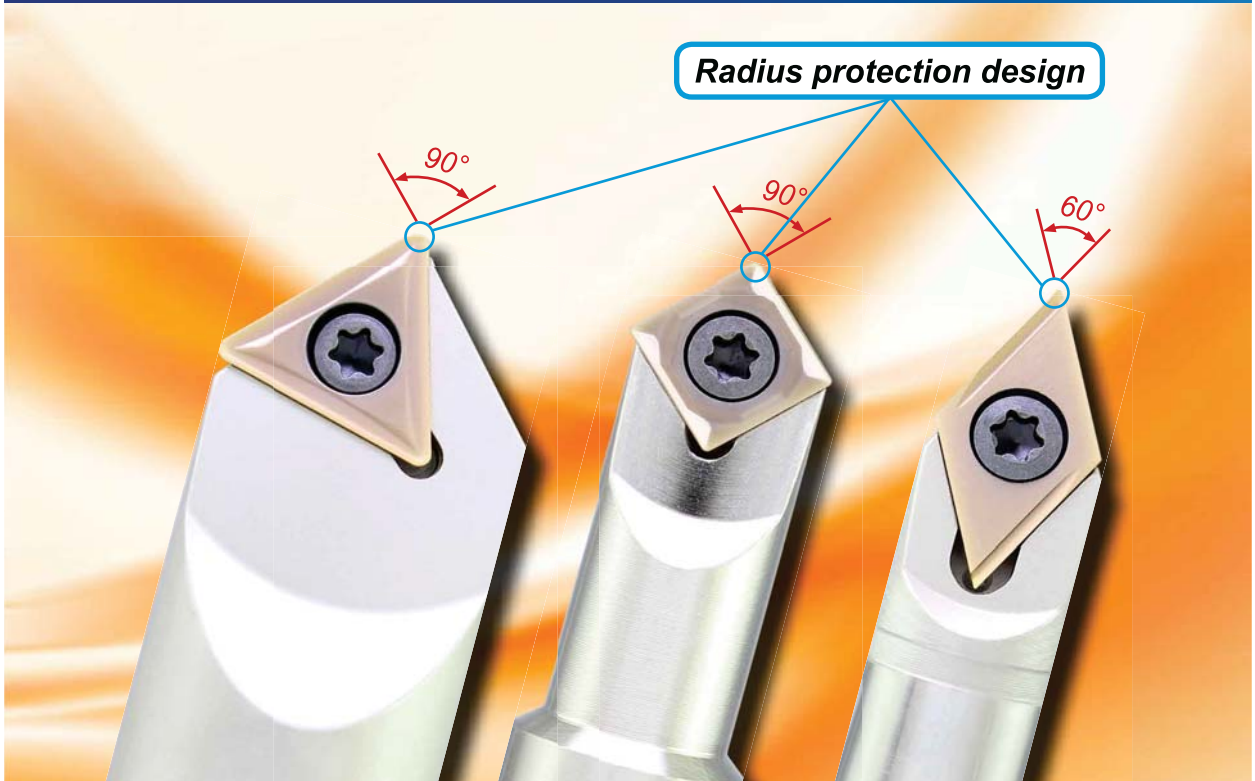
Product Specs

- 5×D Cutting depth
 - Use with WCMT series inserts
 - For Alloy Steel, Steel, Stainless Steel and Cast Iron.
- High durable SDK holder body
 - Indexable Insert with 3 sides cutting edge
- Internal Coolant



Order No. 訂購編碼	Dimensions, mm							Teeth	Insert	Screw	Wrench
	D	d	d1	L	L3	L2	L1				
IDWC160525T203	16	25	38	166	80	110	56	2	WCMT0302...	ITS2507	ITK08
IDWC170525T203	17	25	38	171	85	115	56	2			
IDWC180525T203	18	25	38	176	90	120	56	2			
IDWC190525T203	19	25	38	181	95	125	56	2			
IDWC200525T203	20	25	38	186	100	130	56	2			
IDWC210525T203	21	25	38	191	105	135	56	2			
IDWC220525T203	22	25	38	196	110	140	56	2			
IDWC230532T204	23	32	43	207	115	147	60	2	WCMT0402...	ITS2507	ITK08
IDWC240532T204	24	32	43	212	120	152	60	2			
IDWC250532T204	25	32	43	217	125	157	60	2			
IDWC260532T205	26	32	43	222	130	162	60	2	WCMT0503...	ITS3007	ITK10
IDWC270532T205	27	32	43	227	135	167	60	2			
IDWC280532T205	28	32	43	232	140	172	60	2			
IDWC290532T205	29	32	43	237	145	177	60	2			
IDWC300532T205	30	32	43	242	150	182	60	2			
IDWC310532T206	31	32	43	247	155	187	60	2	WCMT06T3...	ITS3504	ITK15
IDWC320532T206	32	32	43	252	160	192	60	2			
IDWC330532T206	33	32	43	257	165	197	60	2			
IDWC340532T206	34	32	43	262	170	202	60	2			
IDWC350532T206	35	32	43	267	175	207	60	2			
IDWC360532T206	36	32	43	272	180	212	60	2			
IDWC440540T208	44	40	54	326	220	256	70	2	WCMT0804...	ITS4004	ITK15

Cutting conditions (切削條件數據表) : Page IB034



Features

- Multiple-function in one tool.
- Many cutting edges insert for better cost efficiency.
- Working size up to 20mm.
- 適用於多種加工用途
- 更經濟的多個切削刀口
- 加工尺寸可達 20mm

Insert Order Code and Specifications

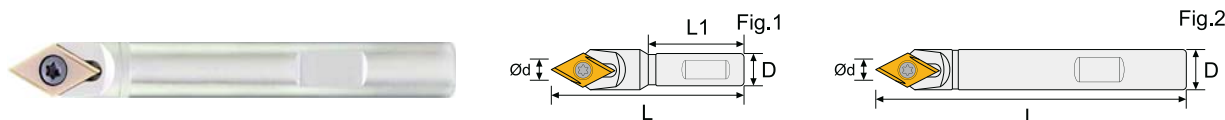
Insert	Order No. 訂購編碼	Designation	r	Working Ød		Working Materials						Figure
				Spotting	Engraving	P	M	K	N	S	H	
	IDCEX11T301XF32HS	DCEX11T301-XF-CX32HS	0.1	0.2 ~ 6.8	0.2 ~ 1	●	●	●	※	○	○	
	IDCEX11T302XF32HS	DCEX11T302-XF-CX32HS	0.2	0.4 ~ 6.8	0.4 ~ 2	●	●	●	※	○	○	
	IDCEX11T304XF32HS	DCEX11T304-XF-CX32HS	0.4	0.8 ~ 6.8	0.8 ~ 3	●	●	●	※	○	○	
	IDCEX11T304XR32HS	DCEX11T304-XR-CX32HS	0.4	0.8 ~ 6.8	0.8 ~ 3	●	●	●	※	○	○	
	IDCEX11T308XR32HS	DCEX11T308-XR-CX32HS	0.8	0.8 ~ 6.8	0.8 ~ 3	●	●	●	※	○	○	

※ To choose CX10(uncoating) for **N** material machining. ※ 若要加工 **N** 材質，請選擇 CX10(無塗層) 刀片

Insert Grade

Grade Type	Machining Application	Industry area
CX32HS	- Medium machining - For carbon steel, alloy steel and stainless steel - 適用於中加工 - 適合碳鋼，合金鋼和不鏽鋼銑削	- Auto parts - Machinery parts - 汽車零件 - 機械零件

Holder Order Code and Specifications



Order No. 訂購編碼	D	L	L1	Degree	Fig	Insert	Screw	Wrench
IDTS1006006011	10	60	30	60°	1	DCEX11T304 or DCEX11T308	ITS3520	ITK15
IDTS1210006011	12	100	-	60°	2	DCEX11T301 or DCEX11T302		
IDTS1006126011	10	60	30	60°	1	DCEX11T301 or DCEX11T302		
IDTS1210126011	12	100	-	60°	2	DCEX11T301 or DCEX11T302		

Cutting conditions (切削條件數據表) : Page IB035

■ **Insert Order Code and Specifications**

Insert	Order No. 訂購編碼	Designation	r	Working Ød		Working Materials						Figure
				Spotting	Engraving	P	M	K	N	S	H	
	ISCGX09T304AG10	SCGX09T304-AG-CX10	0.4	2 ~ 11	0.8 ~ 2.5				●			
	ISCMX09T304SM32HS	SCMX09T304-SM-CX32HS	0.4	2 ~ 11	0.8 ~ 2.5	●	●	●		○		
	ISCMX09T304SP32HS	SCMX09T304-SP-CX32HS	0.4	2 ~ 11	0.8 ~ 2.5	●		●			○	
	ITCMX16T308MP32HS	TCMX16T308-MP-CX32HS	0.8	3 ~ 20	1.6 ~ 4.0	●	●	●		○	○	

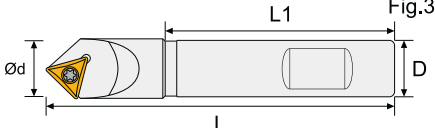
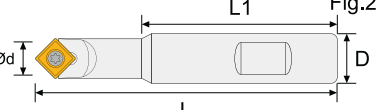
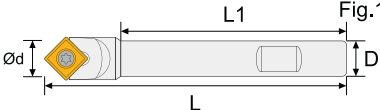
■ **Insert Grade**

Grade Type	Machining Application	Industry area
CX32HS	● Medium machining ● For carbon steel, alloy steel and stainless steel ● 適用於中加工 ● 適合碳鋼，合金鋼和不鏽鋼銑削	● Auto parts ● Machinery parts ● 汽車零件 ● 機械零件

■ **Holder Order Code and Specifications**







Order No. 訂購編碼	D	L	L1	Degree	Fig	Insert	Screw	Wrench
IDTS1010009009	10	100	71	90°	1	SCGX09T3 or SCMX09T3	ITS3520	ITK15
IDTS1210009009	12	100	71	90°	2			
IDTS1610009009	16	100	71	90°				
IDTS1613009009	16	130	101	90°				
IDTS2012009016	20	120	78	90°	3	TCMX16T3	ITS3521	



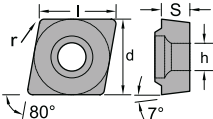


Features

- Easy to adjust
- High rigidity tool body
- Various inserts available
- Diameter 25mm to 610mm
- 易於調整加工孔徑
- 高剛性合金鋼本體
- 可適用多種刀片
- 適用 **25-610mm** 孔徑加工

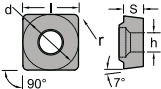
CCMT - Boring Inserts

搪孔刀片

Inserts	Item No.	Grade No.						Dimensions (mm)					Drawing
		CX2545	CX2555	CX2560				d	l	S	r	h	
	CCMT 060204-MP		✓	✓				6.35	6.4	2.38	0.4	2.8	
	09T304-MP		✓	✓				9.53	9.7	3.97	0.4	4.4	
	09T308-MP		✓	✓				9.53	9.7	3.97	0.8	4.4	
	CCMT 060202-MG		✓	✓				6.35	6.4	2.38	0.4	2.8	
	060204-MG	✓	✓	✓				6.35	6.4	2.38	0.4	2.8	
	09T304-MG	✓	✓	✓				9.53	9.7	3.97	0.4	4.4	
	09T308-MG	✓	✓	✓				9.53	9.7	3.97	0.8	4.4	
	120408-MG	✓	✓	✓				12.7	12.9	4.76	0.8	5.5	

SCMT - Boring Inserts

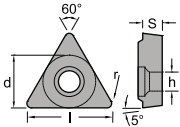
搪孔刀片

Inserts	Item No.	Grade No.						Dimensions (mm)					Drawing
		CX2545	CX2555	CX2560				d	l	S	r	h	
	SCMT 09T304-MP		✓	✓				9.53	9.53	3.97	0.4	4.4	
	SCMT 09T304-MG	✓	✓	✓				9.53	9.53	3.97	0.4	4.4	
	09T308-MG	✓	✓	✓				9.53	9.53	3.97	0.8	4.4	

Indexable Boring Tools

TCMT - Boring Inserts

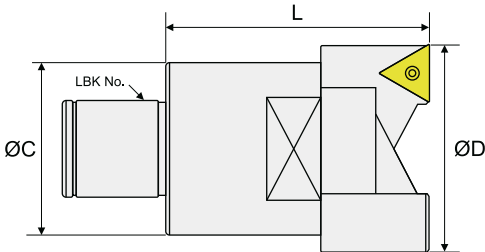
搪孔刀片

Inserts	Item No.	Grade No.						Dimensions (mm)					Drawing
		CX2545	CX2555	CX2560				d	l	S	r	h	
	TCMT 110204-MP		✓	✓				6.35	11.0	2.38	0.4	2.8	
	TCMT 110204-MG	✓	✓	✓				6.35	11.0	2.38	0.4	2.8	
	16T304-MG	✓	✓	✓				9.53	16.5	3.97	0.4	4.4	
	16T308-MG	✓	✓	✓				9.53	16.5	3.97	0.8	4.4	

DB Rough Boring Head

雙刃粗搪刀

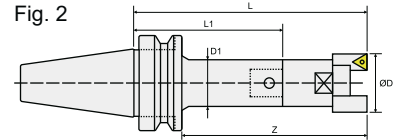
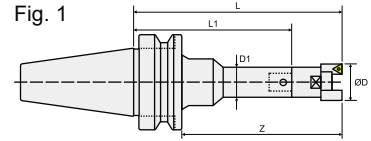
- Adjustable twin boring arm system for variety situation of rough boring.
- Reliable cartridge system provides high rigidity and efficiency.
- Step boring arm design, suitable for single bit boring, twin bit boring, and step boring.
- Side division easy to adjust tool extended without pre-setter.
- Boring diameter from 25mm to 204mm.



Indexable Boring Tools

	Order No. 訂購編碼	LBK No.	Boring Range ØD (mm)	L (mm)	C (mm)	Insert	Weight (kg)
	IDB2533C	IDB2	25 ~ 33	45	24	CCMT060204	0.15
	IDB3242C	IDB3	32 ~ 42	55	31	CCMT060204	0.3
	IDB3242T					TCMT110204	
	IDB4055C	IDB4	40 ~ 55	65	39	CCMT09T304	0.5
	IDB4055T					TCMT16T304	
	IDB4055S					SCMT09T304	
	IDB5270C	IDB5	52 ~ 70	75	50	CCMT09T304	1.0
	IDB5270T					TCMT16T304	
	IDB5270S					SCMT09T304	
	IDB6892C	IDB6	68 ~ 92	85	64	CCMT120408	2.0
	IDB6892T					TCMT16T304	
	IDB6892S					SCMT09T304	
	IDB90122C		90 ~ 122	100	80	CCMT120408	2.9
	IDB120164C	IDB20	120 ~ 164	100	100	CCMT120408	3.8
	IDB160204C		160 ~ 204	130	130	CCMT120408	4.8

Cutting conditions (切削條件數據表) : Page IB037



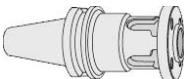
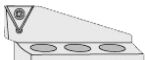
Order No. 訂購編碼	Type	ØD (mm)	Z (mm)	Tool Connection		LBK No.	L (mm)	L1 (mm)	D1 (mm)	Weight (kg)
				IDB Shank Type	Boring Head Type					
IDBBT3025125	Fig. 2	25 ~ 33	95	IDBBT30280	IDB2533	IDB2	125	80	24	0.8
IDBBT3032135		32 ~ 42	105	IDBBT30380	IDB3242	IDB3	135		31	1.0
IDBBT3040135		40 ~ 55		IDBBT30470	IDB4055	IDB4		70	39	1.3
IDBBT3052135		52 ~ 70	IDBBT30560	IDB5270	IDB5	60	50	1.8		
IDBBT3068145		68 ~ 92	IDBBT30660	IDB6892	IDB6		145	64	3.0	
IDBBT3090160		90 ~ 122		130			IDB90122		160	3.9
IDBBT4025130		25 ~ 33	95	IDBBT40285	IDB2533	IDB2	130	85	24	1.3
IDBBT4032150		32 ~ 42	115	IDBBT40395	IDB3242	IDB3	150	95	31	1.5
IDBBT4040150		40 ~ 55		IDBBT40485	IDB4055	IDB4		85	39	1.8
IDBBT4052150		52 ~ 70		IDBBT40575	IDB5270	IDB5		75	50	2.3
IDBBT4068150		68 ~ 92		IDBBT40665	IDB6892	IDB6		65	64	3.3
IDBBT4090165		90 ~ 122	IDB90122		4.2					
IDBBT40120165		120 ~ 164	130	IDBBT4012070	IDB120164	IDB120	165	70	95	7.0
IDBBT40160165		160 ~ 204			IDB160204					8.0
IDBBT5025155		25 ~ 33	105	IDBBT502110	IDB2533	IDB2	155	110	24	4.1
IDBBT5032180		32 ~ 42	130	IDBBT503125	IDB3242	IDB3	180	125	31	4.4
IDBBT5040180		40 ~ 55		IDBBT504115	IDB4055	IDB4		115	39	4.8
IDBBT5040240			190	IDBBT504175			240	175		5.3
IDBBT5052180		52 ~ 70	130	IDBBT505105	IDB5270	IDB5	180	105	50	5.5
IDBBT5052255			205	IDBBT505180			255	180		6.5
IDBBT5052315			265	IDBBT505240			315	240		7.2
IDBBT5068180			130	IDBBT50695			180	105		64
IDBBT5068255		205	IDBBT506170	255	180	8.3				
IDBBT5068315		265	IDBBT506230	315	240	9.6				
IDBBT5068375		325	IDBBT506290	375	290	11.0				
IDBBT5068435	Fig. 1	385	IDBBT506350	435	350	15.5				
IDBBT5090195	Fig. 2	90 ~ 122	145	IDBBT50695	IDB90122	IDB6	195	95	7.4	
IDBBT5090270			220	IDBBT506170			270	170	9.2	
IDBBT5090330	280		IDBBT506230	330			230	10.5		
IDBBT5090390	340		IDBBT506290	390			290	11.9		
IDBBT5090450	400		IDBBT506350	450			350	16.4		
IDBBT50120195	Fig. 2	160 ~ 204	150	IDBBT50120100	IDB120164	IDB120	195	100	95	8.8
IDBBT50120295			250	IDBBT50200			295	200		11.3
IDBBT50120395			350	IDBBT50300			395	300		13.8
IDBBT50120495			450	IDBBT50400			495	400		16.3
IDBBT50160195			150	IDBBT50100			195	100		9.8
IDBBT50160295			250	IDBBT50200			295	200		12.3
IDBBT50160395			350	IDBBT50300			395	300		14.8
IDBBT50160495			450	IDBBT50400				400		17.3

DBLA Rough Boring Head For Large Hole

大徑雙刀粗搪刀

- Optional accessories for different boring work and working diameter.
- Reliable cartridge system provides high rigidity and efficiency.
- Alloy steel body provides great rigidity to large size rough boring.
- Variable inserts for different material of rough boring.
- Boring diameter from 200mm to 610mm.



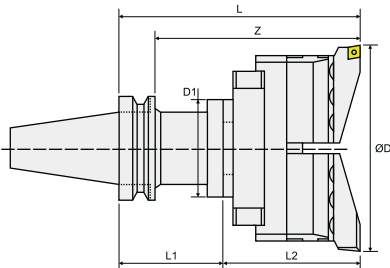
Boring Head	Order No. 訂購編碼		IDBLA200	IDBLA300	IDBLA400	IDBLA500
	Length (mm)		130			
	Total Weight (kg)		9.5	11.5	13.5	15.5
Module	Boring Range (mm)		200 ~ 310	300 ~ 410	400 ~ 510	500 ~ 610
	Shank		IDB-BT50-120-165			
	Flange		BR200			
	Weight (kg)		2.7			
	Extension Slide		RST200	RST300	RST400	RST500
	Weight (kg)		3.4	5.4	7.4	9.4
	Clamp Base		RS200			
	Weight (kg)		0.98			
	Height Setting Shim		RS201			
	Weight (kg)		0.05			
	Insert Height		RB200C12, RB200T16			
	Insert		CCMT1204..., TCMT16T3...			
	Weight (kg)		0.68			

Cutting conditions (切削條件數據表) : Page IB037

Indexable Boring Tools

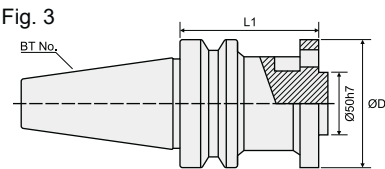
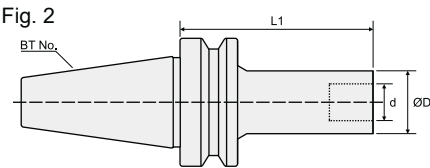
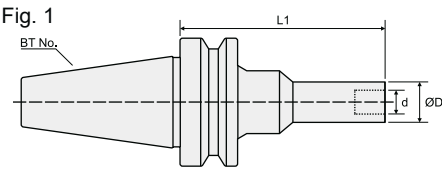
DBLA Rough Boring Tool For Large Hole

大徑雙刃粗搪刀含 BT 刀柄



Order No. 訂購編碼	Boring Range ØD(mm)	Z (mm)	Shank Type	Boring Head Type	LNK No.	L (mm)	L1 (mm)	D1 (mm)	Weight
IDBLABT50200230	200 ~ 310	185	IDBBT50120100	IDBLA200	IDB120	230	100	95	18
IDBLABT50200330		285	IDBBT50120200			330	200		19
IDBLABT50200430		385	IDBBT50120300			430	300		23
IDBLABT50200530		485	IDBBT50120400			530	400		27
IDBLABT50300230	300 ~ 410	185	IDBBT50120100	IDBLA300		230	100		20
IDBLABT50300330		285	IDBBT50120200			330	200		21
IDBLABT50300430		385	IDBBT50120300			430	300		25
IDBLABT50300530		485	IDBBT50120400			530	400		29
IDBLABT50400230	400 ~ 510	185	IDBBT50120100	IDBLA400		230	100		22
IDBLABT50400330		285	IDBBT50120200			330	200		23
IDBLABT50400430		385	IDBBT50120300			430	300		27
IDBLABT50400530		485	IDBBT50120400			530	400		31
IDBLABT50500230	500 ~ 610	185	IDBBT50120100	IDBLA500		230	100		24
IDBLABT50500330		285	IDBBT50120200			330	200		25
IDBLABT50500430		385	IDBBT50120300			430	300		29
IDBLABT50500530		485	IDBBT50120400			530	400		33

Cutting conditions (切削條件數據表) : Page IB037



Order No. 訂購編碼	Type	OAL with boring head (L) (mm)	L1 (mm)	ØD (mm)	Weight
IDBBT301105	Fig. 2	105	70	19	0.70
IDBBT302120		120	80	24	0.80
IDBBT303120		120	80	31	0.90
IDBBT304120		120	70	39	1.00
IDBBT305120		120	60	50	1.10
IDBBT306130		130	60	64	1.20
IDBBT401110		110	75	19	1.20
IDBBT402125		125	85	24	1.30
IDBBT403135		135	95	31	1.45
IDBBT404135		135	85	39	1.50
IDBBT405135		135	75	50	1.40
IDBBT406135		135	65	64	2.15
IDBBT501150	Fig. 1	150	115	19	3.50
IDBBT502150	Fig. 2	155	110	24	4.20
IDBBT503165		165	125	31	4.40
IDBBT504165		165	115	39	4.80
IDBBT504225		225	175	39	5.20
IDBBT505165		165	105	50	5.90
IDBBT505240		240	180	50	6.50
IDBBT505300		300	240	50	6.90
IDBBT506165		165	95	64	4.09
IDBBT506240		240	170	64	6.15
IDBBT506300		300	230	64	7.74
IDBBT506360	Fig. 1	290	290	64	9.07
IDBBT506420	Fig. 2	420	350	90	13.51
IDBBT40120200	Fig. 3	170	70	95	3.20
IDBBT50120230		205	105	95	5.71
IDBBT50120330		300	200	95	8.79
IDBBT50120430		400	300	95	11.25
IDBBT50120530		530	430	95	13.74

DSP Series (2×D, 3×D)

Work Material		Hardness	Vc (m/min)	Feed Rate (mm/rev)				
				SPMG05 Ø13-Ø15	SPMG06 Ø16-Ø21	SPMG07 Ø22-Ø27	SPMG09 Ø28-Ø33	SPMG11 Ø34-Ø41
P	Mild Steel	(<180HB)	220~350	0.04~0.08	0.05~0.10	0.06~0.13	0.07~0.15	0.08~0.18
	Carbon Steel	(180~280HB)	100~150	0.04~0.08	0.05~0.09	0.06~0.12	0.07~0.13	0.08~0.15
	Alloy Steel	(280~350HB)	80~140	0.04~0.07	0.05~0.08	0.05~0.09	0.06~0.12	0.07~0.14
M	Stainless Steel	(<200HB)	80~180	0.04~0.08	0.05~0.09	0.05~0.10	0.06~0.12	0.07~0.14
K	Cast Iron	(<350Mpa)	150~250	0.05~0.09	0.07~0.12	0.08~0.15	0.09~0.17	0.12~0.20
	Ductile Cast Iron	(<450Mpa)	100~160	0.05~0.08	0.06~0.11	0.07~0.13	0.08~0.15	0.10~0.18
N	Aluminum <12% Si	-	300~400	0.05~0.11	0.07~0.13	0.08~0.15	0.09~0.20	0.12~0.25
	Aluminum >12% Si	-	200~330	0.04~0.08	0.05~0.10	0.06~0.13	0.07~0.15	0.08~0.18
S	Heat Resistant Alloy	-	30~60	0.02~0.04	0.03~0.05	0.03~0.05	0.04~0.06	0.05~0.08
H	Hardened Material	40~60HRC	30~60	0.02~0.04	0.03~0.05	0.03~0.05	0.04~0.06	0.05~0.08

Apply for 4×D reduce 10%, 5×D reduce 15%.

DWC Series (2×D, 3×D)

Work Material		Hardness	Vc (m/min)	Feed Rate (mm/rev)				
				WCMT03 Ø14-Ø20.5	WCMT04 Ø22-Ø25.5	WCMT05 Ø26-Ø30	WCMT06 Ø31-Ø39	WCMT08 Ø40-Ø60
P	Mild Steel	(<180HB)	110~220	0.06~0.09	0.06~0.11	0.07~0.13	0.08~0.18	0.10~0.25
	Carbon Steel	(180~280HB)	90~140	0.06~0.09	0.06~0.11	0.07~0.13	0.08~0.18	0.10~0.25
	Alloy Steel	(280~350HB)	70~120	0.05~0.07	0.05~0.09	0.06~0.11	0.07~0.14	0.08~0.17
M	Stainless Steel	(<200HB)	60~140	0.05~0.09	0.05~0.10	0.06~0.13	0.07~0.15	0.08~0.18
K	Cast Iron	(<350Mpa)	110~260	0.07~0.11	0.07~0.13	0.08~0.15	0.09~0.18	0.11~0.22
	Ductile Cast Iron	(<450Mpa)	90~120	0.06~0.10	0.06~0.12	0.07~0.14	0.08~0.16	0.10~0.20
N	Aluminum <12% Si	-	200~360	0.06~0.11	0.08~0.13	0.09~0.15	0.11~0.18	0.12~0.25
	Aluminum >12% Si	-	150~250	0.06~0.11	0.08~0.13	0.09~0.15	0.11~0.18	0.12~0.25
S	Heat Resistant Alloy	-	25~50	0.03~0.05	0.03~0.06	0.04~0.08	0.05~0.10	0.06~0.12
H	Hardened Material	-	-	-	-	-	-	-

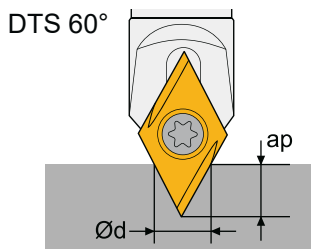
Apply for 4×D reduce 10%, 5×D reduce 15%.

How to calculate $\varnothing d$, RPM and Feed

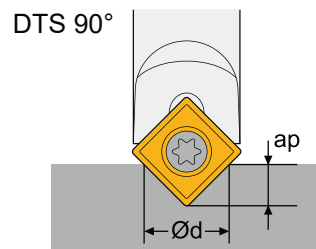
Formula :

$$RPM = \frac{V_c \times 1000}{\varnothing d \times \pi}$$

$$Feed = RPM \times Fr$$



$$\varnothing d \approx 0.57 \times (ap + 0.5 \times r) \times 2$$



$$\varnothing d \approx (ap + 0.3) \times 2$$

EX :

Working Material = Cast iron

Application = 90° Spotting

ap = 2.5mm

$$\varnothing d = (ap + 0.3) \times 2 = (2.5 + 0.3) \times 2 = 5.6 \text{ mm}$$

Reference conditions table get $V_c \approx 85 \text{ m/min}$ and $Fr \approx 0.075 \text{ mm/rev}$

$$RPM = (V_c \times 1000) / (\varnothing d \times \pi) = (85 \times 1000) / (5.6 \times \pi) \approx 4800$$

$$Feed = RPM \times Fr = 4800 \times 0.075 = 360 \text{ mm/min}$$

DTS 60° Series

for 60° Spotting

Material		VC (m/min)	Fr (mm/rev)
P	Carbon steel	11 ~ 33	0.01 ~ 0.05
	Alloy steel	11 ~ 33	0.01 ~ 0.03
M	Stainless steel	11 ~ 33	0.01 ~ 0.05
K	Cast iron	11 ~ 33	0.01 ~ 0.03
N	Aluminum	11 ~ 33	0.02 ~ 0.06
H	Hardened steel	11 ~ 33	0.01 ~ 0.02

for 60° Chamfering / Countersinking

Material		VC (m/min)	Fr (mm/rev)
P	Carbon steel	12 ~ 180	0.05 ~ 0.15
	Alloy steel	12 ~ 180	0.05 ~ 0.15
M	Stainless steel	12 ~ 180	0.05 ~ 0.15
K	Cast iron	12 ~ 180	0.05 ~ 0.15
N	Aluminum	12 ~ 180	0.10 ~ 0.20
H	Hardened steel	12 ~ 180	0.03 ~ 0.10

for 60° Grooving / Engraving

Material		VC (m/min)	Fr (mm/rev)
P	Carbon steel	10 ~ 170	0.005 ~ 0.05
	Alloy steel	10 ~ 170	0.005 ~ 0.03
M	Stainless steel	10 ~ 170	0.005 ~ 0.05
K	Cast iron	10 ~ 170	0.005 ~ 0.03
N	Aluminum	10 ~ 170	0.005 ~ 0.08
H	Hardened steel	10 ~ 170	0.005 ~ 0.02

DTS 90° Series

for 90° Spotting

Material		VC (m/min)		Fr (mm/rev)	
		Ød = 2 ~ 4.9 mm	Ød ≥ 5 mm	Ød = 2 ~ 4.9 mm	Ød ≥ 5 mm
P	Carbon steel	60 ~ 120	90 ~ 220	0.04 ~ 0.08	0.06 ~ 0.10
	Alloy steel	50 ~ 100	75 ~ 180	0.03 ~ 0.06	0.05 ~ 0.08
M	Stainless steel	30 ~ 60	45 ~ 120	0.02 ~ 0.04	0.04 ~ 0.06
K	Cast iron	40 ~ 80	60 ~ 130	0.04 ~ 0.08	0.06 ~ 0.10
H	Hardened steel	20 ~ 40	30 ~ 60	0.02 ~ 0.04	0.04 ~ 0.08

for 90° Chamfering / Countersinking

Material		VC (m/min)	Fr (mm/rev)
P	Carbon steel	60 ~ 270	0.15 ~ 0.24
	Alloy steel	50 ~ 220	0.12 ~ 0.20
M	Stainless steel	35 ~ 120	0.10 ~ 0.20
K	Cast iron	60 ~ 220	0.15 ~ 0.25
H	Hardened steel	20 ~ 60	0.03 ~ 0.08

for 90° Grooving / Engraving

Material		VC (m/min)	Fr (mm/rev)
P	Carbon steel	40 ~ 140	0.12 ~ 0.18
	Alloy steel	35 ~ 120	0.10 ~ 0.14
M	Stainless steel	25 ~ 70	0.08 ~ 0.12
K	Cast iron	30 ~ 100	0.12 ~ 0.18
H	Hardened steel	20 ~ 50	0.02 ~ 0.04

Working Demonstration



Cutting parameter	
Tools	DTS 90° with SCMX09T304-SP CX32HS
Material	Cast Iron
Coolant	Dry
Application	Spotting
Vc	85 m/min
S	4800 rpm
Feed	360 mm/min
ap	2.5 mm

DB Series (Boring Tools)

Work Material		Hardness	Cutting Speed (m/min)	Feed (mm/rev)
P	Mild Steel	(<180HB)	90~200	0.04~0.14
	Cabon Steel	(180~280HB)	60~180	0.04~0.15
	Alloy Steel	(280~350HB)	50~150	0.04~0.15
M	Stainless Steel	(<200HB)	60~230	0.07~0.12
K	Cast Iron	(<350Mpa)	120~230	0.04~0.13
	Ductile Cast Iron	(<450Mpa)	120~230	0.04~0.13
N	Aluminum <12% Si	-	120~700	0.04~0.25
	Aluminum >12% Si	-	120~700	0.04~0.25
S	Heat Resistant Alloy	-	20~80	0.04~0.05
H	Hardened Material	-	20~70	0.04~0.05

Indexable Boring Tools

Turning & Parting Tools



Turning Inserts 車刀片

Designations For Turning Inserts (車刀片型號編碼)	IC002
Turning Insert Grades (車刀片材質等級)	IC003
Turning Insert Chip Breakers (車刀片斷屑槽介紹)	IC004
Turning Inserts (可轉位車刀片)	IC005

Turning Tools 車刀桿

Tools Designations For External Turning (外徑車刀桿型號編碼) ...	IC018
Tools Designations For Internal Turning (內徑車刀桿型號編碼) ...	IC019
Internal Turning Tools Index (內徑車刀桿索引)	IC020
External Turning Tools Index (外徑車刀桿索引)	IC021

Parting & Grooving Tools 切斷 & 切槽刀

MGEH Series	
MGMN, MRMN Inserts (MGMN, MRMN 刀片)	IC066
MGEH Series Tools (MGEH 刀桿)	IC067
KGM Series	
GMM Inserts (GMM 刀片)	IC068
KGM Series Tools (KGM 刀桿)	IC069
SGIH Series	
TGTN Inserts (TGTN 刀片)	IC070
SGIH Series Tools (SGIH 刀桿)	IC071

C

①

N

②

M

③

G

④

12

⑤

04

⑥

08

⑦

(L)

⑧

MG

⑨

① Insert Shape

② Relief Angle

③ Tolerance Class

	Tolerance	A	F	C	H	E	G	J	K	L	M	N	U
	Range of tolerance	d±	0.025	0.013	0.025	0.013	0.025	0.025	0.05~0.15	0.05~0.15	0.05~0.15	0.05~0.15	0.08~0.25
		m±	0.005	0.005	0.013	0.013	0.025	0.025	0.005	0.013	0.025	0.08~0.2	0.13~0.38
		s±	0.025	0.025	0.025	0.025	0.025	0.05~0.13	0.025	0.025	0.025	0.05~0.13	0.13

④ Insert Features

A	C	F	G	H	J	M	N	Q	R	T	U	W	X
													Special shape

⑤ Edge Length

C	D	S	T	R	V	W	I.C.
Metric							mm
03	04	03	06	03	-	02	3.97
04	05	04	08	04	08	S3	4.76
05	06	05	09	05	09	03	5.56
-	-	-	-	06	-	-	6.00
06	07	06	11	06	11	04	6.35
08	09	07	13	07	13	05	7.94
-	-	-	-	08	-	-	8.00
09	11	09	16	09	16	06	9.525
-	-	-	-	10	-	-	10.00
11	13	11	19	11	19	07	11.11
-	-	-	-	12	-	-	12.00
12	15	12	22	12	22	08	12.70
14	17	14	24	14	24	09	14.29
16	19	15	27	15	27	10	15.875
-	-	-	-	16	-	-	16.00
17	21	17	30	17	30	11	17.46
19	23	19	33	19	33	13	19.05
-	-	-	-	20	-	-	20.00
22	27	22	38	22	38	15	22.225
-	-	-	-	25	-	-	25.00
25	31	25	44	25	44	17	25.40
32	38	31	54	31	54	21	31.75
-	-	-	-	32	-	-	32.00

⑥ Thickness

Symbol	01	T1	02	03	T3	04	05	06	07	09
S(mm)	1.59	1.98	2.38	3.18	3.97	4.76	5.56	6.35	7.94	9.52

⑦ Corner Radius

Symbol	01	02	04	08	12	16	20	24	28	32
r(mm)	0.1	0.2	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2

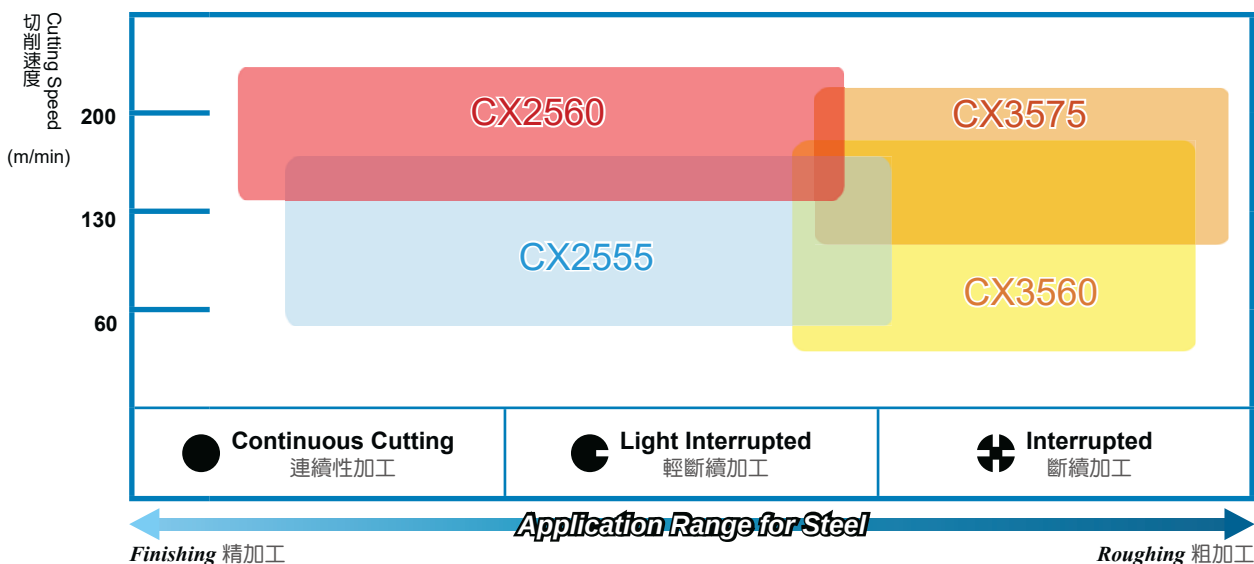
⑧ Cutting Direction

R	N	L
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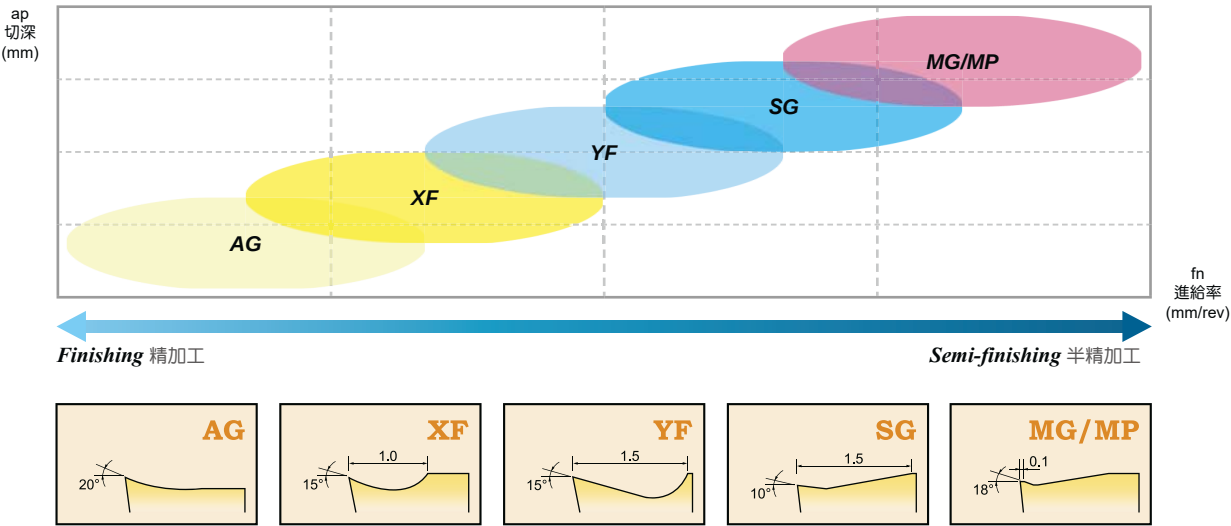
⑨ Chip Breaker Geometry

Positive Type	Negative Type
AG, XF, YF, FG, MG, MP	FG, FP, SM, SP, MP, MK, ME, RK, RG, RP, HG

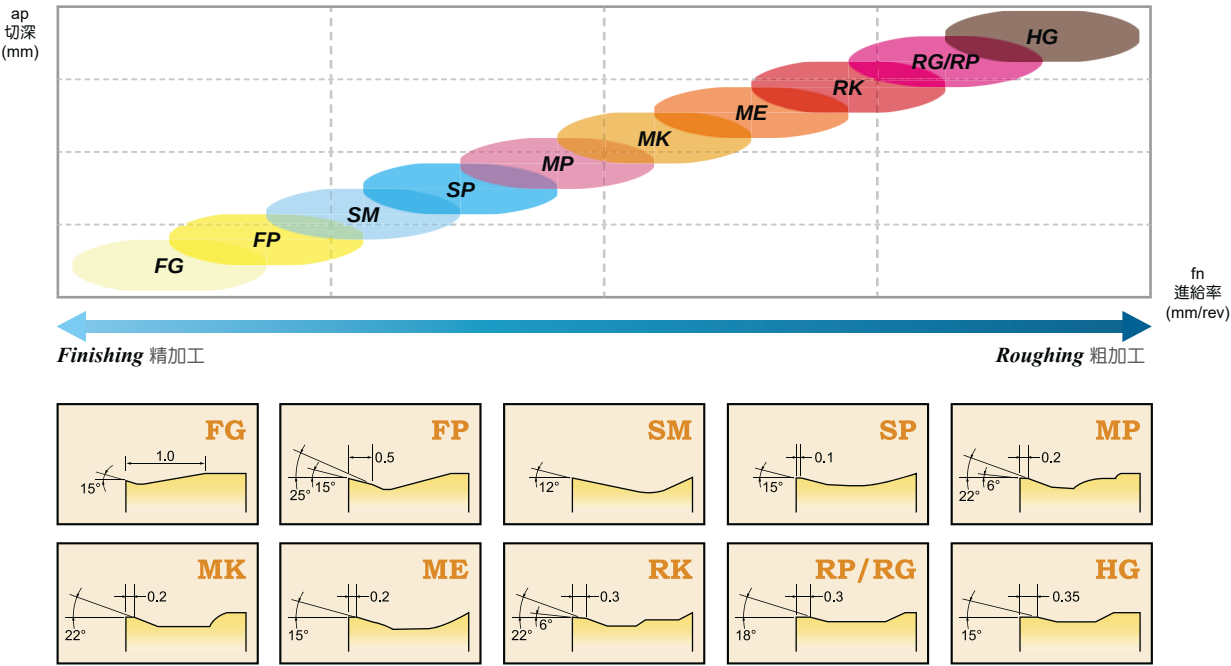
Grade Type 材質類別	Coating Type 塗層種類	Substrate Hardness 基材硬度	Application 加工特性	Working Material 加工材質							Industry area 產業應用範圍
				P		M	K	N	S	H	
				P1~P3	P4~P6						
CX10	Uncoated	HRA 93	- Finishing and medium cutting 適用於精加工和中加工 - For Aluminum alloy 適合鋁合金車削					●			Bike and auto parts 自行車和汽車零件
CX1010	CVD	HRA 93	- Finishing and medium cutting 適用於精加工和中加工 - For Aluminum alloy with Silicon 適合含矽鋁合金車削					●			- Bike and auto parts 自行車和汽車零件 - Aluminium rim 鋁合金銅圈
CX1555	PVD	HRA 92	- Continuous finishing cutting 適用於連續性精加工 - For finishing application 適合大部份金屬材質精修車削	●	●	●	●	○	●	●	- Auto and machinery parts 汽車和機械零件 - Aircraft parts 航太零件
CX2545	PVD	HRA 91.6	- Good for work hardening cutting 適用於切削加工硬化工件 - For Stainless steel & Superalloy 適合不鏽鋼和高溫合金車削	○	○	●			●	○	- Auto and machinery parts 汽車和機械零件 - Aircraft parts 航太零件
CX2560 (CX2555)	PVD	HRA 91.6	- Medium or light interrupted cutting 適用於中加工或輕斷續加工 - For Carbon Steel 適合碳鋼車削	●	○	○	○		○	○	Carbon steel parts manufacturing 碳鋼零件製造
CX3560	PVD	HRA 90.5	- Roughing or interrupted cutting 適用於粗加工或斷續加工 - For Carbon Steel 適合碳鋼車削	●	○	○	○		○	○	Steel parts manufacturing 鋼鐵零件製造
CX3575	CVD	HRA 90.5	- Roughing or interrupted cutting 適用於粗加工或斷續加工 - For Alloy steel, Cast Iron and Hardened steel 適合合金鋼，鑄鐵和高硬度鋼車削	●	●	○	●		○	●	- Auto and machinery parts 汽車和機械零件 - Mold & die 模具產業

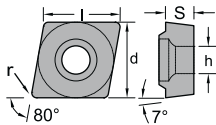


· Positive 正角



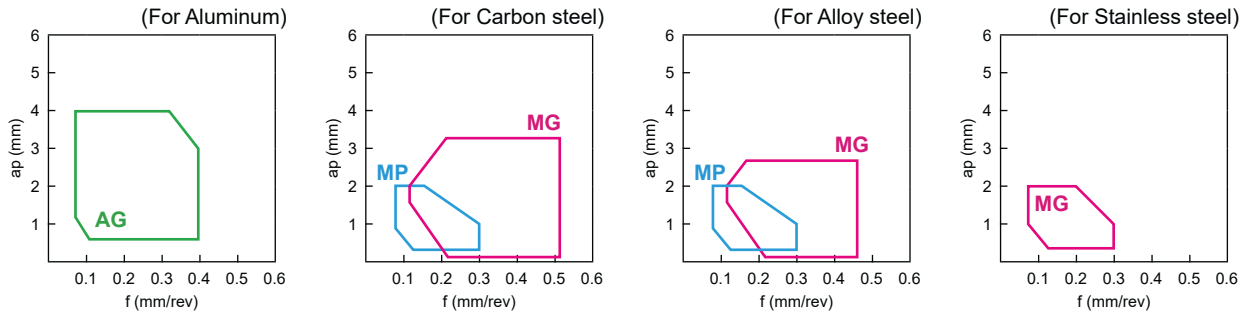
· Negative 負角

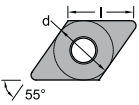
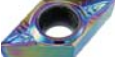


Inserts 刀片	Item No. 名稱	Grade No. 材質						Dimensions (mm) 尺寸					Drawing 圖形	Holder Page
		CX1010	CX1555	CX2545	CX2555	CX2560	CX10	d	l	S	r	h		
	CCGT 060202-AG	✓					✓	6.35	6.4	2.38	0.2	2.8		IC029 ~ IC032 IC054 ~ IC056
	060204-AG	✓					✓	6.35	6.4	2.38	0.4	2.8		
	09T308-AG	✓					✓	9.53	9.7	3.97	0.8	4.4		
	120404-AG	✓					✓	12.7	12.9	4.76	0.4	5.5		
	CCMT 060204-MP				✓	✓		6.35	6.4	2.38	0.4	2.8		
	09T304-MP				✓	✓		9.53	9.7	3.97	0.4	4.4		
	09T308-MP				✓	✓		9.53	9.7	3.97	0.8	4.4		
	CCMT 060202-MG				✓	✓		6.35	6.4	2.38	0.4	2.8		
	060204-MG			✓	✓	✓		6.35	6.4	2.38	0.4	2.8		
	09T304-MG			✓	✓	✓		9.53	9.7	3.97	0.4	4.4		
	09T308-MG			✓	✓	✓		9.53	9.7	3.97	0.8	4.4		
	120408-MG			✓	✓	✓		12.7	12.9	4.76	0.8	5.5		

Order No. = Item No. + Grade No.

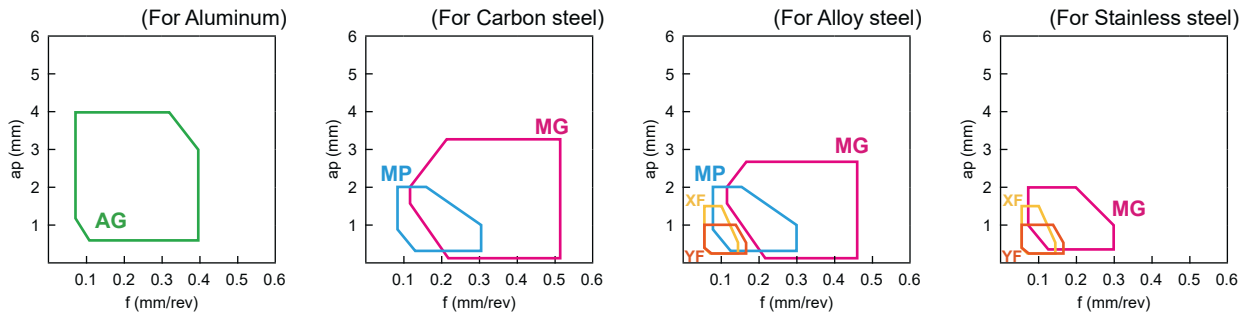
Chip control range 斷屑控制範圍

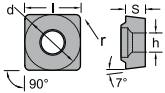


Inserts 刀片	Item No. 名稱	Grade No. 材質						Dimensions (mm) 尺寸					Drawing 圖形	Holder Page
		CX1010	CX1555	CX2545	CX2555	CX2560	CX10	d	l	S	r	h		
	DCET 11T301R-XF		✓					9.53	11.6	3.97	0.1	4.4	 IC033 ~ IC037 IC056 ~ IC058	
	11T302R-XF		✓					9.53	11.6	3.97	0.2	4.4		
	11T304R-XF		✓					9.53	11.6	3.97	0.4	4.4		
	DCET 11T301L-XF		✓					9.53	11.6	3.97	0.1	4.4		
	11T302L-XF		✓					9.53	11.6	3.97	0.2	4.4		
	11T304L-XF		✓					9.53	11.6	3.97	0.4	4.4		
	DCET 11T301R-YF		✓					9.53	11.6	3.97	0.1	4.4		
	11T302R-YF		✓					9.53	11.6	3.97	0.2	4.4		
	11T304R-YF		✓					9.53	11.6	3.97	0.4	4.4		
	DCET 11T301L-YF		✓					9.53	11.6	3.97	0.1	4.4		
	11T302L-YF		✓					9.53	11.6	3.97	0.2	4.4		
	11T304L-YF		✓					9.53	11.6	3.97	0.4	4.4		
	DCEW 11T301		✓					9.53	11.6	3.97	0.1	4.4		
	11T302		✓					9.53	11.6	3.97	0.2	4.4		
	11T304		✓					9.53	11.6	3.97	0.4	4.4		
	DCGT 070202-AG	✓					✓	6.35	7.75	2.38	0.2	2.8		
	070204-AG	✓					✓	6.35	7.75	2.38	0.4	2.8		
	11T302-AG	✓					✓	9.53	11.6	3.97	0.2	4.4		
	11T304-AG	✓					✓	9.53	11.6	3.97	0.4	4.4		
	11T308-AG	✓					✓	9.53	11.6	3.97	0.8	4.4		
	DCMT 11T304-MP				✓	✓		9.53	11.6	3.97	0.4	4.4		
	11T308-MP				✓	✓		9.53	11.6	3.97	0.8	4.4		
	DCMT 070202-MG			✓	✓			6.35	7.75	2.38	0.2	2.8		
	070204-MG			✓	✓	✓		6.35	7.75	2.38	0.4	2.8		
	11T304-MG			✓	✓	✓		9.53	11.6	3.97	0.4	4.4		
	11T308-MG			✓	✓	✓		9.53	11.6	3.97	0.8	4.4		

Order No. = Item No. + Grade No.

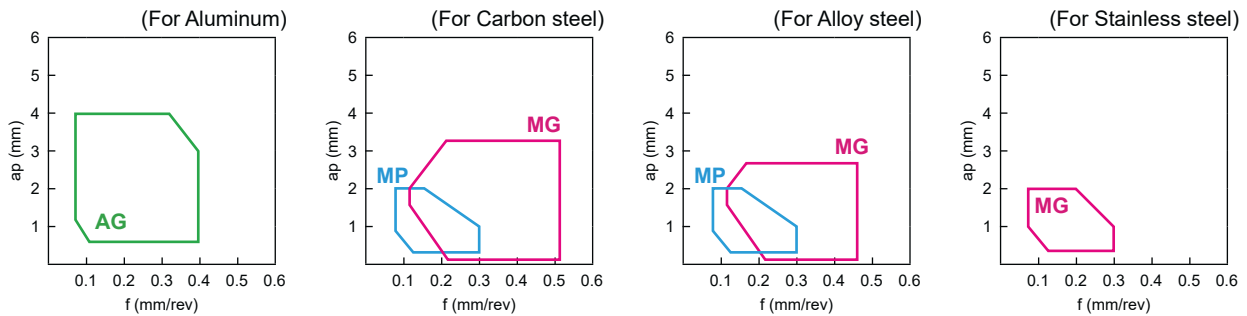
Chip control range 斷屑控制範圍



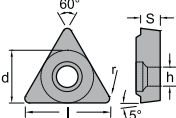
Inserts 刀片	Item No. 名稱	Grade No. 材質						Dimensions (mm) 尺寸					Drawing 圖形	Holder Page
		CX1010	CX1555	CX2545	CX2555	CX2560	CX10	d	l	S	r	h		
	SCGT 09T304-AG	✓					✓	9.53	9.53	3.97	0.4	4.4		IC059 ~ IC061
	SCMT 09T304-MP				✓	✓		9.53	9.53	3.97	0.4	4.4		
	SCMT 09T304-MG			✓	✓	✓		9.53	9.53	3.97	0.4	4.4		
	09T308-MG			✓	✓	✓		9.53	9.53	3.97	0.8	4.4		

Order No. = Item No. + Grade No.

Chip control range 斷屑控制範圍

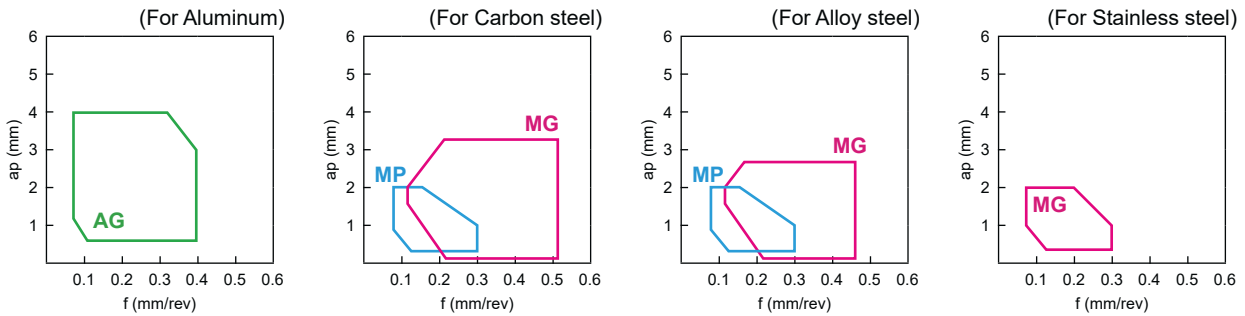


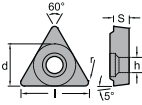
Turning Tools

Inserts 刀片	Item No. 名稱	Grade No. 材質						Dimensions (mm) 尺寸					Drawing 圖形	Holder Page
		CX1010	CX1555	CX2545	CX2555	CX2560	CX10	d	l	S	r	h		
	TCGT 090204-AG	✓					✓	5.56	9.6	2.38	0.4	2.5		IC038 ~ IC040 IC062 ~ IC063
	110204-AG	✓					✓	6.35	11.0	2.38	0.4	2.8		
	16T304-AG	✓					✓	9.53	16.5	3.97	0.4	4.4		
	16T308-AG	✓					✓	9.53	16.5	3.97	0.8	4.4		
	TCMT 110204-MP				✓	✓		6.35	11.0	2.38	0.4	2.8		
	TCMT 110204-MG			✓	✓	✓		6.35	11.0	2.38	0.4	2.8		
	16T304-MG			✓	✓	✓		9.53	16.5	3.97	0.4	4.4		
	16T308-MG			✓	✓	✓		9.53	16.5	3.97	0.8	4.4		

Order No. = Item No. + Grade No.

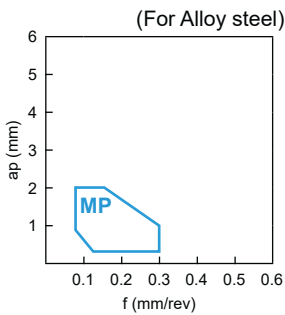
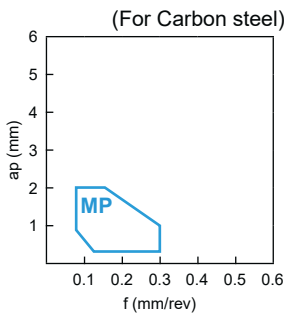
Chip control range 斷屑控制範圍

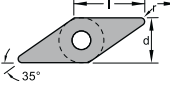


Inserts 刀 片	Item No. 名 稱	Grade No. 材 質						Dimensions (mm) 尺 寸					Drawing 圖 形	Holder Page
		CX1010	CX1555	CX2545	CX2555	CX2560	CX10	d	l	S	r	h		
	TPMH 160304-MP				✓	✓		9.53	16.5	3.18	0.4	4.4		-

Order No. = Item No. + Grade No.

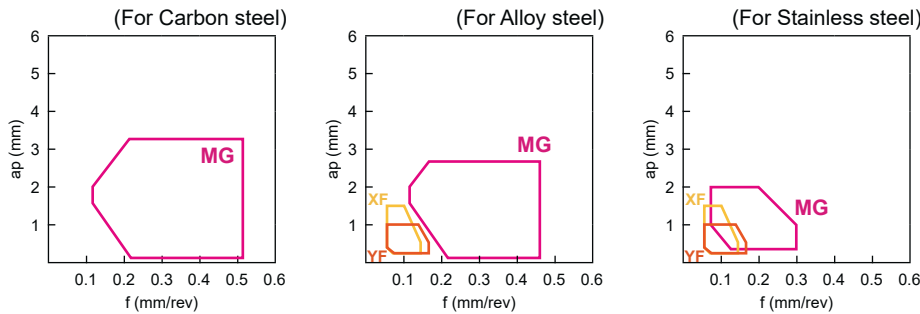
Chip control range 斷屑控制範圍

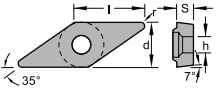


Inserts 刀 片	Item No. 名 稱	Grade No. 材 質						Dimensions (mm) 尺 寸					Drawing 圖 形	Holder Page
		CX1010	CX1555	CX2545	CX2555	CX2560	CX10	d	l	S	r	h		
	VBET 110301R-XF		✓					11.1	6.35	3.18	0.1	2.8	 IC041 ~ IC044 IC064 ~ IC065	
	110302R-XF		✓					11.1	6.35	3.18	0.2	2.8		
	110304R-XF		✓					11.1	6.35	3.18	0.4	2.8		
	VBET 110301L-XF		✓					11.1	6.35	3.18	0.1	2.8		
	110302L-XF		✓					11.1	6.35	3.18	0.2	2.8		
	110304L-XF		✓					11.1	6.35	3.18	0.4	2.8		
	VBET 110301R-YF		✓					11.1	6.35	3.18	0.1	2.8		
	110302R-YF		✓					11.1	6.35	3.18	0.2	2.8		
	110304R-YF		✓					11.1	6.35	3.18	0.4	2.8		
	VBET 110301L-YF		✓					11.1	6.35	3.18	0.1	2.8		
	110302L-YF		✓					11.1	6.35	3.18	0.2	2.8		
	110304L-YF		✓					11.1	6.35	3.18	0.4	2.8		
	VBEW 110301		✓					11.1	6.35	3.18	0.1	2.8		
	110302		✓					11.1	6.35	3.18	0.2	2.8		
	110304		✓					11.1	6.35	3.18	0.4	2.8		
	VBMT 160404-MG			✓	✓	✓		9.53	16.6	4.76	0.4	4.4		
	160408-MG			✓	✓	✓		9.53	16.6	4.76	0.8	4.4		

Order No. = Item No. + Grade No.

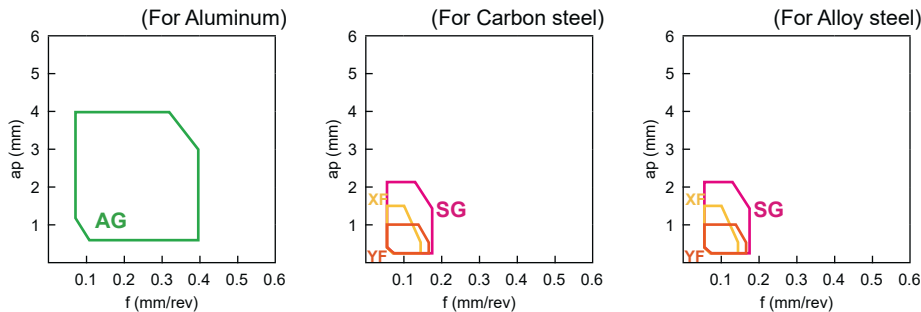
Chip control range 斷屑控制範圍

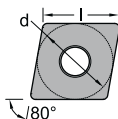


Inserts 刀 片	Item No. 名 稱	Grade No. 材 質						Dimensions (mm) 尺 寸					Drawing 圖 形	Holder Page
		CX1010	CX1555	CX2545	CX2555	CX2560	CX10	d	l	S	r	h		
	VCET 110301R-XF		✓					11.1	6.35	3.18	0.1	2.8		IC042 ~ IC044 IC064 ~ IC065
	110302R-XF		✓					11.1	6.35	3.18	0.2	2.8		
	110304R-XF		✓					11.1	6.35	3.18	0.4	2.8		
	VCET 110301L-XF		✓					11.1	6.35	3.18	0.1	2.8		
	110302L-XF		✓					11.1	6.35	3.18	0.2	2.8		
	110304L-XF		✓					11.1	6.35	3.18	0.4	2.8		
	VCET 110301R-YF		✓					11.1	6.35	3.18	0.1	2.8		
	110302R-YF		✓					11.1	6.35	3.18	0.2	2.8		
	110304R-YF		✓					11.1	6.35	3.18	0.4	2.8		
	VCET 110301L-YF		✓					11.1	6.35	3.18	0.1	2.8		
	110302L-YF		✓					11.1	6.35	3.18	0.2	2.8		
	110304L-YF		✓					11.1	6.35	3.18	0.4	2.8		
	VCEW 110301		✓					11.1	6.35	3.18	0.1	2.8		
	110302		✓					11.1	6.35	3.18	0.2	2.8		
	110304		✓					11.1	6.35	3.18	0.4	2.8		
	VCGT 110302-AG	✓					✓	11.1	6.35	3.18	0.2	2.8		
	110304-AG	✓					✓	11.1	6.35	3.18	0.4	2.8		
	160402-AG	✓					✓	9.525	16.6	4.76	0.2	4.4		
	160404-AG	✓					✓	9.525	16.6	4.76	0.4	4.4		
	160408-AG	✓					✓	9.525	16.6	4.76	0.8	4.4		
	VCGT 110301-SG		✓					11.1	6.35	3.18	0.1	2.8		
	110302-SG		✓					11.1	6.35	3.18	0.2	2.8		
	110304-SG		✓					11.1	6.35	3.18	0.4	2.8		

Order No. = Item No. + Grade No.

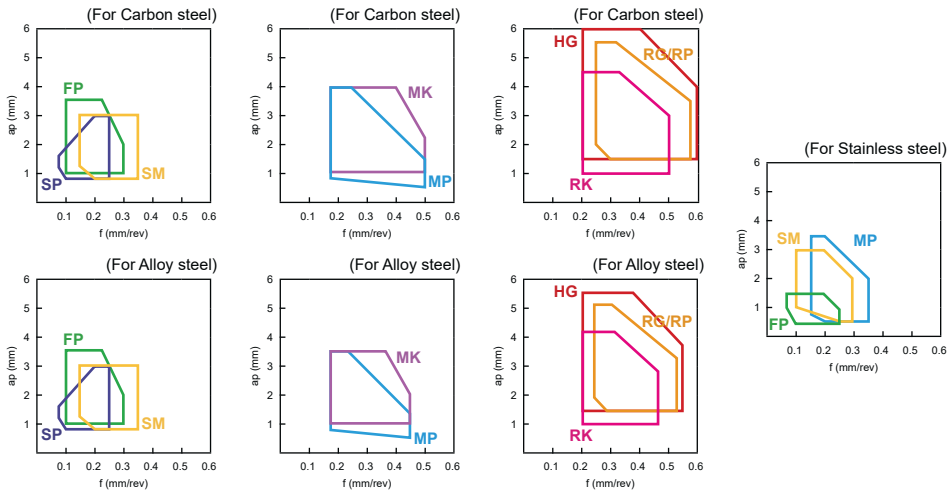
Chip control range 斷屑控制範圍

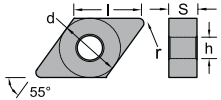


Inserts 刀片	Item No. 名稱	Grade No. 材質						Dimensions (mm) 尺寸					Drawing 圖形	Holder Page
		CX2545	CX2555	CX2560	CX3560	CX3575		d	l	S	r	h		
	CNMG 120404-FP	✓		✓				12.7	12.9	4.76	0.4	5.16		IC022 ~ IC024 IC045 ~ IC046
	120408-FP	✓	✓	✓				12.7	12.9	4.76	0.8	5.16		
	CNMG 120404-SM	✓	✓	✓				12.7	12.9	4.76	0.4	5.16		
	120408-SM	✓	✓	✓				12.7	12.9	4.76	0.8	5.16		
	CNMG 120404-SP		✓	✓				12.7	12.9	4.76	0.4	5.16		
	120408-SP		✓	✓				12.7	12.9	4.76	0.8	5.16		
	CNMG 120404-MP	✓	✓	✓	✓	✓		12.7	12.9	4.76	0.4	5.16		
	120408-MP	✓	✓	✓	✓	✓		12.7	12.9	4.76	0.8	5.16		
	120412-MP	✓	✓	✓	✓			12.7	12.9	4.76	1.2	5.16		
	CNMG 120408-MK		✓	✓				12.7	12.9	4.76	0.8	5.16		
	CNMG 120408-RK		✓	✓				12.7	12.9	4.76	0.8	5.16		
	CNMG 120408-RG		✓	✓	✓			12.7	12.9	4.76	0.8	5.16		
	CNMG 120408-RP		✓	✓	✓			12.7	12.9	4.76	0.8	5.16		
	CNMG 120408-HG		✓	✓	✓			12.7	12.9	4.76	0.8	5.16		
	120412-HG		✓	✓				12.7	12.9	4.76	1.2	5.16		

Order No. = Item No. + Grade No.

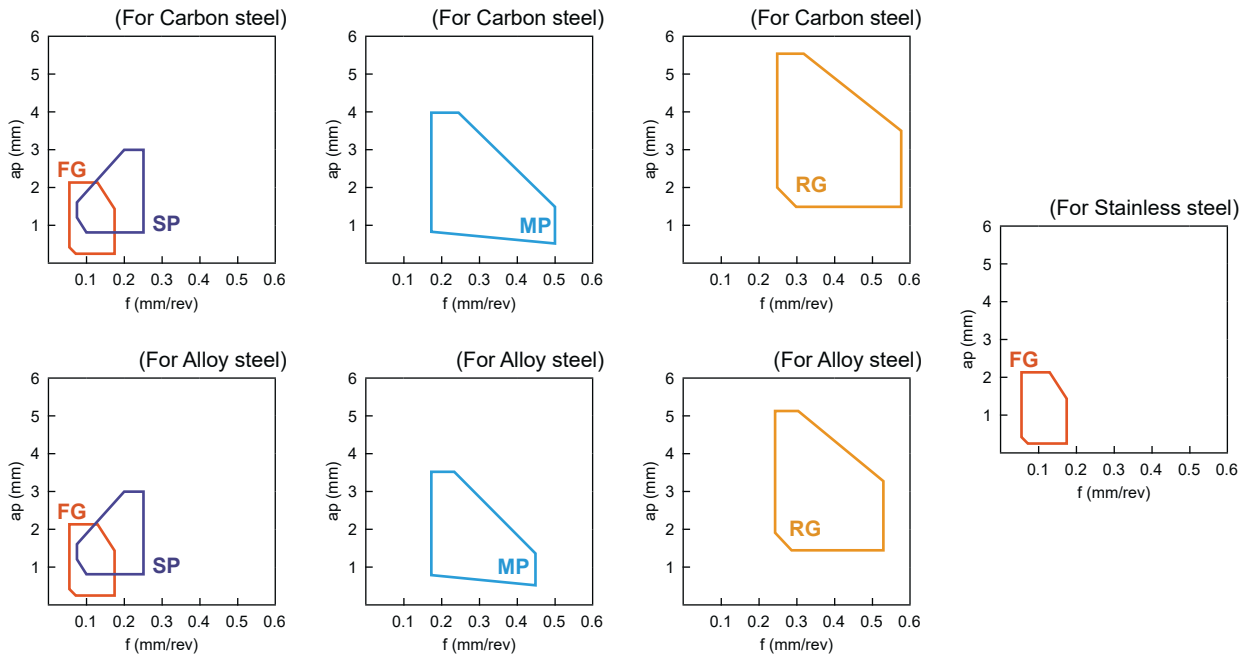
Chip control range 斷屑控制範圍

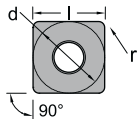


Inserts 刀片	Item No. 名稱	Grade No. 材質						Dimensions (mm) 尺寸					Drawing 圖形	Holder Page
		CX1555	CX2555	CX2560	CX3560	CX3575		d	l	S	r	h		
	DNGX 110401-FG	✓						9.525	11.6	4.76	0.1	4.5		-
	110402-FG	✓						9.525	11.6	4.76	0.2	4.5		
	110404-FG	✓						9.525	11.6	4.76	0.4	4.5		
	DNMG 150404-SP		✓	✓				12.7	15.5	4.76	0.4	5.16		IC024 IC047
	DNMG 150404-MP					✓		12.7	15.5	4.76	0.4	5.16		
	150408-MP					✓		12.7	15.5	4.76	0.8	5.16		
	DNMG 110408-RG		✓	✓				9.525	11.6	4.76	0.8	3.81		
	150408-RG		✓	✓	✓			12.7	15.5	4.76	0.8	5.16		

Order No. = Item No. + Grade No.

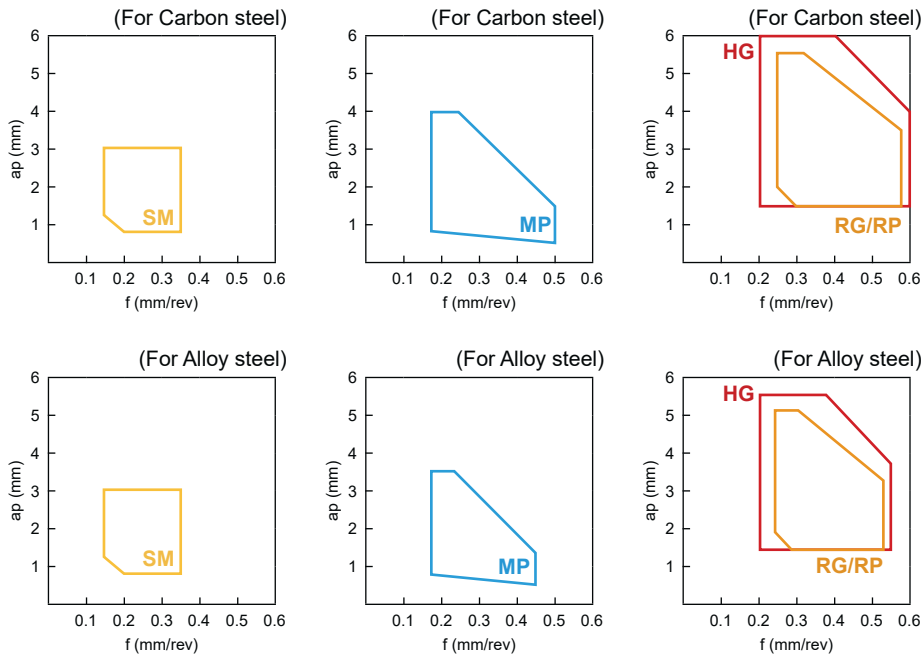
Chip control range 斷屑控制範圍

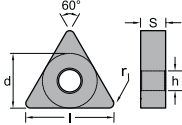


Inserts 刀片	Item No. 名稱	Grade No. 材質						Dimensions (mm) 尺寸					Drawing 圖形	Holder Page
		CX2545	CX2555	CX2560	CX3560	CX3575		d	l	S	r	h		
	SNMG 120404-SM		✓	✓				12.7	12.7	4.76	0.4	5.16		IC025 IC048
	SNMG 120404-MP					✓		12.7	12.7	4.76	0.4	5.16		
	120408-MP					✓		12.7	12.7	4.76	0.8	5.16		
	120412-MP					✓		12.7	12.7	4.76	1.2	5.16		
	SNMG 120408-RG		✓	✓	✓			12.7	12.7	4.76	0.8	5.16		
	SNMG 120412-RP			✓				12.7	12.7	4.76	1.2	5.16		
	SNMG 120408-HG		✓	✓				12.7	12.7	4.76	0.8	5.16		
	120412-HG		✓	✓				12.7	12.7	4.76	1.2	5.16		

Order No. = Item No. + Grade No.

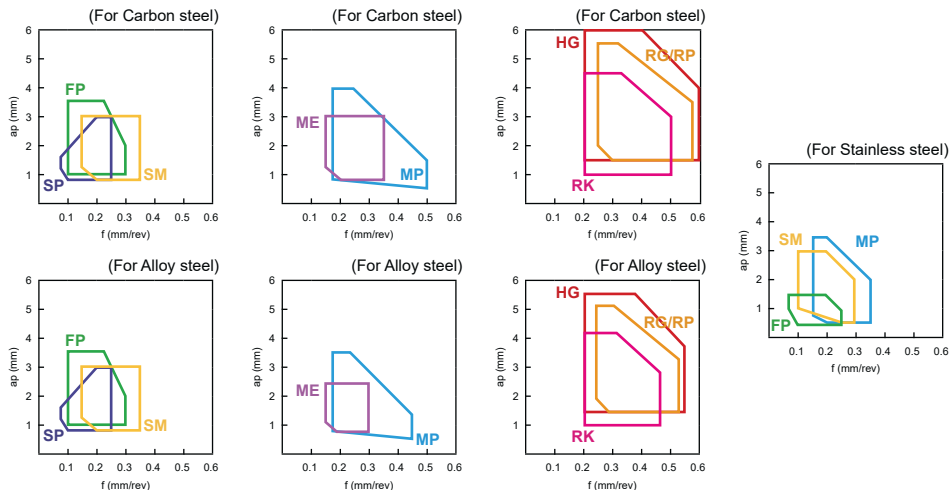
Chip control range 斷屑控制範圍

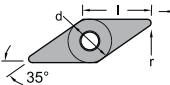


Inserts 刀片	Item No. 名稱	Grade No. 材質					Dimensions (mm) 尺寸					Drawing 圖形	Holder Page
		CX2545	CX2555	CX2560	CX3560	CX3575	d	l	S	r	h		
	TNMG 160408-FP	✓	✓	✓			9.53	16.5	4.76	0.8	3.81		IC025 ~ IC027 IC047 IC049 ~ IC050
	TNMG 160408-SM	✓	✓	✓			9.53	16.5	4.76	0.8	3.81		
	TNMG 160404-SP		✓	✓			9.53	16.5	4.76	0.4	3.81		
	160408-SP		✓	✓			9.53	16.5	4.76	0.8	3.81		
	TNMG 160404R-ME		✓	✓			9.53	16.5	4.76	0.4	3.81		
	160408R-ME		✓	✓			9.53	16.5	4.76	0.8	3.81		
	TNMG 160404L-ME		✓	✓			9.53	16.5	4.76	0.4	3.81		
	160408L-ME		✓	✓			9.53	16.5	4.76	0.8	3.81		
	TNMG 160404-MP	✓	✓	✓		✓	9.53	16.5	4.76	0.4	3.81		
	160408-MP	✓	✓	✓		✓	9.53	16.5	4.76	0.8	3.81		
	160412-MP	✓	✓	✓			9.53	16.5	4.76	1.2	3.81		
	TNMG 220408-RK		✓	✓			12.7	22	4.76	0.8	5.16		
	TNMG 160404-RG		✓	✓	✓		9.53	16.5	4.76	0.4	3.81		
	TNMG 160408-RP		✓	✓			9.53	16.5	4.76	0.8	3.81		
	TNMG 160408-HG		✓	✓	✓		9.53	16.5	4.76	0.8	3.81		
	160412-HG		✓	✓			9.53	16.5	4.76	1.2	3.81		

Order No. = Item No. + Grade No.

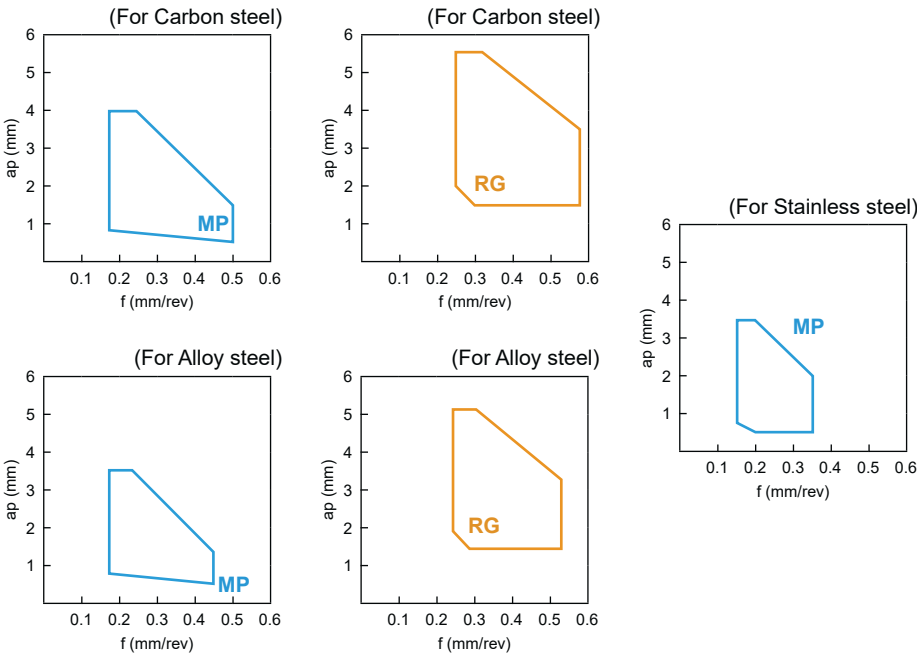
Chip control range 斷屑控制範圍

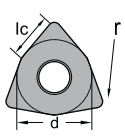


Inserts 刀片	Item No. 名稱	Grade No. 材質						Dimensions (mm) 尺寸					Drawing 圖形	Holder Page
		CX2545	CX2555	CX2560	CX3560	CX3575		d	l	S	r	h		
	VNMG 160404-MP	✓	✓	✓		✓		9.53	16.5	4.76	0.4	3.81		IC027 IC051 IC052
	160408-MP					✓		9.53	16.5	4.76	0.8	3.81		
	VNMG 160408-RG		✓	✓	✓			9.53	16.5	4.76	0.8	3.81		

Order No. = Item No. + Grade No.

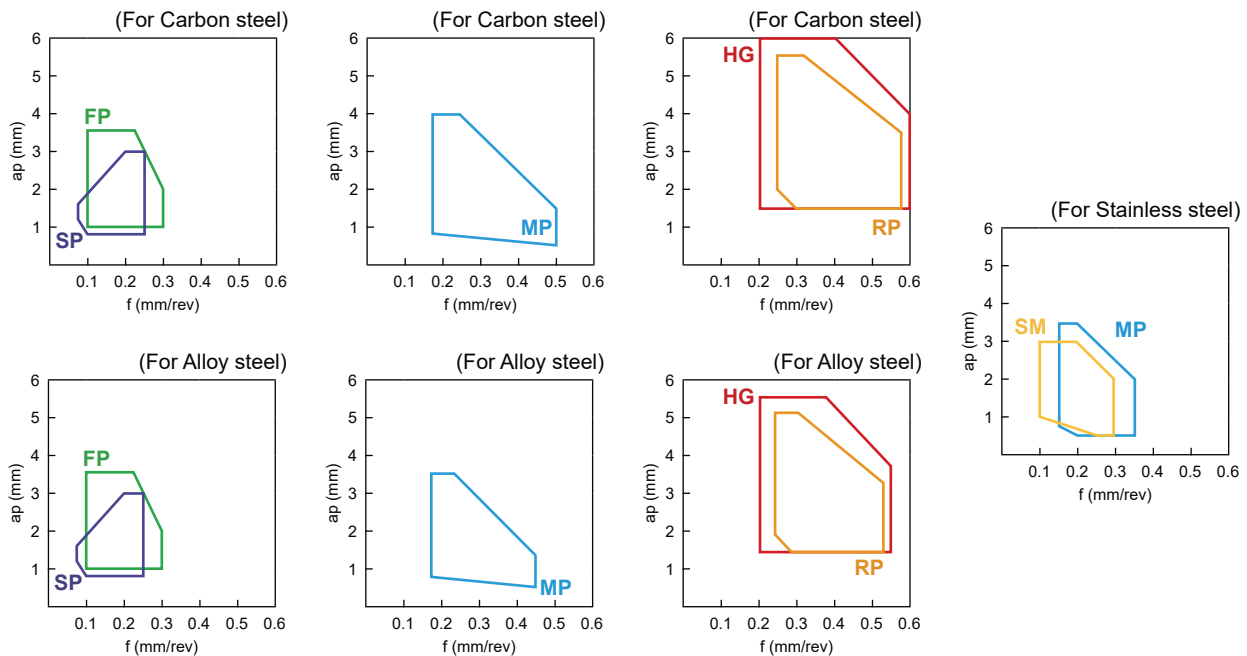
Chip control range 斷屑控制範圍



Inserts 刀片	Item No. 名稱	Grade No. 材質					Dimensions (mm) 尺寸					Drawing 圖形	Holder Page
		CX2545	CX2555	CX2560	CX3560	CX3575	d	l	S	r	h		
	WNGM 080408-FP		✓	✓	✓		12.7	8.7	4.76	0.8	5.16		IC028 IC052 IC053
	WNGM 080404-SP	✓	✓	✓			12.7	8.7	4.76	0.4	5.16		
	080408-SP		✓	✓			12.7	8.7	4.76	0.8	5.16		
	WNGM 080404-MP	✓	✓	✓		✓	12.7	8.7	4.76	0.4	5.16		
	080408-MP	✓	✓	✓		✓	12.7	8.7	4.76	0.8	5.16		
	080412-MP	✓	✓	✓		✓	12.7	8.7	4.76	1.2	5.16		
	WNGM 080408-RP		✓	✓			12.7	8.7	4.76	0.8	5.16		
	080412-RP						12.7	8.7	4.76	1.2	5.16		
	WNGM 080408-HG		✓	✓	✓		12.7	8.7	4.76	0.8	5.16		
	080412-HG		✓	✓	✓		12.7	8.7	4.76	1.2	5.16		

Order No. = Item No. + Grade No.

Chip control range 斷屑控制範圍



M

C

L

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5

M

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2

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⑩

⑪

⑫

⑬

① Type of Locking

C

M

W

P

S

D

② Insert Shape

A

B

C

D

E

H

K

L

M

O

R

S

T

V

W

③ Type of Tool

A

B

C

D

E

F

G

H

J

K

L

M

N

P

Q

R

S

T

U

V

W

Y

X

④ Rake Angle

A

B

C

D

E

F

G

N

P

⑤ Hand of Tool

R

N

L

⑥/⑦ Shank Height

H

⑧/⑨ Shank Width

B

⑩ Tool Length

L

32

40

50

60

70

80

90

100

110

125

140

150

160

170

180

200

250

300

350

400

450

500

Special

A

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D

E

F

G

H

J

K

L

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P

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U

V

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Y

X

⑪/⑫ Edge Length

A

B

C

D

E

H

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R

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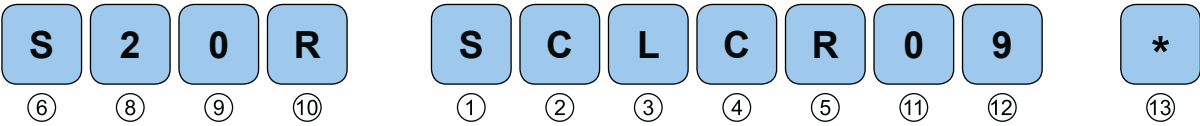
V

W

⑬ Optional Code

INSERTS

R-L

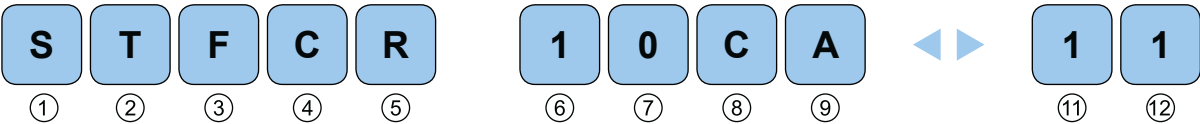


⑥ Shank

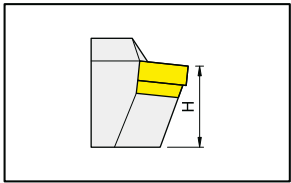
- S = Steel shank 鋼柄
- A = Steel shank + coolant hole 鋼柄 + 中心水孔
- B = Steel shank + device anti-vibration 抗震鋼柄
- C = Cemented carbide shank with steel head 鎢鋼柄
- D = Steel shank + device anti-vibration + coolant hole 抗震鋼柄 + 中心水孔
- E = Cemented carbide shank with steel head + coolant hole 鎢鋼柄 + 中心水孔
- F = Cemented carbide shank with steel head + device anti-vibration 抗震鎢鋼柄
- G = Cemented carbide shank with steel head + device anti-vibration + coolant hole 抗震鎢鋼柄 + 中心水孔
- H = Heavy metal shank 重金屬柄
- J = Heavy mteal shank + coolant hole 重金屬柄 + 中心水孔

Turning Tools

Cartridges Designation 卡式刀座指定系統



⑥/⑦ Shank Height



⑧ Type of Tool

C = Cartridge

⑨ Execution

A = ISO 5611

MCKN IC022



MCLN IC023



DCLN IC024



MDUN IC024



MSKN IC025



MTUN IC025



WTUN IC026



DTUN IC026



MTWN IC027



MVUN IC027



MWLN IC028



DWLN IC028



SCKC IC029



SCLC IC030



SCLC IC032



SDJC IC033



SDNC IC034



SDQC IC035



SDUC IC036



SDZC IC037



STUC IC038



STWC IC040



SVJB IC041



SVJC IC042



SVQB IC043

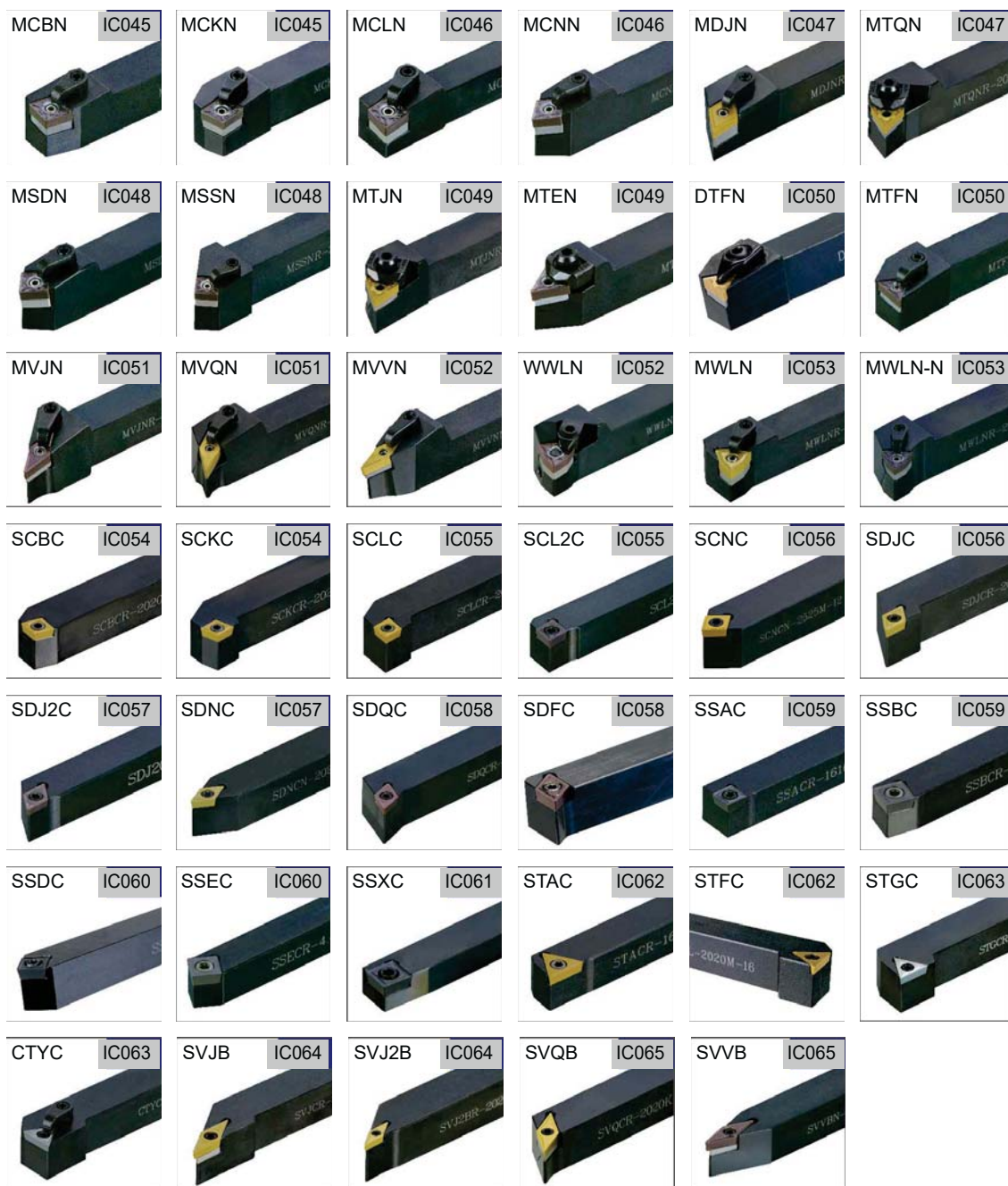


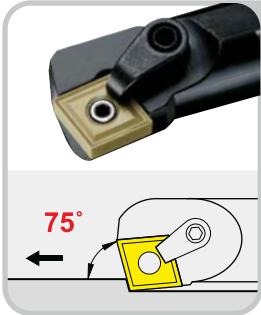
SVUB IC044



SVVB IC044

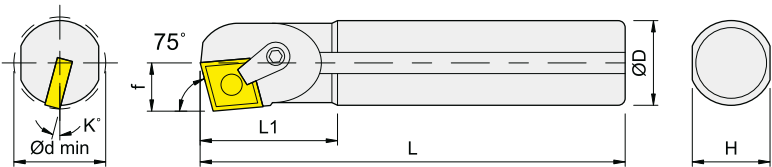






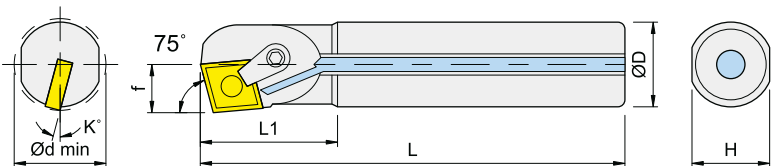
MCKN

■ S.-MCKNR/L-12 Steel shank



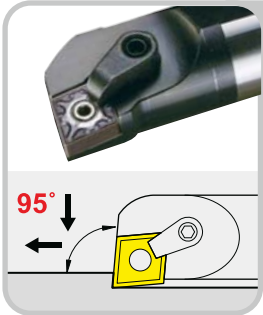
Right-hand shown

■ A.-MCKNR/L-12 Steel shank+coolant hole



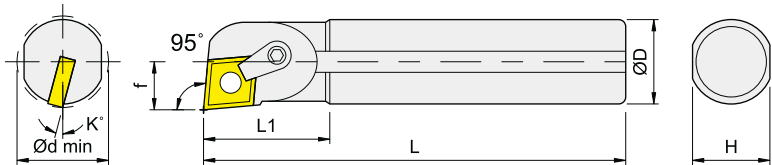
Right-hand shown

Order No. 訂購編碼	Dimensions, mm							Insert	Shim 	Pin 	Wrench 	Clamp 	Screw 	Wrench 
	D	L	L1	f	H	K	dmin							
IS20R-MCKN ^R / _L -12	20	200	40	13	18	15	25	CN..1204..	--	IMLP44-A	IPL25	IMC620	IMS620TX	IETL15
IS25R-MCKN ^R / _L -12	25	200	40	15.5	23	13	30		ICMS432	IMLP46-A	IPL25		IMS625TX	
IS32S-MCKN ^R / _L -12	32	250	48	19.5	30	13	40		--	IMLP44-A	IPL25		IMS620TX	
IS40T-MCKN ^R / _L -12	40	300	55	25.5	37	12	50		ICMS432	IMLP46-A	IPL25		IMS625TX	
IS50U-MCKN ^R / _L -12	50	350	60	30.5	47	10	60		--	IMLP44-A	IPL25		IMS620TX	
IS60V-MCKN ^R / _L -12	60	400	60	35.5	57	9	70		ICMS432	IMLP46-A	IPL25		IMS625TX	
IA20R-MCKN ^R / _L -12	20	200	40	13	18	15	25		--	IMLP44-A	IPL25		IMS620TX	
IA25R-MCKN ^R / _L -12	25	200	40	15.5	23	13	30		ICMS432	IMLP46-A	IPL25		IMS625TX	
IA32S-MCKN ^R / _L -12	32	250	48	19.5	30	13	40		--	IMLP44-A	IPL25		IMS620TX	
IA40T-MCKN ^R / _L -12	40	300	55	25.5	37	12	50		ICMS432	IMLP46-A	IPL25		IMS625TX	



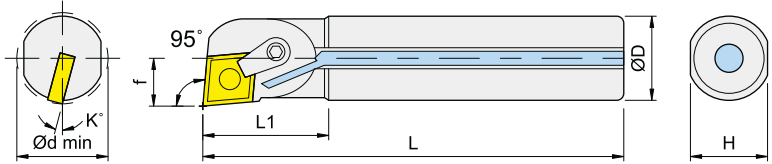
MCLN

S..-MCKNR/L-12 Steel shank



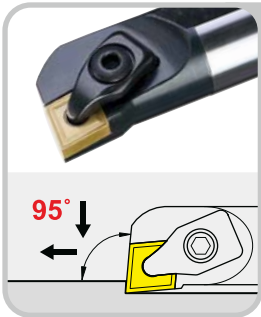
Right-hand shown

A..-MCKNR/L-12 Steel shank+coolant hole

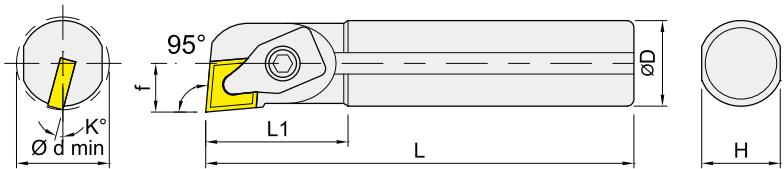


Right-hand shown

Order No. 訂購編碼	Dimensions, mm							Insert	Shim	Pin	Wrench	Clamp	Screw	Wrench
	D	L	L1	f	H	K	dmin							
IS20R-MCLN ^R / _L -12	20	200	40	13	18	15	25	CN..1204..	--	IMLP44-A	IPL25	IMC620	IMS620TX	IETL15
IS25R-MCLN ^R / _L -12	25	200	40	15.5	23	13	30							
IS32S-MCLN ^R / _L -12	32	250	48	19.5	30	13	40							
IS40T-MCLN ^R / _L -12	40	300	55	25.5	37	12	50							
IS50U-MCLN ^R / _L -12	50	350	60	30.5	47	10	60		ICMS432	IMLP46-A	IPL25		IMS625TX	
IS60V-MCLN ^R / _L -12	60	400	60	35	57	9	70							
IA20R-MCLN ^R / _L -12	20	200	40	13	18	15	25		--	IMLP44-A	IPL25		IMS620TX	
IA25R-MCLN ^R / _L -12	25	200	40	15.5	23	13	30							
IA32S-MCLN ^R / _L -12	32	250	48	19.5	30	13	40							
IA40T-MCLN ^R / _L -12	40	300	55	25.5	37	12	50		ICMS432	IMLP46-A	IPL25		IMS625TX	

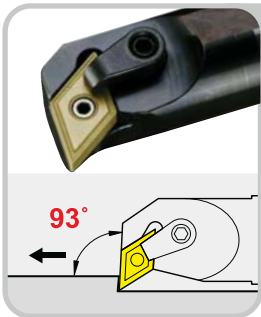


DCLN



Right-hand shown

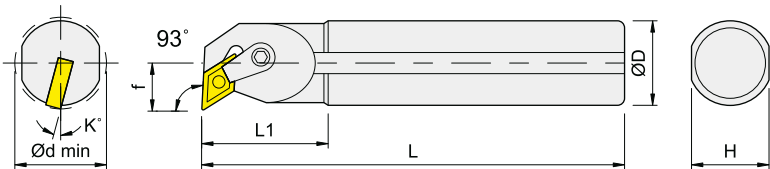
Order No. 訂購編碼	Dimensions, mm							Insert	Shim	Screw	Wrench	Clamp	Wrench
	D	L	L1	f	H	K	dmin						
IS20R-DCLN ^R / _L -12	20	200	40	14	18	15	28	CN..1204..	--	--	--	IMCD425	IETL20
IS25R-DCLN ^R / _L -12	25	200	40	15	23	15	30						



MDUN

S..-MDUNR/L-15

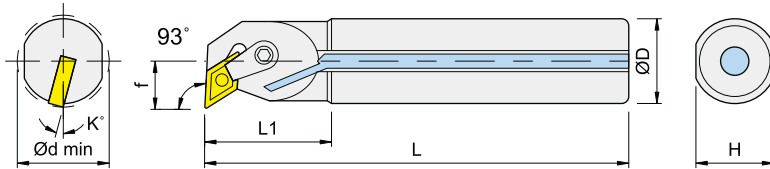
Steel shank



Right-hand shown

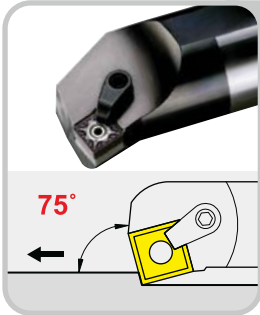
A..-MDUNR/L-15

Steel shank+coolant hole

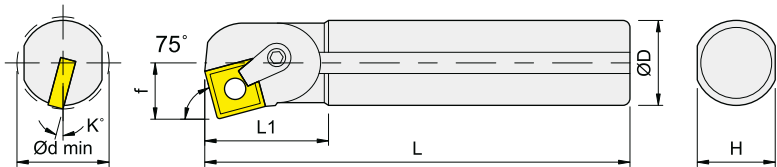


Right-hand shown

Order No. 訂購編碼	Dimensions, mm							Insert	Shim	Pin	Wrench	Clamp	Screw	Wrench
	D	L	L1	f	H	K	dmin							
IS25R-MDUN ^R / _L -15	25	200	40	17	23	13	32	DN..1504..	--	IMLP44-A	IPL25	IMC620	IMS620TX	IETL15
IS32S-MDUN ^R / _L -15	32	250	50	21	30	13	40		IDMS432	IMLP46-A			IMS625TX	
IA25R-MDUN ^R / _L -15	25	200	40	17	23	13	32		--	IMLP44-A			IMS620TX	
IA32S-MDUN ^R / _L -15	32	250	50	21	30	13	40		IDMS432	IMLP46-A			IMS625TX	

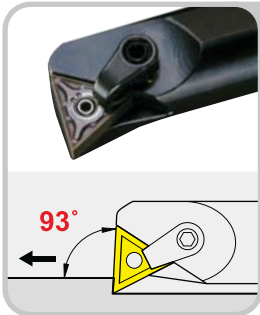


MSKN



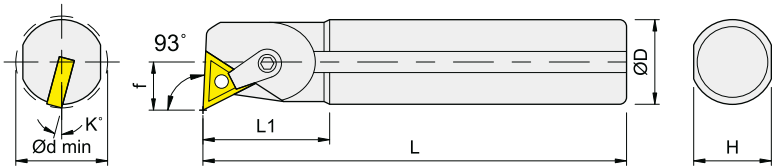
Right-hand shown

Order No. 訂購編碼	Dimensions, mm							Insert	Shim	Pin	Wrench	Clamp	Screw	Wrench
	D	L	L1	f	H	K	dmin							
IS40T-MSKN ^R / _L -12	40	300	55	25.5	37	12	50	SN..1204..	ISMS432	IMLP46-A	IPL25	IMC620	IMS625TX	IETL15
IS50U-MSKN ^R / _L -12	50	350	60	30.5	47	10	60							
IS60V-MSKN ^R / _L -12	60	400	60	36	57	9	70							



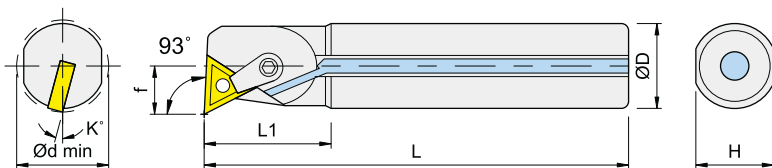
MTUN

S..-MTUNR/L-16 Steel shank



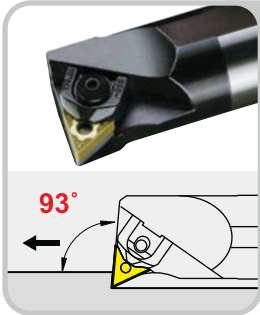
Right-hand shown

A..-MTUNR/L-16 Steel shank+coolant hole



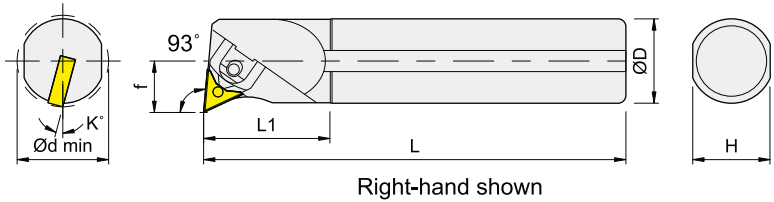
Right-hand shown

Order No. 訂購編碼	Dimensions, mm							Insert	Shim 	Pin 	Wrench 	Clamp 	Screw 	Wrench 
	D	L	L1	f	H	K	dmin							
IS20R-MTUN ^R / _L -16	20	200	36	13	18	15	25	TN..1604..	--	IMLP33L	IPL20	IMC515	IMS520TX	IETL10
IS25R-MTUN ^R / _L -16	25	200	40	15	23	13	30		ITMS322	IMLP34L		IMC620	IMS625TX	IETL15
IS32S-MTUN ^R / _L -16	32	250	48	20	30	13	40							
IS40T-MTUN ^R / _L -16	40	300	55	26	37	10	50							
IS50U-MTUN ^R / _L -16	50	350	60	31	47	9	60							
IS60V-MTUN ^R / _L -16	60	400	60	35.5	57	8	70		--	IMLP33L		IMC515	IMS520TX	IETL10
IA20R-MTUN ^R / _L -16	20	200	36	13	18	15	25							
IA25R-MTUN ^R / _L -16	25	200	40	15	23	13	30							
IA32S-MTUN ^R / _L -16	32	250	48	20	30	13	40							
IA40T-MTUN ^R / _L -16	40	300	55	26	37	10	50		ITMS322	IMLP34L		IMC620	IMS625TX	IETL15



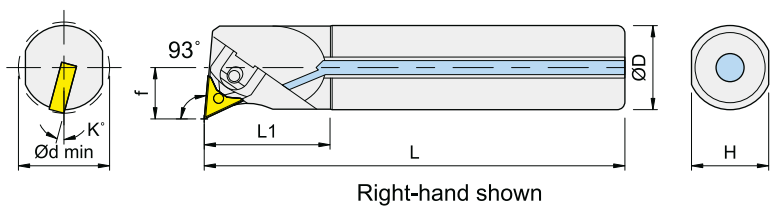
WTUN

S.-WTUNR/L-16 Steel shank

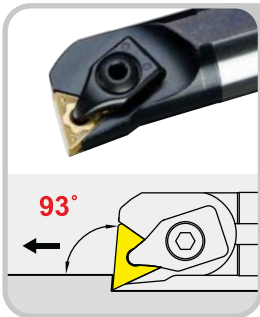


A.-WTUNR/L-16 Steel shank+coolant

hole

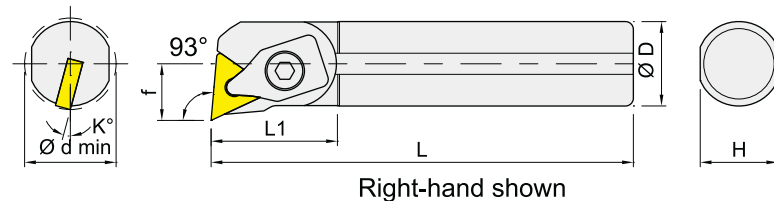


Order No. 訂購編碼	Dimensions, mm							Insert	Shim 	Pin 	Clamp 	Wrench 
	D	L	L1	f	H	K	dmin					
IS32S-WTUN ^R / _L -16	32	250	48	19.5	30	13	40	TN..1604..	ITMS322	ISCP315	IMCW3-P25	IPL25
IS40T-WTUN ^R / _L -16	40	300	55	25.5	37	10	50					
IS40U-WTUN ^R / _L -16	40	350	55	25.5	37	10	50					
IS50U-WTUN ^R / _L -16	50	350	60	30.5	47	9	60			ISCP318		
IS50V-WTUN ^R / _L -16	50	400	60	30.5	47	9	60					
IS60V-WTUN ^R / _L -16	60	400	60	35.5	57	8	70					
IA32S-WTUN ^R / _L -16	32	250	48	19.5	30	13	40			ISCP315		
IA40T-WTUN ^R / _L -16	40	300	55	25.5	37	10	50			ISCP318		
IA40U-WTUN ^R / _L -16	40	350	55	25.5	37	10	50					

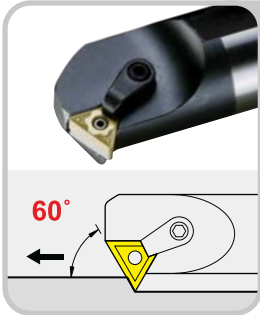


DTUN

S.-DTUNR/L-16 Steel shank

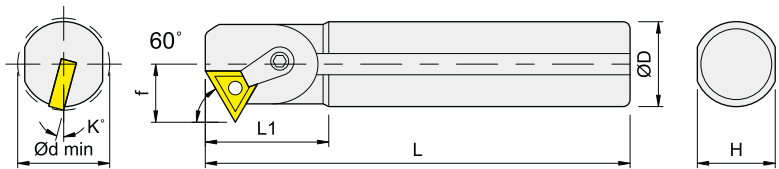


IOrder No. 訂購編碼	Dimensions, mm							Insert	Shim 	Screw 	Wrench 	Clamp 	Wrench 
	D	L	L1	f	H	K	dmin						
IS20R-DTUN ^R / _L -16	20	200	40	14	18	15	28	TN..1604..	--	--	--	IMCD324	IETL20
IS25R-DTUN ^R / _L -16	25	200	40	15.5	23	13	30						
IS32S-DTUNR-16	32	250	48	19.5	30	13	40		ITWS322	IMS4008H	IPL25	IMCD324B	



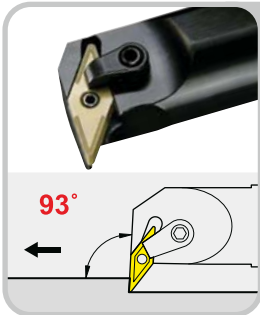
MTWN

S.-MTWNR/L-16 Steel shank



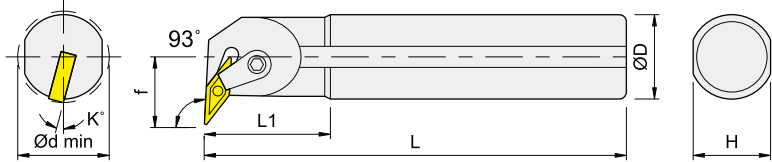
Right-hand shown

Order No. 訂購編碼	Dimensions, mm							Insert	Shim 	Pin 	Wrench 	Clamp 	Screw 	Wrench 
	D	L	L1	f	H	K	dmin							
IS20R-MTWN ^R /L-16	20	200	40	13.5	18	15	27	TN..1604..	--	IMLP33L	IPL20	IMC515	IMS520TX	IETL10
IS25R-MTWN ^R /L-16	25	200	40	16	23	13	32		ITWS322	IMLP34L		IMC620	IMS625TX	IETL15
IS32S-MTWN ^R /L-16	32	250	48	20	30	13	40							



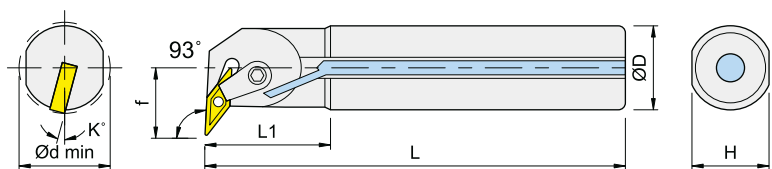
MVUN

S.-MVUNR/L-16 Steel shank



Right-hand shown

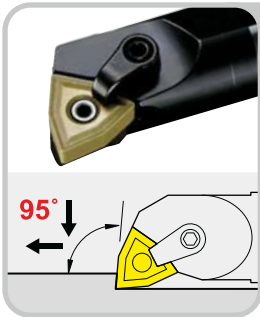
A.-MVUNR/L-16 Steel shank+coolant hole



Right-hand shown

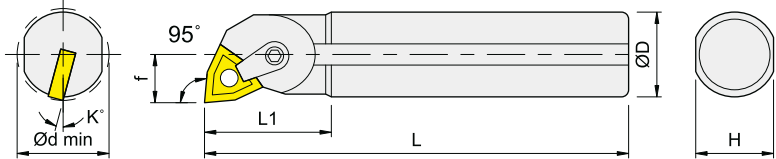
Order No. 訂購編碼	Dimensions, mm							Insert	Shim	Pin	Wrench	Clamp	Screw	Wrench
	D	L	L1	f	H	K	dmin							
IS25R-MVUN ^R /L-16	25	200	45	18	23	13	32	VN..1604..	--	IMLP33L	IPL20	IMC515	IMS520TX	IETL10
IS32S-MVUN ^R /L-16	32	250	50	21	30	13	40		IVMS322	IMLP34L	IPL20	IMC620	IMS625TX	IETL15
IA25R-MVUN ^R /L-16	25	200	45	18	23	13	32		--	IMLP33L	IPL20	IMC515	IMS520TX	IETL10
IA32S-MVUN ^R /L-16	32	250	50	21	30	13	40		IVMS322	IMLP34L	IPL20	IMC620	IMS625TX	IETL15

Turning Tools



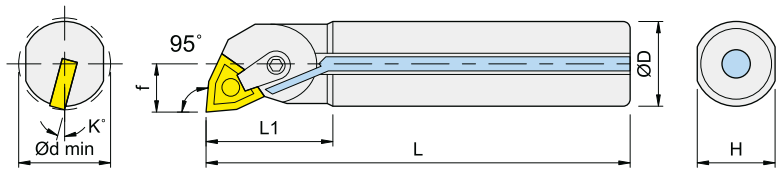
MWLN

■ S..MWLNR/L-08 Steel shank



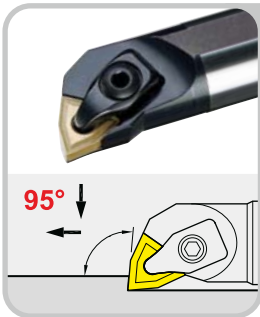
Right-hand shown

■ A..MWLNR/L-08 Steel shank+coolant hole



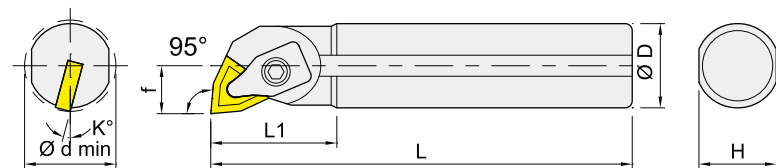
Right-hand shown

Order No. 訂購編碼	Dimensions, mm							Insert	Shim	Pin	Wrench	Clamp	Screw	Wrench
	D	L	L1	f	H	K	dmin							
IS20R-MWLN ^R /L-08	20	200	36	13	18	15	25	WN..0804..	--	IMLP44-A	IPL25	IMC515	IMS520TX	IETL10
IS25R-MWLN ^R /L-08	25	200	40	15	23	13	30						IMS520TX	
IS32S-MWLN ^R /L-08	32	250	48	20	30	13	40					IMC620	IMS625TX	IETL15
IS40T-MWLN ^R /L-08	40	300	55	25.5	37	10	50		IWMS432	IMLP46-A				
IS50U-MWLN ^R /L-08	50	350	60	30.5	47	9	60					IMC515	IMS520TX	IETL10
IS60V-MWLN ^R /L-08	60	400	60	35.5	57	8	70						IMS520TX	
IA20R-MWLN ^R /L-08	20	200	36	13	18	15	25		--	IMLP44-A				
IA25R-MWLN ^R /L-08	25	200	40	15	23	13	30						IMS520TX	
IA32S-MWLN ^R /L-08	32	250	48	20	30	13	40		IWMS432	IMLP46-A				



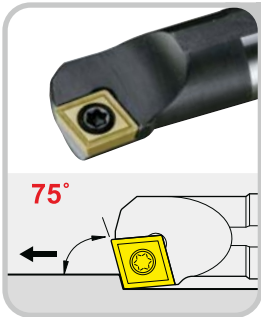
DWLN

■ S..DWLNR/L-.. Steel shank



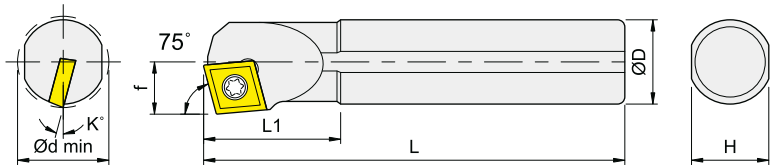
Right-hand shown

Order No. 訂購編碼	Dimensions, mm							Insert	Shim	Screw	Wrench	Clamp	Wrench
	D	L	L1	f	H	K	dmin						
IS20R-DWLN ^R /L-08	20	200	40	14	18	15	28	WN..0804..	--	--	--	IMCD425	IETL20
IS25R-DWLN ^R /L-08	25	200	40	15	23	13	30						



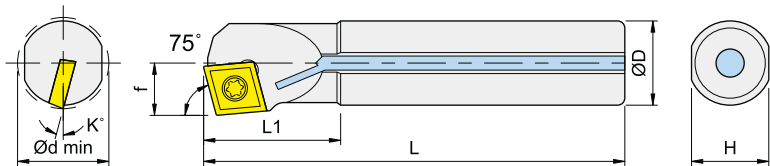
SCKC

■ S..-SCKC/PR/L-.. Steel shank



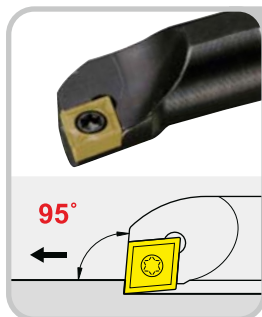
Right-hand shown

■ A..-SCKC/PR/L-.. Steel shank+coolant hole



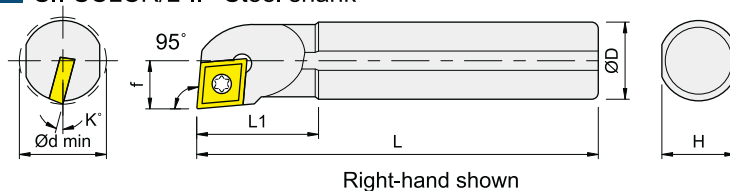
Right-hand shown

Order No. 訂購編碼	Dimensions, mm							Insert	Screw 	Wrench 
	D	L	L1	f	H	K	dmin			
IS08K-SCKC ^R / _L -06	8	125	20	5	7	15	10	CC..0602..	IMS2506A	ITK09
IS10K-SCKC ^R / _L -06	10	125	22	6	9	13	12			
IS12M-SCKC ^R / _L -06	12	150	26	8	11	10	16			
IS16Q-SCKC ^R / _L -06	16	180	32	10	15	7	20			
IS12M-SCKC ^R / _L -09	12	150	28	8	11	11	16	CC..09T3..	IMS4008A	ITK15
IS16Q-SCKC ^R / _L -09	16	180	32	10	15	7	20		IMS4009A	
IS20R-SCKC ^R / _L -09	20	200	36	12.5	18	5	25			
IA08K-SCKC ^R / _L -06	8	125	20	5	7	15	10	CC..0602..	IMS2506A	ITK09
IA10K-SCKC ^R / _L -06	10	125	22	6	9	13	12			
IA12M-SCKC ^R / _L -06	12	150	26	8	11	10	16			
IA16Q-SCKC ^R / _L -06	16	180	32	10	15	7	20			
IA12M-SCKC ^R / _L -09	12	150	28	8	11	11	16	CC..09T3..	IMS4008A	ITK15
IA16Q-SCKC ^R / _L -09	16	180	32	10	15	7	20		IMS4009A	
IA20R-SCKC ^R / _L -09	20	200	36	12.5	18	5	25			



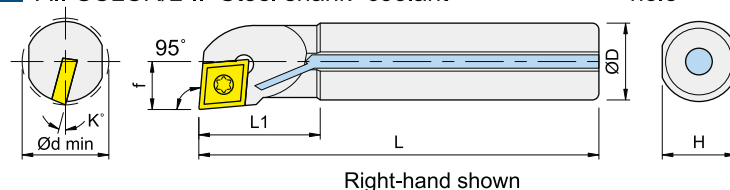
SCLC

■ S...SCLCR/L... Steel shank

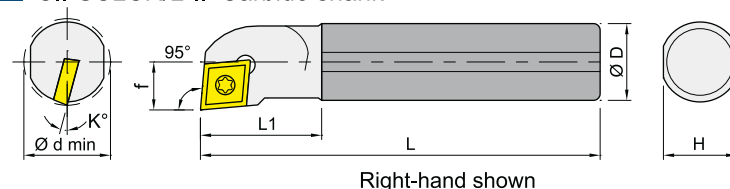


■ A...SCLCR/L... Steel shank+coolant

hole

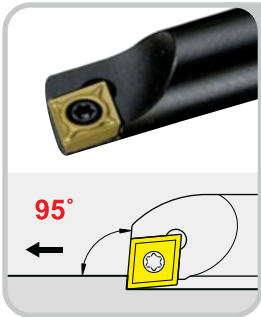


■ C...SCLCR/L... Carbide shank



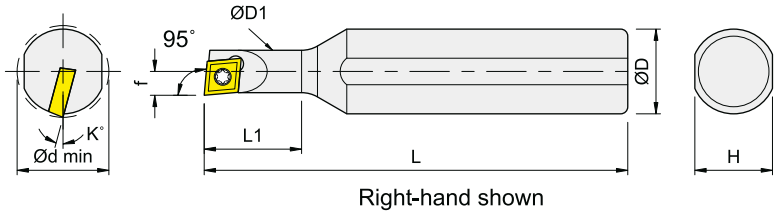
Order No. 訂購編碼	Dimensions, mm							Insert	Screw 	Wrench 	
	D	L	L1	f	H	K	dmin				
IS08K-SCLC ^R / _L -06	8	125	20	5	7	15	10	CC..0602..	IMS2506A	ITK09	
IS08K-SCLC ^R / _L -06-D09	8	125	20	4.5	7	15	9				
IS10K-SCLC ^R / _L -06	10	125	22	6	9	13	12				
IS10K-SCLC ^R / _L -06-D11	10	125	22	5.5	9	13	11				
IS12M-SCLC ^R / _L -06	12	150	26	8	11	10	16				
IS12M-SCLC ^R / _L -06-D13	12	150	26	6.5	11	10	13				
IS14Q-SCLC ^R / _L -06	14	180	26	8	13	10	16				
IS16Q-SCLC ^R / _L -06	16	180	32	10	15	7	20				
IS12M-SCLC ^R / _L -09	12	150	26	8	11	10	16	CC..09T3..	IMS4008A	ITK15	
IS14Q-SCLC ^R / _L -09	14	180	26	8	13	10	16				
IS15Q-SCLC ^R / _L -09	15	180	32	8.5	14	10	17				
IS16Q-SCLC ^R / _L -09	16	180	32	10	15	7	20				
IS16Q-SCLC ^R / _L -09-D18	16	180	32	9	15	7	18				
IS18Q-SCLCR-09	18	180	32	10	17	7	20				
IS20R-SCLC ^R / _L -09	20	200	36	13	18	5	25		IMS4009A		
IS22R-SCLC ^R / _L -09	22	200	40	12.5	20	5	25				
IS25R-SCLC ^R / _L -09	25	200	40	15	23	5	30	CC..09T3..	IMS4011A	ITK15	
IS32S-SCLC ^R / _L -12	32	250	48	20	30	5	38	CC..1204..	IMS5011A	ITK20	
IS40T-SCLC ^R / _L -12	40	300	55	26	37	3	50				
IS40V-SCLC ^R / _L -12	40	400	55	26	37	3	50				

Order No. 訂購編碼	Dimensions, mm							Insert	Screw 	Wrench 
	D	L	L1	f	H	K	dmin			
IA08K-SCLC ^{R/L} -06	8	125	20	5	7	15	10	CC..0602..	IMS2506A	ITK09
IA08K-SCLC ^{R/L} -06-D09	8	125	20	4.5	7	15	9			
IA10K-SCLC ^{R/L} -06	10	125	22	6	9	13	12			
IA10K-SCLC ^{R/L} -06-D11	10	125	22	5.5	9	13	11			
IA12M-SCLC ^{R/L} -06	12	150	26	8	11	10	16			
IA12M-SCLC ^{R/L} -06-D13	12	150	26	6.5	11	10	13			
IA14Q-SCLC ^{R/L} -06	14	180	26	8	13	10	16			
IA16Q-SCLC ^{R/L} -06	16	180	32	10	15	7	20			
IA12M-SCLC ^{R/L} -09	12	150	26	8	11	10	16	CC..09T3..	IMS4008A	ITK15
IA16Q-SCLC ^{R/L} -09	16	180	32	10	15	7	20			
IA16Q-SCLC ^{R/L} -09-D18	16	180	32	9	15	7	18			
IA20R-SCLC ^{R/L} -09	20	200	40	13	18	5	25			
IA25R-SCLC ^{R/L} -09	25	200	40	15	23	5	30	CC..09T3..	IMS4011A	ITK15
IA32S-SCLC ^{R/L} -12	32	250	48	20	30	5	38	CC..1204..	IMS5011A	ITK20
IC07J-SCLC ^{R/L} -06	7	110	18	4	6.7	15	8	CC..0602..	IMS2506A	ITK09
IC08K-SCLC ^{R/L} -06	8	125	20	5	7.2	15	10	CC..0602..	IMS2506A	ITK09
IC08K-SCLC ^{R/L} -06-D09	8	125	20	4.5	7.2	15	9			
IC10K-SCLC ^{R/L} -06	10	125	22	6	9.2	13	12			
IC10K-SCLC ^{R/L} -06-D11	10	125	22	5.5	9.2	13	11			
IC12M-SCLC ^{R/L} -06	12	150	26	8	11.2	10	16			
IC12M-SCLC ^{R/L} -06-D13	12	150	26	6.5	11.2	10	13			
IC12Q-SCLC ^{R/L} -09	12	150	26	8	11.2	10	16	CC..09T3..	IMS4008A	ITK15
IC16R-SCLC ^{R/L} -09	16	200	32	10	15.2	7	20			
IC16R-SCLCR-09-D18	16	200	32	9	15.2	7	18			



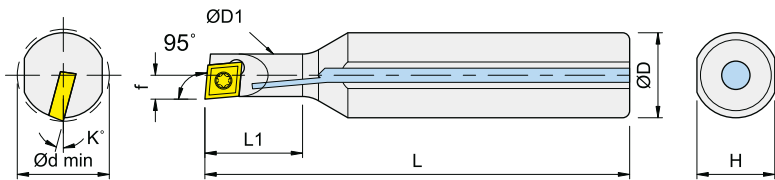
SCLC

■ S..-SCLCR/L-.. Steel shank



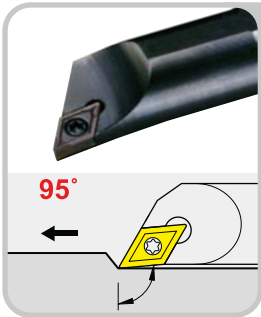
Right-hand shown

■ A..-SCLCR/L-.. Steel shank+coolant hole



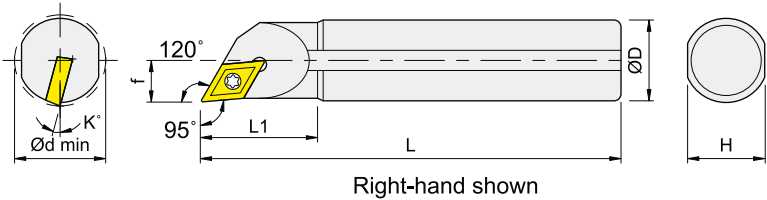
Right-hand shown

Order No. 訂購編碼	Dimensions, mm								Insert	Screw 	Wrench 
	D	D1	L	L1	f	H	K	dmin			
IS1607K-SCLC ^R / _L -06	16	7	125	20	4	15	13	8	CC..0602..	IMS2506A	ITK09
IS1608K-SCLC ^R / _L -06A	16	8	125	20	4.5	15	11	9			
IS1608K-SCLC ^R / _L -06	16	8	125	25	4.5	15	11	9			
IS1609K-SCLC ^R / _L -06	16	9	125	25	5	15	11	10			
IA1607K-SCLC ^R / _L -06	16	7	125	20	4	15	13	8	CC..0602..	IMS2506A	ITK09
IA1608K-SCLC ^R / _L -06A	16	8	125	20	4.5	15	11	9			
IA1608K-SCLCR-06	16	8	125	25	4.5	15	11	9			
IA1609K-SCLC ^R / _L -06	16	9	125	25	5	15	11	10			



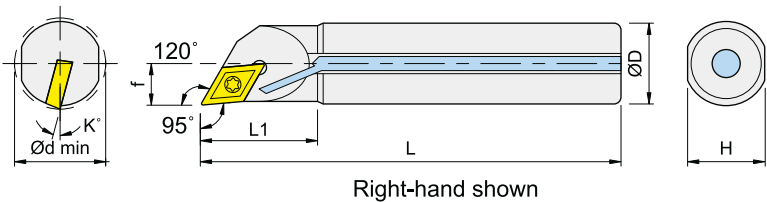
SDJC

■ S..-SDJCR/L-.. Steel shank



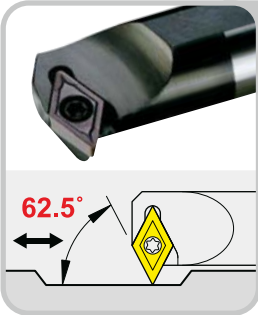
Right-hand shown

■ A..-SDJCR/L-.. Steel shank+coolant hole



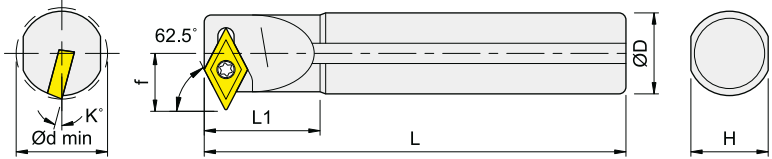
Right-hand shown

Order No. 訂購編碼	Dimensions, mm							Insert	Screw 	Wrench 
	D	L	L1	f	H	K	dmin			
IS08K-SDJC ^R / _L -07	8	125	22	5	7	15	10	DC..0702..	IMS2506B	ITK09
IS10K-SDJC ^R / _L -07	10	125	25	6	9	13	12			
IS12M-SDJC ^R / _L -07	12	150	30	7	11	10	14			
IS16Q-SDJC ^R / _L -07	16	180	38	9.5	15	7	19			
IS16Q-SDJC ^R / _L -11	16	180	38	9.5	15	7	19	DC..11T3..	IMS4009A	ITK15
IS20R-SDJC ^R / _L -11	20	200	42	11.5	18	7	23			
IS25R-SDJC ^R / _L -11	25	200	45	14	23	5	28			
IS32S-SDJC ^R / _L -11	32	250	48	17.5	30	5	35			
IA08K-SDJC ^R / _L -07	8	125	22	5	7	15	10	DC..0702..	IMS2506B	ITK09
IA10K-SDJC ^R / _L -07	10	125	25	6	9	13	12			
IA12M-SDJC ^R / _L -07	12	150	30	7	11	10	14			
IA16Q-SDJC ^R / _L -07	16	180	38	9.5	15	7	19			
IA16Q-SDJC ^R / _L -11	16	180	38	9.5	15	7	19	DC..11T3..	IMS4009A	ITK15
IA20R-SDJC ^R / _L -11	20	200	42	11.5	18	7	23			
IA25R-SDJC ^R / _L -11	25	200	45	14	23	5	28			



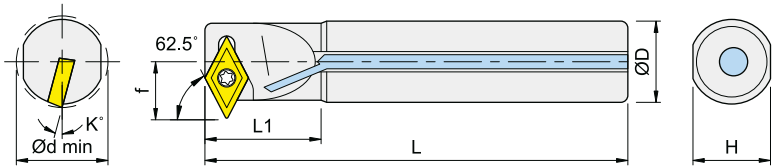
SDNC

■ S..-SDNCR/L-.. Steel shank



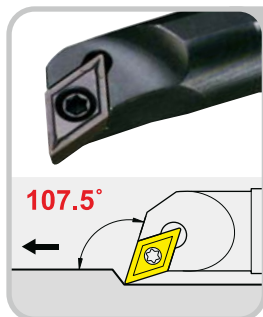
Right-hand shown

■ A..-SDNCR/L-.. Steel shank+coolant hole



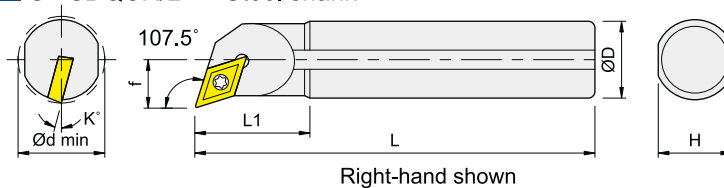
Right-hand shown

Order No. 訂購編碼	Dimensions, mm							Insert	Screw 	Wrench 
	D	L	L1	f	H	K	dmin			
IS12M-SDNC ^R / _L -07	12	150	25	9	11	7	16	DC..0702..	IMS2506B	ITK09
IS16Q-SDNC ^R / _L -07	16	180	30	11	15	7	20			
IS20R-SDNC ^R / _L -11	20	200	35	15	18	7	25	DC..11T3..	IMS4009A	ITK15
IS25R-SDNC ^R / _L -11	25	200	35	17	23	5	32			
IS32S-SDNC ^R / _L -11	32	250	40	20.5	30	5	40	DC..0702..	IMS2506B	ITK09
IA12M-SDNC ^R / _L -07	12	150	25	9	11	7	16			
IA16Q-SDNC ^R / _L -07	16	180	30	11	15	7	20	DC..11T3..	IMS4009A	ITK15
IA20R-SDNC ^R / _L -11	20	200	35	15	18	7	25			
IA25R-SDNC ^R / _L -11	25	200	35	17	23	5	32			

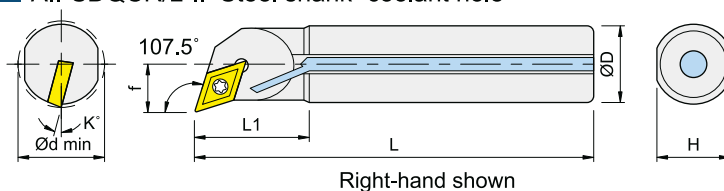


SDQC

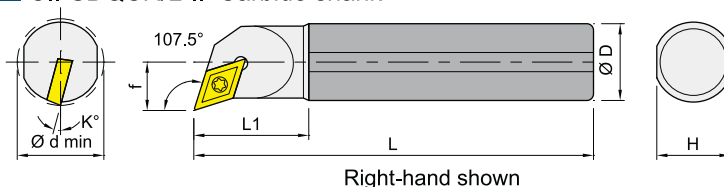
■ S..-SDQCR/L-.. Steel shank



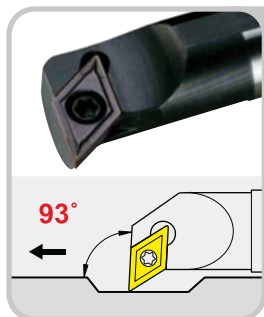
■ A..-SDQCR/L-.. Steel shank+coolant hole



■ C..-SDQCR/L-.. Carbide shank

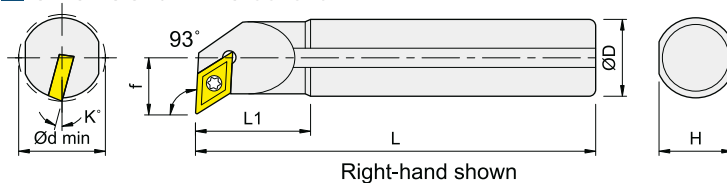


Order No. 訂購編碼	Dimensions, mm							Insert	Screw	Wrench
	D	L	L1	f	H	K	dmin			
IS10K-SDQC ^R /L-07	10	125	22	6.5	9	13	13	DC..0702..	IMS2506B	ITK09
IS12M-SDQC ^R /L-07	12	150	30	8	11	10	16			
IS16Q-SDQC ^R /L-07	16	180	35	10.25	15	7	20			
IS20R-SDQC ^R /L-07	20	200	40	12.5	18	7	25			
IS16Q-SDQC ^R /L-11	16	180	35	10.5	15	7	20	DC..11T3..	IMS4009A	ITK15
IS20R-SDQC ^R /L-11	20	200	40	13	18	7	25			
IS25R-SDQC ^R /L-11	25	200	45	15.5	23	5	32			
IS32S-SDQC ^R /L-11	32	250	48	19.5	30	5	40			
IS40T-SDQC ^R /L-11	40	300	55	25	37	3	50			
IS50U-SDQC ^R /L-11	50	350	60	30	47	2	60	DC..11T3..	IMS4009A	ITK15
IA10K-SDQC ^R /L-07	10	125	22	6.5	9	13	13			
IA12M-SDQC ^R /L-07	12	150	30	8	11	10	16			
IA16Q-SDQC ^R /L-07	16	180	35	10.25	15	7	20			
IA16Q-SDQC ^R /L-11	16	180	35	10.5	15	7	20			
IA20R-SDQC ^R /L-11	20	200	40	13	18	7	25			
IA25R-SDQC ^R /L-11	25	200	45	15.5	23	5	32			
IA32S-SDQC ^R /L-11	32	250	48	19.5	30	5	40			
IA40T-SDQCR/L-11	40	300	55	25	37	3	50	DC..0702..	IMS2506B	ITK09
IA50U-SDQCR/L-11	50	350	60	30	47	2	60			
IC10M-SDQCR-07	10	150	22	6	9.2	13	13			
IC12Q-SDQCR-07	12	180	30	8	11.2	10	16			
IC16R-SDQC ^R /L-07	16	200	35	10.25	15.2	7	20			

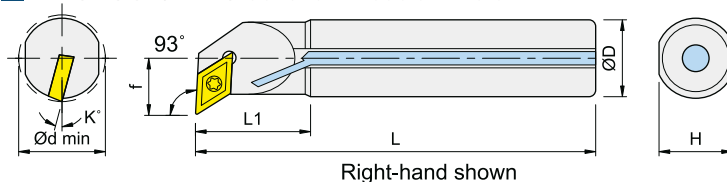


SDUC

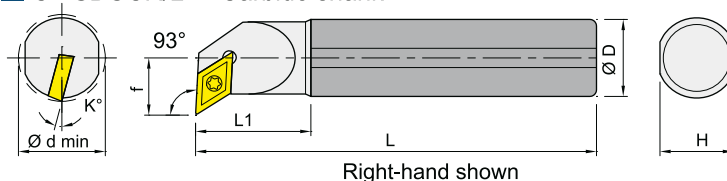
■ S..SDUCR/L-.. Steel shank



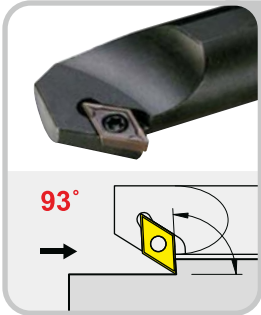
■ A..SDUCR/L-.. Steel shank+coolant hole



■ C..SDUCR/L-.. Carbide shank

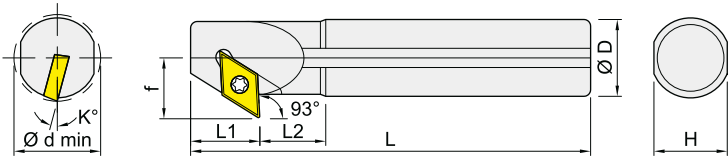


Order No. 訂購編碼	Dimensions, mm							Insert	Screw 	Wrench
	D	L	L1	f	H	K	dmin			
IS10K-SDUC ^R / _L -07	10	125	25	7	9	13	13	DC..0702..	IMS2506B	ITK09
IS12M-SDUC ^R / _L -07	12	150	30	8.5	11	10	16			
IS16Q-SDUC ^R / _L -07	16	180	30	11	15	7	20			
IS20R-SDUC ^R / _L -07	20	200	40	12.5	18	7	25			
IS16Q-SDUC ^R / _L -11	16	180	30	11	15	7	20	DC..11T3..	IMS4009A	ITK15
IS20R-SDUC ^R / _L -11	20	200	40	13	18	7	25			
IS25R-SDUC ^R / _L -11	25	200	45	17	23	5	32			
IS32S-SDUC ^R / _L -11	32	250	48	20	30	5	40			
IS40T-SDUC ^R / _L -11	40	300	55	25	37	3	50	DC..11T3..	IMS4009A	ITK15
IA10K-SDUC ^R / _L -07	10	125	25	7	9	13	13			
IA12M-SDUC ^R / _L -07	12	150	30	8.5	11	10	16			
IA16Q-SDUC ^R / _L -07	16	180	30	11	15	7	20			
IA16Q-SDUC ^R / _L -11	16	180	30	11	15	7	20	DC..11T3..	IMS4009A	ITK15
IA20R-SDUC ^R / _L -11	20	200	40	12.5	18	7	25			
IA25R-SDUC ^R / _L -11	25	200	45	17	23	5	32			
IA32S-SDUC ^R / _L -11	32	250	48	20	30	5	40			
IA40T-SDUC ^R / _L -11	40	300	55	25	37	3	50	DC..0702..	IMS2506B	ITK09
IC10M-SDUCR-07	10	150	25	7	9.2	13	13			
IC12Q-SDUCR-07	12	180	30	8.5	11.2	10	16			
IC16R-SDUCR-11	16	200	30	11	15.2	7	20			



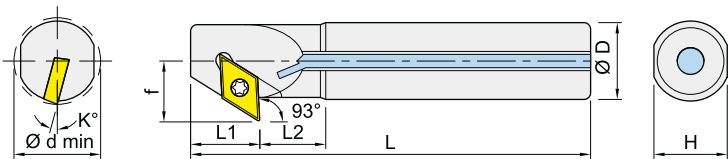
SDZC

S...SDZCR/L... Steel shank



Right-hand shown

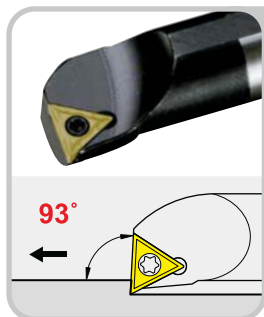
A...SDZCR/L... Steel shank+coolant hole



Right-hand shown

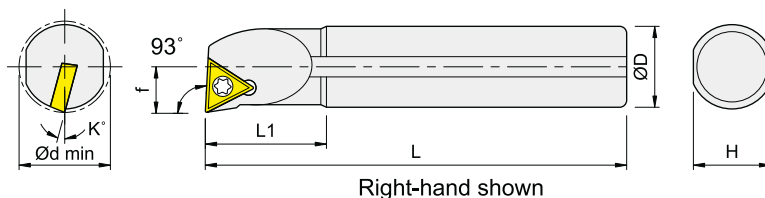
Order No. 訂購編碼	Dimensions, mm								Insert	Screw	Wrench
	D	L	L1	L2	f	H	K	dmin			
IS10M-SDZC ^R / _L -07	10	150	12	18	8.5	9	13	14	DC..0702..	IMS2506B	ITK09
IS12M-SDZC ^R / _L -07	12	150	12	20	10.5	11	10	17			
IS16Q-SDZC ^R / _L -07	16	180	12	26	12.5	15	7	21			
IS20R-SDZC ^R / _L -11	20	200	18	27	15.5	18	7	26	DC..11T3..	IMS4009A	ITK15
IS25R-SDZC ^R / _L -11	25	200	18	32	18	23	5	33			
IS32S-SDZC ^R / _L -11	32	250	18	42	21.5	30	5	40			
IA10M-SDZC ^R / _L -07	10	150	12	18	8.5	9	13	14	DC..0702..	IMS2506B0	ITK09
IA12M-SDZC ^R / _L -07	12	150	12	20	10.5	11	10	17			
IA16Q-SDZC ^R / _L -07	16	180	12	26	12.5	15	7	21			
IA20R-SDZC ^R / _L -11	20	200	18	27	15.5	18	7	26	DC..11T3..	IMS4009A	ITK15
IA25R-SDZC ^R / _L -11	25	200	18	32	18	23	5	33			
IA32S-SDZC ^R / _L -11	32	250	18	42	21.5	30	5	40			

Turning Tools

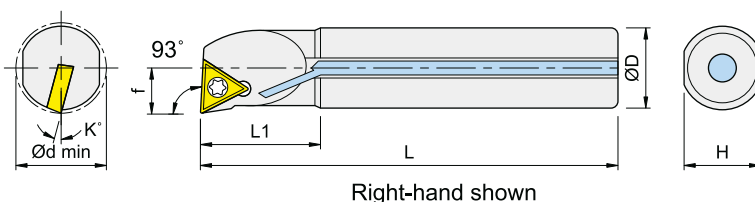


STUC

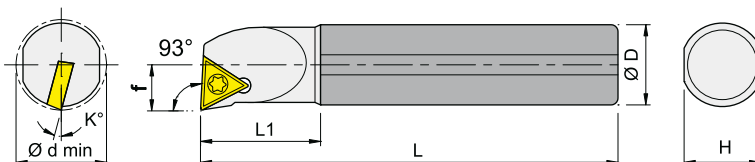
■ S.-STUCR/L-... Steel shank



■ A.-STUCR/L-... Steel shank+coolant hole

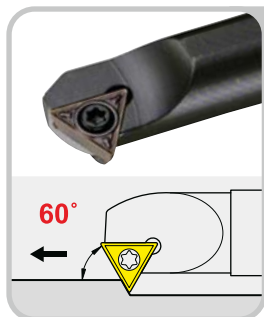


■ C.-STUCR/L-... Carbide shank



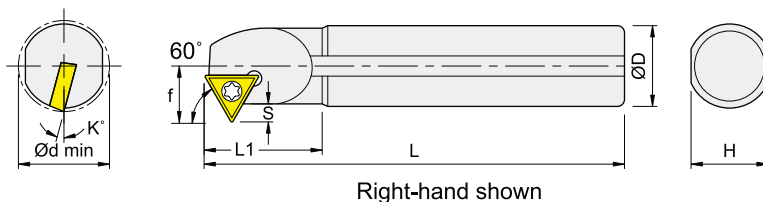
Order No. 訂購編碼	Dimensions, mm							Insert	Screw 	Wrench 
	D	L	L1	f	H	K	dmin			
IS08K-STUC ^R / _L -09	8	125	20	5.5	7	15	10	TC..0902..	IMS2205A	ITK07
IS10K-STUC ^R / _L -09	10	125	22	6	9	13	12		IMS2206A	
IS10K-STUC ^R / _L -09-D11	10	125	22	5.5	9	13	11			
IS12M-STUCR-09	12	150	26	8	11	10	16			
IS14M-STUCR-09	14	150	26	8	13	10	16			
IS10K-STUC ^R / _L -11	10	125	22	6	9	13	12	TC..1102..	IMS2506A	ITK09
IS12M-STUC ^R / _L -11	12	150	26	8	11	10	16			
IS12M-STUC ^R / _L -11-D13	12	150	26	6.5	11	10	13			
IS16Q-STUC ^R / _L -11	16	180	32	10	15	7	20			
IS16Q-STUC ^R / _L -11-D18	16	180	32	9	15	7	18			
IS20R-STUC ^R / _L -16	20	200	40	13	18	7	25	TC..16T3..	IMS4011A	ITK15
IS25R-STUC ^R / _L -16	25	200	40	15	23	5	30			
IS32S-STUC ^R / _L -16	32	250	48	20	30	5	38			
IS32T-STUC ^R / _L -16	32	300	48	20	30	5	38			

Order No. 訂購編碼	Dimensions, mm							Insert	Screw 	Wrench 
	D	L	L1	f	H	K	dmin			
IA08K-STUC ^R / _L -09	8	125	20	5.5	7	15	10	TC..0902..	IMS2205A	ITK07
IA10K-STUC ^R / _L -09	10	125	22	6	9	13	12		IMS2206A	
IA10K-STUC ^R / _L -11	10	125	22	6	9	13	12	TC..1102..	IMS2506A	ITK09
IA12M-STUC ^R / _L -11	12	150	26	8	11	10	16			
IA16Q-STUC ^R / _L -11	16	180	32	10	15	7	20			
IA20R-STUC ^R / _L -16	20	200	40	13	18	7	25	TC..16T3..	IMS4011A	ITK15
IA25R-STUC ^R / _L -16	25	200	40	15	23	5	30			
IA32S-STUC ^R / _L -16	32	250	48	20	30	5	38			
IA32T-STUC ^R / _L -16	32	300	48	20	30	5	38			
IC08K-STUC ^R / _L -09	8	125	20	5.5	7.2	15	10	TC..0902..	IMS2205A	ITK07
IC10K-STUC ^R / _L -09	10	125	22	6	9.2	13	12		IMS2206A	
IC10K-STUCR-11	10	125	22	6	9.2	13	12	TC..1102..	IMS2506A	ITK09
IC12M-STUC ^R / _L -11	12	150	26	8	11.2	10	16			
IC16R-STUCR-11	16	200	32	10	15.2	7	20			
IC16R-STUCR-11-D18	16	200	32	9	15.2	7	18			



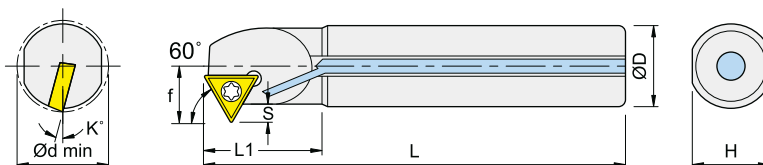
STWC

■ S..-STWCR/L-... Steel shank



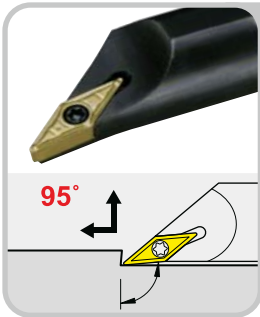
Right-hand shown

■ A..-STWCR/L-... Steel shank+coolant hole



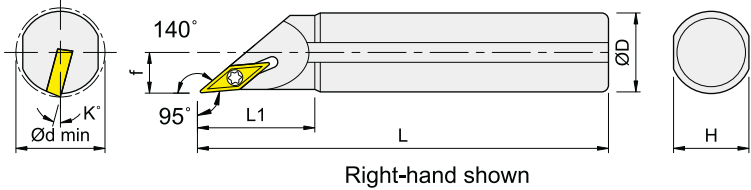
Right-hand shown

Order No. 訂購編碼	Dimensions, mm								Insert	Screw 	Wrench 
	D	L	L1	f	S	H	K	dmin			
IS08K-STWC ^R /L-09	8	125	23	6	2	7	15	11	TC..0902..	IMS2205A	ITK07
IS10K-STWC ^R /L-11	10	125	23	7.5	2.5	9	15	13	TC..1102..	IMS2506A	ITK09
IS12M-STWC ^R /L-11	12	150	30	8.5	2.5	11	13	16			
IS16Q-STWC ^R /L-11	16	180	30	10.5	2.5	15	10	20			
IS20R-STWC ^R /L-11	20	200	40	12.5	2.5	18	7	25			
IS20R-STWC ^R /L-16	20	200	40	14.5	4.5	18	8	26	TC..16T3..	IMS4011A	ITK15
IS25R-STWC ^R /L-16	25	200	45	17	4.5	23	6	30			
IS32S-STWC ^R /L-16	32	250	45	20.5	4.5	30	4	40			
IA10K-STWC ^R /L-11	10	125	23	7.5	2.5	9	15	13	TC..1102..	IMS2506A	ITK09
IA12M-STWC ^R /L-11	12	150	30	8.5	2.5	11	13	16			
IA16Q-STWC ^R /L-11	16	180	30	10.5	2.5	15	10	20			
IA20R-STWC ^R /L-11	20	200	40	12.5	2.5	18	7	25			
IA20R-STWC ^R /L-16	20	200	40	14.5	4.5	18	8	26	TC..16T3..	IMS4011A	ITK15
IA25R-STWC ^R /L-16	25	200	45	17	4.5	23	6	30			
IA32S-STWC ^R /L-16	32	250	45	20.5	4.5	30	4	40			



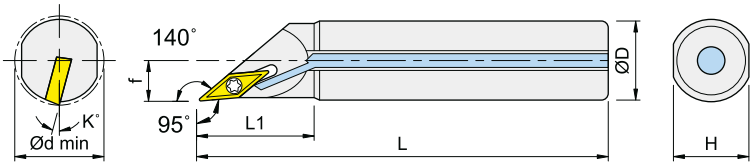
SVJB

■ S..-SVJBR/L-.. Steel shank



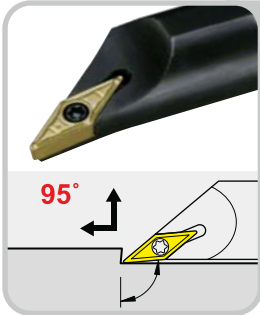
Right-hand shown

■ A..-SVJBR/L-.. Steel shank+coolant hole



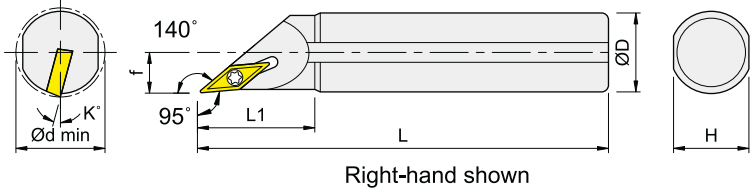
Right-hand shown

Order No. 訂購編碼	Dimensions, mm							Insert	Screw 	Wrench 
	D	L	L1	f	H	K	dmin			
IS16Q-SVJB ^R / _L -16	16	180	38	9.5	15	7	19	VB..1604..	IMS3509B	ITK15
IS20R-SVJB ^R / _L -16	20	200	42	11.5	18	7	23			
IS25R-SVJB ^R / _L -16	25	200	45	14	23	5	28			
IS32S-SVJB ^R / _L -16	32	250	50	17.5	30	4	35			
IA16Q-SVJB ^R / _L -16	16	180	38	9.5	15	7	19	VB..1604..	IMS3509B	ITK15
IA20R-SVJB ^R / _L -16	20	200	42	11.5	18	7	23			
IA25R-SVJB ^R / _L -16	25	200	45	14	23	5	28			
IA32S-SVJB ^R / _L -16	32	250	50	17.5	30	4	35			

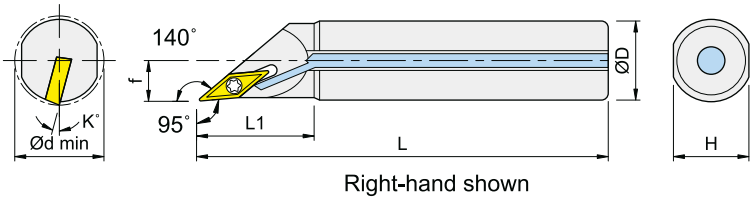


SVJC

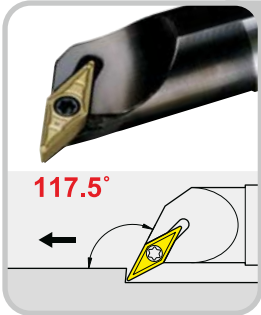
S..-SVJCR/L-.. Steel shank



A..-SVJCR/L-.. Steel shank+coolant hole

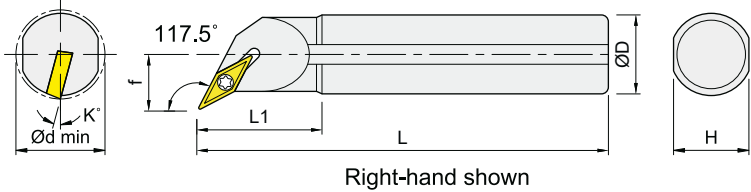


Order No. 訂購編碼	Dimensions, mm							Insert	Screw 	Wrench 
	D	L	L1	f	H	K	dmin			
IC10K-SVJCR _L -11	10	125	25	6	9	13	12	VC..1103..	IMS2506A	ITK09
IC12M-SVJCR _L -11	12	150	30	7	11	10	14			
IC16Q-SVJCR _L -11	16	180	38	9.5	15	7	19			
IC20R-SVJCR _L -11	20	200	42	11.5	18	7	23			
IE10K-SVJCR _L -11	10	125	25	6	9	13	12			
IE12M-SVJCR _L -11	12	150	30	7	11	10	14			
IE16Q-SVJCR _L -11	16	180	38	9.5	15	7	19			
IE20R-SVJCR _L -11	20	200	42	11.5	18	7	23			

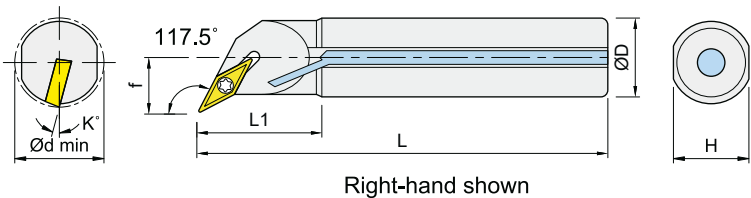


SVQB

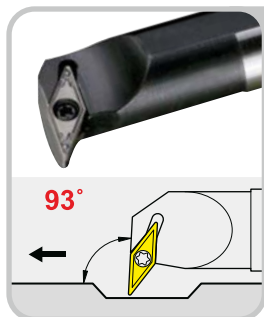
S..-SVQB/CR/L-.. Steel shank



A..-SVQB/CR/L-.. Steel shank+coolant hole

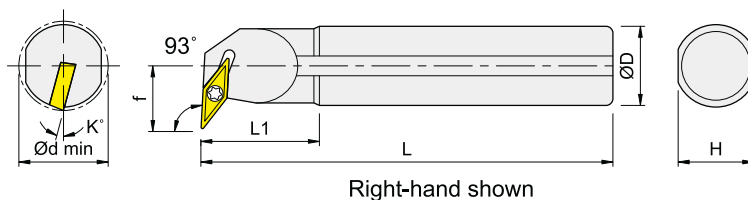


Order No. 訂購編碼	Dimensions, mm							Insert	Shim	Screw	Wrench	Screw	Wrench
	D	L	L1	f	H	K	dmin						
IS25R-SVQB ^R / _L -16	25	200	45	16	23	5	32	VB..1604..	--	--	--	IMS3509B	ITK15
IS32S-SVQB ^R / _L -16	32	250	48	20	30	5	40		IVSS322	IMDS5035S	IPL35	IMS3512B	
IS40T-SVQB ^R / _L -16	40	300	60	25.5	37	5	50		--	--	--	IMS3509B	
IA25R-SVQB ^R / _L -16	25	200	45	16	23	5	32		--	--	--	IMS3509B	
IA32S-SVQB ^R / _L -16	32	250	48	20	30	5	40		IVSS322	IMDS5035S	IPL35	IMS3512B	
IS12M-SVQC ^R / _L -11	12	150	28	9	11	10	16	VC..1103..	--	--	--	IMS2506A	ITK09
IS16Q-SVQC ^R / _L -11	16	180	35	11	15	7	20		--	--	--	IMS2506A	
IS20R-SVQC ^R / _L -11	20	200	40	13	18	7	25		--	--	--	IMS2506A	
IA16Q-SVQC ^R / _L -11	16	180	35	11	15	7	20		--	--	--	IMS2506A	
IA25R-SVQC ^R / _L -16	20	200	40	13	18	7	25		--	--	--	IMS2506A	

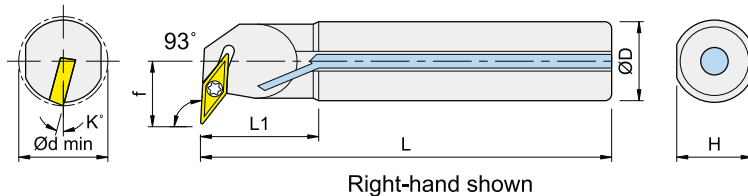


SVUB

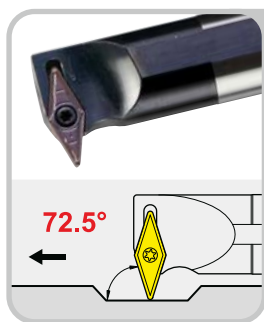
■ S..-SVUBR/L-.. Steel shank



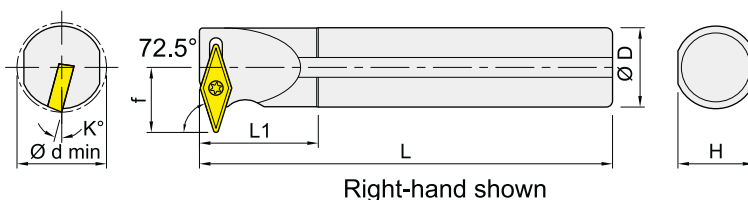
■ A..-SVUBR/L-.. Steel shank+coolant hole



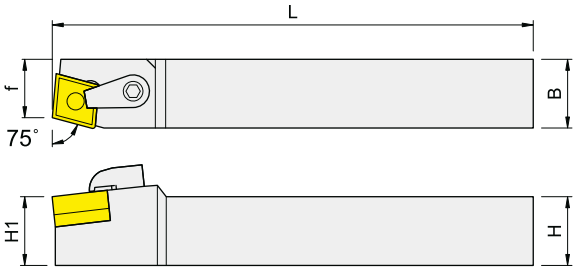
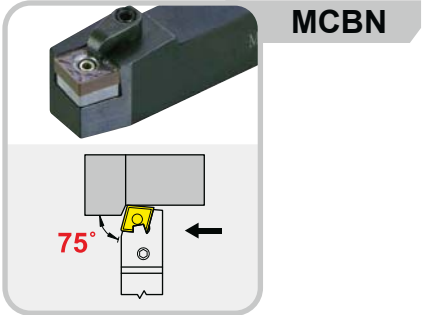
Order No. 訂購編碼	Dimensions, mm							Insert	Shim 	Screw 	Wrench 	Screw 	Wrench 
	D	L	L1	f	H	K	dmin						
IS25R-SVUB ^R / _L -16	25	200	45	18	23	5	32	VB..1604..	--	--	--	IMS3509B	ITK15
IS32S-SVUB ^R / _L -16	32	250	50	22	30	5	40		IVSS322	IMDS5035S	IPL35	IMS3512B	
IS40T-SVUB ^R / _L -16	40	300	55	27	37	5	50						
IA25R-SVUB ^R / _L -16	25	200	45	18	23	5	32		--	--	--	IMS3509B	
IS16Q-SVUC ^R / _L -11	16	180	30	13	15	7	22	VC..1103..	--	--	--	IMS2506A	ITK09
IS20R-SVUC ^R / _L -11	20	200	40	15	18	7	27						
IA16Q-SVUC ^R / _L -11	16	180	30	13	15	7	22						
IA20R-SVUC ^R / _L -11	20	200	40	15	18	7	27						



SVVB

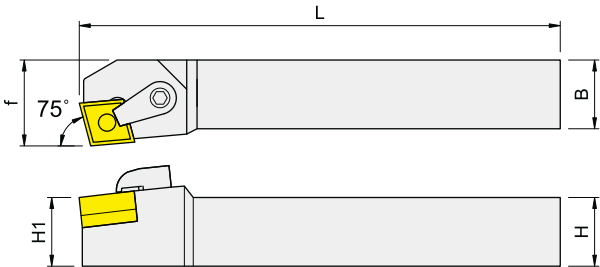
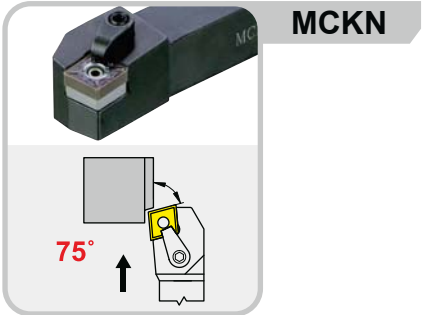


Order No. 訂購編碼	Dimensions, mm							Insert	Shim 	Screw 	Wrench 	Screw 	Wrench 
	D	L	L1	f	H	K	dmin						
IS25R-SVVB ^R / _L -16	25	200	45	20.5	23	5	34	VB..1604..	--	--	--	IMS3509B	ITK15
IS25S-SVVB ^R / _L -16	25	250	45	20.5	23	5	34					IMS3512B	
IS32S-SVVB ^R / _L -16	32	250	50	25	30	5	42	VB..1604..	IVSS322	IMDS5035S	IPL35	IMS3512B	ITK15



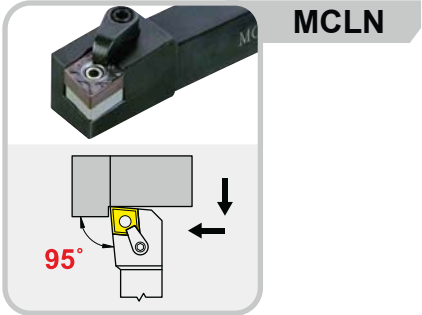
Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Pin	Shim	Wrench	Screw	Clamp	Wrench
	H	B	L	H1	f							
IMCBN ^R / _L -2020K-12	20	20	125	20	17	CN..1204..	IMLP46-A	ICMS432	IPL25	IMS625TX	IMC620	IETL15
IMCBN ^R / _L -2525M-12	25	25	150	25	22					IMS630TX		
IMCBN ^R / _L -3232P-12	32	32	170	32	29					IMS630TX		

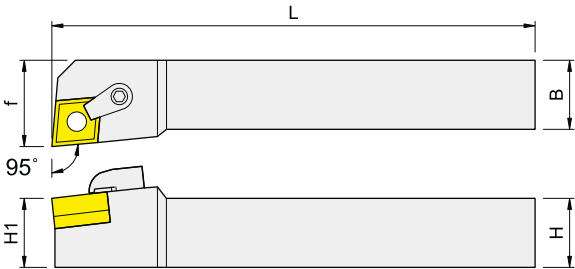


Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Pin	Shim	Wrench	Screw	Clamp	Wrench
	H	B	L	H1	f							
IMCKN ^R / _L -1616K-12	16	16	125	16	20	CN..1204..	IMLP46-A	ICMS432	IPL25	IMS625TX	IMC620	IETL15
IMCKN ^R / _L -2020K-12	20	20	125	20	25					IMS625TX		
IMCKN ^R / _L -2525M-12	25	25	150	25	32					IMS630TX		
IMCKN ^R / _L -3232P-12	32	32	170	32	40					IMS630TX		

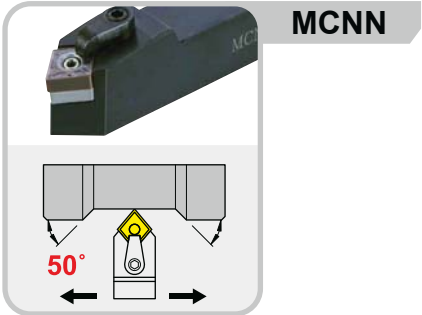


MCLN

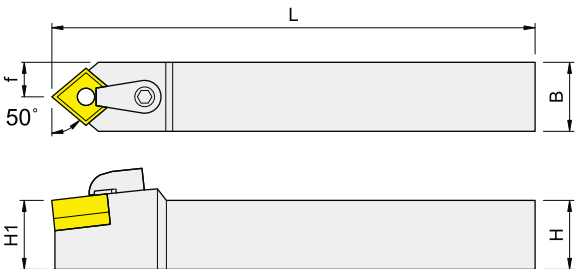


Right-hand shown

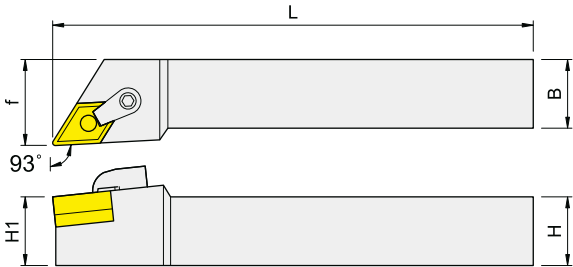
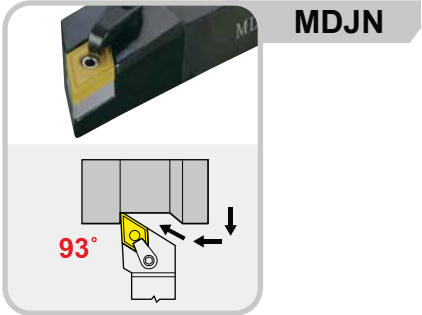
Order No. 訂購編碼	Dimensions, mm					Insert	Pin	Shim	Wrench	Screw	Clamp	Wrench
	H	B	L	H1	f							
IMCLN ^R _L -1616K-12	16	16	125	16	20	CN..1204..	IMLP46-A	ICMS432	IPL25	IMS625TX	IMC620	IETL15
IMCLN ^R _L -2020K-12	20	20	125	20	25							
IMCLN ^R _L -2525M-12	25	25	150	25	32					IMS630TX		
IMCLN ^R _L -3232P-12	32	32	170	32	40							



MCNN

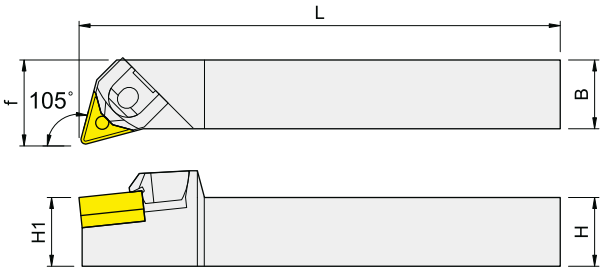
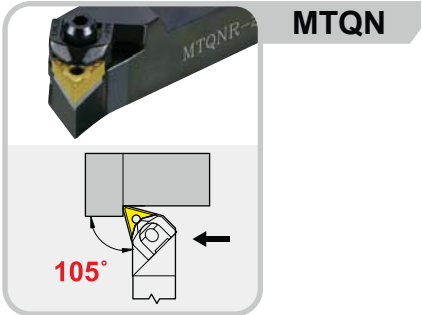


Order No. 訂購編碼	Dimensions, mm					Insert	Pin	Shim	Wrench	Screw	Clamp	Wrench
	H	B	L	H1	f							
IMCNNN-1616K-12	16	16	125	16	8	CN..1204..	IMLP46-A	ICMS432	IPL25	IMS625TX	IMC620	IETL15
IMCNNN-2020K-12	20	20	125	20	10							
IMCNNN-2525M-12	25	25	150	25	12.5					IMS630TX		
IMCNNN-3232P-12	32	32	170	32	16							



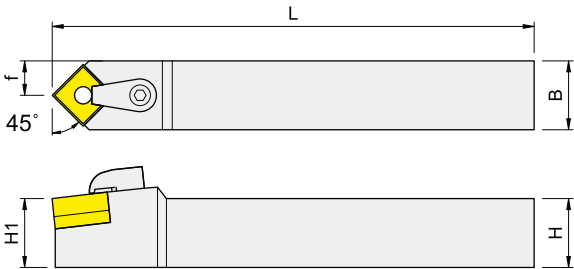
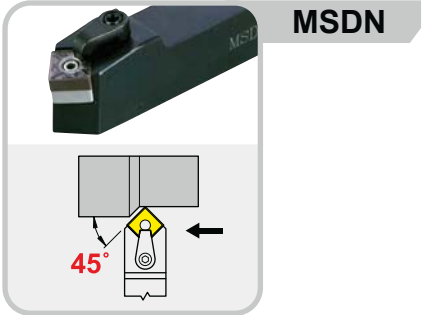
Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Pin	Shim	Wrench	Screw	Clamp	Wrench
	H	B	L	H1	f							
IMDJN ^R _L -2020K-1504	20	20	125	20	25	DN..1504..	IMLP46-AL	IDMS442	IPL25	IMS625TX	IMC622	IETL15
IMDJN ^R _L -2525M-1504	25	25	150	25	32					IMS630TX		
IMDJN ^R _L -2020K-1506	20	20	125	20	25	DN..1506..	IMLP46-AL	IDMS432	IPL25	IMS625TX	IMC622	IETL15
IMDJN ^R _L -2525M-1506	25	25	150	25	32					IMS630TX		



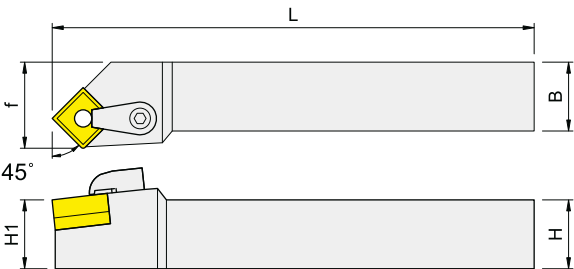
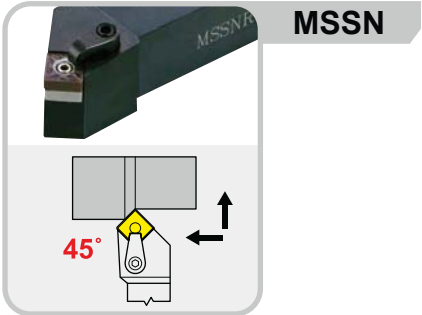
Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Pin	Screw	Wrench	Shim	Clamp	Wrench
	H	B	L	H1	f							
IMTQN ^R _L -2020K-16	20	20	125	20	25	TN..1604..	IMCP3	IMCS3S-11	IPL30	ITWS322	IMCW3-P40	IPL40
IMTQN ^R _L -2525M-16	25	25	150	25	32							



Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Pin	Shim	Wrench	Screw	Clamp	Wrench
	H	B	L	H1	f							
IMSDNN-2020K-12	20	20	125	20	10	SN..1204..	IMLP46-A	ISMS432	IPL25	IMS625TX	IMC620	IETL15
IMSDNN-2525M-12	25	25	150	25	12.5					IMS630TX		

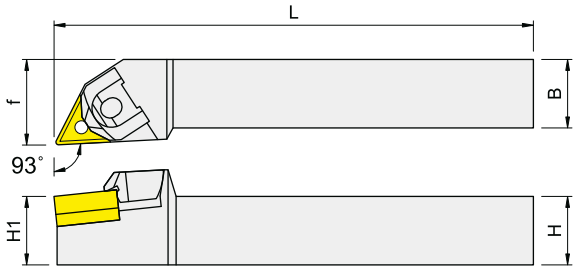
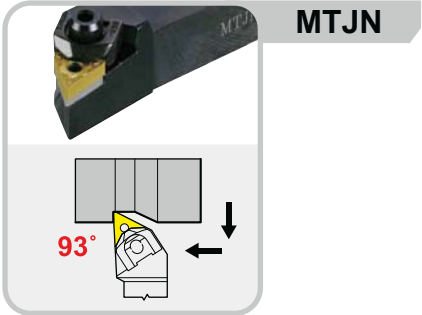


Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Pin	Shim	Wrench	Screw	Clamp	Wrench
	H	B	L	H1	f							
IMSSN ^R _L -1616K-12	16	16	125	16	20	SN..1204..	IMLP46-A	ISMS432	IPL25	IMS625TX	IMC620	IETL15
IMSSN ^R _L -2020K-12	20	20	125	20	25					IMS630TX		
IMSSN ^R _L -2525M-12	25	25	150	25	32					IMS630TX		

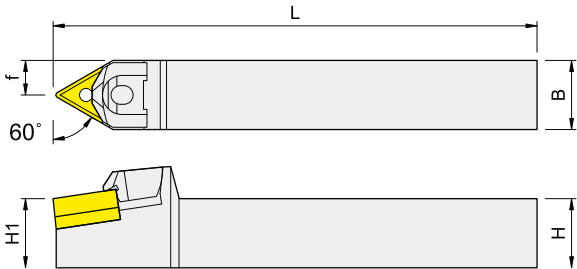
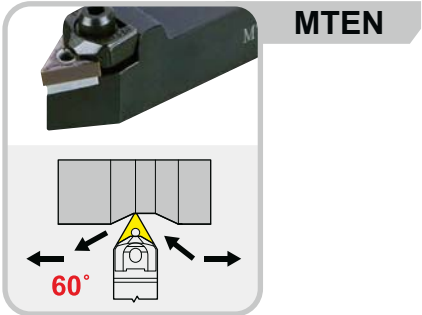
External Turning Tools

外徑車刀桿



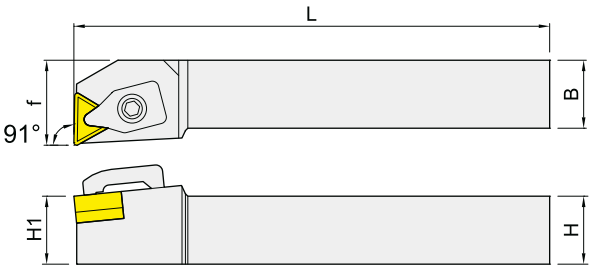
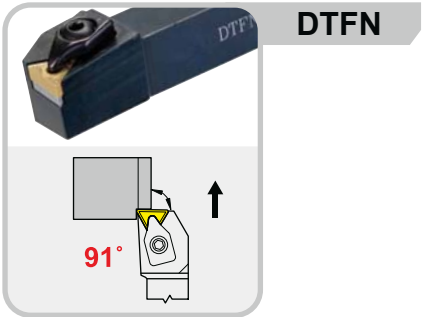
Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Pin	Screw	Wrench	Shim	Clamp	Wrench
	H	B	L	H1	f							
IMTJN ^R / _L -1216K-16	12	16	125	16	21	TN..1604..	IMCP3	IMCS3S-11	IPL30	ITWS322	IMCW3-P40	IPL40
IMTJN ^R / _L -1616K-16	16	16	125	16	21							
IMTJN ^R / _L -2020K-16	20	20	125	20	25							
IMTJN ^R / _L -2525M-16	25	25	150	25	32							
IMTJN ^R / _L -3232P-16	32	32	170	32	40							



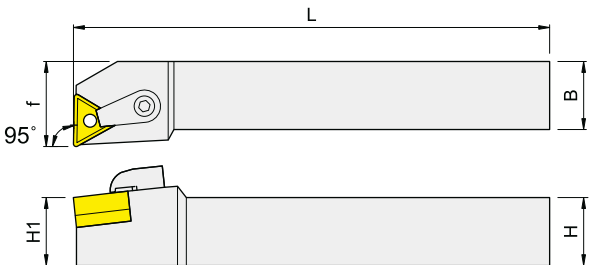
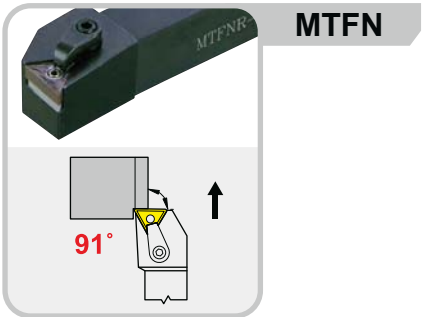
Order No. 訂購編碼	Dimensions, mm					Insert	Pin	Screw	Wrench	Shim	Clamp	Wrench
	H	B	L	H1	f							
IMTENN-1216K-16	12	16	125	16	8	TN..1604..	IMCP3	IMCS3S-09	IPL30	ITWS322	IMCW3-P40	IPL40
IMTENN-1616K-16	16	16	125	16	8							
IMTENN-2020K-16	20	20	125	20	10							
IMTENN-2525M-16	25	25	150	25	12.5							

Turning Tools



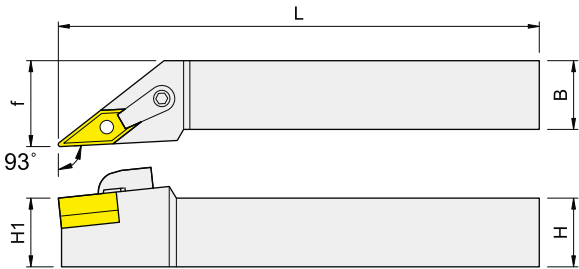
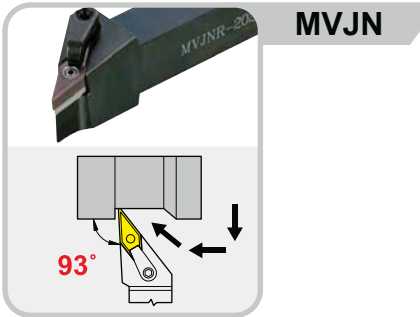
Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Shim	Screw	Wrench	Clamp	Wrench
	H	B	L	H1	f						
IDTFN ^R _L -1616K-16	16	16	125	16	20	TN..1604..	ITWS322	IMS4008H	IPL25	IMCD324B	IPL40
IDTFN ^R _L -2020K-16	20	20	125	20	25						
IDTFN ^R _L -2525M-16	25	25	150	25	32						



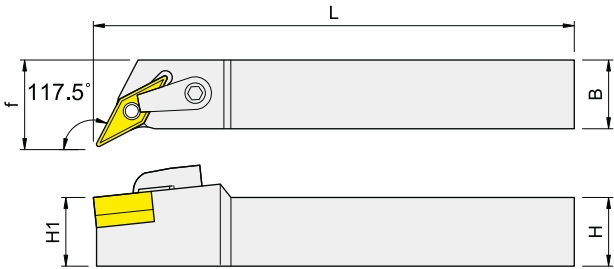
Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Pin 	Shim 	Wrench 	Screw 	Clamp 	Wrench 
	H	B	L	H1	f							
IMTFNR-1616K-16	16	16	125	16	20	TN..1604..	IMLP34L-A	ITMS322	IPL20	IMS625TX	IMC620	IETL15
IMTFNR-2020K-16	20	20	125	20	25					IMS630TX		
IMTFNR-2525M-16	25	25	150	25	32							



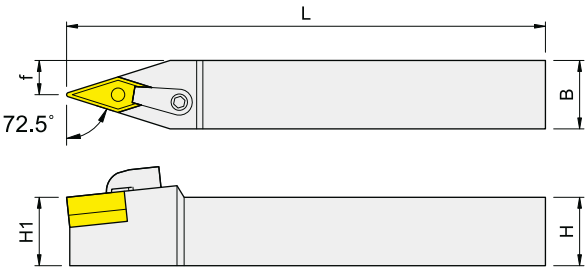
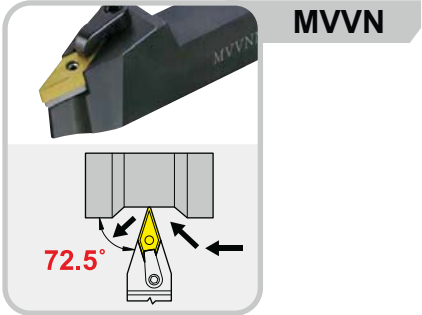
Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Pin	Shim	Wrench	Screw	Clamp	Wrench
	H	B	L	H1	f							
IMVJN ^R _L -1616K-16	16	16	125	16	21	VN..1604..	IMLP34L-A	IVMS322	IPL20	IMS625TX	IMC622	IETL15
IMVJN ^R _L -2020K-16	20	20	125	20	25					IMS630TX		
IMVJN ^R _L -2525M-16	25	25	150	25	32							

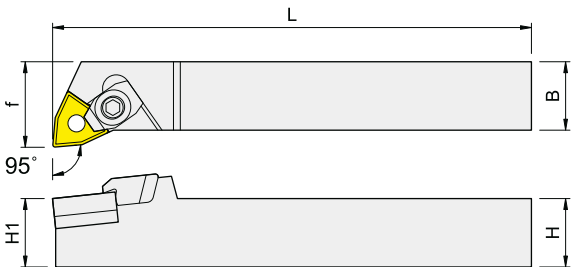
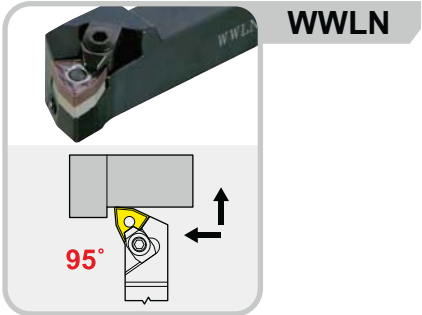


Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Pin	Shim	Wrench	Screw	Clamp	Wrench
	H	B	L	H1	f							
IMVQN ^R _L -2020K-16	20	20	125	20	25	VN..1604..	IMLP34L-A	IVMS322	IPL20	IMS625TX	IMC622	IETL15
IMVQN ^R _L -2525M-16	25	25	150	25	32					IMS630TX		

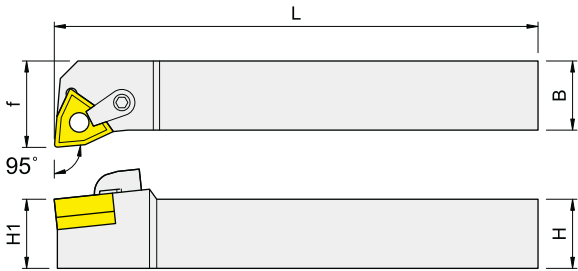
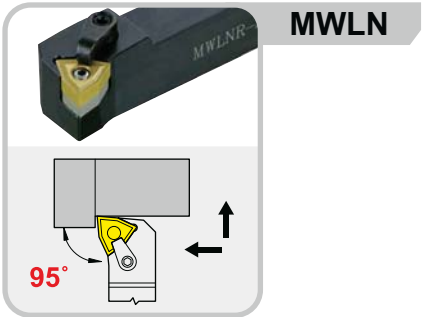


Order No. 訂購編碼	Dimensions, mm					Insert	Pin	Shim	Wrench	Screw	Clamp	Wrench
	H	B	L	H1	f							
IMVVNN-1616K-16	16	16	125	16	8	VN..1604..	IMLP34L-A	IVMS322	IPL20	IMS625TX	IMC622	IETL15
IMVVNN-2020K-16	20	20	125	20	10					IMS630TX		
IMVVNN-2525M-16	25	25	150	25	12.5							



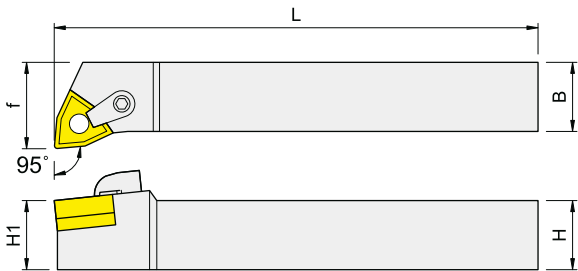
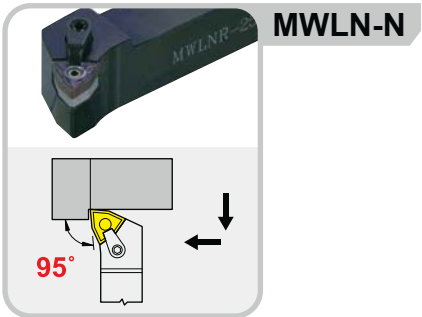
Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Pin	Screw	Wrench	Shim	Clamp	Wrench
	H	B	L	H1	f							
IWWLN ^R / _L -2020K-08	20	20	125	20	25	WN..0804..	IMCP4	IMCS3S-09	IPL30	IWMS432	IWCW6-P4	IPL40
IWWLN ^R / _L -2525M-08	25	25	150	25	32							



Right-hand shown

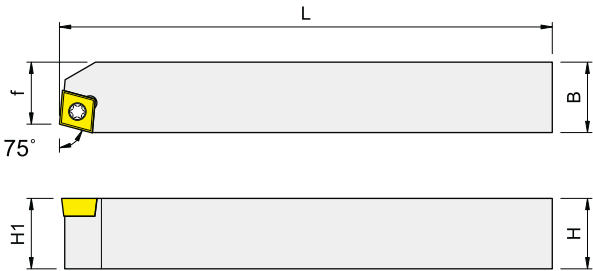
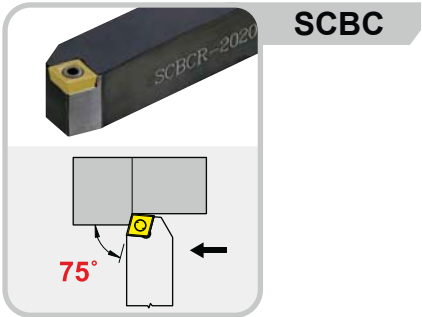
Order No. 訂購編碼	Dimensions, mm					Insert	Pin	Shim	Wrench	Screw	Clamp	Wrench
	H	B	L	H1	f							
IMWLN ^R /L-2020K-08	20	20	125	20	25	WN..0804..	IMLP46-A	IWMS432	IPL25	IMS625TX	IMC620	IETL15
IMWLN ^R /L-2525M-08	25	25	150	25	32					IMS630TX		



Right-hand shown

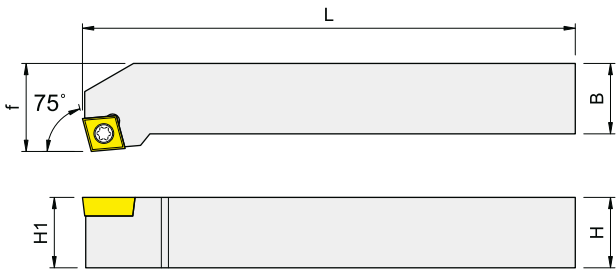
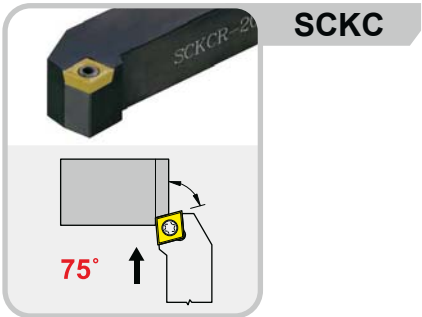
Order No. 訂購編碼	Dimensions, mm					Insert	Pin	Shim	Wrench	Screw	Clamp	Wrench
	H	B	L	H1	f							
IMWLN ^R /L-2020K-08N	20	20	125	20	25	WN..0804..	IMLP46-A	IWMS432	IPL25	IMS625TX	IMC620	IETL15
IMWLN ^R /L-2525M-08N	25	25	150	25	32					IMS630TX		

Turning Tools



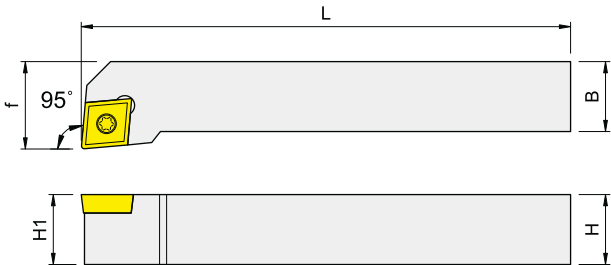
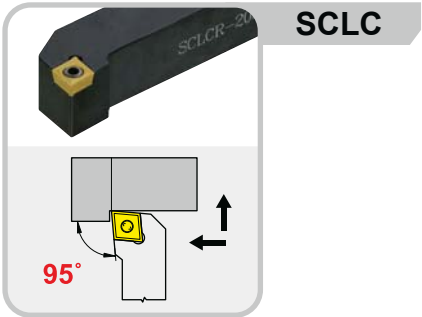
Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Clamp 	Wrench 
	H	B	L	H1	f			
ISCB ^R _L -2020K-09	20	20	125	20	17.5	CC..09T3..	IMS4011A	ITK15



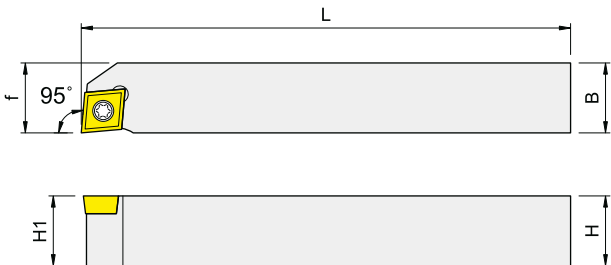
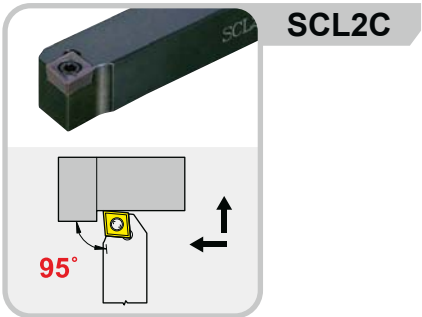
Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Clamp 	Wrench 
	H	B	L	H1	f			
ISCK ^R _L -1212K-09	12	12	125	12	16	CC..09T3..	IMS4011A	ITK15
ISCK ^R _L -1616K-09	16	16	125	16	20			
ISCK ^R _L -2020K-09	20	20	125	20	25			
ISCK ^R _L -2525M-09	25	25	150	25	32			



Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Clamp	Wrench
	H	B	L	H1	f			
ISCLC ^R / _L -1010H-06	10	10	100	10	12	CC..0602..	IMS2506A	ITK09
ISCLC ^R / _L -1010K-06	10	10	125	10	12			
ISCLC ^R / _L -1212H-09	12	12	100	12	16	CC..09T3..	IMS4011A	ITK15
ISCLC ^R / _L -1212K-09	12	12	125	12	16			
ISCLC ^R / _L -1616K-09	16	16	125	16	20			
ISCLC ^R / _L -2020K-09	20	20	125	20	25			
ISCLC ^R / _L -2525M-09	25	25	150	25	32	CC..1204..	IMS5011A	ITK20
ISCLC ^R / _L -2020K-12	20	20	125	20	25			
ISCLC ^R / _L -2525K-12	25	25	150	25	32			



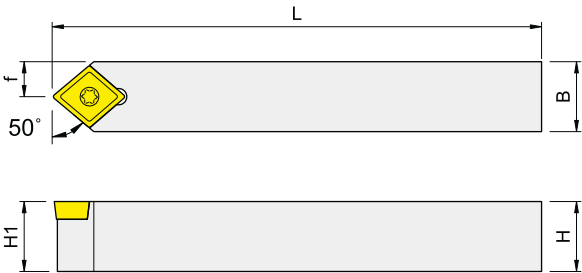
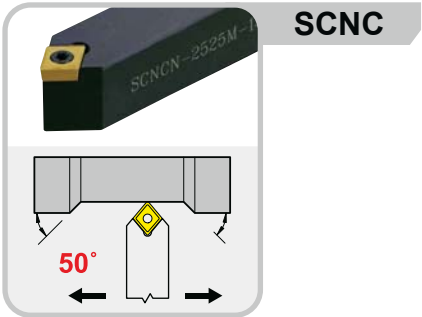
Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Clamp	Wrench
	H	B	L	H1	f			
ISCL2C ^R / _L -1010H-06	10	10	100	10	10	CC..0602..	IMS2506A	ITK09
ISCL2C ^R / _L -1212H-09	12	12	100	12	12			
ISCL2C ^R / _L -1616K-09	16	16	125	16	16	CC..09T3..	IMS4011A	ITK15
ISCL2C ^R / _L -2020K-09	20	20	125	20	25			

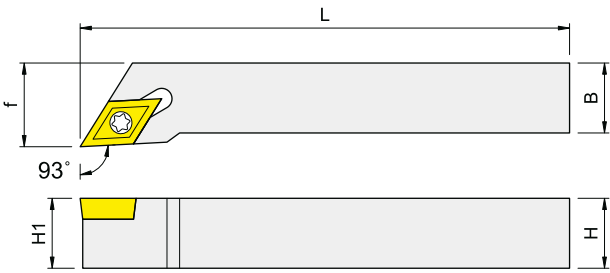
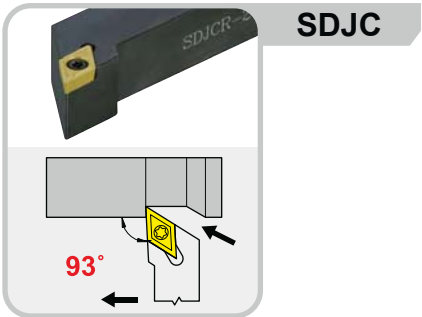
Turning Tools

External Turning Tools

外徑車刀桿

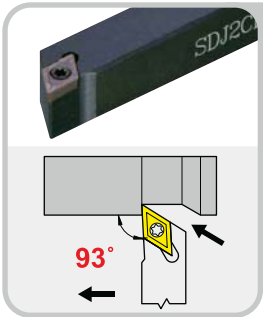


Order No. 訂購編碼	Dimensions, mm					Insert	Clamp	Wrench
	H	B	L	H1	f			
ISCNCN-1616K-06	16	16	125	16	8	CC..0602..	IMS2506A	ITK09
ISCNCN-1212K-09	12	12	125	12	6	CC..09T3..	IMS4011A	ITK15
ISCNCN-1616K-09	16	16	125	16	8			
ISCNCN-2020K-09	20	20	125	20	10			
ISCNCN-2525M-09	25	25	150	25	12.5			
ISCNCN-2020K-12	20	20	125	20	10	CC..1204..	IMS5011A	ITK20
ISCNCN-2525M-12	25	25	150	25	12.5			



Right-hand shown

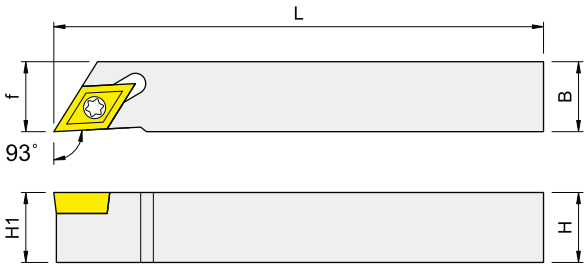
Order No. 訂購編碼	Dimensions, mm					Insert	Clamp	Wrench
	H	B	L	H1	f			
ISDJC ^R / _L -1010H-07	10	10	100	10	12	DC..0702..	IMS2506B	ITK09
ISDJC ^R / _L -1212H-07	12	12	100	12	16			
ISDJC ^R / _L -1212K-07	12	12	125	12	16			
ISDJC ^R / _L -1616K-07	16	16	125	16	20			
ISDJC ^R / _L -2020K-07	20	20	125	20	25			
ISDJC ^R / _L -1212H-11	12	12	100	12	16	DC..11T3..	IMS4009A	ITK15
ISDJC ^R / _L -1212K-11	12	12	125	12	16			
ISDJC ^R / _L -1616K-11	16	16	125	16	20			
ISDJC ^R / _L -2020K-11	20	20	125	20	25			
ISDJC ^R / _L -2525M-11	25	25	150	25	32			



SDJ2C

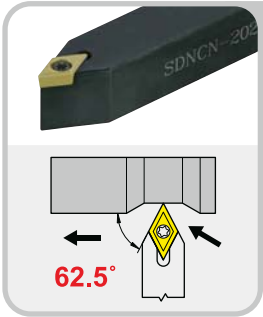


SDJ2CR-1010H/K-11

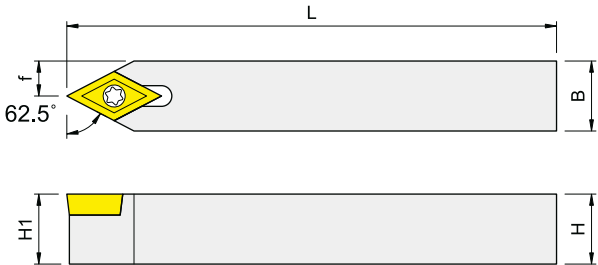


Right-hand shown

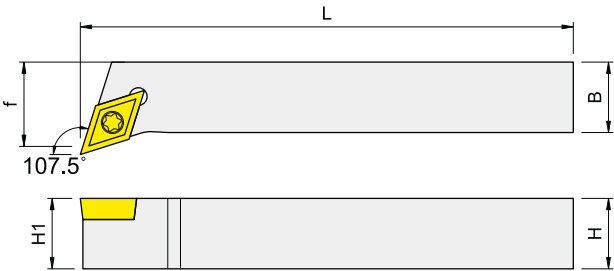
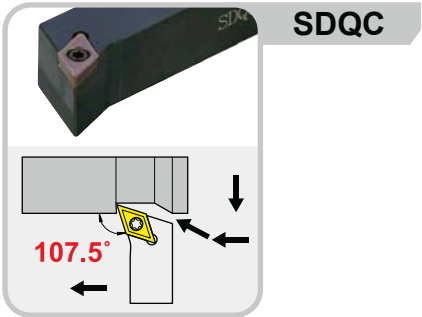
Order No. 訂購編碼	Dimensions, mm					Insert	Clamp 	Wrench 
	H	B	L	H1	f			
ISDJ2C ^R / _L -1010H-07	10	10	100	10	10	DC..0702..	IMS2506B	ITK09
ISDJ2C ^R / _L -1212H-07	12	12	100	12	12			
ISDJ2C ^R / _L -1212K-07	12	12	125	12	12			
ISDJ2C ^R / _L -1616K-07	16	16	125	16	16			
ISDJ2C ^R / _L -2020K-07	20	20	125	20	20			
ISDJ2C ^R / _L -2525M-07	25	25	150	25	25			
ISDJ2C ^R / _L -1010H-11	10	10	100	10	10	DC..11T3..	IMS4009A	ITK15
ISDJ2C ^R / _L -1010K-11	10	10	125	10	10		IMS4011A	
ISDJ2C ^R / _L -1212H-11	12	12	100	12	12			
ISDJ2C ^R / _L -1616K-11	16	16	125	16	16			
ISDJ2C ^R / _L -2020K-11	20	20	125	20	20			
ISDJ2C ^R / _L -2525M-11	25	25	150	25	25			
ISDJ2C ^R / _L -3232P-11	32	32	170	32	32			



SDNC

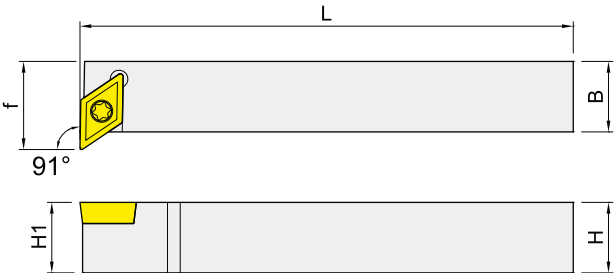
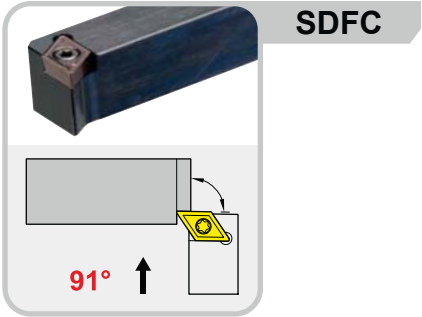


Order No. 訂購編碼	Dimensions, mm					Insert	Clamp	Wrench
	H	B	L	H1	f			
ISDNCN-1010H-07	10	10	100	10	5	DC..0702..	IMS2506B	ITK09
ISDNCN-1212H-07	12	12	100	12	6			
ISDNCN-1616K-07	16	16	125	16	8			
ISDNCN-1212H-11	12	12	100	12	6	DC..11T3..	IMS4011A	ITK15
ISDNCN-1212K-11	12	12	125	12	6			
ISDNCN-1616K-11	16	16	125	16	8			
ISDNCN-2020K-11	20	20	125	20	10			
ISDNCN-2525M-11	25	25	150	25	12.5			



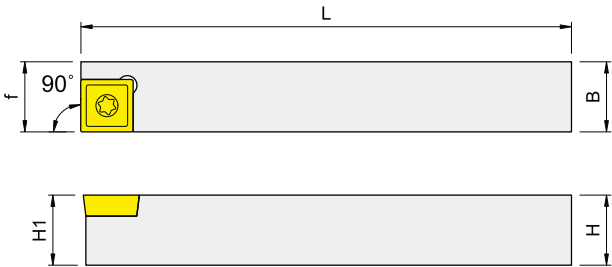
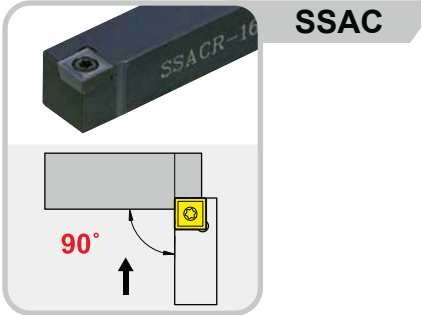
Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Clamp	Wrench
	H	B	L	H1	f			
ISDQC ^R / _L -1212H-11	12	12	100	12	16	DC..11T3..	IMS4011A	ITK15
ISDQC ^R / _L -1616K-11	16	16	125	16	20			
ISDQC ^R / _L -2020K-11	20	20	125	20	25			
ISDQC ^R / _L -2525M-11	25	25	150	25	32			



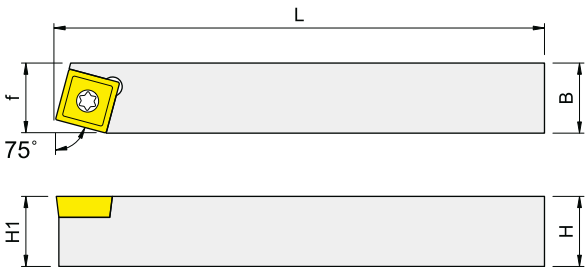
Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Clamp	Wrench
	H	B	L	H1	f			
ISDFC ^R / _L -1212K-07	12	12	125	12	16	DC..0702..	IMS2506B	ITK09
ISDFC ^R / _L -1212K-11	12	12	125	12	19	DC..11T3..	IMS4011A	ITK15
ISDFC ^R / _L -1616K-11	16	16	125	16	20			



Right-hand shown

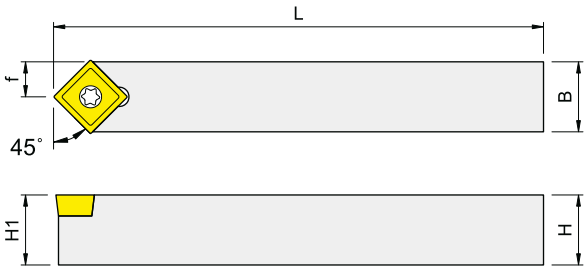
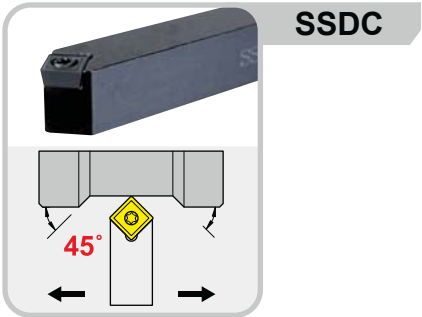
Order No. 訂購編碼	Dimensions, mm					Insert	Clamp 	Wrench 
	H	B	L	H1	f			
ISSAC ^R _L -3.4H-09	9.5	12.7	100	9.5	12.7	SC..09T3..	IMS4009A	ITK15
ISSAC ^R _L -4.4H-09	12.7	12.7	100	12.7	12.7		IMS4011A	ITK15
ISSACR-1212H-09	12	12	100	12	12			
ISSAC ^R _L -1616K-09	16	16	125	16	16			



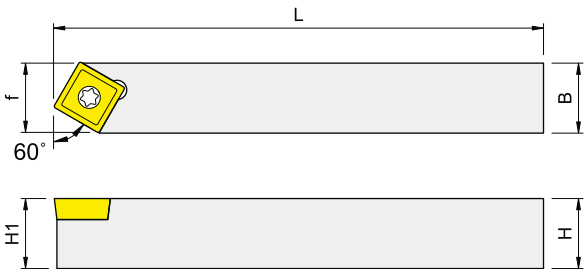
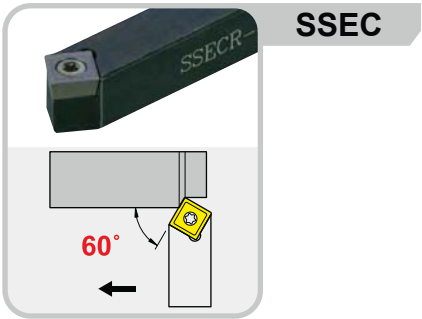
Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Clamp 	Wrench 
	H	B	L	H1	f			
ISSBC ^R _L -3.4H-09	9.5	12.7	100	9.5	12.7	SC..09T3..	IMS4009A	ITK15
ISSBC ^R _L -4.4H-09	12.7	12.7	100	12.7	12.7		IMS4011A	ITK15
ISSBC ^R _L -1212H-09	12	12	100	12	12			

Turning Tools

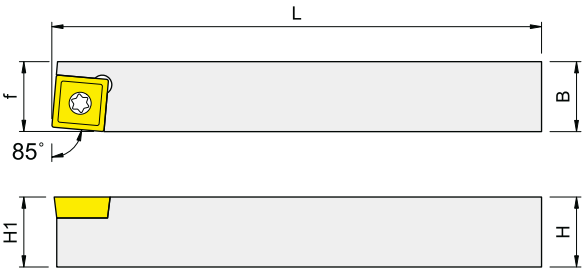
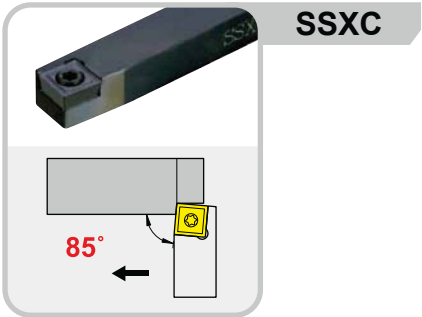


Order No. 訂購編碼	Dimensions, mm					Insert	Clamp	Wrench
	H	B	L	H1	f			
ISSDCN-3.4H-09	9.5	12.7	100	9.5	6.35	SC..09T3..	IMS4009A	ITK15
ISSDCN-4.4H-09	12.7	12.7	100	12.7	6.35	SC..09T3..	IMS4011A	ITK15
ISSDCN-1212H-09	12	12	100	12	6			
ISSDCN-1616K-09	16	16	125	16	8			
ISSDCN-2020K-09	20	20	125	20	10			
ISSDCN-2525M-09	25	25	150	25	12.5			



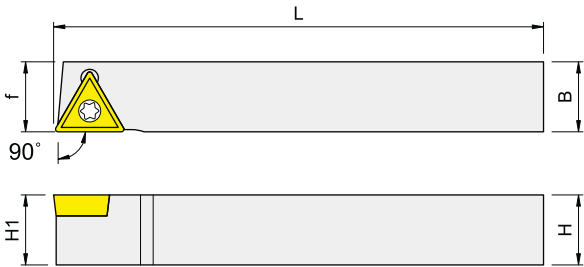
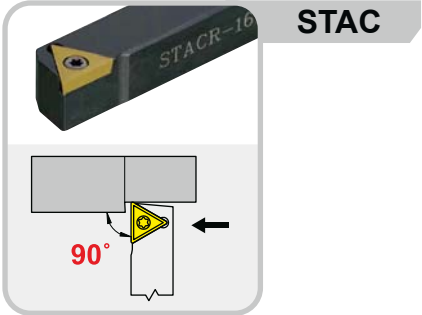
Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Clamp	Wrench
	H	B	L	H1	f			
ISSEC ^R / _L -3.4H-09	9.5	12.7	100	9.5	12.7	SC..09T3..	IMS4009A	ITK15
ISSEC ^R / _L -4.4H-09	12.7	12.7	100	12.7	12.7	SC..09T3..	IMS4011A	ITK15
ISSEC ^R / _L -1212H-09	12	12	100	12	12			



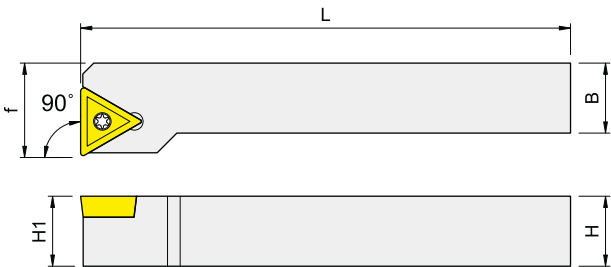
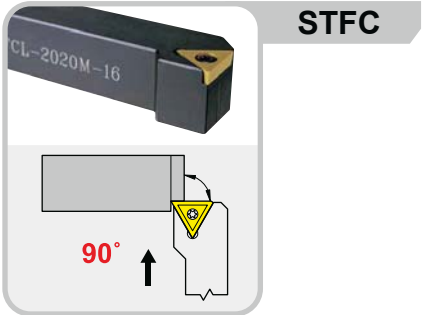
Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Clamp 	Wrench 
	H	B	L	H1	f			
ISSXCR-3.4H-09	9.5	12.7	100	9.5	12.7	SC..09T3..	IMS4009A	ITK15



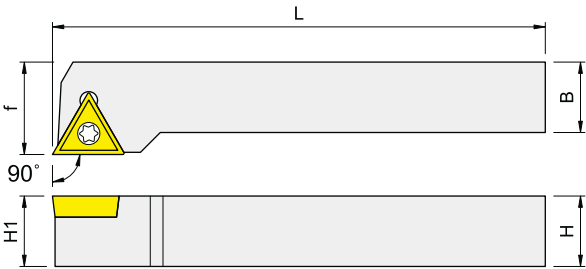
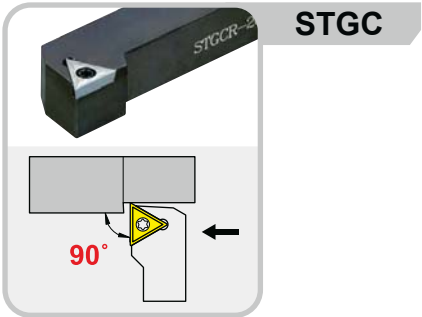
Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Clamp	Wrench
	H	B	L	H1	f			
ISTACR-1010H-11	10	10	100	10	10	TC..1102..	IMS2506A	ITK09
ISTACR-1212H-11	12	12	100	12	12			
ISTACR-1616K-11	16	16	125	16	16			
ISTACR-3.4H-11	9.5	12.7	100	9.5	12.7			
ISTACR-4.4H-11	12.7	12.7	100	12.7	12.7	TC..16T3..	IMS4011A	ITK15
ISTACR-1616K-16	16	16	125	16	16			



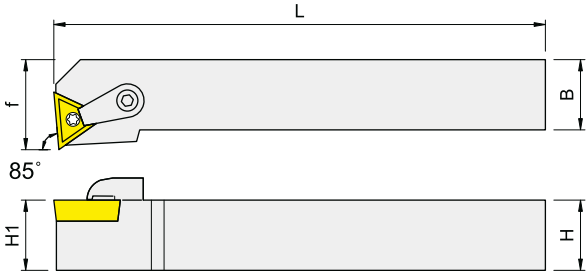
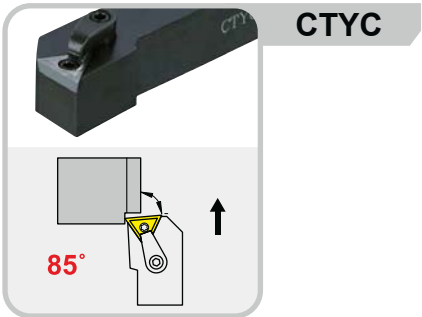
Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Clamp	Wrench
	H	B	L	H1	f			
ISTFC ^R / _L -2020K-16	20	20	125	20	25	TC..16T3..	IMS4011A	ITK15
ISTFC ^R / _L -2525M-16	25	25	150	25	32			



Right-hand shown

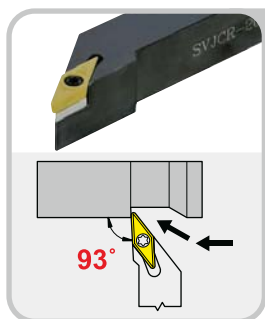
Order No. 訂購編碼	Dimensions, mm					Insert	Clamp 	Wrench 
	H	B	L	H1	f			
ISTGC ^R _L -1212K-16	12	12	100	12	16	TC..16T3..	IMS4011A	ITK15
ISTGC ^R _L -1616K-16	16	16	125	16	20			
ISTGC ^R _L -2020K-16	20	20	125	20	25			
ISTGC ^R _L -2525M-16	25	25	150	25	32			



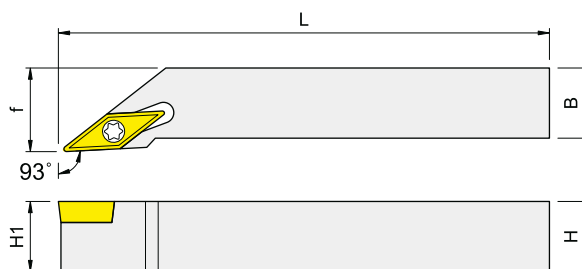
Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Screw 	Wrench 	Screw 	Clamp 	Wrench 
	H	B	L	H1	f						
ICTYC ^R _L -2020K-16	20	20	125	20	25	TC..16T3..	IMS4011A	ITK15	IMS625TX	IMC620	IETL15

Turning Tools

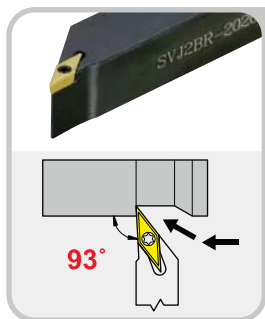


SVJB

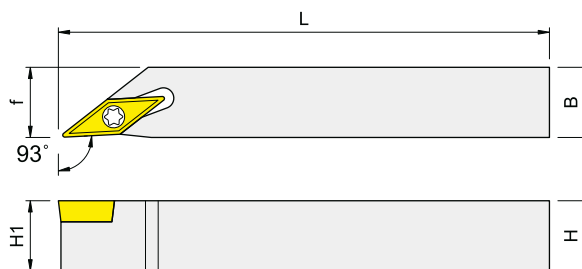


Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Shim	Screw	Wrench	Screw	Wrench
	H	B	L	H1	f						
ISVJB ^R / _L -1616K-16	16	16	125	16	20	VB..1604..	IVSS322	IMDS5035S	IPL35	IMS3512B	ITK15
ISVJB ^R / _L -2020K-16	20	20	125	20	25						
ISVJB ^R / _L -2525M-16	25	25	150	25	32						
ISVJC ^R / _L -1010H-11	10	10	100	10	12	VC..1103..	--	--	--	IMS2506A	ITK09
ISVJC ^R / _L -1212K-11	12	12	125	12	16						
ISVJC ^R / _L -1616K-11	16	16	125	16	20						
ISVJC ^R / _L -2020K-11	20	20	125	20	25						
ISVJC ^R / _L -2525M-11	25	25	150	25	32						

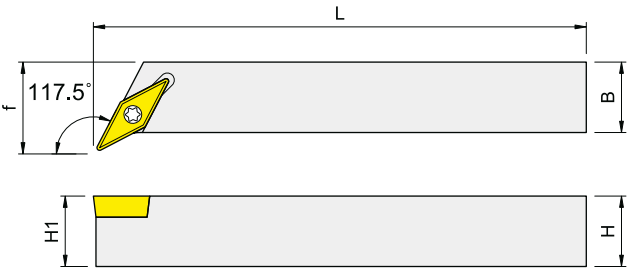
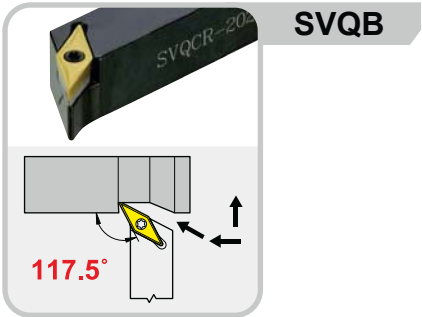


SVJ2B



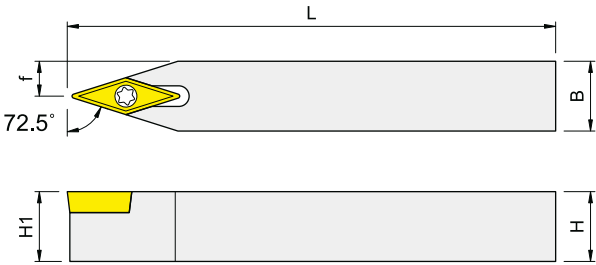
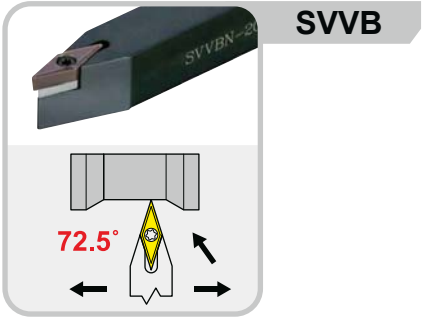
Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Screw	Wrench	Screw	Clamp	Wrench
	H	B	L	H1	f						
ISVJ2C ^R / _L -1010H-11	10	10	100	10	10	VC..1103..	--	--	--	IMS2506A	ITK09
ISVJ2C ^R / _L -1212H-11	12	12	100	12	12						
ISVJ2C ^R / _L -1616K-11	16	16	125	16	16						
ISVJ2C ^R / _L -2020K-11	20	20	125	20	20						



Right-hand shown

Order No. 訂購編碼	Dimensions, mm					Insert	Shim	Screw	Wrench	Screw	Wrench
	H	B	L	H1	f						
ISVQB ^R /L-2020K-16	20	20	125	20	25	VB..1604..	IVSS322	IMDS5035S	IPL35	IMS3512B	ITK15
ISVQB ^R /L-2525M-16	25	25	150	25	32						
ISVQC ^R /L-1212H-11	12	12	100	12	16	VC..1103..	--	--	--	IMS2506A	ITK09
ISVQC ^R /L-1616K-11	16	16	125	16	20						
ISVQC ^R /L-2020K-11	20	20	125	20	25						

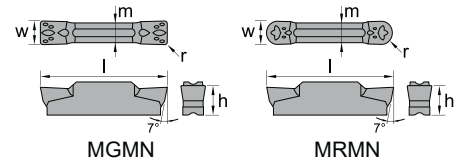


Order No. 訂購編碼	Dimensions, mm					Insert	Screw	Wrench	Screw	Clamp	Wrench
	H	B	L	H1	f						
ISVVBN-1616K-16	16	16	125	16	8	VB..1604..	IVSS322	IMDS5035S	IPL35	IMS3512B	ITK15
ISVVBN-2020K-16	20	20	125	20	10						
ISVVBN-2525M-16	25	25	150	25	12.5						
ISVVCN-1010H-11	10	10	100	10	5	VC..1103..	--	--	--	IMS2506A	ITK09
ISVVCN-1212K-11	12	12	125	12	6						
ISVVCN-1616K-11	16	16	125	16	8						
ISVVCN-2020K-11	20	20	125	20	10						
ISVVCN-2525M-11	25	25	150	25	12.5						

Insert Specifications

Insert	Dimensions (mm)				
	w	r	l	h	m
MGMN200	2.0	0.2	16	3.5	1.60
MGMN300	3.0	0.4	21	4.8	2.35
MGMN400	4.0	0.4	21	4.8	3.30
MRMN200	2.0	1.0	16	3.5	1.60
MRMN300	3.0	1.5	21	4.8	2.35
MRMN400	4.0	2.0	21	4.8	3.30

Chipbreaker	
MG	For general cutting 適合一般泛用加工



Insert Order Code

Inserts	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IMGMN200MG32HS	MGMN200-MG-CX32HS	●	●	●		○	○
	IMGMN200MG42HS	MGMN200-MG-CX42HS	●	●	●		○	
	IMGMN200MG33PS	MGMN200-MG-CX33PS	●	●	●		○	●
	IMGMN200MG43PS	MGMN200-MG-CX43PS	●	●	●		○	
	IMGMN300MG32HS	MGMN300-MG-CX32HS	●	●	●		○	○
	IMGMN300MG42HS	MGMN300-MG-CX42HS	●	●	●		○	
	IMGMN300MG33PS	MGMN300-MG-CX33PS	●	●	●		○	●
	IMGMN300MG43PS	MGMN300-MG-CX43PS	●	●	●		○	
	IMGMN400MG32HS	MGMN400-MG-CX32HS	●	●	●		○	○
	IMGMN400MG42HS	MGMN400-MG-CX42HS	●	●	●		○	
	IMGMN400MG33PS	MGMN400-MG-CX33PS	●	●	●		○	●
	IMGMN400MG43PS	MGMN400-MG-CX43PS	●	●	●		○	
	IMRMN200MG33PS	MRMN200-MG-CX33PS	●	●	●		○	●
	IMRMN200MG43PS	MRMN200-MG-CX43PS	●	●	●		○	
	IMRMN300MG33PS	MRMN300-MG-CX33PS	●	●	●		○	●
	IMRMN300MG43PS	MRMN300-MG-CX43PS	●	●	●		○	
	IMRMN400MG33PS	MRMN400-MG-CX33PS	●	●	●		○	●
	IMRMN400MG43PS	MRMN400-MG-CX43PS	●	●	●		○	

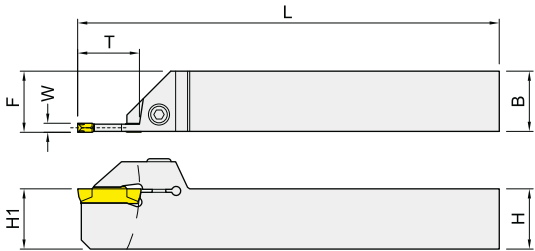
* CX32HS grade for General cutting. 適合一般泛用加工

CX42HS grade for Interrupted cutting. 適合斷續加工

CX33PS grade for General cutting with anti-stick properties. 為抗沾黏特性材質，適合一般泛用加工

CX43PS grade for Interrupted cutting with anti-stick properties. 為抗沾黏特性材質，適合斷續加工

Tool Holder Specifications



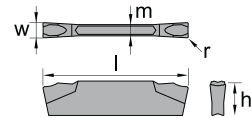
Right-hand shown

Order No. 訂購編碼	Dimensions (mm)						Inserts	 Screw	 Wrench
	H (H1)	B	L	F	T	W			
IMGEH ^R / _L 1616K2T16T	16	16	125	16.25	16	2.0	MGMN200.. MRMN200..	IHTMT520	IETL25
IMGEH ^R / _L 2020K2T20T	20	20	125	20.25	20	2.0		IHTMT525	IETL25
IMGEH ^R / _L 2525M2T20T	25	25	150	25.25	20	2.0		IHTMT525	IETL25
IMGEH ^R / _L 1616K3T20T	16	16	125	16.30	20	3.0	MGMN300.. MRMG300..	IHTMT520	IETL25
IMGEH ^R / _L 2020K3T20T	20	20	125	20.30	20	3.0		IHTMT525	IETL25
IMGEHR2525M3T20T	25	25	150	25.30	20	3.0		IHTMT525	IETL25
IMGEHR2525M4T20T	25	25	150	25.35	20	4.0	MGMN400.. MRMN400..	IHTMT525	IETL25

Insert Specifications

Insert	Dimensions (mm)				
	w	r	l	h	m
GMM2020	2.0	0.20	20	4.3	1.5
GMM2520	2.5	0.20	20	4.3	1.9
GMM3020	3.0	0.25	20	4.3	2.3

Chipbreaker	
MR	For high feed cutting 適合高進給加工

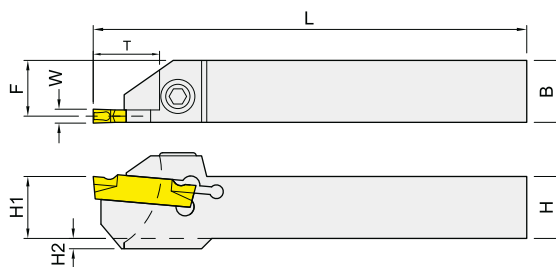


Insert Order Code

Inserts	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	IGMM2020MR32HS	GMM2020-MR-CX32HS	●	●	●		○	○
	IGMM2020MR42HS	GMM2020-MR-CX42HS	●	●	●		○	
	IGMM2520MR32HS	GMM2520-MR-CX32HS	●	●	●		○	○
	IGMM2520MR42HS	GMM2520-MR-CX42HS	●	●	●		○	
	IGMM3020MR32HS	GMM3020-MR-CX32HS	●	●	●		○	○
	IGMM3020MR42HS	GMM3020-MR-CX42HS	●	●	●		○	

* CX32HS grade for General cutting. 適合一般泛用加工
CX42HS grade for Interrupted cutting. 適合斷續加工

Tool Holder Specifications

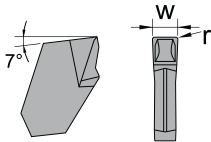


Right-hand shown

Order No. 訂購編碼	Dimensions (mm)						W (mm)		Inserts	Screw	Wrench
	H (H1)	B	L	F	T	H2	min	max			
IKGM ^R / _L 1212K1.5L10	12	12	125	11.4	10	2	1.5	2.0	GMM2020..	IHTM416	IPL30
IKGM ^R / _L 1616K1.5L10	16	16	125	15.4	10	-	1.5	2.0		IHTMT520	IETL25
IKGM ^R / _L 2020K1.5L10	20	20	125	19.4	10	-	1.5	2.0		IHTMT525	IETL25
IKGM ^R / _L 2525M1.5L10	25	25	150	24.4	10	-	1.5	2.0		IHTMT525	IETL25
IKGM ^R / _L 1212K2TL10	12	12	125	11.1	10	2	2.0	3.0	GMM2020.. GMM2520.. GMM3020..	IHTM416	IPL30
IKGM ^R / _L 1616K2TL10	16	16	125	15.1	10	-	2.0	3.0		IHTMT520	IETL25
IKGM ^R / _L 2020K2TL10	20	20	125	19.1	10	-	2.0	3.0		IHTMT525	IETL25
IKGM ^R / _L 2525M2TL10	25	25	150	24.1	10	-	2.0	3.0		IHTMT525	IETL25
IKGM ^R / _L 1212K2TL13	12	12	125	11.1	13	3	2.0	3.0		IHTM420	IPL30
IKGM ^R / _L 1616K2TL13	16	16	125	15.1	13	-	2.0	3.0		IHTMT520	IETL25
IKGM ^R / _L 2020K2TL13	20	20	125	19.1	13	-	2.0	3.0		IHTMT525	IETL25
IKGM ^R / _L 2525M2TL13	25	25	150	24.1	13	-	2.0	3.0		IHTMT525	IETL25
IKGM ^R / _L 1212K2TL17	12	12	125	11.1	17	4	2.0	3.0		IHTM420	IPL30
IKGM ^R / _L 1616K2TL17	16	16	125	15.1	17	-	2.0	3.0		IHTMT520	IETL25
IKGM ^R / _L 2020K2TL17	20	20	125	19.1	17	-	2.0	3.0		IHTMT525	IETL25
IKGM ^R / _L 2525M2TL17	25	25	150	24.1	17	-	2.0	3.0		IHTMT525	IETL25
IKGM ^R / _L 1616K3TL16	16	16	125	14.8	16	-	3.0	4.0		IHTMT520	IETL25
IKGM ^R / _L 2020K3TL16	20	20	125	18.8	16	-	3.0	4.0		IHTMT525	IETL25
IKGM ^R / _L 2525M3TL16	25	25	150	23.8	16	-	3.0	4.0		IHTMT525	IETL25
IKGM ^R / _L 1616K3TL20	16	16	125	14.8	20	4	3.0	4.0	GMM3020..	IHTMT525	IETL25
IKGM ^R / _L 2020K3TL20	20	20	125	18.8	20	-	3.0	4.0		IHTMT525	IETL25
IKGM ^R / _L 2525M3TL20	25	25	150	23.8	20	-	3.0	4.0		IHTMT525	IETL25
IKGMR3232P3TL20	32	32	170	30.8	20	-	3.0	4.0		IHTMT525	IETL25

Insert Specifications

Insert	Dimensions (mm)	
	w	r
TGTN0220	2.2	0.2
TGTN0310	3.1	0.2
TGTN0410	4.1	0.25



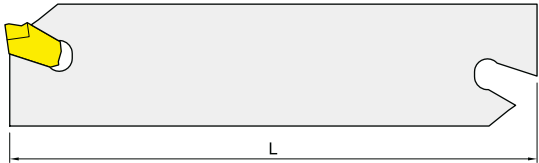
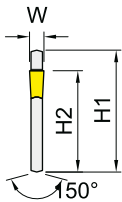
Insert Order Code

Inserts	Order No. 訂購編碼	Designation	Working Material					
			P	M	K	N	S	H
	ITGTN022032HS	TGTN0220-CX32HS	●	●	●		○	○
	ITGTN022042HS	TGTN0220-CX42HS	●	●	●		○	
	ITGTN031032HS	TGTN0310-CX32HS	●	●	●		○	○
	ITGTN031042HS	TGTN0310-CX42HS	●	●	●		○	
	ITGTN041032HS	TGTN0410-CX32HS	●	●	●		○	○
	ITGTN041042HS	TGTN0410-CX42HS	●	●	●		○	

* CX32HS grade for General cutting. 適合一般泛用加工
CX42HS grade for Interrupted cutting. 適合斷續加工

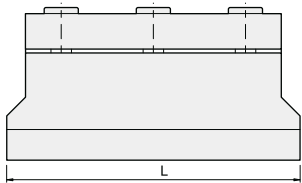
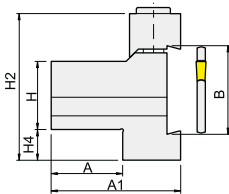
Tool Holder Specifications

SGIH



Order No. 訂購編碼	Dimensions (mm)				Insert	Tool Block	Wrench
	H1	H2	L	W			
ISGIH26-2	26	21.4	110	2.2	TGTN0220	ISGTBU..-26	IESG-1
ISGIH26-3	26	21.4	110	3.1	TGTN0310		
ISGIH26-4	26	21.4	110	4.1	TGTN0410		
ISGIH32-2	32	25	150	2.2	TGTN0220	ISGTBU..-32	
ISGIH32-3	32	25	150	3.1	TGTN0310		
ISGIH32-4	32	25	150	4.1	TGTN0410		

SGTBU

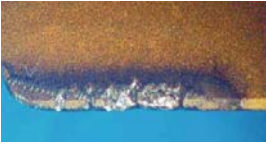
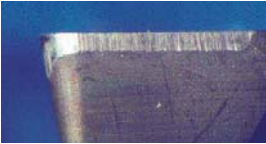
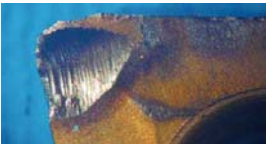


Order No. 訂購編碼	Dimensions (mm)							Screw	Wrench	BLADE
	H	B	A	A1	L	H2	H4			
ISGTBU20-26	20	26	21	38	86	43	9	IHTM630	IPL50	ISGIH26-3
ISGTBU25-26	25	26	23	40	86	43	4			
ISGTBU20-32	20	32	21	40	110	50	13			ISGIH32-3
ISGTBU25-32	25	32	23	42	110	50	8			

DIN Material Chart

DIN 材料表

Material Group 材料組	Description 描述	Content 含量	Tensile Strength 抗拉強度 RM (MPa)*	Hardness 硬度 (HB)	Hardness 硬度 (HRC)	DIN Standards DIN 材料編號
P1	Low-Carbon Steels 低碳鋼	C < 0.25%	< 530	< 125	-	C15, Ck22, ST37-2, S235JR, 9SMnPb28, GS38
P2	Medium-Carbon Steels, High-Carbon Steels 中碳鋼, 高碳鋼	C > 0.25%	> 530	< 220	< 25	ST52, S355JR, C35, GS60, Cf53
P3	Alloy Steels, Tool Steels 合金鋼, 工具鋼	C > 0.25%	600 ~ 850	< 330	< 35	16MnCr5, Ck45, 21CrMoV5-7, 38SMn28
P4	Alloy Steels, Tool Steels 合金鋼, 工具鋼	C > 0.25%	800 ~ 1000	350 ~ 450	35 ~ 48	100Cr6, 105MnCr4, 51CrMnV4, 105WCr6, 100Cr2
P5	Ferritic, Martensitic, PH Stainless Steels 鐵素體鋼, 馬氏體鋼, PH 不鏽鋼	C = 0~0.4%	600 ~ 850	< 330	< 35	X6Cr13, X10Cr13, X20Cr13, X12CrMoS17, X20CrMo13
P6	High-Strength Ferritic, Martensitic, PH Stainless Steels 高強度鐵素體鋼, 馬氏體鋼, PH 不鏽鋼	C = 0.1~0.6%	900 ~ 1350	350 ~ 450	35 ~ 48	X40CrMoV51, H1, X155CrVMo121, S6-5-2-5, X45Cr13, X120Mn12
M1	Austenitic Stainless Steel 奧氏體不鏽鋼	C = 0.05~0.15%	< 650	130 ~ 200	-	X5CrNi1810, GX6CrNiMo1810, X6CrNiMoTi17122, X8CrNiMoAl1572
M2	High-Strength Austenitic Stainless and Cast Stainless Steels 高強度奧氏體不鏽鋼, 鑄造不鏽鋼	C = 0.05~0.15%	500 ~ 700	150 ~ 230	< 25	X2CrNiMo134, X10CrNi189, X5CrNiCuNb1744
M3	Duplex Stainless Steel 雙相不鏽鋼	C = 0.05~0.2%	< 900	135 ~ 275	< 30	X2CrNiMoN2315, X20CrNiSi254, GX40CrNiSi274, X2CrNiMoN2253
K1	Grey Cast Iron 灰鑄鐵	-	150 ~ 400	120 ~ 290	< 32	GG10, GG15, GG20, GG25, GG40
K2	Low- and Medium-Strength Ductile Irons and Compacted Graphite Irons (CGI) 中低強度的球墨鑄鐵和 CGI 鑄鐵	-	400 ~ 600	130 ~ 260	< 28	GGG35.3, GGG40.3, GGG70
K3	High-Strength Ductile Irons and Austempered Ductile Iron (ADI) 高強度的球墨鑄鐵和奧貝球墨鑄鐵	-	600 ~ 900	180 ~ 350	< 43	GTW-35-04, GTW-65, GTS-35-10, GTS-45-06
N1	Wrought Aluminium 鍛造鋁合金	-	< 520	60 ~ 90	-	AlMg1, Al99.5, AlCuMg1, AlCuBiPb, AlMgSi1, ALMgSiPb
N2	Low-Silicon Aluminium Alloys 低硅鋁合金	Si < 12.2%	< 350	70 ~ 120	-	GAlSiCu4, GDAISi10Mg
N3	High-Silicon Aluminium Alloys 高硅鋁合金	Si > 12.2%	200 ~ 320	60 ~ 120	-	G-ALSi12, G-AlSi17Cu4, G-AlSi21CuNiMg
N4	Copper and Copper Alloys 銅, 銅合金	-	200 ~ 650	60 ~ 200	-	CuZn40, Ms60, G-CuSn5ZnPb, CuZn37, CuSi3Mn
N5	Nylon, Plastics 尼龍, 塑料	-	-	-	-	Lexan, Hostalen, Polystyrol, Makrolon
N6	Carbon, Graphite Composites, CFRP 碳、石墨複合材料、CFRP 材料	-	600 ~ 1500	-	-	CFRP, CFK, GFK
S1	Iron-Based, Heat-Resistant Alloys 鐵基耐熱合金	-	500 ~ 1200	160 ~ 260	25 ~ 48	X1NiCrMoCu32287, X12NiCrSi3616, X5NiCrAlTi3120, X40CoCrNi20 20
S2	Cobalt-Based, Heat-Resistant Alloys 鈷基耐熱合金	-	1000 ~ 1450	250 ~ 450	25 ~ 48	Haynes 188, Stellite 6, 21, 31
S3	Nickel-Based, Heat-Resistant Alloys 鎳基耐熱合金	-	600 ~ 1700	160 ~ 450	33 ~ 48	NiCr29Fe, NiCr22Mo9Nb, NiCr20Mo, NiCr19FeNbMo, NiCr16Fe7TiAl
S4	Titanium and Titanium Alloys 鈦, 鈦合金	-	900 ~ 1600	300 ~ 400	33 ~ 48	Ti1, TiAl5Sn2, TiAl6V4, TiAl4Mo4Sn2
H1	Hardened Materials 淬硬鋼, 鐵	-	-	< 460	< 48	GX260NiCr42, GX330NiCr42, GX300CrNiSi952, GX300CrMo153
H2	Hardened Materials 淬硬鋼, 鐵	-	-	460 ~ 560	48 ~ 55	-
H3	Hardened Materials 淬硬鋼, 鐵	-	-	560 ~ 650	56 ~ 60	-
H4	Hardened Materials 淬硬鋼, 鐵	-	-	> 650	> 60	-

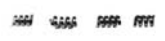
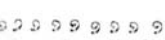
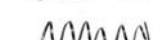
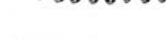
Trouble / 情況	Occurrences / 原因	Countermeasures / 對策
 Thermal Crackin 熱裂	Intermittent heating of the cutting edge. High speed, high volume metal removal. 切削角間歇性高熱，高切削線速度和較大的金屬移除量，造成的熱裂	1. Use heat resistant grades 使用具有耐熱阻抗的刀片材質 2. Use positive or large rake tools 使用正角或較銳利的刀片 3. Increase nose radius 使用較大半徑刀口的刀片 4. Reduce speed, feed or depth of cut 降低切削線速度、進給或切深
 Chipping 脆裂	Cutting tool excessively brittle. 刀片材質太硬脆	1. Use tougher grades 使用韌性較高的刀片材質 2. Use negative or smaller rake tools 使用負角或較鈍的刀片 3. Increase nose radius 使用較大半徑刀口的刀片 4. Use increased edge land 使用較大刀口平台的刀片 5. Increase cutting speed 增加切削線速度
 Excessive Flank Wear 過度磨耗	Cutting tool too soft. 刀片材質太軟 Surface speed too fast. 切削線速度太快	1. Use harder and more wear resistant grade 使用較硬或較耐磨的刀片材質 2. Reduce cutting speed 降低切削線速度 3. Increase feed 增加進給 4. Use coolant 使用冷卻液
 Notching 凹陷	Cutting material working harden cause serious wear of insert. 被加工材料產生硬化而造成刀片嚴重磨損	1. Increase approach angle 增加進刀時切削邊緣角 2. Reduce cutting speed and feed 降低切削線速度及進給量 3. Use high lubricity coolant 使用潤滑性較高的冷卻液
 Built-Up-Edge 積屑	Cutting speed too slow for material being machined. 就被加工材料而言，切削線速度太低	1. Increase cutting speed 提高切削線速度 2. Use friction reducing grade 使用摩擦力較低的刀片材質 3. Use high lubricity coolant 使用潤滑性較高的冷卻液
 Deformation 變形	Heavy feeds or higher cutting speed. 切削線速度太快或是進給量太大	1. Reduce cutting speed or feed 降低切削線速度或進給量 2. Use polished tools to reducing friction 使用拋光刀片降低磨擦阻力 3. Use more heat resistant grade 使用更高耐熱阻抗的刀片材質
 Crater Wear 熱裂	Excessive heat and pressure welding of chip to rake. 切削產生的高溫和高壓，造成鐵屑焊黏在刀口上	1. Use a harder grade 使用較硬的刀片材質 2. Reduce cutting speed and feed 降低切削線速度及進給量 3. Use high lubricity coolant 使用潤滑性較高的冷卻液

Cutting Tools Evaluation Report

刀具切削報告

Company 公司名			Department 部門		Name of Contact 聯絡人	
Address 地址			TEL 電話		Date 測試日期	
Material 工件	Material Name 材質名稱		Remark: 備註			
	Hardness 硬度					
	Quantity 加工數量					
Machine 機械	Machine No. 機台型號					
	Power 主軸輸出					
Tools 工具	Brand Name 品牌					
	Part Number 型號					
	Tool Diameter 刀具刃徑					
	Tool tooth 刀具齒數					
	External / Internal Coolant 外冷 / 內冷					
Cutting Conditions 切削條件	Vc (m/min) 切削速度					
	fz (mm/tooth) for Milling 每刃進給量 (銑削)					
	fz (mm/rev) for Turning or Drilling 每轉進給量 (車削或鑽削)					
	ap (mm) 切深					
	ae (mm) 切寬					
	Cutting time or pcs 加工時間或件數					
	Wet / Dry 濕式 / 乾式					
Results 結果	Tool Life Criterion 壽命判定標準					
	Chips Types 切屑類型					
Appraise 綜合評價	Overall Rating 性能、成本等總體評價					
	Accept 接受	☐ Yes 是	☐ No 否	☐ Yes 是	☐ No 否	☐ Yes 是

Tool Life Criterion 壽命判斷標準	① Change constant 加工數量
	② Surface roughness 表面粗糙度
	③ Dimensional change 加工精度
	④ Happen burr 產生毛邊
	⑤ Spindle load 主軸負載
	⑥ Situation of tip control 尖點損耗
	⑦ Tool wear 刀具磨損
	⑧ Chipping, breaks 刀具崩刃、碎裂

Chips Types 切屑類型	① 	⑥ 
	② 	⑦ 
	③ 	⑧ 
	④ 	⑨ 
	⑤ 	



Indexable Tools

- Milling***
- Drilling***
- Turning***

Solid Carbide Tools

- Endmills***
- Drills***
- Boring Bars***

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