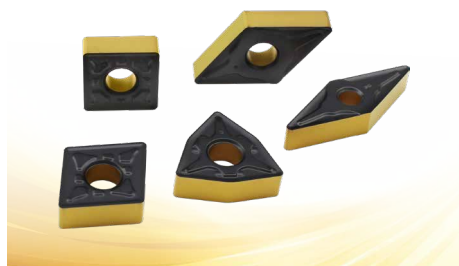


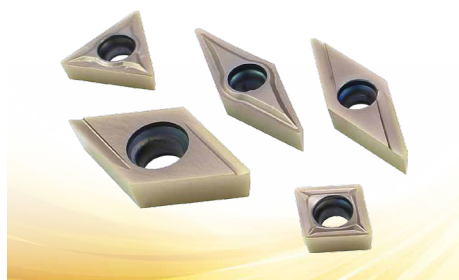
Negative Turning Inserts 負角車刀片



- 50+ types to choose from.
- Thick coating layer structure for various applications.
- Usable range cover from finishing to roughing.
- 超過 50 種刀片種類可供選擇
- 針對多樣化加工提供厚塗層對應
- 加工範圍包含蓋精加工至粗加工

→ Page C006

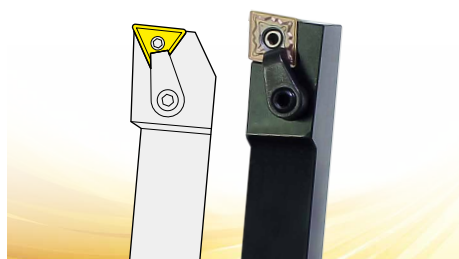
Positive Turning Inserts 正角車刀片



- 25+ types to choose from.
- E, G or M tolerance inserts available.
- Usable range cover from finishing to medium.
- 超過 25 種刀片種類可供選擇
- 可提供 E 級、G 級或 M 級公差車刀片
- 加工範圍包含精加工至中加工

→ Page C012

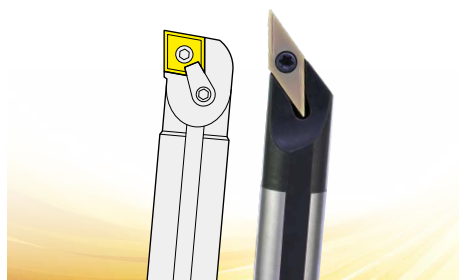
External Turning Holders 外徑車刀桿



- Wide range of ISO external turning holders available.
- 9.5~32mm shank height.
- 提供各種 ISO 外徑車刀桿
- 9.5~32mm 刀桿高度

→ Page C034

Internal Turning Holders 內徑車刀桿



- Wide range of ISO internal turning holders available.
- 8~60mm shank diameter.
- 提供各種 ISO 內徑車刀桿
- 8~60mm 刀桿外徑

→ Page C054

C

①

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M

③

G

④

12

⑤

04

⑥

08

⑦

(L)

⑧

MG

⑨

① Insert Shape

A

B

C

D

E

H

K

L

M

O

R

S

T

V

W

② Relief Angle

A

B

C

D

E

F

G

N

P

③ Tolerance Class		A	F	C	H	E	G	J	K	L	M	N	U
	Tolerance												
	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							I.C.
C	D	S	T	R	V	W	
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

⑨ Chip Breaker Geometry

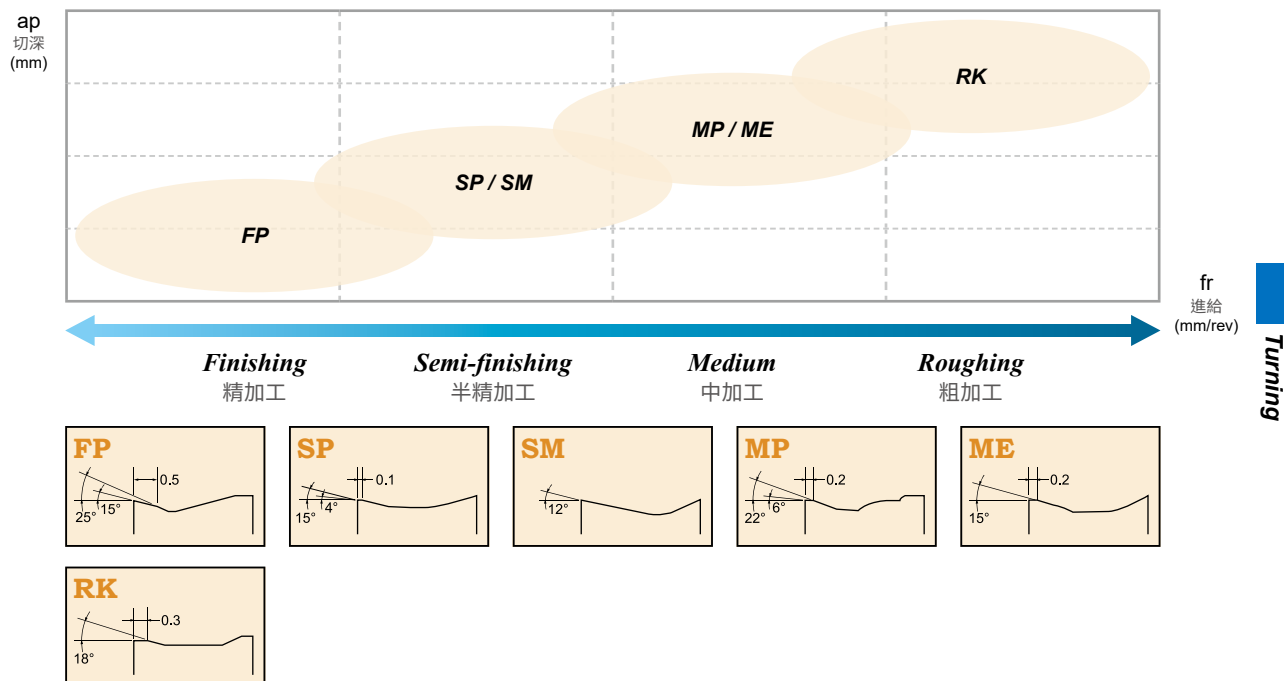
Positive Type	Negative Type
AG, XF, YF, FG, MG, MP	FG, FP, SM, SP, MP, ME, RK, RG, RP, HG

Turning Insert Grades 車刀片材質介紹

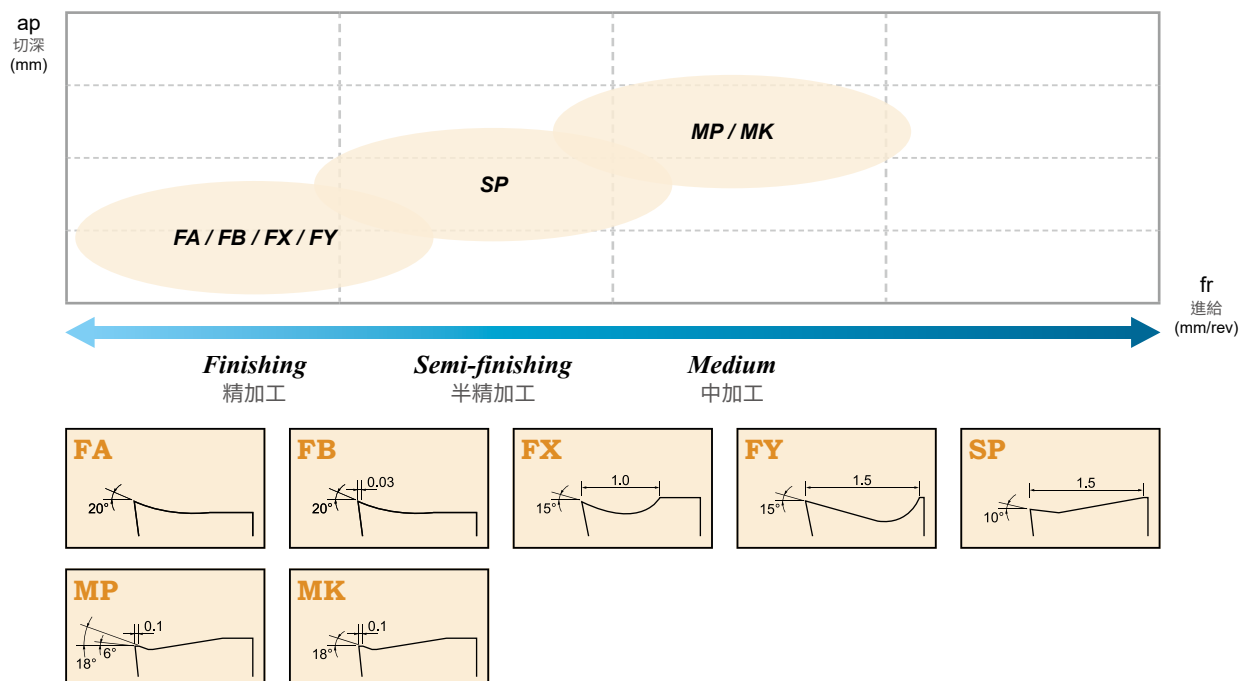
Grade Type 刀片材質	Coating Substrate 塗層基材	Application 加工特性	Working Material 加工材質						Industry Area 產業應用範圍	Previous Grade 以前的材質
			P	M	K	N	S	H		
CC7015	CVD TiCN-Al ₂ O ₃ -TiN	- Finishing and semi-finishing - Continuous cutting - Wear resistance grade for cast iron is 1st recommended - 適用於精加工和半精加工 - 適用連續加工 - 適合鑄鐵的第一推薦耐磨材質	○	○	●			○	- Auto parts - Machinery parts - 汽車零件 - 機械零件	CX2575
CC7025	CVD TiCN-Al ₂ O ₃ -TiN	- Semi-finishing and medium - Light interrupted cutting - General purpose grade for alloy steel is 1st recommended - 適用於半精加工和中加工 - 適用輕斷續加工 - 適合合金鋼的第一推薦泛用材質	●	●	●				- Auto parts - Machinery parts - 汽車零件 - 機械零件	CX3575
CC7035	CVD TiCN-Al ₂ O ₃ -TiN	- Medium and roughing - Interrupted cutting - Tough grade for stainless steel is 1st recommended - 適用於中加工和粗加工 - 適用斷續加工 - 適合不鏽鋼的第一推薦韌性材質	●	●	○				- Energy - Oil & Gas - Medical - 能源產業 - 石化產業 - 醫療產業	—
CP6015	PVD AlTiSiN	- Finishing cutting - Continuous cutting - Wear resistance grade for metal working - 適用於精加工 - 適用連續加工 - 適合大部份金屬加工的耐磨材質	●	○	●		●		- Auto small parts - Machinery parts - Aircraft parts - Auto lathe - 汽車小零件 - 機械零件 - 航太零件 - 自動車床	CX1060
CP6025	PVD AlTiSiN	- Semi-finishing and medium - Light interrupted cutting - General purpose grade for carbon steel and alloy steel - 適用於半精加工和中加工 - 適用輕斷續加工 - 適合碳鋼及合金鋼的泛用材質	●	●	●		●		- Auto small parts - Machinery parts - Aircraft parts - Auto lathe - 汽車小零件 - 機械零件 - 航太零件 - 自動車床	CX2561
CU1000	Uncoated	- Finishing and medium cutting - Continuous cutting - For aluminum alloy - 適用於精加工和中加工 - 適用連續加工 - 適合鋁合金					●		- Bike & auto small parts - Electronic parts - Auto lathe - 自行車與汽車小零件 - 電子零件 - 自動車床	CX10

Turning Insert Chip Breakers 車刀片斷屑槽介紹

Negative 負角

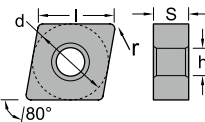


Positive 正角



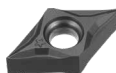
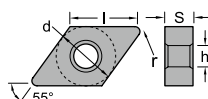
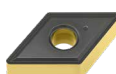
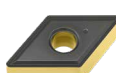
CN□□ - Negative Turning Inserts

負角車刀片

Inserts		Designation	Grade No.						Dimensions (mm)					Drawing
			CVD		PVD		CU1000	d	l	S	r	h		
			CC7015	CC7025	CC7035	CP6015							CP6025	
Finishing 精		CNMG 120404-FP	✓	✓		✓			12.7	12.9	4.76	0.4	5.16	
		120408-FP	✓	✓		✓			12.7	12.9	4.76	0.8	5.16	
Semi-finishing 半精		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	
Medium 中		CNMA 120404	✓						12.7	12.9	4.76	0.4	5.16	
		120408	✓						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	
Roughing 粗		CNMG 120408-RK		✓	✓				12.7	12.9	4.76	0.8	5.16	
		120412-RK		✓	✓				12.7	12.9	4.76	1.2	5.16	

DN□□ - Negative Turning Inserts

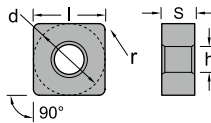
負角車刀片

Inserts		Designation	Grade No.						Dimensions (mm)					Drawing
			CVD			PVD								
			CC7015	CC7025	CC7035	CP6015	CP6025						CU1000	
									d	l	S	r	h	
Finishing 精		DNGX 110401-FP				✓			9.525	11.6	4.76	0.1	4.5	
		110402-FP				✓			9.525	11.6	4.76	0.2	4.5	
		DNMG 110404-FP	✓	✓		✓			9.525	11.6	4.76	0.4	3.81	
		110408-FP	✓	✓		✓			9.525	11.6	4.76	0.8	3.81	
		DNMG 150404-FP	✓	✓		✓			12.7	15.5	4.76	0.4	5.16	
		150408-FP	✓	✓		✓			12.7	15.5	4.76	0.8	5.16	
150608-FP		✓	✓		✓			12.7	15.5	6.35	0.8	5.16		
Semi-finishing 半精		DNMG 150404-SP	✓	✓		✓			12.7	15.5	4.76	0.4	5.16	
		150408-SP	✓	✓		✓			12.7	15.5	4.76	0.8	5.16	
Medium 中		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	
		150608-MP	✓	✓					12.7	15.5	6.35	0.8	5.16	

Turning

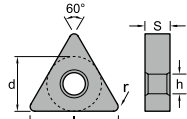
SN□□ - Negative Turning Inserts

負角車刀片

Inserts		Designation	Grade No.						Dimensions (mm)					Drawing
			CVD			PVD		CU1000	d	l	S	r	h	
			CG7015	CG7025	CG7035	CP6015	CP6025							
Medium 中		SNMG 120408-MP	✓	✓	✓				12.7	12.7	4.76	0.8	5.16	
		120412-MP	✓	✓	✓				12.7	12.7	4.76	1.2	5.16	
Roughing 粗		SNMG 120408-RK		✓	✓				12.7	12.7	4.76	0.8	5.16	
		120412-RK		✓	✓				12.7	12.7	4.76	1.2	5.16	

TN□□ - Negative Turning Inserts

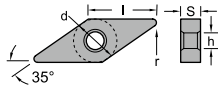
負角車刀片

Inserts		Designation	Grade No.						Dimensions (mm)					Drawing	
			CVD			PVD				d	l	S	r		h
			CC7015	CC7025	CC7035	CP6015	CP6025								
Finishing 精		TNMG 160404-FP	✓	✓		✓			9.525	16.5	4.76	0.4	3.81		
		160408-FP	✓	✓		✓			9.525	16.5	4.76	0.8	3.81		
Semi-finishing 半精		TNMG 160404-SP	✓	✓		✓			9.525	16.5	4.76	0.4	3.81		
		160408-SP	✓	✓		✓			9.525	16.5	4.76	0.8	3.81		
Medium 中		TNMA 160404	✓						9.525	16.5	4.76	0.4	3.81		
		160408	✓						9.525	16.5	4.76	0.8	3.81		
		TNMG 160404R-ME	✓	✓	✓		✓		9.525	16.5	4.76	0.4	3.81		
		160408R-ME	✓	✓	✓		✓		9.525	16.5	4.76	0.8	3.81		
		TNMG 160404L-ME	✓	✓	✓		✓		9.525	16.5	4.76	0.4	3.81		
		160408L-ME	✓	✓	✓		✓		9.525	16.5	4.76	0.8	3.81		
		TNMG 160404-MP	✓	✓	✓		✓		9.525	16.5	4.76	0.4	3.81		
		160408-MP	✓	✓	✓		✓		9.525	16.5	4.76	0.8	3.81		
160412-MP		✓	✓	✓		✓		9.525	16.5	4.76	1.2	3.81			
Roughing 粗		TNMG 160408-RK		✓	✓				9.525	16.5	4.76	0.8	3.81		
		160412-RK		✓	✓				9.525	16.5	4.76	1.2	3.81		
		TNMG 220408-RK		✓	✓				12.7	22.0	4.76	0.8	5.16		

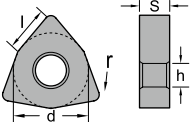
Turning

VN□□ - Negative Turning Inserts

負角車刀片

Inserts		Designation	Grade No.							Dimensions (mm)					Drawing
			CVD			PVD			d	l	S	r	h		
			CG7015	CG7025	CG7035	CP6015	CP6025	CP6035						CU1000	
Finishing 精		VNMG 160404-FP	✓	✓			✓			9.525	16.6	4.76	0.4	3.81	
		160408-FP	✓	✓			✓			9.525	16.6	4.76	0.8	3.81	
Medium 中		VNMG 160404-MP	✓	✓						9.525	16.6	4.76	0.4	3.81	
		160408-MP	✓	✓						9.525	16.6	4.76	0.8	3.81	

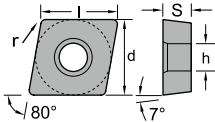
WN□□ - Negative Turning Inserts 負角車刀片

Inserts		Designation	Grade No.						Dimensions (mm)					Drawing	
			CVD			PVD		CU1000	d	l	S	r	h		
			CG7015	CG7025	CG7035	CP6015	CP6025								
Finishing 精		WNMG 080404-FP	✓	✓			✓			12.7	8.7	4.76	0.4	5.16	
		080408-FP	✓	✓			✓			12.7	8.7	4.76	0.8	5.16	
Semi-finishing 半精		WNMG 080404-SP	✓	✓			✓			12.7	8.7	4.76	0.4	5.16	
		080408-SP	✓	✓			✓			12.7	8.7	4.76	0.8	5.16	
Medium 中		WNMA 080408	✓							12.7	8.7	4.76	0.8	5.16	
		080412	✓							12.7	8.7	4.76	1.2	5.16	
		WNMG 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	
Roughing 粗		WNMG 080408-RK		✓	✓					12.7	8.7	4.76	0.8	5.16	
		080412-RK		✓	✓					12.7	8.7	4.76	1.2	5.16	

Turning

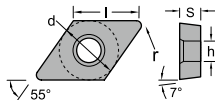
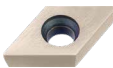
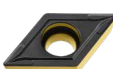
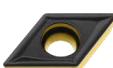
CC□□ - Positive Turning Inserts

正角車刀片

Inserts		Designation	Grade No.						Dimensions (mm)					Drawing
			CVD			PVD		CU1000	d	l	S	r	h	
			CC7015	CC7025	CC7035	CP6015	CP6025							
Finishing 精		CCGT 060202-FA						✓	6.35	6.4	2.38	0.2	2.8	
		060204-FA						✓	6.35	6.4	2.38	0.4	2.8	
		09T304-FA						✓	9.525	9.7	3.97	0.4	4.4	
		09T308-FA						✓	9.525	9.7	3.97	0.8	4.4	
		120404-FA						✓	12.7	12.9	4.76	0.4	5.5	
		CCGT 060202-FB				✓			6.35	6.4	2.38	0.2	2.8	
		060204-FB				✓			6.35	6.4	2.38	0.4	2.8	
		09T304-FB				✓			9.525	9.7	3.97	0.4	4.4	
		09T308-FB				✓			9.525	9.7	3.97	0.8	4.4	
		120404-FB				✓			12.7	12.9	4.76	0.4	5.5	
Medium 中		CCMT 060204-MP		✓	✓		✓		6.35	6.4	2.38	0.4	2.8	
		09T304-MP		✓	✓		✓		9.525	9.7	3.97	0.4	4.4	
		09T308-MP		✓	✓		✓		9.525	9.7	3.97	0.8	4.4	
		CCMT 060204-MK		✓	✓		✓		6.35	6.4	2.38	0.4	2.8	
		09T304-MK		✓	✓		✓		9.525	9.7	3.97	0.4	4.4	
		09T308-MK		✓	✓		✓		9.525	9.7	3.97	0.8	4.4	
		120408-MK		✓	✓		✓		12.7	12.9	4.76	0.8	5.5	

DC□□ - Positive Turning Inserts

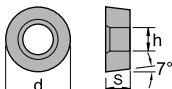
正角車刀片

Inserts		Designation	Grade No.						Dimensions (mm)					Drawing	
			CVD			PVD		CU1000	d	l	S	r	h		
			CC7015	CC7025	CC7035	CP6015	CP6025								
Finishing 精		DCET 11T301R-FX				✓				9.525	11.6	3.97	0.1	4.4	
		11T302R-FX				✓				9.525	11.6	3.97	0.2	4.4	
		11T304R-FX				✓				9.525	11.6	3.97	0.4	4.4	
		DCET 11T301L-FX				✓				9.525	11.6	3.97	0.1	4.4	
		11T302L-FX				✓				9.525	11.6	3.97	0.2	4.4	
		11T304L-FX				✓				9.525	11.6	3.97	0.4	4.4	
		DCET 11T301R-FY				✓				9.525	11.6	3.97	0.1	4.4	
		11T302R-FY				✓				9.525	11.6	3.97	0.2	4.4	
		11T304R-FY				✓				9.525	11.6	3.97	0.4	4.4	
		DCET 11T301L-FY				✓				9.525	11.6	3.97	0.1	4.4	
		11T302L-FY				✓				9.525	11.6	3.97	0.2	4.4	
		11T304L-FY				✓				9.525	11.6	3.97	0.4	4.4	
		DCGT 070202-FA							✓	6.35	7.7	2.38	0.2	2.8	
		070204-FA							✓	6.35	7.7	2.38	0.4	2.8	
		11T302-FA							✓	9.53	11.6	3.97	0.2	4.4	
		11T304-FA							✓	9.525	11.6	3.97	0.4	4.4	
		11T308-FA							✓	9.525	11.6	3.97	0.8	4.4	
		DCGT 070202-FB				✓				6.35	7.7	2.38	0.2	2.8	
070204-FB					✓				6.35	7.7	2.38	0.4	2.8		
11T302-FB					✓				9.525	11.6	3.97	0.2	4.4		
11T304-FB					✓				9.525	11.6	3.97	0.4	4.4		
11T308-FB					✓				9.525	11.6	3.97	0.8	4.4		
Medium 中		DCEW 11T301				✓				9.525	11.6	3.97	0.1	4.4	
		11T302				✓				9.525	11.6	3.97	0.2	4.4	
		11T304				✓				9.525	11.6	3.97	0.4	4.4	
		DCMT 11T304-MP		✓	✓		✓			9.525	11.6	3.97	0.4	4.4	
		11T308-MP		✓	✓		✓			9.525	11.6	3.97	0.8	4.4	
		DCMT 070204-MK		✓	✓		✓			6.35	7.7	2.38	0.4	2.8	
		11T304-MK	✓	✓	✓		✓			9.525	11.6	3.97	0.4	4.4	
		11T308-MK	✓	✓	✓		✓			9.525	11.6	3.97	0.8	4.4	

Turning

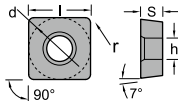
RC□□ - Positive Turning Inserts

正角車刀片

Inserts		Designation	Grade No.						Dimensions (mm)					Drawing	
			CVD			PVD		CU1000	d	l	S	r	h		
			CC7015	CC7025	CC7035	CP6015	CP6025								
Finishing 精		RCMT 1204MO-FB					✓			12	-	4.76	-	4.2	

SC□□ - Positive Turning Inserts

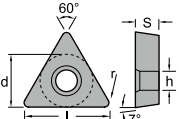
正角車刀片

Inserts		Designation	Grade No.						Dimensions (mm)					Drawing
			CVD			PVD		CU1000	d	l	S	r	h	
			CC7015	CC7025	CC7035	CP6015	CP6025							
Finishing 精		SCGT 09T304-FA						✓	9.525	9.525	3.97	0.4	4.4	
		09T308-FA						✓	9.525	9.525	3.97	0.8	4.4	
		SCGT 09T304-FB				✓			9.525	9.525	3.97	0.4	4.4	
		09T308-FB				✓			9.525	9.525	3.97	0.8	4.4	
Semi-finishing 半精		SCMT 09T304-SP		✓	✓		✓		9.525	9.525	3.97	0.4	4.4	
		09T308-SP		✓	✓		✓		9.525	9.525	3.97	0.8	4.4	
Medium 中		SCMT 09T304-MP		✓	✓		✓		9.525	9.525	3.97	0.4	4.4	
		09T308-MP		✓	✓		✓		9.525	9.525	3.97	0.8	4.4	
		SCMT 09T304-MK		✓	✓		✓		9.525	9.525	3.97	0.4	4.4	
		09T308-MK		✓	✓		✓		9.525	9.525	3.97	0.8	4.4	

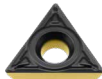
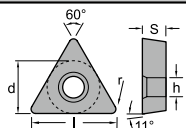
Turning

TC□□ - Positive Turning Inserts

正角車刀片

Inserts		Designation	Grade No.						Dimensions (mm)					Drawing
			CVD			PVD			d	l	S	r	h	
			CC7015	CC7025	CC7035	CP6015	CP6025	CU1000						
Finishing 精		TCGT 090204-FA						✓	5.56	9.6	2.38	0.4	2.5	
		110204-FA						✓	6.35	11.0	2.38	0.4	2.8	
		16T304-FA						✓	9.525	16.5	3.97	0.4	4.4	
		16T308-FA						✓	9.525	16.5	3.97	0.8	4.4	
		TCGT 090204-FB				✓			5.56	9.6	2.38	0.4	2.5	
		110204-FB				✓			6.35	11.0	2.38	0.4	2.8	
		16T304-FB				✓			9.525	16.5	3.97	0.4	4.4	
		16T308-FB							9.525	16.5	3.97	0.8	4.4	
Semi-finishing 半精		TCMT 110204-SP		✓	✓		✓		6.35	11.0	2.38	0.4	2.8	
		16T308-SP		✓	✓		✓		9.525	16.5	3.97	0.8	4.4	
Medium 中		TCMT 110204-MP		✓	✓		✓		6.35	11.0	2.38	0.4	2.8	
		TCMT 110204-MK		✓	✓		✓		6.35	11.0	2.38	0.4	2.8	
		16T304-MK		✓	✓		✓		9.525	16.5	3.97	0.4	4.4	
		16T308-MK		✓	✓		✓		9.525	16.5	3.97	0.8	4.4	

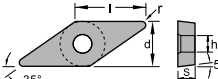
TP□□ - Positive Turning Inserts 正角車刀片

Inserts		Designation	Grade No.							Dimensions (mm)					Drawing	
			CVD			PVD		CU1000								
			CG7015	CG7025	CG7035	CP6015	CP6025				d	l	S	r		h
Medium 中		TPMH 160304-MP		✓	✓						9.525	16.5	3.18	0.4	4.4	

VB □□ - Positive Turning Inserts

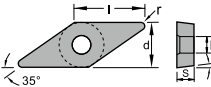
正角車刀片

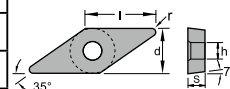
Inserts		Designation	Grade No.							Dimensions (mm)					Drawing
			CVD			PVD		CU1000	d	l	S	r	h		
			CC7015	CC7025	CC7035	CP6015	CP6025								
Finishing 精		VBET 110301R-FX				✓				6.35	11.1	3.18	0.1	2.8	
		110302R-FX				✓				6.35	11.1	3.18	0.2	2.8	
		110304R-FX				✓				6.35	11.1	3.18	0.4	2.8	
		VBET 110301L-FX				✓				6.35	11.1	3.18	0.1	2.8	
		110302L-FX				✓				6.35	11.1	3.18	0.2	2.8	
		110304L-FX				✓				6.35	11.1	3.18	0.4	2.8	
		VBET 110301R-FY				✓				6.35	11.1	3.18	0.1	2.8	
		110302R-FY				✓				6.35	11.1	3.18	0.2	2.8	
		110304R-FY				✓				6.35	11.1	3.18	0.4	2.8	
		VBET 110301L-FY				✓				6.35	11.1	3.18	0.1	2.8	
		110302L-FY				✓				6.35	11.1	3.18	0.2	2.8	
		110304L-FY				✓				6.35	11.1	3.18	0.4	2.8	
Medium 中		VBEW 110301				✓				6.35	11.1	3.18	0.1	2.8	
		110302				✓				6.35	11.1	3.18	0.2	2.8	
		110304				✓				6.35	11.1	3.18	0.4	2.8	
		VBMT 160404-MK		✓	✓		✓			9.525	16.6	4.76	0.4	4.4	
		160408-MK		✓	✓		✓			9.525	16.6	4.76	0.8	4.4	



VC □□ - Positive Turning Inserts

正角車刀片

Inserts		Designation		Grade No.						Dimensions (mm)					Drawing	
				CVD		PVD		CU1000	d	l	S	r	h			
				CC7015	CC7025	CC7035	CP6015							CP6025		
Finishing 精		VCET 110301R-FX				✓				6.35	11.1	3.18	0.1	2.8	        	
		110302R-FX				✓				6.35	11.1	3.18	0.2	2.8		
		110304R-FX				✓				6.35	11.1	3.18	0.4	2.8		
		VCET 110301L-FX				✓				6.35	11.1	3.18	0.1	2.8		
		110302L-FX				✓				6.35	11.1	3.18	0.2	2.8		
		110304L-FX				✓				6.35	11.1	3.18	0.4	2.8		
		VCET 110301R-FY				✓				6.35	11.1	3.18	0.1	2.8		
		110302R-FY				✓				6.35	11.1	3.18	0.2	2.8		
		110304R-FY				✓				6.35	11.1	3.18	0.4	2.8		
		VCET 110301L-FY				✓				6.35	11.1	3.18	0.1	2.8		
		110302L-FY				✓				6.35	11.1	3.18	0.2	2.8		
		110304L-FY				✓				6.35	11.1	3.18	0.4	2.8		
		VCGT 110302-FA							✓	6.35	11.1	3.18	0.2	2.8		
		110304-FA							✓	6.35	11.1	3.18	0.4	2.8		
		160402-FA							✓	9.525	16.6	4.76	0.2	4.4		
		160404-FA							✓	9.525	16.6	4.76	0.4	4.4		
		160408-FA							✓	9.525	16.6	4.76	0.8	4.4		
		VCGT 110302-FB					✓			6.35	11.1	3.18	0.2	2.8		
		110304-FB					✓			6.35	11.1	3.18	0.4	2.8		
		160402-FB					✓			9.525	16.6	4.76	0.2	4.4		
		160404-FB					✓			9.525	16.6	4.76	0.4	4.4		
		160408-FB					✓			9.525	16.6	4.76	0.8	4.4		
Semi-finishing 半精		VCGT 110301-SP					✓		6.35	11.1	3.18	0.1	2.8			
		110302-SP					✓		6.35	11.1	3.18	0.2	2.8			
		110304-SP					✓		6.35	11.1	3.18	0.4	2.8			
Medium 中		VCEW 110301				✓			6.35	11.1	3.18	0.1	2.8			
		110302				✓			6.35	11.1	3.18	0.2	2.8			
		110304				✓			6.35	11.1	3.18	0.4	2.8			



Turning

P Steel 鋼

Work Material 加工材質	Cutting Process 加工方式	Chipbreaker 斷屑槽	Grade 材質	ap (mm)	fr (mm/rev)	Vc (m/min)
Soft Steel / Low Carbon Steel 軟鋼 / 低碳鋼 (SS400, C15) ≤ HB180	Continuous (Finishing) 連續加工 (精)	FP, SP	CC7015	0.5-1.0-1.5	0.1-0.2-0.3	390-330-260
	General (Medium) 泛用加工 (中)	MP	CC7025	1.0-2.0-3.0	0.2-0.3-0.4	300-250-200
	Interrupted (Roughing) 斷續加工 (粗)	RK	CC7035	1.5-3.0-4.5	0.3-0.4-0.5	210-180-140
Carbon Steel / Alloy Steel 碳鋼 / 合金鋼 (S45C, SCM435) HB180 ~ 350	Continuous (Finishing) 連續加工 (精)	FP, SP	CC7015	0.5-1.0-1.5	0.1-0.2-0.3	320-270-210
	General (Medium) 泛用加工 (中)	MP	CC7025	1.0-2.0-3.0	0.2-0.3-0.4	230-190-150
	Interrupted (Roughing) 斷續加工 (粗)	RK	CC7035	1.5-3.0-4.5	0.3-0.4-0.5	170-140-110
Hard Steel / Alloy Steel 硬化鋼 / 合金鋼 (SCM440H) HRC35 ~ 45	Continuous (Finishing) 連續加工 (精)	FP, SP	CC7015	0.5-1.0-1.5	0.1-0.2-0.3	260-220-170
	General (Medium) 泛用加工 (中)	MP	CC7025	1.0-2.0-3.0	0.2-0.3-0.4	200-170-130
	Interrupted (Roughing) 斷續加工 (粗)	RK	CC7035	1.5-3.0-4.5	0.3-0.4-0.5	140-120-90

M Stainless Steel 不鏽鋼

Work Material 加工材質	Cutting Process 加工方式	Chipbreaker 斷屑槽	Grade 材質	ap (mm)	fr (mm/rev)	Vc (m/min)
Ferritic 鐵素體不鏽鋼 (SUS430) < HB200	Continuous (Finishing) 連續加工 (精)	FP, FB, SM, SP	CP6025	0.5-1.0-1.5	0.05-0.10-0.15	260-220-170
	General (Medium) 泛用加工 (中)	MP	CC7035	1.0-2.0-3.0	0.10-0.20-0.30	210-180-140
	Interrupted (Roughing) 斷續加工 (粗)	RK	CC7035	1.5-3.0-4.5	0.20-0.30-0.40	210-180-140
Martensitic / Austenitic 馬氏體 / 奧氏體不鏽鋼 (SUS410 / SUS304) ≤ HB200	Continuous (Finishing) 連續加工 (精)	FP, FB, SM, SP	CP6025	0.5-1.0-1.5	0.05-0.10-0.15	180-150-120
	General (Medium) 泛用加工 (中)	MP	CC7035	1.0-2.0-3.0	0.10-0.20-0.30	150-130-100
	Interrupted (Roughing) 斷續加工 (粗)	RK	CC7035	1.5-3.0-4.5	0.20-0.30-0.40	120-100-80
Duplex 雙相不鏽鋼 (SUS329) ≤ HB280	Continuous (Finishing) 連續加工 (精)	FP, FB, SM, SP	CP6025	0.5-1.0-1.5	0.05-0.10-0.15	150-130-100
	General (Medium) 泛用加工 (中)	MP	CC7035	1.0-2.0-3.0	0.10-0.20-0.30	120-100-80
	Interrupted (Roughing) 斷續加工 (粗)	RK	CC7035	1.5-3.0-4.5	0.20-0.30-0.40	110-90-70
Precipitation Hardening 析出硬化不鏽鋼 (SUS630) < HB450	Continuous (Finishing) 連續加工 (精)	FP, FB, SM, SP	CP6025	0.5-1.0-1.5	0.05-0.10-0.15	140-120-90
	General (Medium) 泛用加工 (中)	MP	CC7025	1.0-2.0-3.0	0.10-0.20-0.30	110-90-70
	Interrupted (Roughing) 斷續加工 (粗)	RK	CC7035	1.5-3.0-4.5	0.20-0.30-0.40	80-70-50

※ ap & fr value : Min. - Suggestion - Max. Vc : Max. - Suggestion - Min.
 下限 - 推薦 - 上限 上限 - 推薦 - 下限

K Cast Iron 鑄鐵

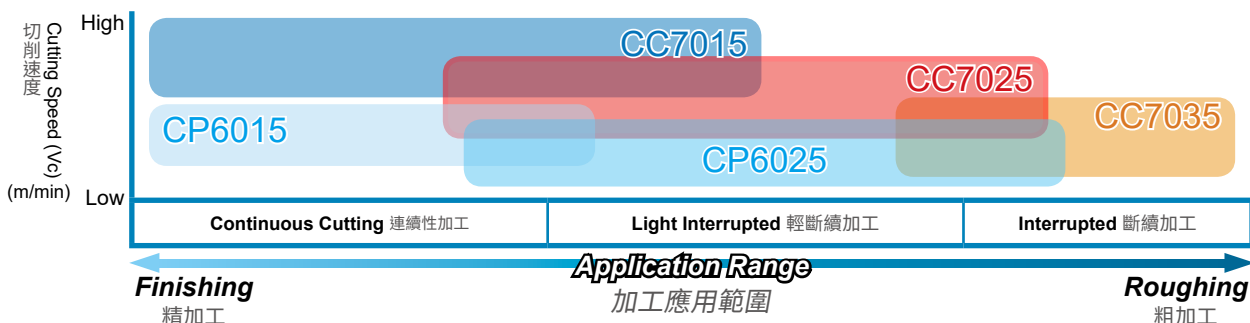
Work Material 加工材質	Cutting Process 加工方式	Chipbreaker 斷屑槽	Grade 材質	ap (mm)	fr (mm/rev)	Vc (m/min)
Gray Cast Iron 灰鑄鐵 (GG-25) ≤ 350Mpa	Continuous (Finishing) 連續加工 (精)	SP	CC7015	0.5-2.0-2.0	0.10-0.20-0.30	400-300-200
	General (Medium) 泛用加工 (中)	Flat, MP	CC7015	0.5-2.0-4.0	0.10-0.25-0.40	360-270-180
	Interrupted (Roughing) 斷續加工 (粗)	Flat, RK	CC7025	0.5-2.0-6.0	0.10-0.30-0.50	300-230-150
Ductile Cast Iron 球墨鑄鐵 (GGG-40.3) ≤ 450Mpa	Continuous (Finishing) 連續加工 (精)	SP	CC7015	0.5-2.0-2.0	0.10-0.20-0.30	360-270-180
	General (Medium) 泛用加工 (中)	Flat, MP	CC7015	0.5-2.0-4.0	0.10-0.25-0.40	320-240-160
	Interrupted (Roughing) 斷續加工 (粗)	Flat, RK	CC7025	0.5-2.0-6.0	0.10-0.30-0.50	240-180-120
High-strength Ductile Cast Iron 高強度球墨鑄鐵 (GGG-70) ≤ 800Mpa	Continuous (Finishing) 連續加工 (精)	SP	CC7015	0.5-2.0-2.0	0.10-0.20-0.30	320-240-160
	General (Medium) 泛用加工 (中)	Flat, MP	CC7015	0.5-2.0-4.0	0.10-0.25-0.40	280-210-140
	Interrupted (Roughing) 斷續加工 (粗)	Flat, RK	CC7025	0.5-2.0-6.0	0.10-0.30-0.50	160-120-80

S High Temperature Alloy 高溫合金

Work Material 加工材質	Cutting Process 加工方式	Chipbreaker 斷屑槽	Grade 材質	ap (mm)	fr (mm/rev)	Vc (m/min)
Nickel Alloy / PH Stainless Steel 鎳合金 / 析出硬化不鏽鋼	Continuous (Finishing) 連續加工 (精)	FP, FB	CP6015	0.2-0.50-0.8	0.10-0.15-0.20	100-75-50
	Continuous (Semi-finishing) 連續加工 (半精)	SM, SP	CP6025	0.2-0.85-1.5	0.10-0.15-0.20	90-65-40
	General (Medium) 泛用加工 (中)	MP	CP6025	0.5-1.75-3.0	0.15-0.20-0.25	80-55-30
Titanium Alloy 鈦合金	Continuous (Finishing) 連續加工 (精)	FP, FB	CP6015	0.2-0.50-0.8	0.10-0.15-0.20	80-60-40
	Continuous (Semi-finishing) 連續加工 (半精)	SM, SP	CP6025	0.2-0.85-1.5	0.10-0.15-0.20	70-50-30
	General (Medium) 泛用加工 (中)	MP	CP6025	0.5-1.75-3.0	0.15-0.20-0.25	70-50-30

※ ap & fr value : Min. - Suggestion - Max.
下限 - 推薦 - 上限

Vc : Max. - Suggestion - Min.
上限 - 推薦 - 下限



Turning Inserts Grade Comparison - CVD

車刀片材質比較表 - CVD

ISO Code		WINSTAR 萬事達	Mitsubishi 三菱	Hitachi 日立	Sumitomo 住友	Kyocera 京瓷	Tungaloy 泰珂洛	Korloy 克勞伊	TaeguTec 特固克
P Steel	P10	CC7015	MC6015 UE6105 UE6110 UE6005 UE6010 UE6020	GM10 GM20 GM8015 HG8010	AC8020P AC8015P AC810P	CA510 CA515 CA5505 CA5515	T9005 T9105 T9015 T9115 T9215	NC3215	TT8105B
	P20	CC7025	MC6025 UC6010 UE6110 UE6020	GM20 GM8020 HG8025	AC8020P AC8025P AC820P	CA025P CA525 CA5515 CA5525 CR9025	T9015 T9115 T9025 T9125 T9225	NC3225	TT5100 TT8115B TT8125B
	P30	CC7035	MC6025 UE6020 MC6035 UE6035 UH6400	GM25 GM8035 HG8025	AC8035P AC830P AC6030M AC630M	CA025P CA525 CA5525 CA530 CA5535 CR9025	T9125 T9035 T9135 T3130	NC3120 NC3030 NC5330	TT5100 TT7100 TT8125B
	P40	CC7035	MC6035 UE6035 UH6400	GX30	AC8035P AC830P AC6030M AC630M	CA530 CA5535	T9035 T3130		TT5100 TT7100 TT8135B
M Stainless Steel S Superalloys	M10 S10	CC7015	MC7015 US7020	GM10 HS9105	AC6020M AC610M	CA6515	T9015 T9115	NC9115	TT9215
	M20 S20	CC7025 CC7035	US7020 MC7025	GM8020 HG8025 HS9115	AC6020M AC6030M AC610M AC630M	CA6525	T6020 T6120 T9115 T9125	NC9115 NC9125	TT5100 TT9215
	M30	CC7035	MC7025 US735	GM25 GM8035	AC6030M AC630M AC8035P AC830P		T6030 T6130 T9125	NC9125 NC9135	TT5100 TT9235
	M40	CC7035	US735	GX30	AC6030M AC630M			NC9135	TT5100 TT9235
K Cast Iron	K01	CC7015	MC5005 UC5105 UC5015	HG3305 HG3315 HX3505 HX3515	AC405K AC410K AC300G AC4010K	CA310 CA4505 CA5505	T5105 T5010		TT7005
	K10	CC7015	UC5015 UC5105 UC5115 UE6010 MC5015	GM8015 HX3515 HG8010 HG3315	AC4010K AC4015K AC405K AC415K	CA310 CA315 CA4505 CA4515 CA5505	T515 T5105 T5115 T5010	NC6310	TT7005 TT7015
	K20	CC7015	MC5015 MY5015 UE6010 UC5115 UE6110	GM8020 HG8025	AC4015K AC415K AC420K AC425K AC8025P	CA315 CA320 CA4515	T515 T5115 T5125 T5020	NC6315	TT7015 TT7025
	K30		UE6110	GM25		CA320	T5125 T9125	NC5330	TT7025

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此材質比照表僅供參考

Turning Inserts Grade Comparison - CVD

車刀片材質比較表 - CVD

ISO Code		WINSTAR 萬事達	Sandvik 山特維克	Iscar 伊斯卡	Kennametal 肯納	SECO 山高	Walter 瓦爾特
P Steel	P10	CC7015	GC4205 GC4015 GC3115 GC4215 GC4315	IC8150 IC9150 IC9250	KCK05 KCP10B KCP10 KC9010 KC9110	TP1501 TP1000 TP1500 TP100	WPP01 WPP05
	P20	CC7025	GC4025 GC4215 GC4220 GC4225 GC4325	IC8250 IC9125 IC9250 IC9350	KCP25B KCP25 KC9125 KC9225 KC9325	TP2501 TP2000 TP2500 TP200	WPP10S WPP20S
	P30	CC7035	GC4225 GC4230 GC4235 GC2135 GC4335	IC635 IC8350 IC9350	KCP30B KCP30 KC9040 KC9140	TP2501 TP3501 TP2500 TP2000 TP3500 TP200	WPP30S
	P40	CC7035	GC4035 GC4235 GC4240 GC4335	IC635	KCP40B KCP40 KC9140 KC9240	TP40	
M Stainless Steel S Superalloys	M10 S10	CC7015	GC2015 GC2220	IC8250 IC9250 IC9350 IC6015	KCM15B KCM15 KC9010 KC9110 KC9210	TP1500 TP100	WAM20
	M20 S20	CC7025 CC7035	GC1515 GC2015 GC2025 GC2220	IC8350 IC9250 IC9350 IC6025	KCM25B KCM25 KC9025 KC9125 KC9225	TM2000 TP200	
	M30	CC7035	GC2040 GC235	IC8350 IC9350 IC4050	KCM35B KCM35 KC9240	TM4000 TP3501 TP300	
	M40	CC7035		IC635	KC9045 KC9245	TP40	
K Cast Iron	K01	CC7015	GC3205 GC3210	IC5005 IC428 IC9007 IC9150	KCPK05 KC9315 KCK05B KCK05	TK0501 TK1000 TK1001	WAK10
	K10	CC7015	GC3205 GC3210 GC3215 GC3115	IC5010 IC418 IC428 IC9015 IC9007	KC9110 KC9120 KC9315 KCK15B KCK15	TK1000 TK2000 TK2001 MK1500	WAK20
	K20	CC7015	GC4225 GC3215 GC3220 GC3225	IC418 IC9015	KC9125 KC9320 KC9325 KCK20B KCK20	TK2000 TX150 TP200	WAK30
	K30		GC3040 GC4335		KCP25B KC9320	TP2500 TP200	

Turning

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此材質比照表僅供參考

Turning Inserts Grade Comparison - PVD

車刀片材質比較表 - PVD

ISO Code		WINSTAR 萬事達	Mitsubishi 三菱	Hitachi 日立	Sumitomo 住友	Kyocera 京瓷	Tungaloy 泰珂洛	Korloy 克勞伊	TaeguTec 特固克
P Steel	P10	CP6015	MS6015 VP10MF	CY15 CY150 IP2000	AC1030U ACZ150 AC5005S AC5015S AC5025S AC520U	PR1705 PR930 PR1025 PR1115 PR1215 PR1225 PR1725	AH710		TT4410
	P20	CP6015 CP6025	MS6015 VP10RT VP15TF VP20MF UP20M VP20RT	CY150 IP2000	AC1030U AC5025S AC520U AC530U	PR930 PR1025 PR1115 PR1215 PR1225 PR1265 PR1725	AH7025 AH710 AH725 AH730 SH725 SH730		TT4410 TT4430 TT9020 TT9080
	P30	CP6025	VP10RT VP15TF VP20MF UP20M	CY250 CY9020 HC844 IP3000	AC1030U AC530U	PR1025 PR1225 PR1535	GH330 AH120 AH740 AH9030	PC5300	TT4410 TT4430 TT8020 TT8080 TT9020 TT9080
	P40	CP6025		CY250 HC844	AC1030U	PR1535	AH140 AH740 J740	PC5300 PC5400	TT4430 TT8020 TT8080 TT9020 TT9080
M Stainless Steel	M10	CP6015	VP10MF VP10RT	IP050S JP9105	AC5005S AC5015S AC5025S AC510U AC520U ACZ150	PR1025 PR1215 PR1225	AH710	PC8110	TT4410 TT5080
	M20	CP6025	VP10RT VP15TF VP20MF UP20M VP20RT	IP100S GX30 JP9115	AC5015S AC5025S AC1030U AC520U	PR930 PR1025 PR1125 PR1215 PR1725 PR1225 PR1515	AH630 AH725 AH730 GH330 GH730 SH75 SH730	PC8115	TT4410 TT4430 TT5080 TT9020 TT9080
	M30	CP6025	VP15TF VP20MF UP20M MP7035	CY250 CY9020	AC5025S AC6040M AC1030U AC520U AC530U	PR1125 PR1535	AH6030 AH120 AH725	PC5300	TT4410 TT4430 TT5080 TT8020 TT8080 TT9020 TT9080
	M40	CP6025	MP7035		AC6040M AC1030U AC530U	PR1535	J740 AH140 AH645	PC9030 PC5400	TT4430 TT8020 TT8080 TT9020 TT9080
K Cast Iron	K01						AH110		
	K10	CP6015	VP05RT	CY100H CY10H	AC1030U AC510U ACZ150 AC5015S	PR905 PR1215	GH110 AH110	PC8110	
	K20	CP6025	VP10RT VP15TF VP20RT	IP2000 CY9020	AC1030U AC510U ACZ150 AC5015S AC5025S	PR905 PR1215	AH120 AH725	PC8110	
	K30	CP6025	VP15TF VP20RT		AC1030U AC530U			PC5300 PC5400	
S Superalloys	S01		MP9005 VP05RT			PR005S	AH8005 AH905	PC8105	
	S10	CP6015 CP6025	MP9005 MP9015 VP10RT	JP9105	AC5005S AC5015S AC5025S AC510U AC520U ACZ150	PR005S PR015S	AH8015 AH905 SH730 AH110	PC8110	TT3010 TT3020 TT4410 TT5080
	S20	CP6025	MP9015 MT9015 VP20RT MP9025	JP9115	AC5015S AC5025S AC1030U AC520U	PR015S PR1535	AH8015 AH120 AH725	PC8115	TT3010 TT3020 TT4410 TT4430 TT5080
	S30	CP6025	MP9025		AC5025S AC6040M AC1030U AC520U AC530U	PR1535	AH725	PC5300 PC5400	TT8020 TT8080 TT3010 TT3020 TT4410 TT4430 TT5080

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此材質比照表僅供參考

Turning Inserts Grade Comparison - PVD

車刀片材質比較表 - PVD

ISO Code		WINSTAR 萬事達	Sandvik 山特維克	Iscar 伊斯卡	Kennametal 肯納	SECO 山高	Walter 瓦爾特
P Steel	P10	CP6015	GC1025	IC507 IC807 IC907	KC5010 KC5510 KU10T	CP200	
	P20	CP6015 CP6025	GC1020 GC1025 GC4125 GC1125	IC507 IC907 IC908	KC5025 KC5525 KC7215 KC7315 KU25T	CP250	
	P30	CP6025	GC1125 GC1145 GC1115 GC1105	IC328 IC928 IC3028	KC7015 KC7020 KC7235 KU25T	CP500	
	P40	CP6025	GC1145 GC2145	IC328 IC3028	KC7030 KC7040 KC7140	CP600	
M Stainless Steel	M10	CP6015	GC1005 GC1025 GC1105 GC15	IC507 IC520 IC807 IC907	KC5010 KC5510 KC6005 KCU10	TS2000 CP200 CP250	WSM20
	M20	CP6025	H5D6 GC1025 GC1115 GC4125 GC1125 GC30	IC308 IC507 IC907 IC908 IC3028	KC5025 KC5525 KC7020 KC7025 KCU25	TTP2050 TS2500 CP200 CP250 CP500	WSM30
	M30	CP6025	GC1020 GC2035 GC2030	IC908 IC1008 IC1028 IC3028	KC7030 KC7225	CP500	
	M40	CP6025	GC2145 GC1145	IC228 IC928 IC328		CP600	
K Cast Iron	K01			IC910	KC5515		
	K10	CP6015	GC1010	IC807 IC910 IC507 IC908	KC5010 KC7210	TS2000 CP200	
	K20	CP6025	GC1020 GC1120	IC508 IC908	KC5025 KC5525 KC7015 KC7215 KC7315	TS2500 CP200 CP250	
	K30	CP6025	GC1030	IC508 IC908	KC7225	CP500	
S Superalloys	S01			IC804 IC806			WSM10
	S10	CP6015 CP6025	GC1105 GC1005 GC1025	IC807 IC808 IC907 IC908	KC5010 KC5510 KCU10 KCS10	CP200 TS2000	WSM20
	S20	CP6025	GC1025 GC1125	IC806 IC808 IC908	KC5025 KC5525 KCU25	CP250 TS2500	WSM30
	S30	CP6025	GC1125	IC3028			

Turning

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此材質比照表僅供參考

Turning Inserts Chipbreaker Comparison Chart

車刀片斷屑槽比較表

Negative Inserts 負角車刀片

Work Material	Applications	WINSTAR 萬事達	Mitsubishi 三菱	Hitachi 日立	Sumitomo 住友	Kyocera 京瓷	Tungaloy 泰珂洛	TaeguTec 特固克
P Steel	Fine Cutting		FH, FP, FS, FY	FE	FA, FL, FB	GP, XP, XF, VF, VC, SK	TF, NS, ZF	FA
	Finishing	FP	SA, SY, SH	BE, CE, B, BH	LU, FE, SU	PP, XQ, CQ, HQ	MM, TS, TSF	FG, FC
	Finishing to Light	SP, SM	LP	AB, CT	SE, SX	CJ, XS	AS, ZM	
	Medium	MP, ME	MA, MV, MH, MP	AH, AE, AY	GU, GE, UX	HS, PS, PQ, GS, PT, PG	TM, TQ, DM, AM	ML, MP, MC, PC, MT
	Roughing	RK	RP, GH, HAS, MT	RE, AR	MU, ME, MX, MP	HT, GT, PH	TH, S, CH	RT
	Heavy Cutting		HZ, HX, HL, HH, HXD, HR, HV, HCS	TE, UE, H, HX, HE	HG, HP, HU, HW, HF	PX, Standard	THS, TRS, 65, TUS	RX, RH, HT, HD, HY, HZ
M Stainless Steel	Finishing	FP	LM, SH	SE, MP, AB	SU, EF	MQ, GU	SS	EA, SF
	Light to Medium	SP, SM	GM, MS	PV	EX, EG	MS, MU	SF, SA	EM
	Medium	MP, ME	MM	DE	GU		SM	ET
	Roughing	RK	ES, 1M, 2M, HL, RM, GH, HM	AE	HM, EM, MU	TK	S, SH	VF, SU
K Cast Iron	Light Cutting	SP, SM	LK, MA, MK	V, VA	UZ	Standard, C, KQ	CM, CF	MT
	Medium	MP, ME	GK, RK, GH	Y, RE	GZ, ME	ZS, GC, KG, KH	Standard, CH 33	RT
N Non-Ferrous Metal	Finishing	FP		AH	AX	AH	P	
S Superalloys	Finishing	SP, SM	LS, FJ		EF		HRF	
	Medium	MP, ME	MS, MJ	VI	EG, EX	SQ	HMM, SA, HRM	
	Roughing	RK	RS, GJ		MU, EM	SG, SX		
H Hardened Steel	Finishing				GH, FV		HP	
	Light Cutting		BF		LV	HH, HL	HF	
	Carburised Layer Removal		BM		SV	HD	HM	

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Turning Inserts Chipbreaker Comparison Chart

車刀片斷屑槽比較表

Negative Inserts 負角車刀片

Work Material	Applications	WINSTAR 萬事達	Sandvik 山特維克	Iscar 伊斯卡	Kennametal 肯納	SECO 山高	Walter 瓦爾特
P Steel	Fine Cutting		QF	SF	FF	FF1, FF2	FP5
	Finishing	FP	LC, XF, MF		FN, CT	MF2	NF3
	Finishing to Light	SP, SM	PF, KF	F3P, TF	LF, 33		MP3, NS6
	Medium	MP, ME	XM, QM, PMC, PM, SM, KM, HM	GN, RF, LF	P, MG, MN, MP1	M3	MU5, MP5, NM4, NM6
	Roughing	RK	PR, XMR, KR	M3P, NR	RP, RN	M5, MR7, R4, R5, M6	RP5, NM9, RP7
	Heavy Cutting		HR, SR, MR	NM, TNM, R3P	RM, MR, RH	R7, MR7, RR9	NR6, NRF, NR8, NRR
M Stainless Steel	Finishing	FP	MF	F3M	FP, FS, LF	MF2	NF4, FM5
	Light to Medium	SP, SM	23	TF, VL	MS	MF1, M1	MM5
	Medium	MP, ME	MM, MMC, SMR	M3M, PP	MP	MF3, M3	NM4, MS3, MU5
	Roughing	RK	MR, MRR	MR, R3M, M4MW	UP	MF4, MF5, M5, MR3, MR4	NR4, RM5, HU5
K Cast Iron	Light Cutting	SP, SM	KF	GN	UN	M4	NM5
	Medium	MP, ME	KM, KR, KRR			MR7	RK5, RK7
N Non-Ferrous Metal	Finishing	FP			MS		
S Superalloys	Finishing	SP, SM	SF, SGF	F3S			NFT
	Medium	MP, ME	SM, SMC	VL		M1	NMT, NMS
	Roughing	RK	SMR			MR3, MR4	NRT, HU5, NRS
H Hardened Steel	Finishing						
	Light Cutting						
	Carburised Layer Removal						

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Turning Inserts Chipbreaker Comparison Chart

車刀片斷屑槽比較表

Positive Inserts 正角車刀片

Work Material	Applications	WINSTAR 萬事達	Mitsubishi 三菱	Hitachi 日立	Sumitomo 住友	Kyocera 京瓷	Tungaloy 泰珂洛	TaeguTec 特固克
P Steel	Finishing	FB, FX, FY	FJ, AM, FP, FM, FV, SQ	JQ, MP	FC, FB, LU, FP, FK	CF, GF, VF, P, PF, GP, XP, PP, MQ, DP	01, JRP, JTS, PSF, PF, 23, SS, JSS	FA, FX
	Finishing to Light	SP	SMG, LP, LM		SI, LB	CK, SKS, XQ	JS, CM, PSS	SA
	Light to Medium		SV, MQ	JE	SC, SU, GU, SK, SF	GQ, SK, Standard, HQ, XQ, GK	PS, TSF, TM	FG, PC
	Medium	MP, MK	MP, MM, MK, MV		MU		PM	MT, PMR
M Stainless Steel	Finishing	FB, FX, FY	FM, FV		FC		PSF, PF, SS, JSS	FA, FX
	Finishing to Light	SP, SM	SMG, LM		SI, LB	MQ		FG
	Light to Medium		SV		SU, GU	HG		PC
	Medium	MP, MK	MM, MV, Blank		MU		PM	MT, PMR
K Cast Iron	Finishing	FB			FC		CF	
	Light to Medium	MP, MK	MK		MU			MT
N Non-Ferrous Metal	Finishing	FA	AZ		AG, AW, AY	AH, AP	AL, PP	FL
	Finishing to Light	FB			LD, GD			SA
S Superalloys	Finishing	FB, FX, FY	FS		FC, SI	PP, MQ	PSS	
	Light to Medium		LS, MS		SU, GU	HQ, GK	PS, PM	
H Hardened Steel	Finishing				FV		HP	
	Light Cutting		BF		LV			

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Turning Inserts Chipbreaker Comparison Chart

車刀片斷屑槽比較表

Positive Inserts 正角車刀片

Work Material	Applications	WINSTAR 萬事達	Sandvik 山特維克	Iscar 伊斯卡	Kennametal 肯納	SECO 山高	Walter 瓦爾特
P Steel	Finishing	FB, FX, FY	UM, PF, UF, MF, XF	PF	11, UF, MF, KF, XF	GT-F1, FF1	FM4, FP4
	Finishing to Light	SP			LF		
	Light to Medium		PM, UM, XM	SM, 14	MP	MF2, F1	MP4, MM4, FP6, PM5
	Medium	MP, MK	PR, UR, MMC, MPC, XR	19	MF	F2, M3, M5	RP4, RM4
M Stainless Steel	Finishing	FB, FX, FY	MF, XF	PF	11, UF	FF1	FM4
	Finishing to Light	SP, SM	UF		LF, FP	F1	
	Light to Medium		MM	SM	MP	MF2	MM4, PS5
	Medium	MP, MK	UM, MR, XR, UR		MF	F2, M3, M5	PM5, RM4
K Cast Iron	Finishing	FB	KF, XF		11, UF		FK6
	Light to Medium	MP, MK	KM, UM, XR		FP, LF, MF, MP	M5	MK4, RK4
N Non-Ferrous Metal	Finishing	FA	AL	AS, AF	HP	AL	PM2
	Finishing to Light	FB					
S Superalloys	Finishing	FB, FX, FY	WF, MF				
	Light to Medium		UM, PM			MF2, R2, R3	FV4, MV4
H Hardened Steel	Finishing						
	Light Cutting						

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Turning

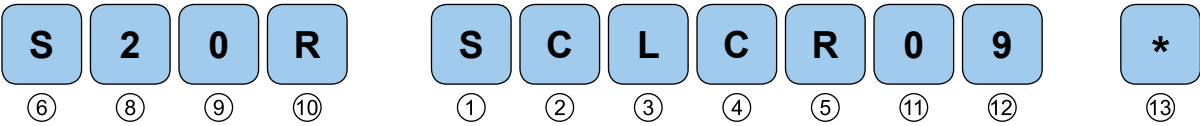




外徑車刀桿型號編碼



Tools Designations for Internal Turning 內徑車刀桿型號編碼



⑥ Shank

S = Steel shank

A = Steel shank + coolant hole

B = Steel shank + device anti-vibration

C = Cemented carbide shank with steel head

D = Steel shank + device anti-vibration + coolant hole

E = Cemented carbide shank with steel head + coolant hole

F = Cemented carbide shank with steel head + device anti-vibration

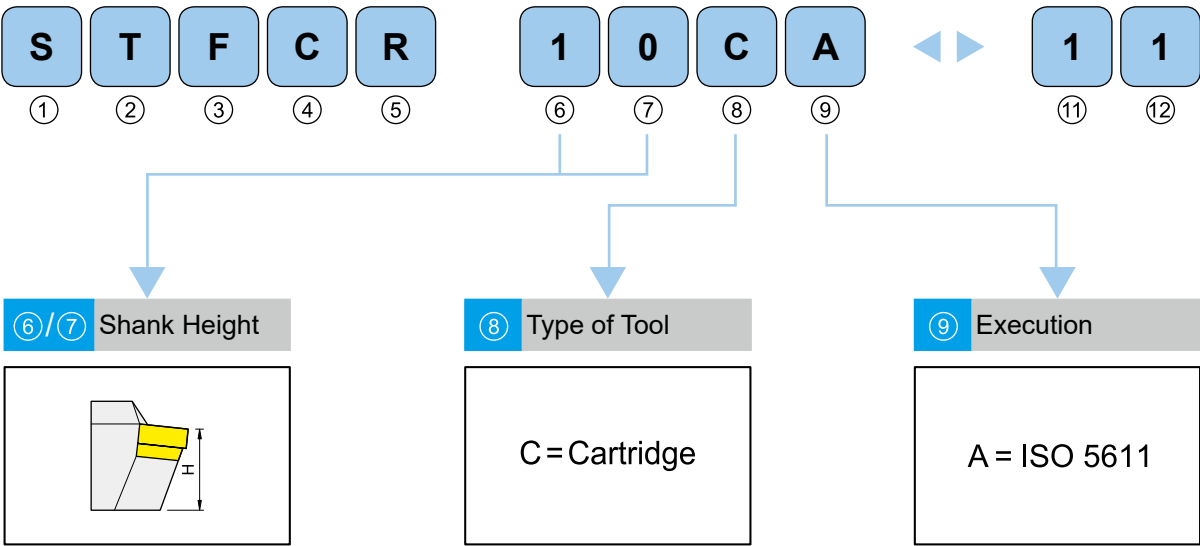
G = Cemented carbide shank with steel head + device anti-vibration + coolant hole

H = Heavy metal shank

J = Heavy mteal shank + coolant hole

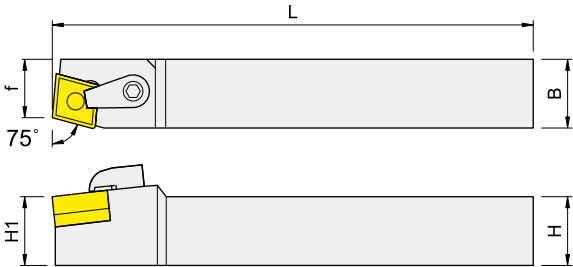
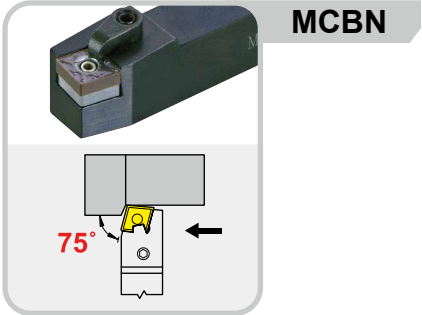
Turning

Cartridges Designation



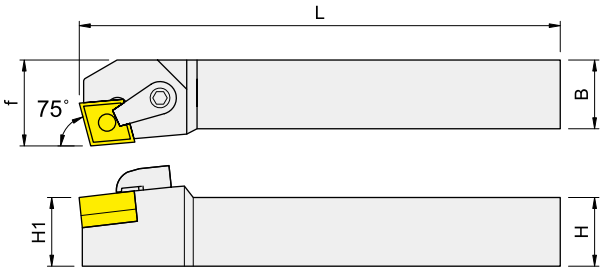
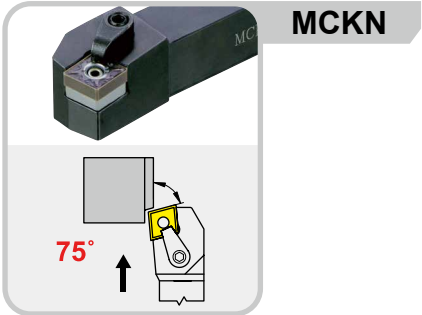
External Turning Tools

外徑車刀桿



Right-hand shown

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

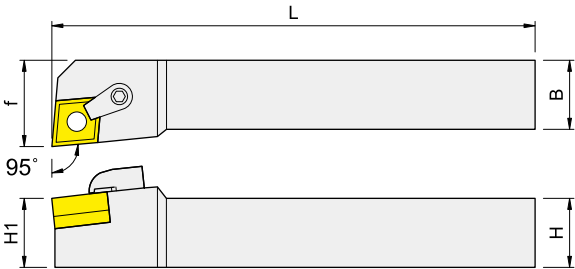
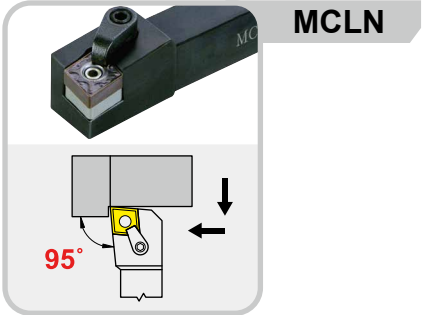


Right-hand shown

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

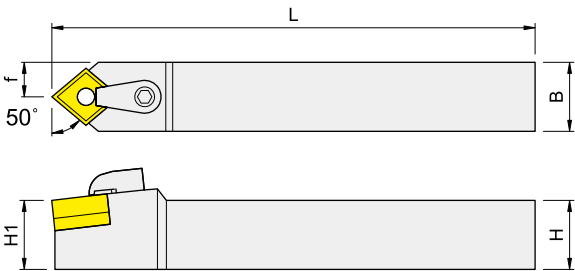
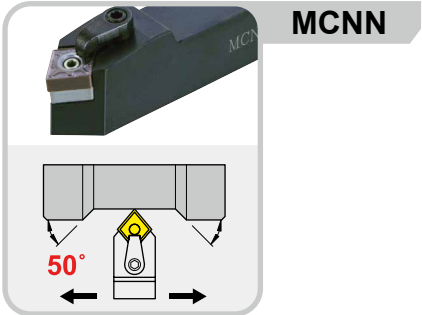
External Turning Tools

外徑車刀桿



Right-hand shown

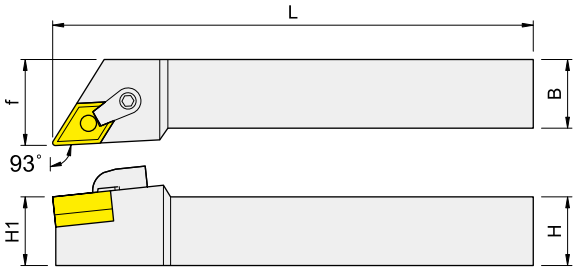
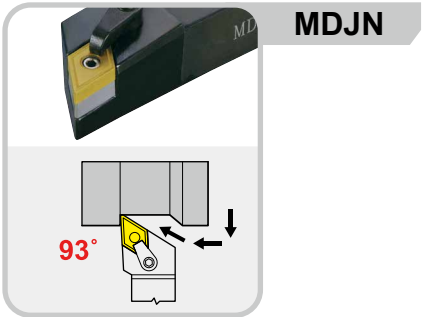
Order No. 訂購編碼	Dimensions, mm					Insert	Pin	Shim	Wrench	Screw	Clamp	Wrench
	H	B	L	H1	f							
IMCLN ^R _L -1616K-12	16	16	125	16	20	CN..1204..	IMLP46-A	ICMS432	IPL25	IMS625TX	IMC620	IETL15
IMCLN ^R _L -2020K-12	20	20	125	20	25							
IMCLN ^R _L -2525M-12	25	25	150	25	32					IMS630TX		
IMCLN ^R _L -3232P-12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



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							

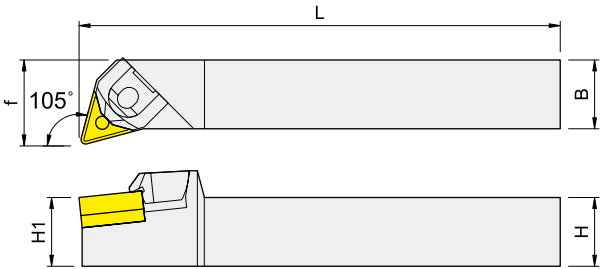
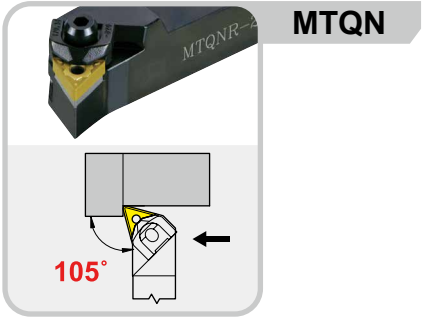
External Turning Tools

外徑車刀桿



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		

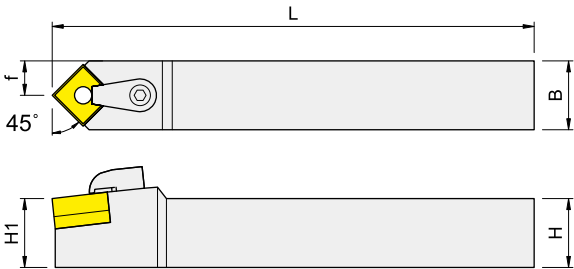
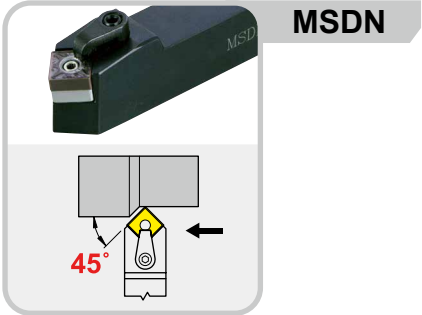


Right-hand shown

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							

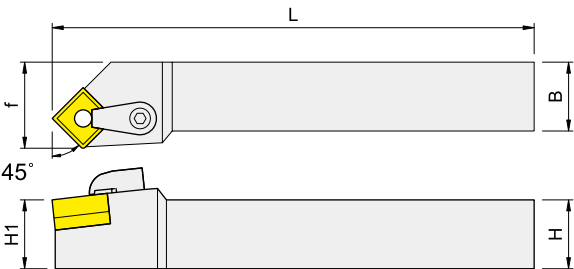
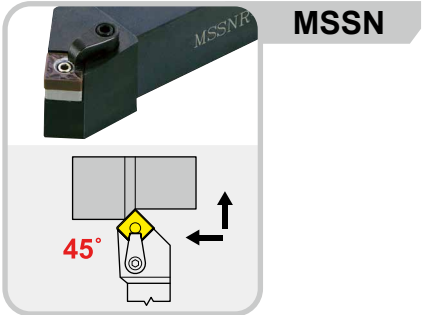
External Turning Tools

外徑車刀桿



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		

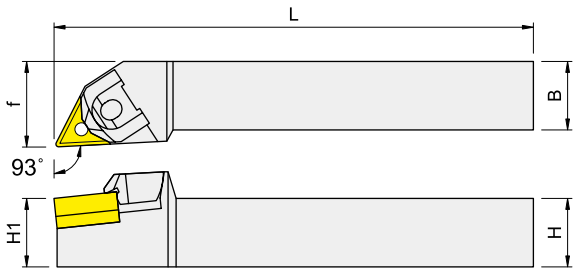
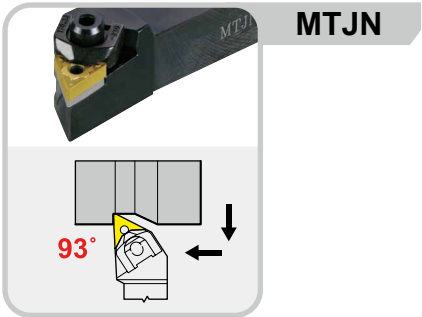


Right-hand shown

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		

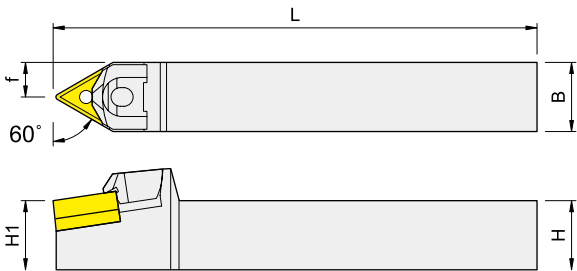
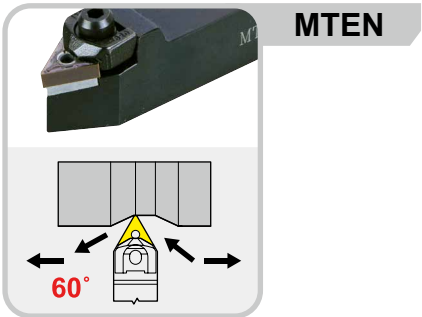
External Turning Tools

外徑車刀桿



Right-hand shown

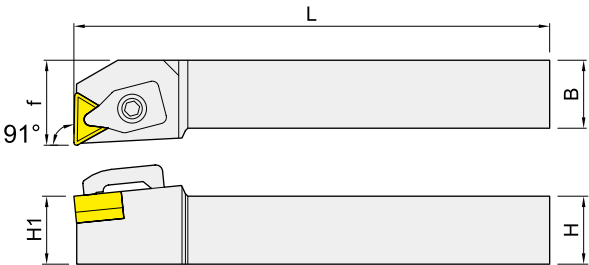
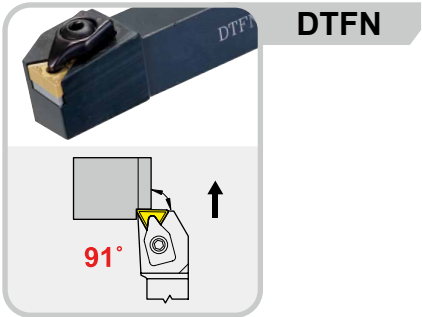
Order No. 訂購編碼	Dimensions, mm					Insert	Pin	Screw	Wrench	Shim	Clamp	Wrench
	H	B	L	H1	f							
IMTJN ^R / _L -1216K-16	12	16	125	16	21	TN..1604..	IMCP3	IMCS3S-11	IPL30	ITWS322	IMCW3-P40	IPL40
IMTJN ^R / _L -1616K-16	16	16	125	16	21							
IMTJN ^R / _L -2020K-16	20	20	125	20	25							
IMTJN ^R / _L -2525M-16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

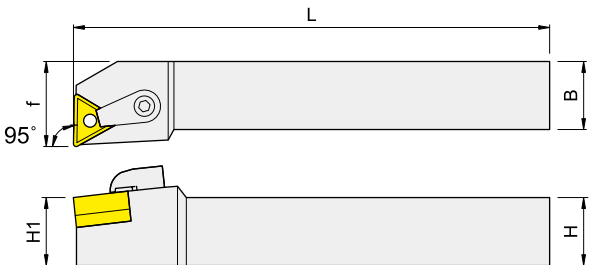
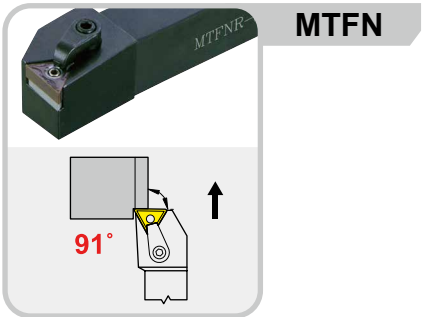
External Turning Tools

外徑車刀桿



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						



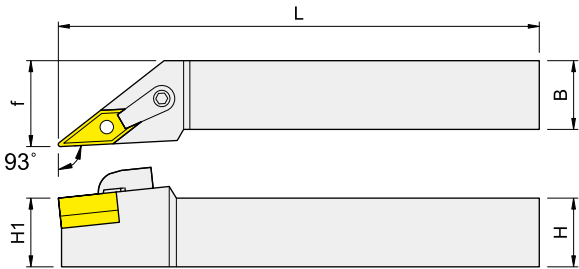
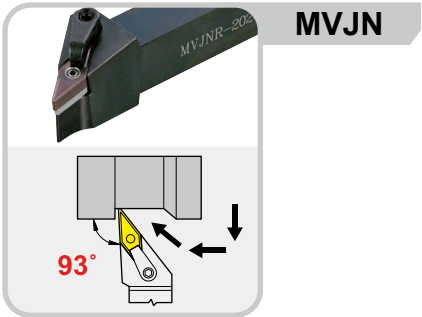
Right-hand shown

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							

Turning

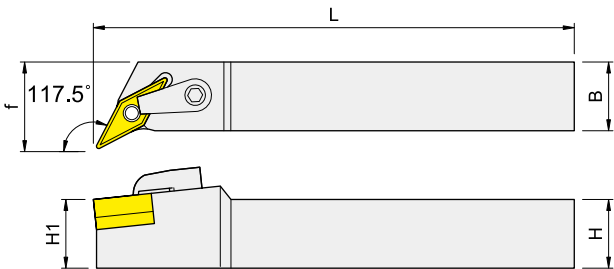
External Turning Tools

外徑車刀桿



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							

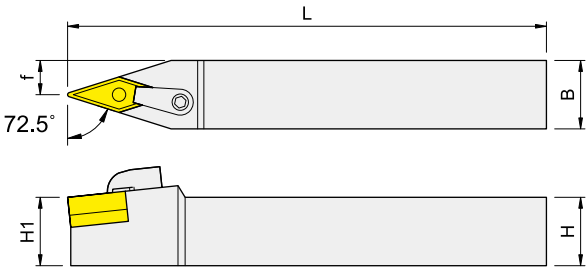
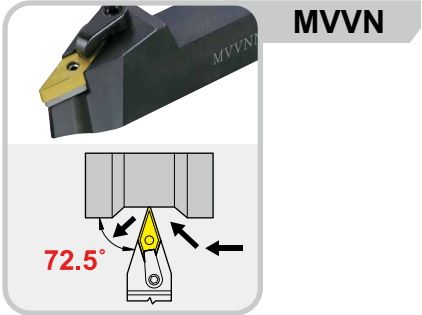


Right-hand shown

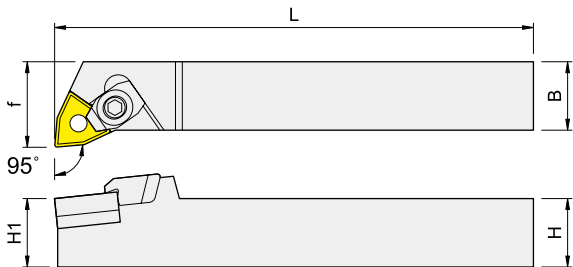
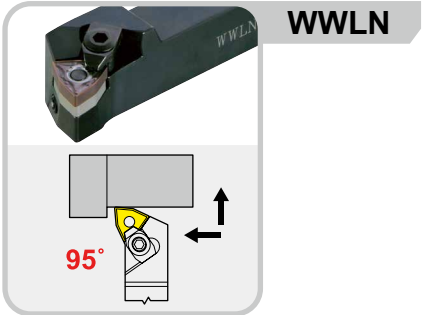
Order No. 訂購編碼	Dimensions, mm					Insert	Pin	Shim	Wrench	Screw	Clamp	Wrench
	H	B	L	H1	f							
IMVQN ^R _L -2020K-16	20	20	125	20	25	VN..1604..	IMLP34L-A	IVMS322	IPL20	IMS625TX	IMC622	IETL15
IMVQN ^R _L -2525M-16	25	25	150	25	32					IMS630TX		

External Turning Tools

外徑車刀桿



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							



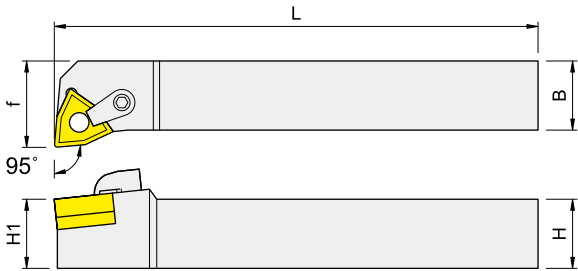
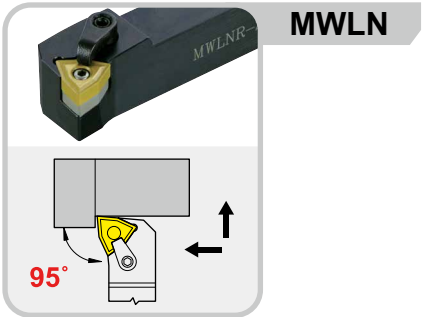
Right-hand shown

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							

Turning

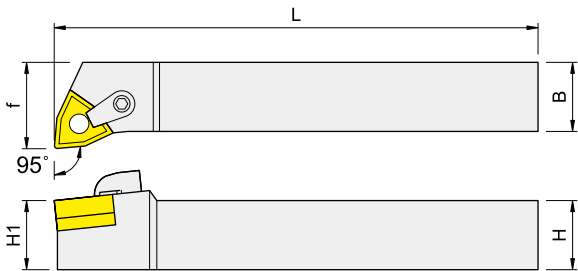
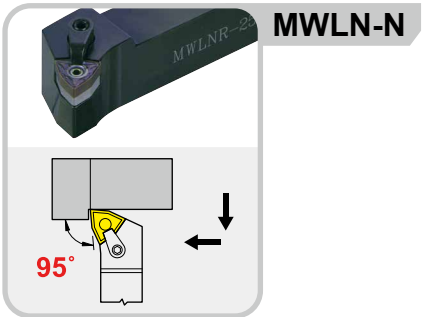
External Turning Tools

外徑車刀桿



Right-hand shown

Order No. 訂購編號	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		

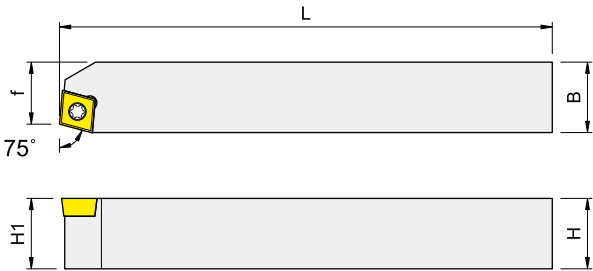
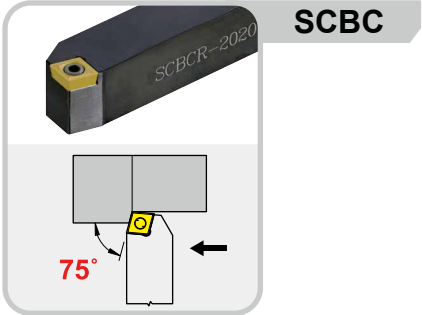


Right-hand shown

Order No. 訂購編號	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		

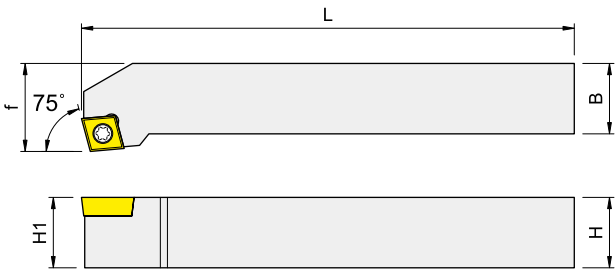
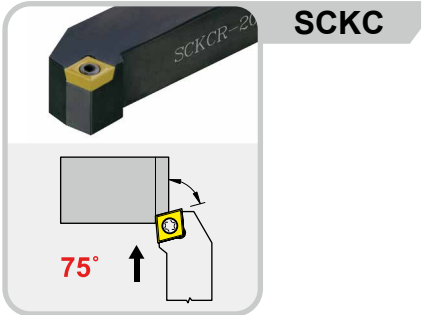
External Turning Tools

外徑車刀桿



Right-hand shown

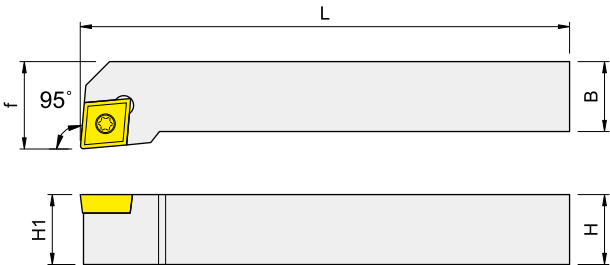
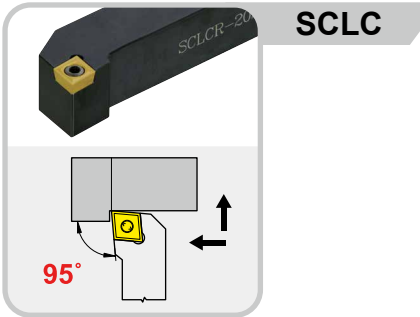
Order No. 訂購編碼	Dimensions, mm					Insert	Clamp 	Wrench 
	H	B	L	H1	f			
ISCB ^R _L -2020K-09	20	20	125	20	17.5	CC..09T3..	IMS4011A	ITK15



Right-hand shown

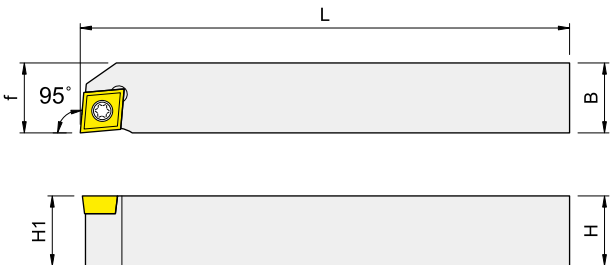
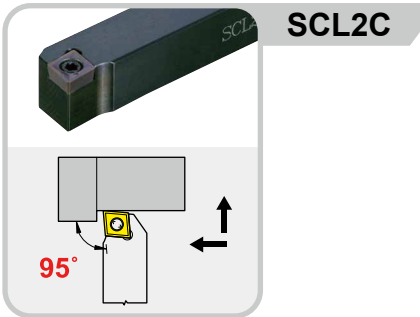
Order No. 訂購編碼	Dimensions, mm					Insert	Clamp 	Wrench 
	H	B	L	H1	f			
ISCK ^R _L -1212K-09	12	12	125	12	16	CC..09T3..	IMS4011A	ITK15
ISCK ^R _L -1616K-09	16	16	125	16	20			
ISCK ^R _L -2020K-09	20	20	125	20	25			
ISCK ^R _L -2525M-09	25	25	150	25	32			

External Turning Tools 外徑車刀桿



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 -2525M-12	25	25	150	25	32			

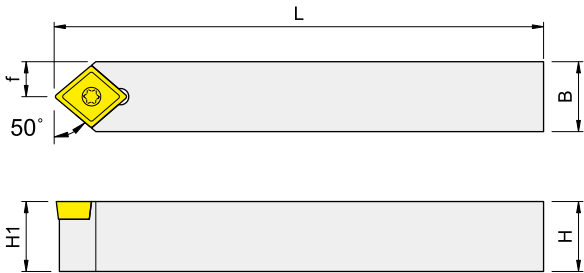
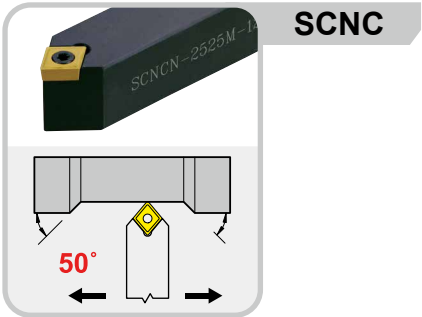


Right-hand shown

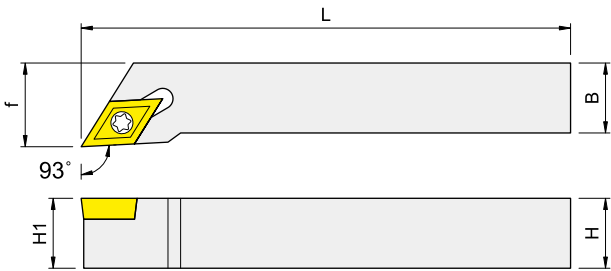
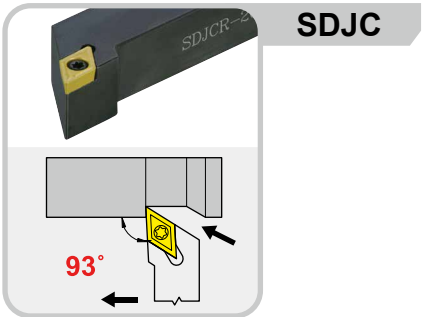
Order No. 訂購編碼	Dimensions, mm					Insert	Clamp	Wrench
	H	B	L	H1	f			
ISCL2C ^R / _L -1010H-06	10	10	100	10	10	CC..0602..	IMS2506A	ITK09
ISCL2C ^R / _L -1212H-09	12	12	100	12	12			
ISCL2C ^R / _L -1616K-09	16	16	125	16	16	CC..09T3..	IMS4011A	ITK15
ISCL2C ^R / _L -2020K-09	20	20	125	20	25			

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	CC..1204..	IMS5011A	ITK20
ISCNCN-2020K-12	20	20	125	20	10			
ISCNCN-2525M-12	25	25	150	25	12.5			

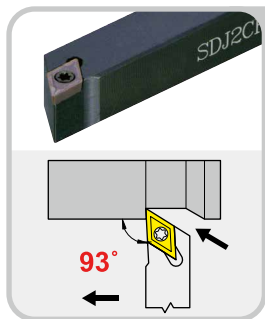


Right-hand shown

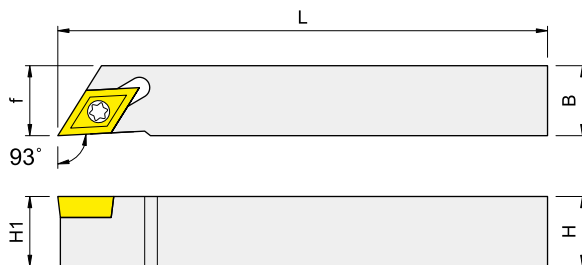
Order No. 訂購編碼	Dimensions, mm					Insert	Clamp	Wrench
	H	B	L	H1	f			
ISDJC ^R / _L -1010H-07	10	10	100	10	12	DC..0702..	IMS2506B	ITK09
ISDJC ^R / _L -1212H-07	12	12	100	12	16			
ISDJC ^R / _L -1212K-07	12	12	125	12	16			
ISDJC ^R / _L -1616K-07	16	16	125	16	20			
ISDJC ^R / _L -2020K-07	20	20	125	20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

External Turning Tools

外徑車刀桿

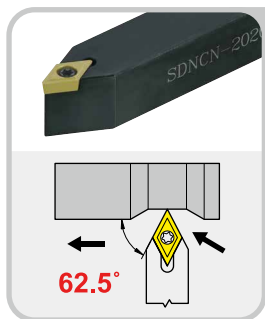


SDJ2C

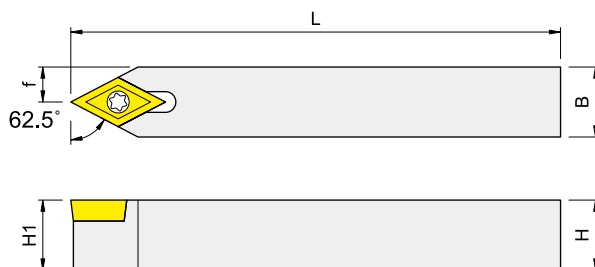


Right-hand shown

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			



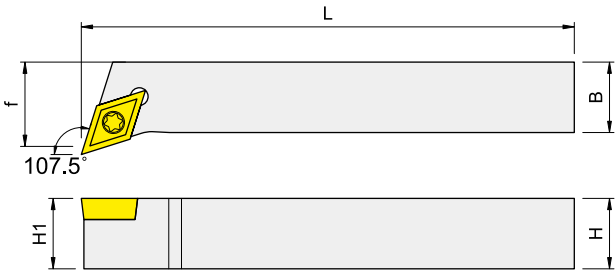
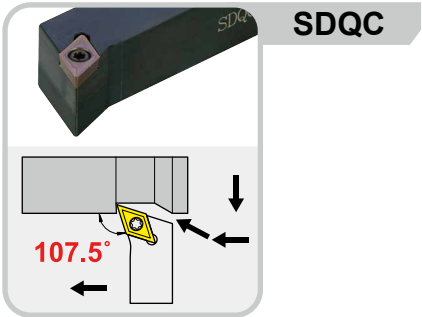
SDNC



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			

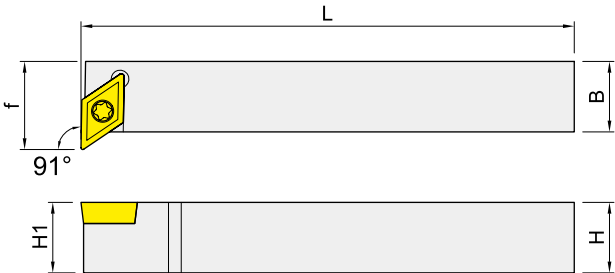
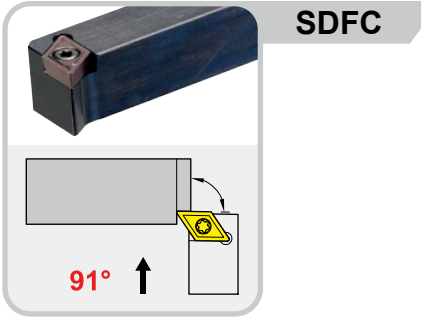
External Turning Tools

外徑車刀桿



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			

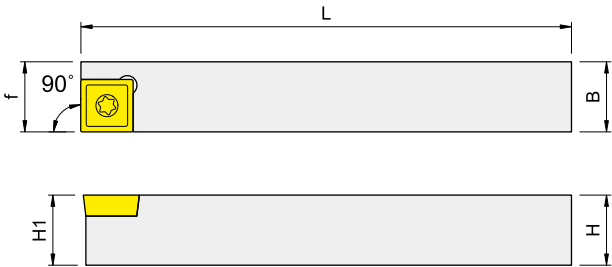
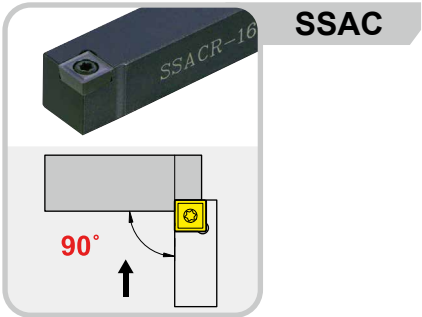


Right-hand shown

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			

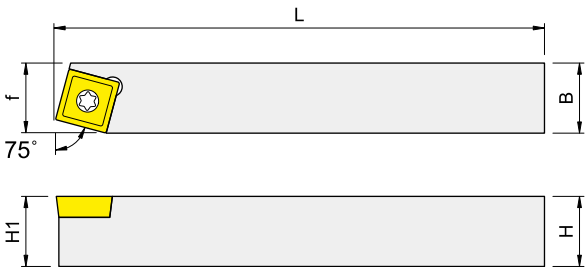
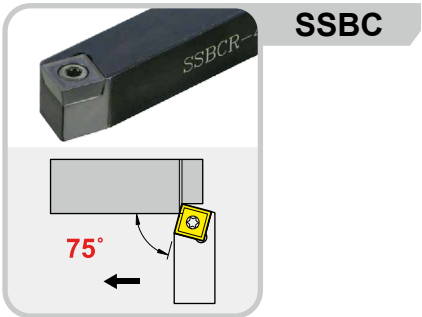
External Turning Tools

外徑車刀桿



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			

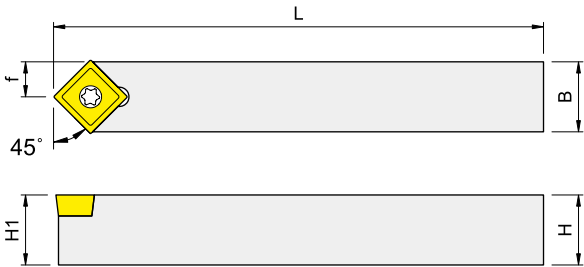
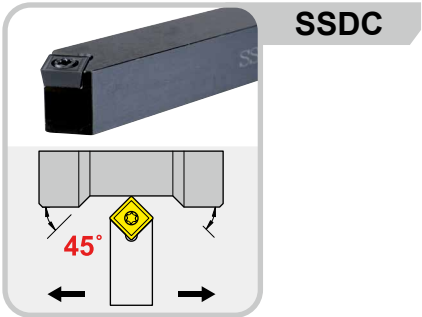


Right-hand shown

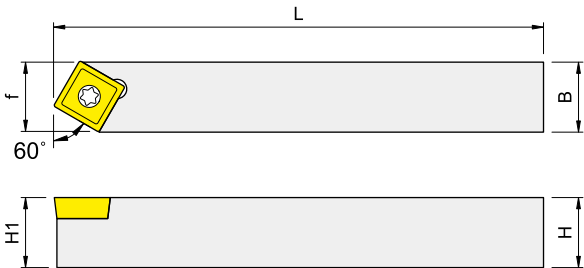
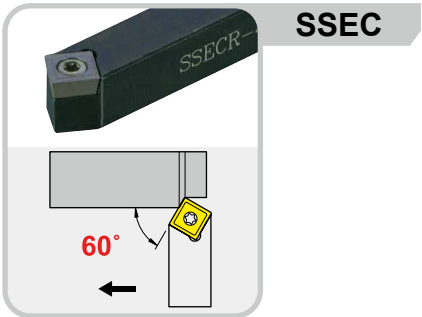
Order No. 訂購編碼	Dimensions, mm					Insert	Clamp 	Wrench 
	H	B	L	H1	f			
ISSBC ^R / _L -3.4H-09	9.5	12.7	100	9.5	12.7	SC..09T3..	IMS4009A	ITK15
ISSBC ^R / _L -4.4H-09	12.7	12.7	100	12.7	12.7		IMS4011A	ITK15
ISSBC ^R / _L -1212H-09	12	12	100	12	12			

External Turning Tools

外徑車刀桿

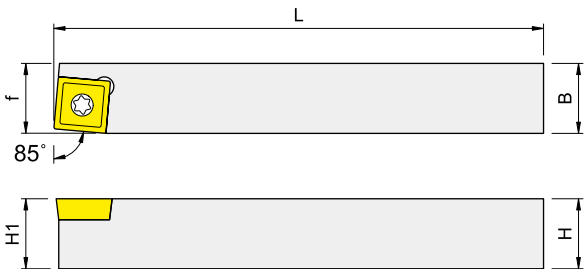
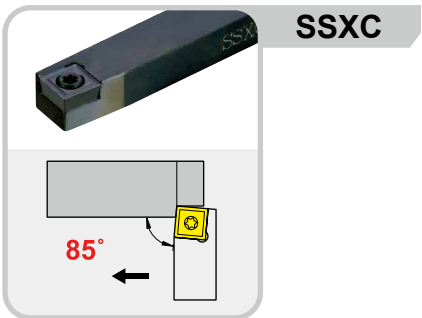


Order No. 訂購編碼	Dimensions, mm					Insert	Clamp	Wrench
	H	B	L	H1	f			
ISSDCN-3.4H-09	9.5	12.7	100	9.5	6.35	SC..09T3..	IMS4009A	ITK15
ISSDCN-4.4H-09	12.7	12.7	100	12.7	6.35	SC..09T3..	IMS4011A	ITK15
ISSDCN-1212H-09	12	12	100	12	6			
ISSDCN-1616K-09	16	16	125	16	8			
ISSDCN-2020K-09	20	20	125	20	10			
ISSDCN-2525M-09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

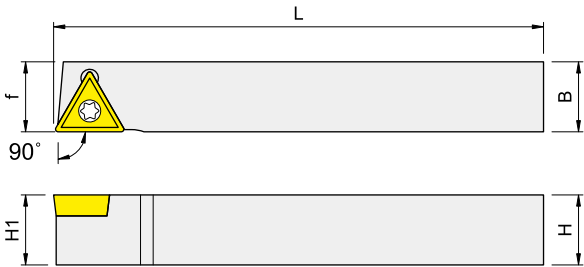
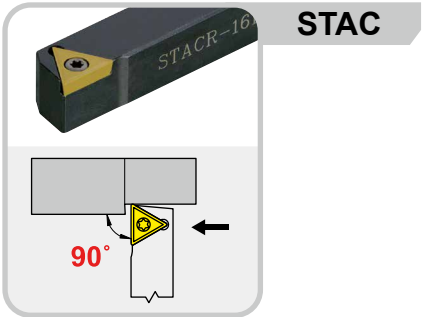


Right-hand shown

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

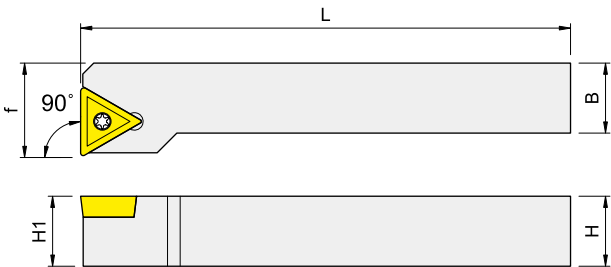
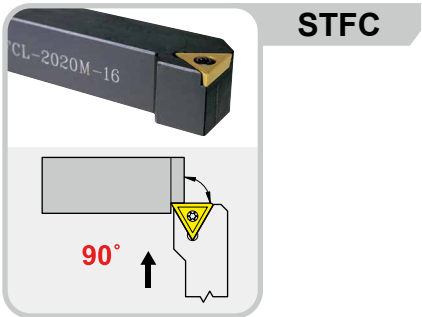
External Turning Tools

外徑車刀桿



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			

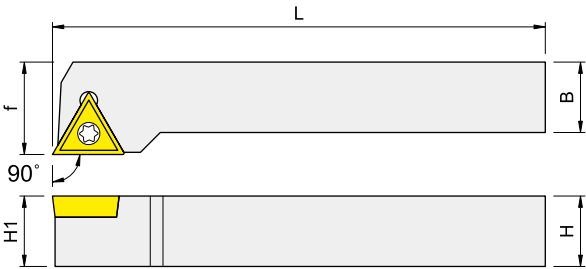
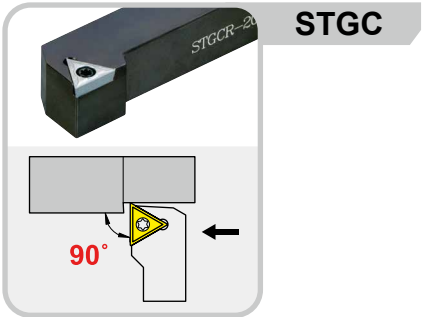


Right-hand shown

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			

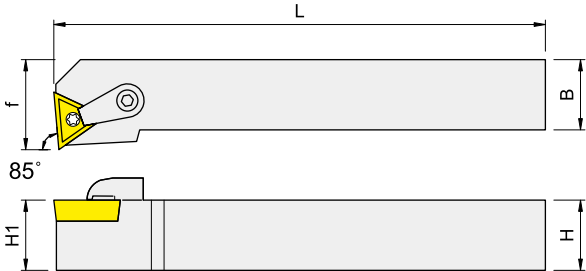
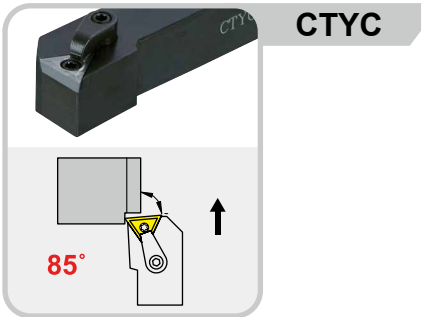
External Turning Tools

外徑車刀桿



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			

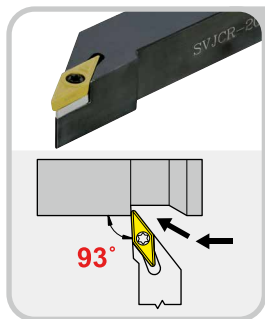


Right-hand shown

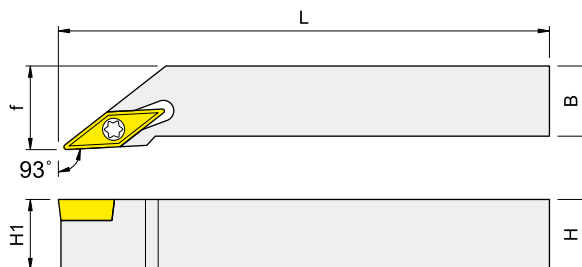
Order No. 訂購編碼	Dimensions, mm					Insert	Screw 	Wrench 	Screw 	Clamp 	Wrench 
	H	B	L	H1	f						
ICTYC ^R _L -2020K-16	20	20	125	20	25	TC..16T3..	IMS4011A	ITK15	IMS625TX	IMC620	IETL15

External Turning Tools

外徑車刀桿

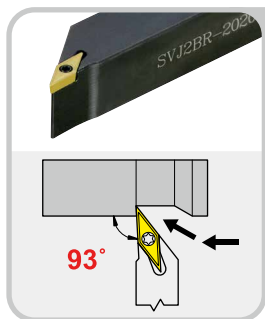


SVJB

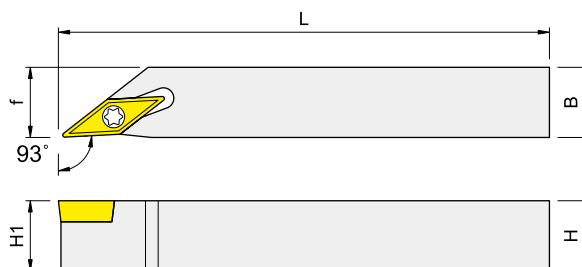


Right-hand shown

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

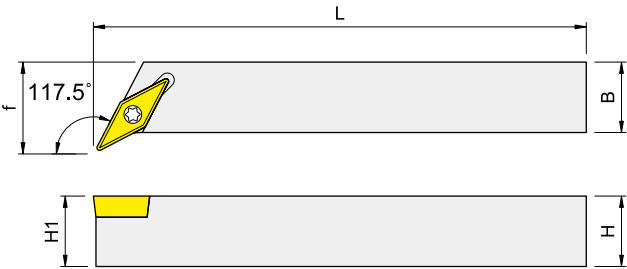


Right-hand shown

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						

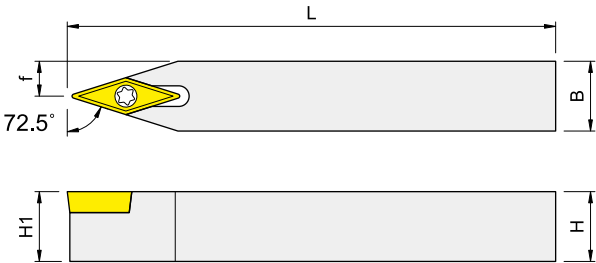
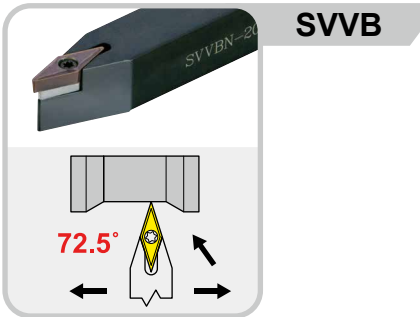
External Turning Tools

外徑車刀桿



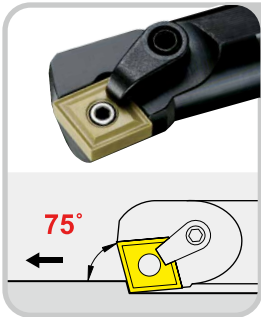
Right-hand shown

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						



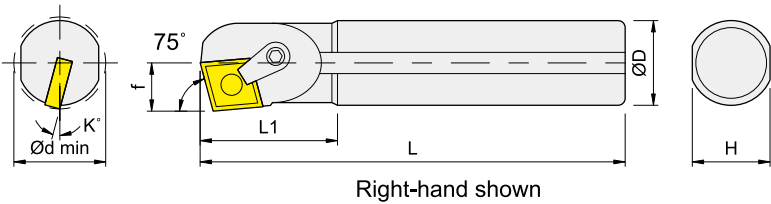
Order No. 訂購編碼	Dimensions, mm					Insert	Screw	Wrench	Screw	Clamp	Wrench
	H	B	L	H1	f						
ISVVBN-1616K-16	16	16	125	16	8	VB..1604..	IVSS322	IMDS5035S	IPL35	IMS3512B	ITK15
ISVVBN-2020K-16	20	20	125	20	10						
ISVVBN-2525M-16	25	25	150	25	12.5						
ISVVCN-1010H-11	10	10	100	10	5	VC..1103..	--	--	--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

Internal Turning Tools 內徑車刀桿

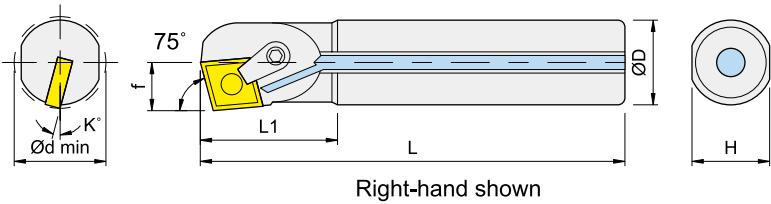


MCKN

■ S.-MCKNR/L-12 Steel shank

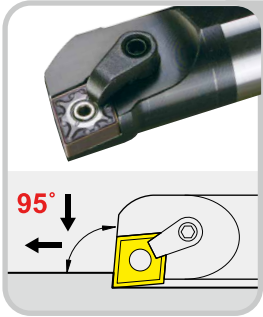


■ A.-MCKNR/L-12 Steel shank+coolant hole



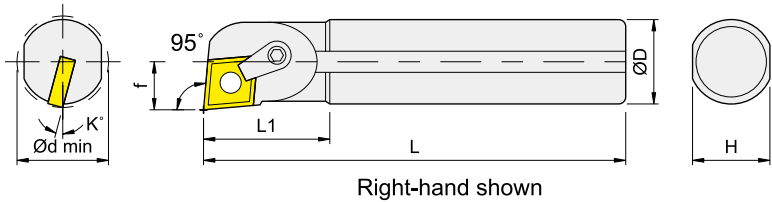
Order No. 訂購編碼	Dimensions, mm							Insert	Shim	Pin	Wrench	Clamp	Screw	Wrench
	D	L	L1	f	H	K	dmin							
IS20R-MCKN ^R / _L -12	20	200	40	13	18	15	25	CN..1204..	--	IMLP44-A	IPL25	IMC620	IMS620TX	IETL15
IS25R-MCKN ^R / _L -12	25	200	40	15.5	23	13	30							
IS32S-MCKN ^R / _L -12	32	250	48	19.5	30	13	40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

Internal Turning Tools 內徑車刀桿

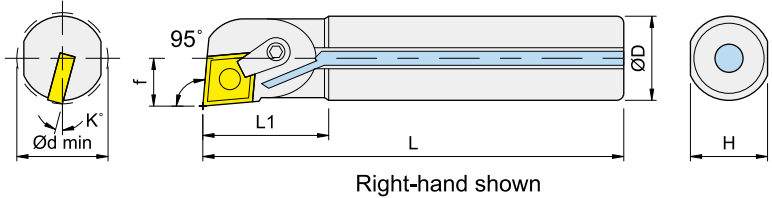


MCLN

S..-MCKNR/L-12 Steel shank



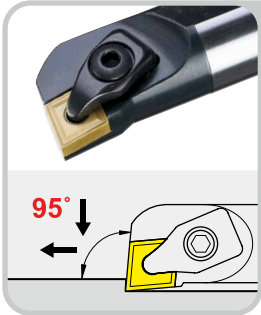
A..-MCKNR/L-12 Steel shank+coolant hole



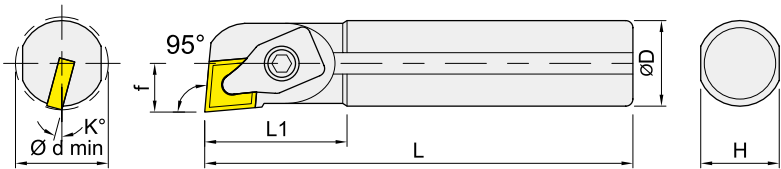
Order No. 訂購編碼	Dimensions, mm							Insert	Shim	Pin	Wrench	Clamp	Screw	Wrench
	D	L	L1	f	H	K	dmin							
IS20R-MCLN ^R / _L -12	20	200	40	13	18	15	25	CN..1204..	--	IMLP44-A	IPL25	IMC620	IMS620TX	IETL15
IS25R-MCLN ^R / _L -12	25	200	40	15.5	23	13	30		ICMS432	IMLP46-A	IPL25		IMS625TX	
IS32S-MCLN ^R / _L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

Turning

Internal Turning Tools 內徑車刀桿

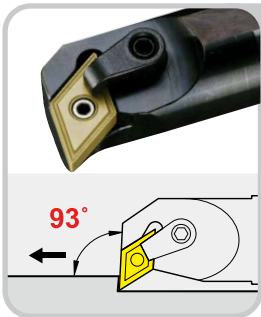


DCLN



Right-hand shown

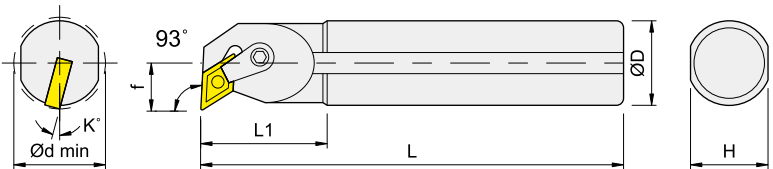
Order No. 訂購編碼	Dimensions, mm							Insert	Shim	Screw	Wrench	Clamp	Wrench
	D	L	L1	f	H	K	dmin						
IS20R-DCLN ^R / _L -12	20	200	40	14	18	15	28	CN..1204..	--	--	--	IMCD425	IETL20
IS25R-DCLN ^R / _L -12	25	200	40	15	23	15	30						



MDUN

S..-MDUNR/L-15

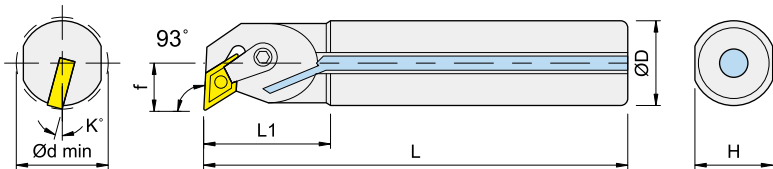
Steel shank



Right-hand shown

A..-MDUNR/L-15

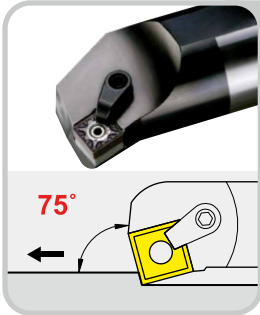
Steel shank+coolant hole



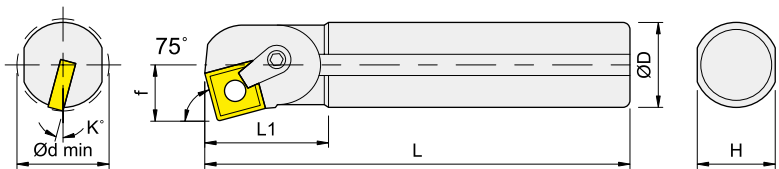
Right-hand shown

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	

Internal Turning Tools 內徑車刀桿

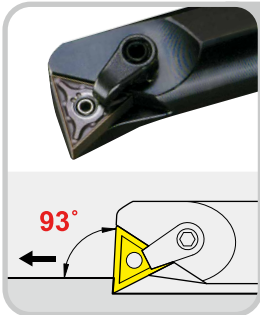


MSKN



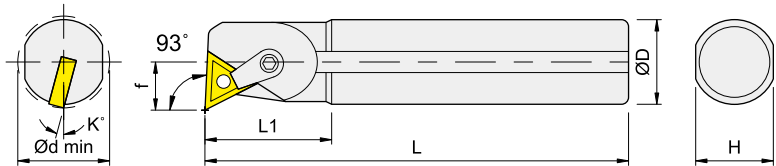
Right-hand shown

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							



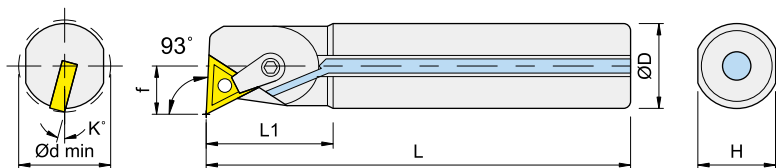
MTUN

S..-MTUNR/L-16 Steel shank



Right-hand shown

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

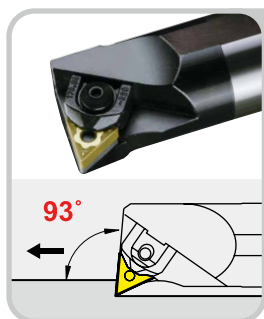


Right-hand shown

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

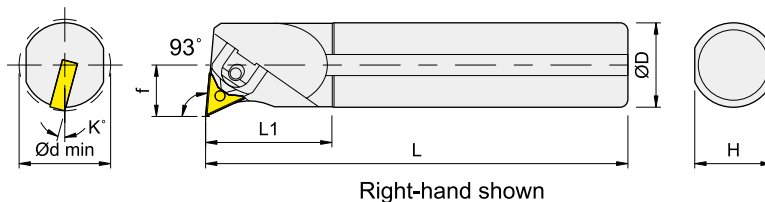
Internal Turning Tools

內徑車刀桿



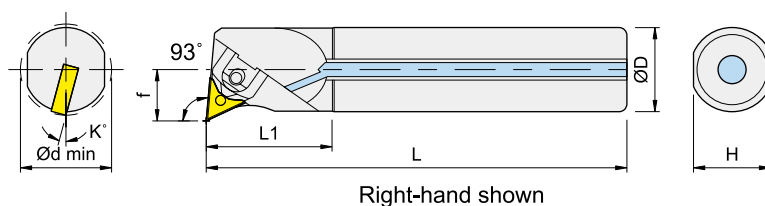
WTUN

■ S.-WTUNR/L-16 Steel shank

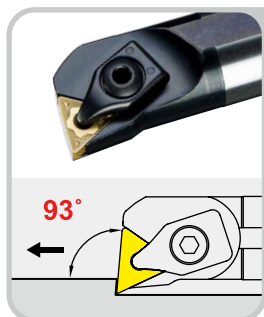


■ A.-WTUNR/L-16 Steel shank+coolant

hole

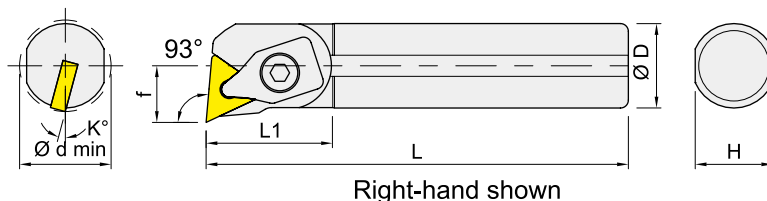


Order No. 訂購編碼	Dimensions, mm							Insert	Shim 	Pin 	Clamp 	Wrench 
	D	L	L1	f	H	K	dmin					
IS32S-WTUN ^R / _L -16	32	250	48	19.5	30	13	40	TN..1604..	ITMS322	ISCP315	IMCW3-P25	IPL25
IS40T-WTUN ^R / _L -16	40	300	55	25.5	37	10	50			ISCP318		
IS40U-WTUN ^R / _L -16	40	350	55	25.5	37	10	50					
IS50U-WTUN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



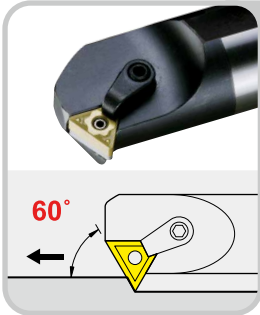
DTUN

■ S.-DTUNR/L-16 Steel shank



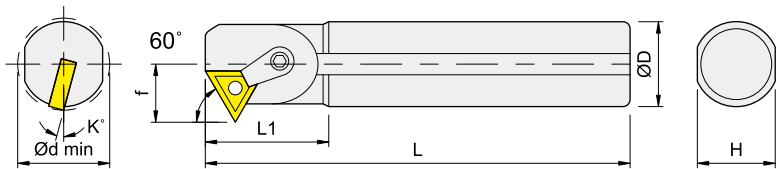
Order No. 訂購編碼	Dimensions, mm							Insert						
	D	L	L1	f	H	K	dmin							
IS20R-DTUN ^R /L-16	20	200	40	14	18	15	28	TN..1604..	--	--	--	IMCD324	IETL20	
IS25R-DTUN ^R /L-16	25	200	40	15.5	23	13	30		ITWS322	IMS4008H	IPL25			
IS32S-DTUNR-16	32	250	48	19.5	30	13	40							

Internal Turning Tools 內徑車刀桿



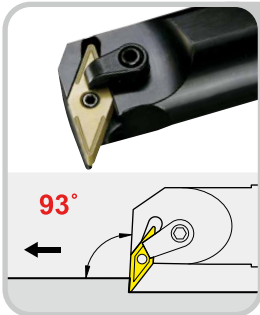
MTWN

S.-MTWNR/L-16 Steel shank



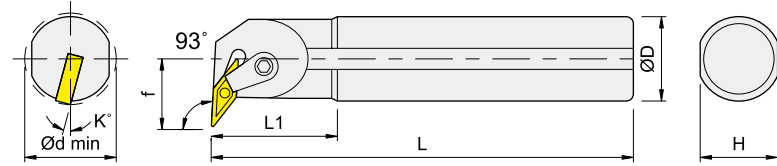
Right-hand shown

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					IMC620	IMS625TX	IETL15
IS32S-MTWN ^R /L-16	32	250	48	20	30	13	40							



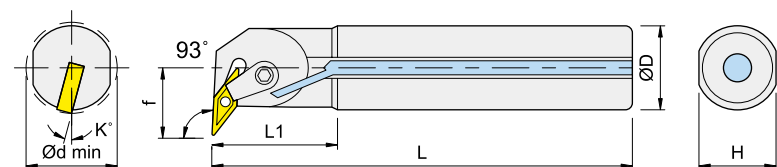
MVUN

S.-MVUNR/L-16 Steel shank



Right-hand shown

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

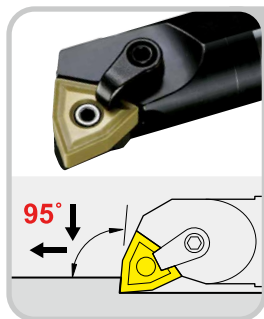


Right-hand shown

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

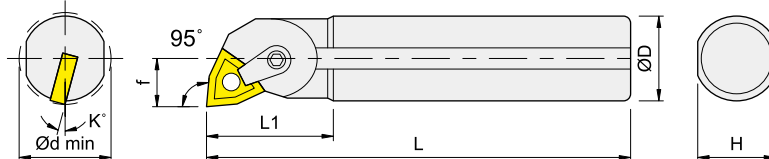
Internal Turning Tools

內徑車刀桿



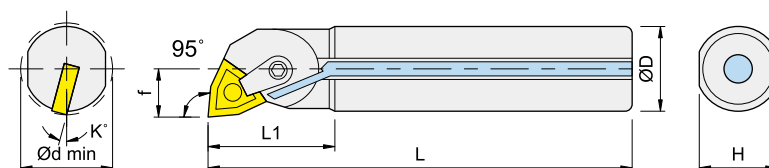
MWLN

■ S..MWLNR/L-08 Steel shank



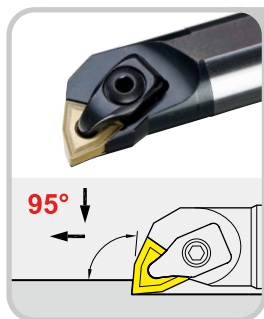
Right-hand shown

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



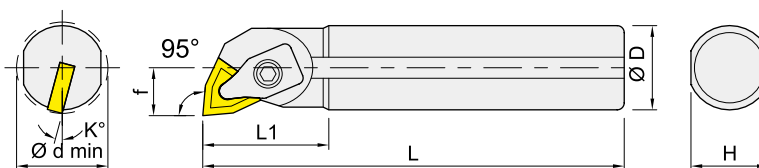
Right-hand shown

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							
IS50U-MWLN ^R /L-08	50	350	60	30.5	47	9	60							
IS60V-MWLN ^R /L-08	60	400	60	35.5	57	8	70							
IA20R-MWLN ^R /L-08	20	200	36	13	18	15	25		--	IMLP44-A		IMC515	IMS520TX	IETL10
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

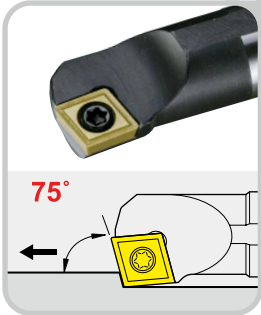
■ S..DWLNR/L-.. Steel shank



Right-hand shown

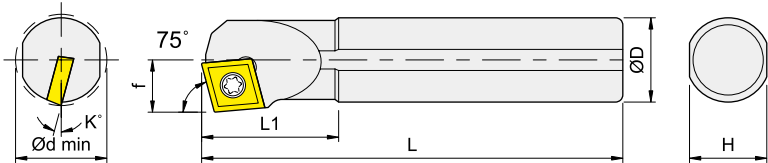
Order No. 訂購編碼	Dimensions, mm							Insert	Shim	Screw	Wrench	Clamp	Wrench
	D	L	L1	f	H	K	dmin						
IS20R-DWLN ^R /L-08	20	200	40	14	18	15	28	WN..0804..	--	--	--	IMCD425	IETL20
IS25R-DWLN ^R /L-08	25	200	40	15	23	13	30						

Internal Turning Tools 內徑車刀桿



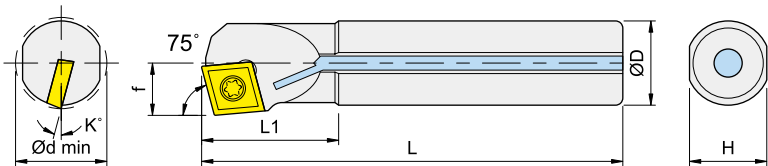
SCKC

S..-SCKC/PR/L-.. Steel shank



Right-hand shown

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

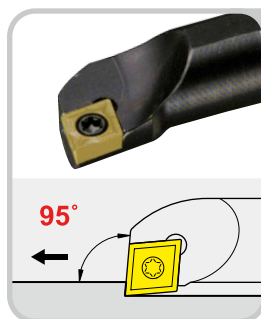


Right-hand shown

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			

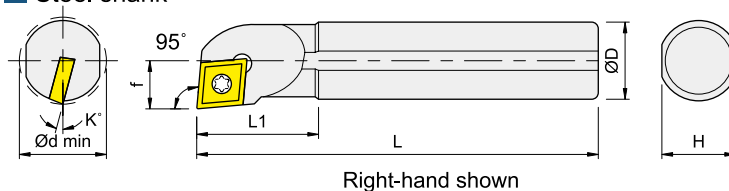
Internal Turning Tools

內徑車刀桿



SCLC

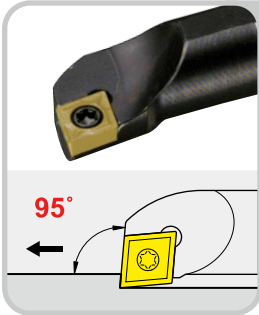
Steel shank



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	CC..09T3..	IMS4008A	ITK15
IS12M-SCLC ^R / _L -09	12	150	26	8	11	10	16			
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-SCLC ^R / _L -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			

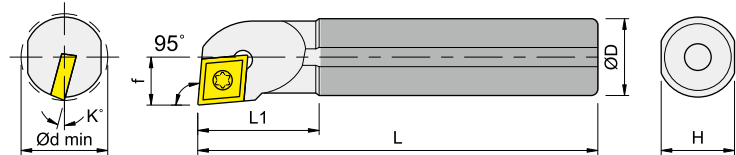
Steel Shank + Coolant										
IA08K-SCLC ^R / _L -06	8	125	20	5	7	15	10	CC..0602..	IMS2506A	ITK09
IA08K-SCLC ^R / _L -06-D09	8	125	20	4.5	7	15	9			
IA10K-SCLC ^R / _L -06	10	125	22	6	9	13	12			
IA10K-SCLC ^R / _L -06-D11	10	125	22	5.5	9	13	11			
IA12M-SCLC ^R / _L -06	12	150	26	8	11	10	16			
IA12M-SCLC ^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	CC..09T3..	IMS4008A	ITK15
IA12M-SCLC ^R / _L -09	12	150	26	8	11	10	16			
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			
IA32S-SCLC ^R / _L -12	32	250	48	20	30	5	38	CC..1204..	IMS5011A	ITK20

Internal Turning Tools 內徑車刀桿



SCLC

Carbide shank

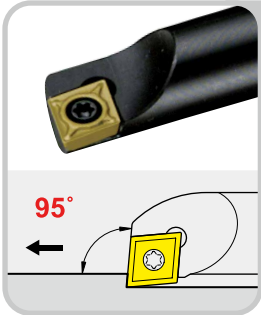


Right-hand shown

Order No. 訂購編碼	Dimensions, mm							Insert	Screw	Wrench
	D	L	L1	f	H	K	dmin			
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			

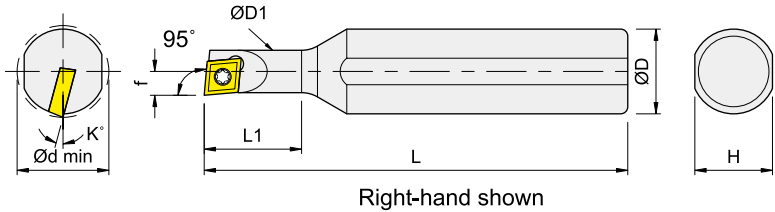
Turning

Internal Turning Tools 內徑車刀桿

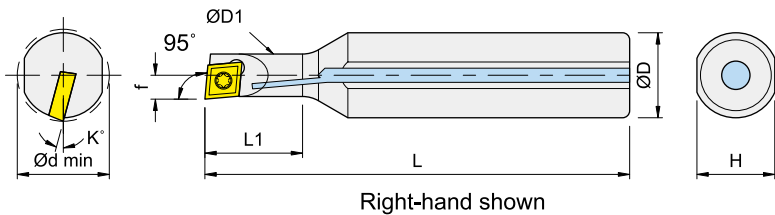


SCLC

■ S..-SCLCR/L-.. Steel shank

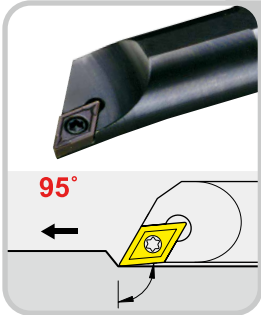


■ A..-SCLCR/L-.. Steel shank+coolant hole



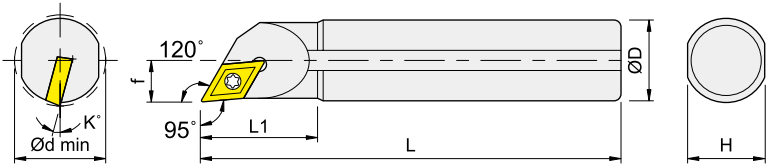
Order No. 訂購編碼	Dimensions, mm								Insert	Screw 	Wrench 
	D	D1	L	L1	f	H	K	dmin			
IS1607K-SCLC ^R / _L -06	16	7	125	20	4	15	13	8	CC..0602..	IMS2506A	ITK09
IS1608K-SCLC ^R / _L -06A	16	8	125	20	4.5	15	11	9			
IS1608K-SCLC ^R / _L -06	16	8	125	25	4.5	15	11	9			
IS1609K-SCLC ^R / _L -06	16	9	125	25	5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

Internal Turning Tools 內徑車刀桿



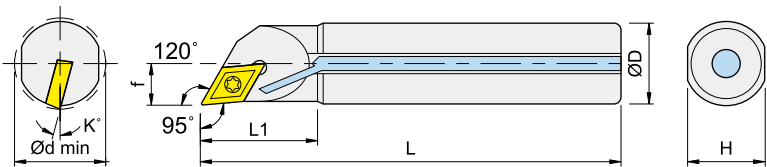
SDJC

S..-SDJCR/L... Steel shank



Right-hand shown

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

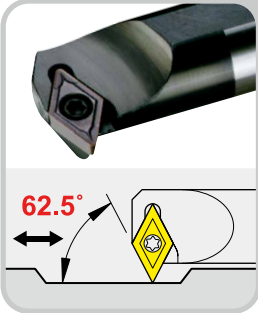


Right-hand shown

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			

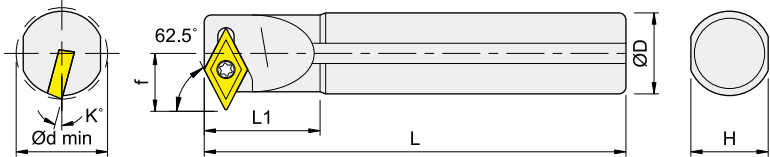
Turning

Internal Turning Tools 內徑車刀桿



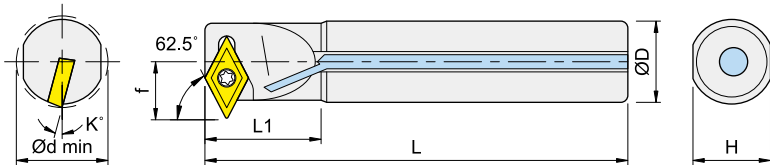
SDNC

■ S..-SDNCR/L-.. Steel shank



Right-hand shown

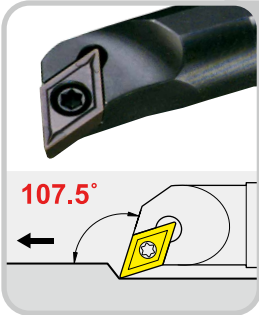
■ A..-SDNCR/L-.. Steel shank+coolant hole



Right-hand shown

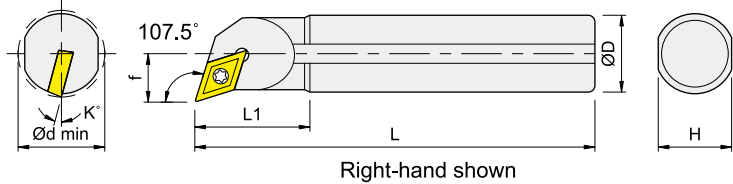
Order No. 訂購編碼	Dimensions, mm							Insert	Screw 	Wrench 
	D	L	L1	f	H	K	dmin			
IS12M-SDNC ^R / _L -07	12	150	25	9	11	7	16	DC..0702..	IMS2506B	ITK09
IS16Q-SDNC ^R / _L -07	16	180	30	11	15	7	20			
IS20R-SDNC ^R / _L -11	20	200	35	15	18	7	25	DC..11T3..	IMS4009A	ITK15
IS25R-SDNC ^R / _L -11	25	200	35	17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

Internal Turning Tools 內徑車刀桿

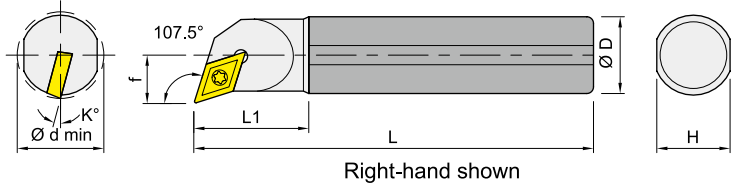


SDQC

Steel shank



Carbide shank

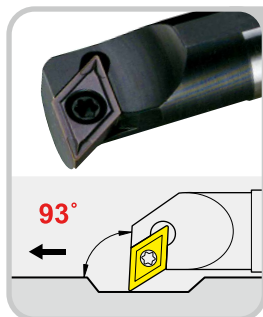


Order No. 訂購編碼	Dimensions, mm							Insert	Screw 	Wrench 
	D	L	L1	f	H	K	dmin			
Steel Shank										
IS10K-SDQC ^R / _L -07	10	125	22	6.5	9	13	13	DC..0702..	IMS2506B	ITK09
IS12M-SDQC ^R / _L -07	12	150	30	8	11	10	16			
IS16Q-SDQC ^R / _L -07	16	180	35	10.25	15	7	20			
IS20R-SDQC ^R / _L -07	20	200	40	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			
Carbide Shank										
IC10M-SDQCR-07	10	150	22	6	9.2	13	13	DC..0702..	IMS2506B	ITK09
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			

Steel Shank + Coolant										
IA10K-SDQC ^R / _L -07	10	125	22	6.5	9	13	13	DC..0702..	IMS2506B	ITK09
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	DC..11T3..	IMS4009A	ITK15
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			
IA50U-SDQCR/L-11	50	350	60	30	47	2	60			

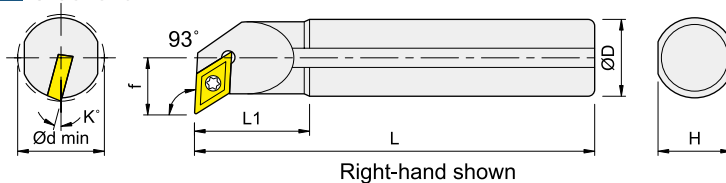
Internal Turning Tools

內徑車刀桿

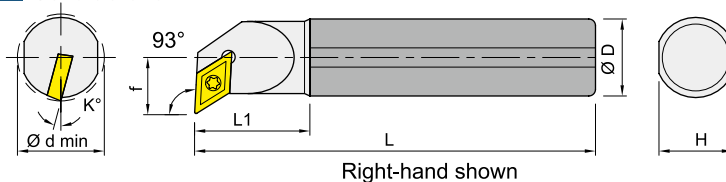


SDUC

Steel shank



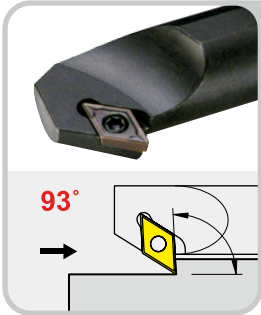
Carbide shank



Order No. 訂購編碼	Dimensions, mm							Insert	Screw 	Wrench 
	D	L	L1	f	H	K	dmin			
Steel Shank										
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			
Carbide Shank										
IC10M-SDUCR-07	10	150	25	7	9.2	13	13	DC..0702..	IMS2506B	ITK09
IC12Q-SDUCR-07	12	180	30	8.5	11.2	10	16			
IC16R-SDUCR-11	16	200	30	11	15.2	7	20	DC..11T3..	IMS4009A	ITK15

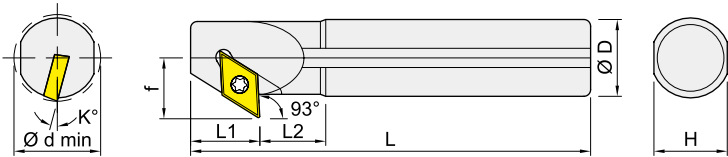
Steel Shank + Coolant										
IA10K-SDUC ^R / _L -07	10	125	25	7	9	13	13	DC..0702..	IMS2506B	ITK09
IA12M-SDUC ^R / _L -07	12	150	30	8.5	11	10	16			
IA16Q-SDUC ^R / _L -07	16	180	30	11	15	7	20			
IA16Q-SDUC ^R / _L -11	16	180	30	11	15	7	20	DC..11T3..	IMS4009A	ITK15
IA20R-SDUC ^R / _L -11	20	200	40	12.5	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			

Internal Turning Tools 內徑車刀桿



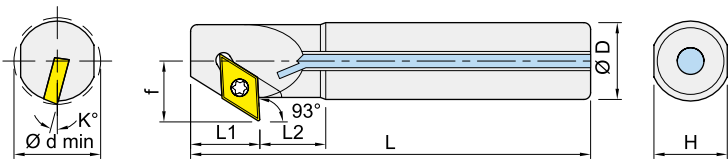
SDZC

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



Right-hand shown

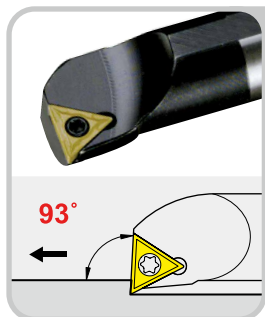
A...SDZCR/L... Steel shank+coolant hole



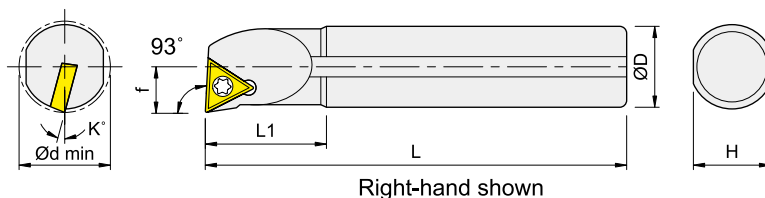
Right-hand shown

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			

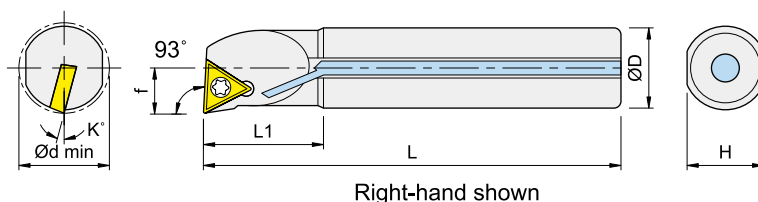
Turning

**STUC**

■ S.-STUCR/L-... Steel shank

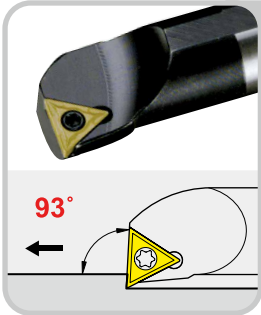


■ A.-STUCR/L-... Steel shank+coolant hole



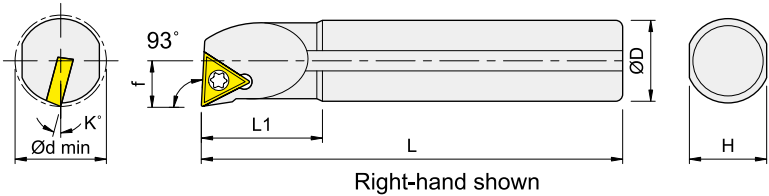
Order No. 訂購編碼	Dimensions, mm							Insert	Screw 	Wrench 
	D	L	L1	f	H	K	dmin			
IS08K-STUC ^R / _L -09	8	125	20	5.5	7	15	10	TC..0902..	IMS2205A	ITK07
IS10K-STUC ^R / _L -09	10	125	22	6	9	13	12			
IS10K-STUC ^R / _L -09-D11	10	125	22	5.5	9	13	11			
IS12M-STUCR-09	12	150	26	8	11	10	16			
IS14M-STUCR-09	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			
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			

Internal Turning Tools 內徑車刀桿

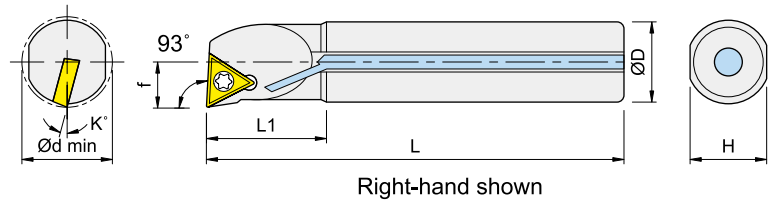


STUP

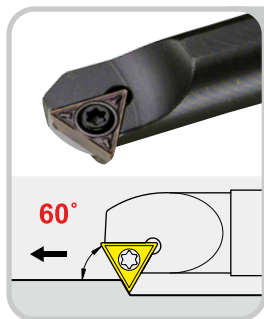
S...STUPR/L... Steel shank



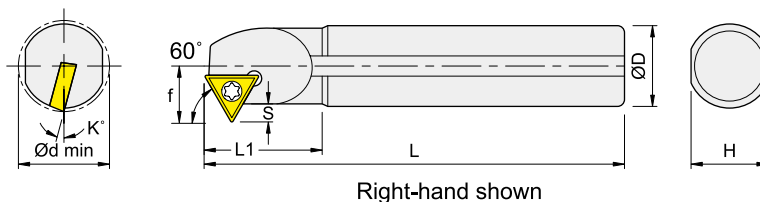
A...STUPR/L... Steel shank+coolant hole



Order No. 訂購編碼	Dimensions, mm							Insert	Screw 	Wrench 
	D	L	L1	f	H	K	dmin			
S20R-STUP ^R / _L -1603	20	200	40	13	18	4	25	TP..1603..	IMS4011A	ITK15
S25R-STUP ^R / _L -1603	25	200	40	16	23	0	30			
S32R-STUP ^R / _L -1603	32	250	48	20	30	0	38			
A20R-STUP ^R / _L -1603	20	200	40	13	18	4	25			
A25R-STUP ^R / _L -1603	25	200	40	16	23	0	30			
A32R-STUP ^R / _L -1603	32	250	48	20	30	0	38			

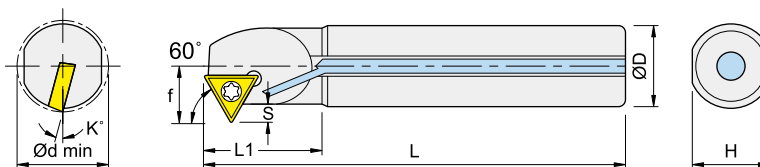
**STWC**

■ S...-STWCR/L... Steel shank



Right-hand shown

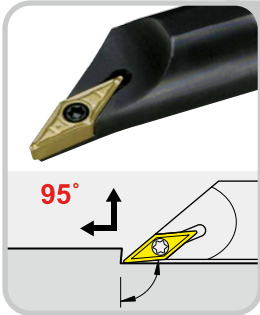
■ A...-STWCR/L... Steel shank+coolant hole



Right-hand shown

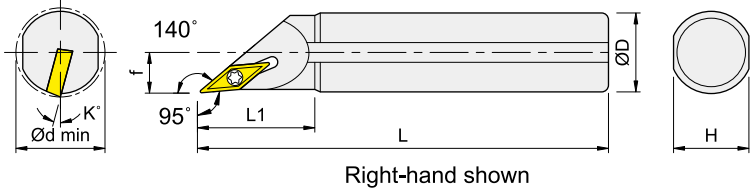
Order No. 訂購編碼	Dimensions, mm								Insert	Screw	Wrench
	D	L	L1	f	S	H	K	dmin			
IS08K-STWC ^R /L-09	8	125	23	6	2	7	15	11	TC..0902..	IMS2205A	ITK07
IS10K-STWC ^R /L-11	10	125	23	7.5	2.5	9	15	13	TC..1102..	IMS2506A	ITK09
IS12M-STWC ^R /L-11	12	150	30	8.5	2.5	11	13	16			
IS16Q-STWC ^R /L-11	16	180	30	10.5	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			

Internal Turning Tools 內徑車刀桿



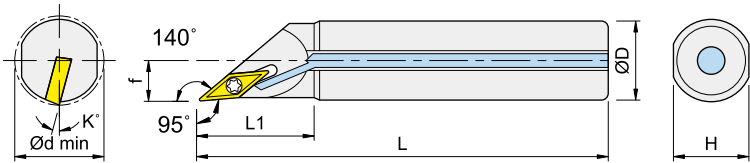
SVJB

S..-SVJBR/L-.. Steel shank



Right-hand shown

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

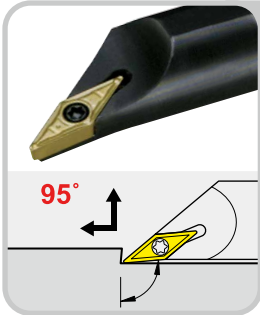


Right-hand shown

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			

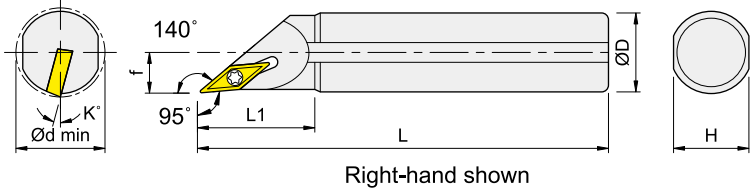
Turning

Internal Turning Tools 內徑車刀桿



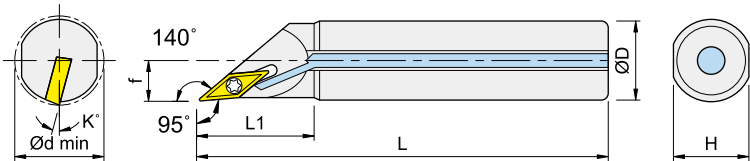
SVJC

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



Right-hand shown

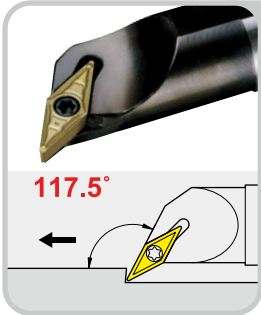
A..-SVJCR/L-.. Steel shank+coolant hole



Right-hand shown

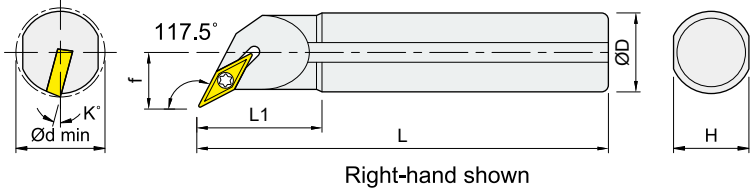
Order No. 訂購編碼	Dimensions, mm							Insert	Screw 	Wrench 
	D	L	L1	f	H	K	dmin			
IC10K-SVJC ^R / _L -11	10	125	25	6	9	13	12	VC..1103..	IMS2506A	ITK09
IC12M-SVJC ^R / _L -11	12	150	30	7	11	10	14			
IC16Q-SVJC ^R / _L -11	16	180	38	9.5	15	7	19			
IC20R-SVJC ^R / _L -11	20	200	42	11.5	18	7	23			
IE10K-SVJC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

Internal Turning Tools 內徑車刀桿



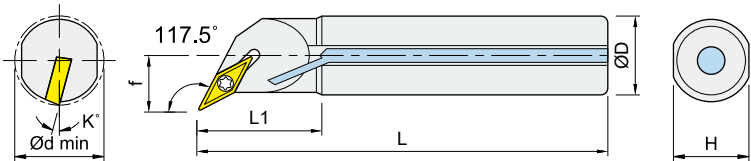
SVQB

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



Right-hand shown

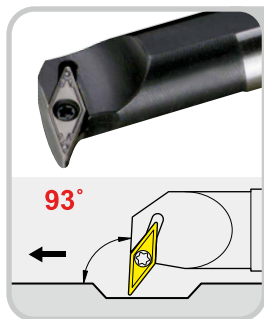
A..SVQB/CR/L-.. Steel shank+coolant hole



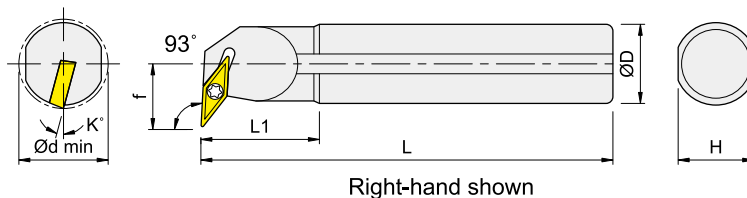
Right-hand shown

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	

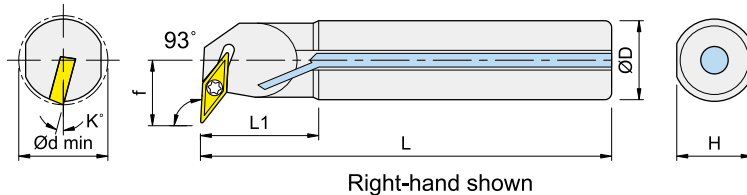
Turning

**SVUB**

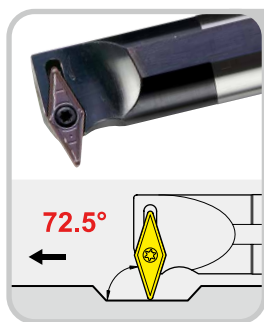
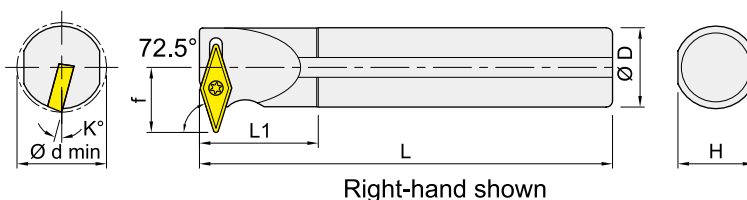
■ S..-SVUBR/L-.. Steel shank



■ 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.	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						
IS32S-SVVB ^R / _L -16	32	250	50	25	30	5	42	VB..1604..	IVSS322	IMDS5035S	IPL35	IMS3512B	ITK15