

Tooling Systems

Polygon Shank Style & Cartridges

G1 to G32

G

Tooling

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Cartridges



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Stock Markings and Symbols

★ Worldwide Warehouse Item
Blank: Made-to-order item
- mark: Not available

G1

Tooling Systems

■ Tooling Systems

Application	System Name		Feature	Ref. Page
Turning	ICTM STANDARD		Shanks for turning applications in multi-tasking machines, conforming to the ICTM (Interface Committee for Turning Mill) Standard. Compatible with HSK-A type, tools can be shared between multi-tasking machines and machining centers. <i>Compliant with ISO standard ISO12164-3:2008.</i>	G3 ~
	HSK Tooling System		Polygonal keyless coupling system achieves an indexing accuracy of $\pm 2\mu\text{m}$. Supports both turning and rotating tools. <i>Compliant with ISO standard ISO26623-1:2008.</i>	G8 ~
Milling	Smart Damper™		A special anti-vibration mechanism is built in to utilize high-efficiency and high quality machining with a long overhang.	G24 ~
	IGETALLOY ABS System		This quick change system for round tools uses an unique mechanism with a strong holding force. The system offers high rigidity and precision, and exhibits good indexing accuracy during tool changes.	G26 ~
	Modular Taper Shank		Achieving high-precision machining by increasing rigidity at high-speed rotations with two locating faces on the taper and flange, along with an excellent clamping mechanism. <i>Compliant with ISO standard ISO 26622-1:2008.</i>	G28
	HSK Tooling System		The ISO standard for milling shanks with 2 locating faces.	G28

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HSK Tooling System



ICTM
STANDARD

HSK TOOLING SYSTEM
ARE MADE TO ORDER ITEMS

■ Features

The HSK tooling system has been adopted by Japan's 17 major machine tool manufacturers as the interface for turning tools in multi-tasking machines. It is based on the ICTM (Interface Committee for Turning Mill) standard. Based on the ISO standard HSK shank, this system is designed to improve precision in turning applications, and is compatible with the HSK-A type that is widely used on machining centers.

* Catalog numbers have been changed due to ISO standardization (ISO 12164-3:2008).

For support with non-standard specifications, contact us directly.

General External Turning and Profiling
Double Clamp

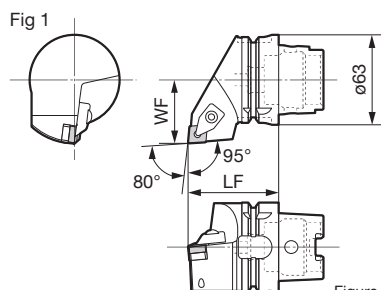
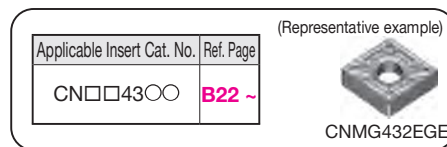


Figure shows right hand (R) tool.

Insert



Holder

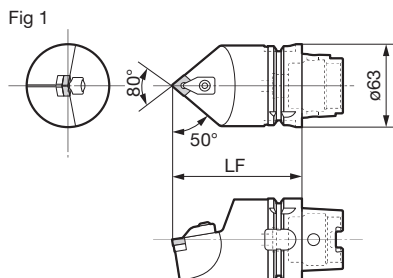
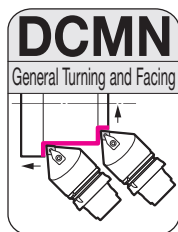
Parts

Dimensions (mm)

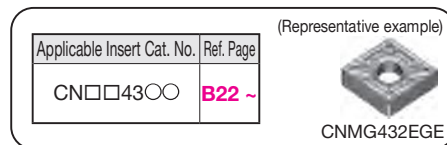
Cat. No.	Previous Cat. No.	Stock		Overhang LF	Cutting Edge WF	Fig	Clamp Set		Shim	Shim Screw	Wrench for Shim	Wrench
		R	L				SCP-2	N-m				
HSK63TH-DCLN R/L-DX12	H63A-WH-DCLN R/L-DX12			65	45	1	SCP-2	5.0	CNS1204	BFTX0409N	TRX15(*)	LH040

*Wrench for shim is sold separately from the main body.

General External Turning and Profiling
Double Clamp



Insert



Holder

Parts

Dimensions (mm)

Cat. No.	Previous Cat. No.	Stock	Overhang LF	Fig	Clamp Set		Shim	Shim Screw	Wrench for Shim	Wrench
					SCP-2	N-m				
HSK63TH-DCMN N-H12	H63A-WH-DCMN N-H12		100	1	SCP-2	5.0	CNS1204	BFTX0409N	TRX15(*)	LH040
HSK63TH-DCMN N-L12	H63A-WH-DCMN N-L12		140	1	SCP-2	5.0	CNS1204	BFTX0409N	TRX15(*)	LH040

*Wrench for shim is sold separately from the main body.

Recommended Tightening Torque (N·m)

Tooling

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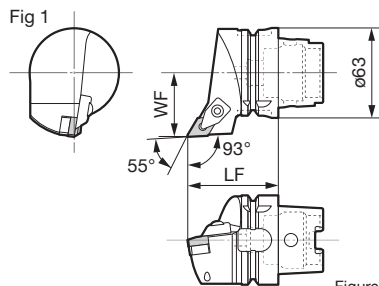
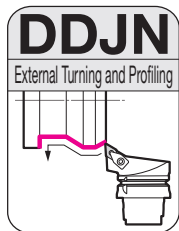
HSK Tooling System

Tooling

G

Tooling

Cartridges



**HSK TOOLING SYSTEM
ARE MADE TO ORDER ITEMS**

General External Turning and Profiling
Double Clamp

Insert

Applicable Insert Cat. No.	Ref. Page
DN□□43□□	B32 ~

(Representative example)



DNMG432EGE

Figure shows right hand (R) tool.

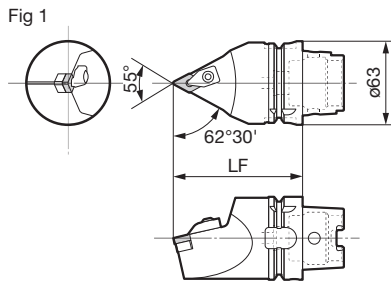
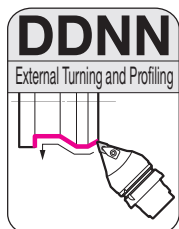
Holder

Parts

Dimensions (mm)

Cat. No.	Previous Cat. No.	Stock		Overhang LF	Cutting Edge WF	Fig	Clamp Set		Shim	Shim Screw	Wrench for Shim	Wrench
		R	L									
HSK63TH-DDJN R/L-DX15	H63A-WH-DDJN R/L-DX15			65	45	1	SCP-2	5.0	DNS1504	BFTX0409N	TRX15(*)	LH040

*Wrench for shim is sold separately from the main body.



General External Turning and Profiling
Double Clamp

Insert

Applicable Insert Cat. No.	Ref. Page
DN□□43□□	B32 ~

(Representative example)



DNMG432EGE

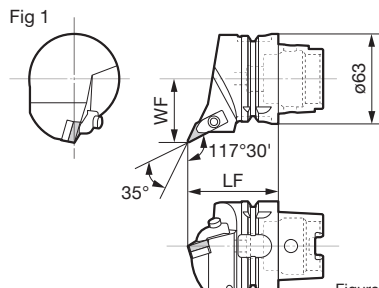
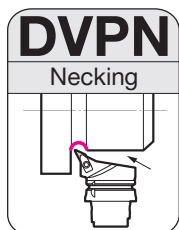
Holder

Parts

Dimensions (mm)

Cat. No.	Previous Cat. No.	Stock	Overhang LF	Fig	Clamp Set		Shim	Shim Screw	Wrench for Shim	Wrench
HSK63TH-DDNN N-H15	H63A-WH-DDNN N-H15		100	1	SCP-2	5.0	DNS1504	BFTX0409N	TRX15(*)	LH040
HSK63TH-DDNN N-L15	H63A-WH-DDNN N-L15		140	1						

*Wrench for shim is sold separately from the main body.



General External Turning and Profiling
Double Clamp

Insert

Applicable Insert Cat. No.	Ref. Page
VN□□33□□	B62 ~

(Representative example)



VNMG332EGE

Figure shows right hand (R) tool.

Holder

Parts

Dimensions (mm)

Cat. No.	Previous Cat. No.	Stock		Overhang LF	Cutting Edge WF	Fig	Clamp Set		Shim	Shim Screw	Wrench for Shim	Wrench
		R	L									
HSK63TH-DVPN R/L-DX16	H63A-WH-DVPN R/L-DX16			65	45	1	SCP-4	5.0	VNS1604	BFTX0307N	TRX10(*)	LH040

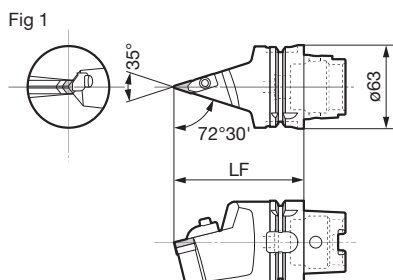
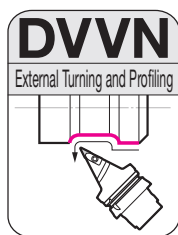
*Wrench for shim is sold separately from the main body.

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Recommended Tightening Torque (N·m)

HSK Tooling System



**HSK TOOLING SYSTEM
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General External Turning and Profiling
Double Clamp

Insert

Applicable Insert Cat. No. Ref. Page		(Representative example)
VN□□3300	B62 ~	 VNMG332EGE

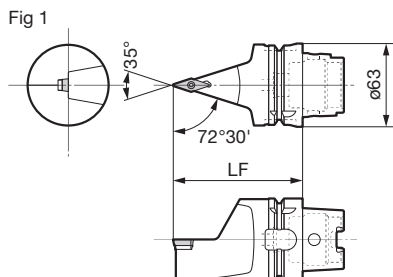
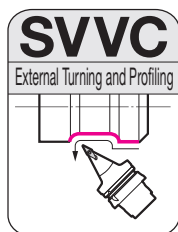
Holder

Parts

Dimensions (mm)

Cat. No.	Previous Cat. No.	Stock	Overhang LF	Fig	Clamp Set		Shim	Shim Screw	Wrench for Shim	Wrench
										
HSK63TH-DVFN N-H16	H63A-WH-DVFN N-H16		100	1	SCP-4	5.0	VNS1604	BFTX0307N	TRX10(*)	LH040

*Wrench for shim is sold separately from the main body.



General External Turning and Profiling
Screw-on

Insert

Applicable Insert Cat. No. Ref. Page		(Representative example)
VC□□3300	B124 ~	 VCMT332ESU

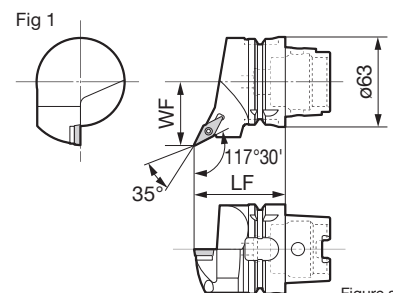
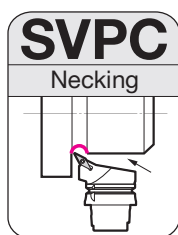
Holder

Parts

Dimensions (mm)

Cat. No.	Previous Cat. No.	Stock	Overhang LF	Fig	Pin	Nut	Shim	Flat Insert Screw	Wrench for Shim	Wrench
										
HSK63TH-SVVC N-H16	H63A-WH-SVVCN-H16		100	1	VP25	CPV33N	SVP32	BFTX03508	TRX10(*)	LH025
HSK63TH-SVVC N-L16	H63A-WH-SVVCN-L16		140	1						

*Wrench for shim is sold separately from the main body.



General External Turning and Profiling
Screw-on

Insert

Applicable Insert Cat. No. Ref. Page		(Representative example)
VC□□3300	B124 ~	 VCMT332ESU

Holder

Parts

Dimensions (mm)

Cat. No.	Previous Cat. No.	Stock		Overhang LF	Cutting Edge WF	Fig	Pin	Nut	Shim	Flat Insert Screw	Wrench for Shim	Wrench
		R	L									
HSK63TH-SVPC R/L-DX16	H63A-WH-SVPCL-DX16			65	45	1	VP20	CPV33N	SVP32	BFTX03508	TRX10(*)	LH025

*Wrench for shim is sold separately from the main body.

 Recommended Tightening Torque (N-m)

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HSK Tooling System

HSK TOOLING SYSTEM
ARE MADE TO ORDER ITEMS

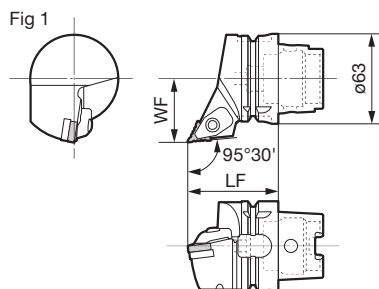
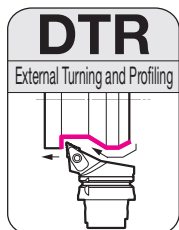
General External Turning and Profiling
Double Clamp

Tooling

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Cartridges



SumiTurn T-REX

Insert

Applicable Insert Cat. No.	Ref. Page	(Representative example)
TRM551700	C28	
		TRM551708-LU

Holder

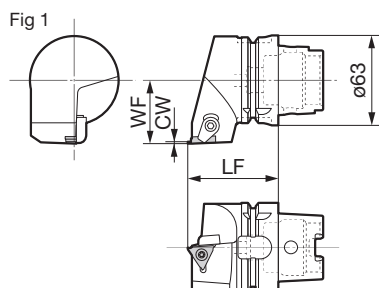
Parts

Dimensions (mm)

Cat. No.	Previous Cat. No.	Stock	Overhang	Cutting Edge	Fig	Clamp Plate	Spring	Cap Screw	(N·m)	Shim	Shim Screw	Wrench	Wrench for Shim
HSK63TH-DTR55C R-DX17	H63A-WH-DTR55C R-DX17		65	45	1	TRCP3	S-SP4-20	BX0520	3.5 to 4.5	TRW5505	BFTX0307N	TSW040	TRX10(*)

*Wrench for shim is sold separately from the main body.
Refer to TRM series inserts on C28 for applicable inserts.

External Grooving
Double Clamp



Insert

Applicable Insert Cat. No.	Ref. Page	(Representative example)
TGAR40000□	F45	
TGAR4000BF	F47	
		TGAR4150

Holder

Parts

Dimensions (mm)

Cat. No.	Previous Cat. No.	Stock	Overhang	Cutting Edge	Width of Cut	Group No.	Fig	Flat Insert Screw	(N·m)	Clamp Plate	Double Screw	Wrench	Wrench
HSK63TH-GWC R-DX412	H63A-WH-GWC R-DX412		65	45	1.25 to 1.45	2	1		5.0				
HSK63TH-GWC R-DX415	H63A-WH-GWC R-DX415		65	45	1.50 to 2.30	3	1						
HSK63TH-GWC R-DX425	H63A-WH-GWC R-DX425		65	45	2.50 to 4.80	4	1						
								BFTX0511N		CCM8UL	WB8-22T	TRX20	LT27

Refer to TGA series insert group numbers on F45, F46 and F47 for applicable inserts. Select applicable inserts for the holders by using matching group numbers.

G6

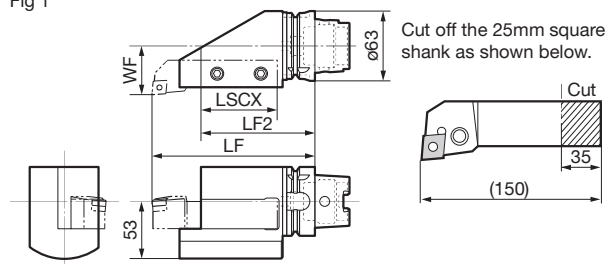
 Recommended Tightening Torque (N·m)

HSK Tooling System

**HSK TOOLING SYSTEM
ARE MADE TO ORDER ITEMS**

Square Shank Holder

Fig 1

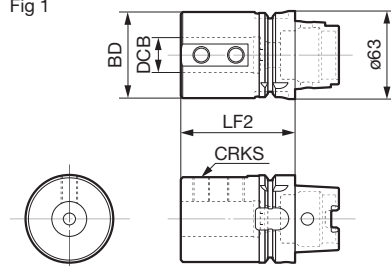


Holder

Cat. No.	Previous Cat. No.	Stock	Overhang LF	Overhang LF2	Clamping Length LSCX	Cutting Edge WF	Fig	Parts Dimensions (mm)	
								Set Screw	Wrench
HSK63TH-S2525 R-105	H63A-WH-S2525 R-105		150	105	70	45	1	BTD0809	LH040

Holder for Boring Bar

Fig 1



Holder

Cat. No.	Previous Cat. No.	Stock	Shank Dia. DCB	Body Dia. BD	Min. Clamping Length LF2	Screw CRKS	Fig	Parts Dimensions (mm)	
								Set Screw	Wrench
HSK63TH-C08-65	H63A-WH-C08-65		8	28	65	M8	1	BTD0809	LH040
HSK63TH-C10-70	H63A-WH-C10-70		10	35	70	M8	1	BTD0812	
HSK63TH-C12-70	H63A-WH-C12-70		12	42	70	M8	1	BTD0812	
HSK63TH-C16-75	H63A-WH-C16-75		16	48	75	M10	1	BTD1015	LH050
HSK63TH-C20-75	H63A-WH-C20-75		20	52	75	M10	1	BTD1015	LH060
HSK63TH-C25-83	H63A-WH-C25-83		25	62	83	M12	1	BTD1218	
HSK63TH-C32-87	H63A-WH-C32-87		32	62	87	M12	1	BTD1215	
HSK63TH-C40-97	H63A-WH-C40-97		40	65	97	M16	1	BTD1610	LH080

Cut the boring bar to fit.

Tooling

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Cartridges

Polygonal Shank Style Polygon Shank Toolholders

Tooling



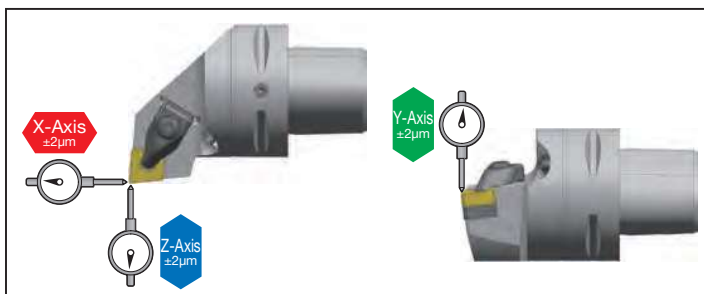
Tooling

■ Features

- Sizes
 - Shank size PSC32 (DCSFMS = 32mm) to PSC80 (DCSFMS = 80mm) supported
- High Rigidity/High Precision
 - 1/20 polygon tapered shape supported on 2 faces for high rigidity
 - Keyless coupling distributes cutting torque uniformly to 3 faces, reducing fluctuations in cutting edge height
 - Repeatability when tools are changed is within $\pm 2\mu\text{m}$ on all 3 axes
- Reduced Tool Change Time
 - Changing inserts on the machine is not needed so the tool change time is significantly reduced
- Coolant supported (up to 1MPa)

■ Repeat Accuracy

Repeatability when tools are changed is within $\pm 2\mu\text{m}$ on all 3 axes X-Axis (Radial Direction) Y-Axis (Center Height Direction), Z-Axis (Lengthwise Direction)

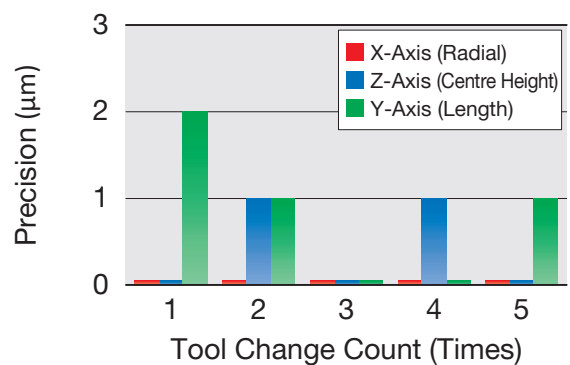
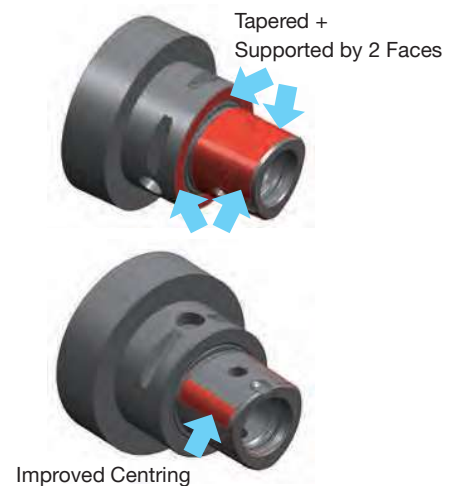


■ General Features

SumiPolygon shanks feature keyless couplings with the characteristic polygonal shape, which bear cutting torque evenly on three surfaces, providing high rigidity and high index accuracy.

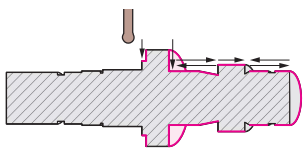
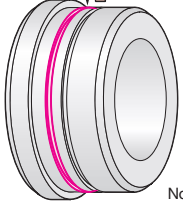
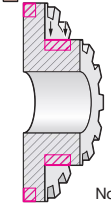
For support with non-standard design specifications, contact us directly.

■ Coupling Structure



Polygonal Shank Style Polygon Shank Toolholders

Application Examples

Nickel-Chromium Molybdenum Alloy Output Shaft Grooving	Stainless Steel Socket Joint Grooving	Powdered Metal Sprocket Grooving/Facing
 No Abnormal Chatter or Vibration	 No Abnormal Chatter or Vibration	 No Abnormal Chatter or Vibration
Holders : PSC40 Special Type Insert : GCMN4020-RG (AC425K) Cutting Conditions : $v_c = 400$ to 460 SFM, $f = 0.079$ to 0.014 IPR $a_p = .079$ " Wet	Holders : PSC40 Special Type Insert : GCMN4008-MG (AC530U) Cutting Conditions : $v_c = 330$ SFM, $f = 0.0039$ IPR $a_p = .112$ " Wet	Holders : PSC40 Special Type Insert : Special Insert (Blade Diameter .25") MG (AC530U) Cutting Conditions : Grooving $v_c = 600$ SFM, $f = 0.0063$ IPR, $a_p = .157$ " x2 passes Wet Facing $v_c = 625$ SFM, $f = 0.0071$ IPR, $a_p = 0.0079$ " Wet

Tooling

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Tooling

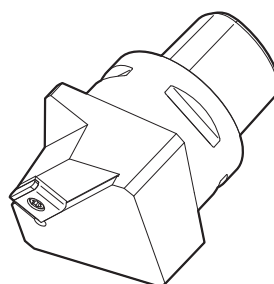
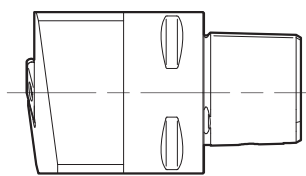
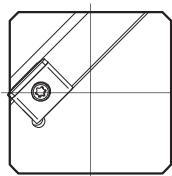
Cartridges

Made-to-Order Product Design Example

For support with non-standard design specifications, contact us directly.

Hard Skiving Tool

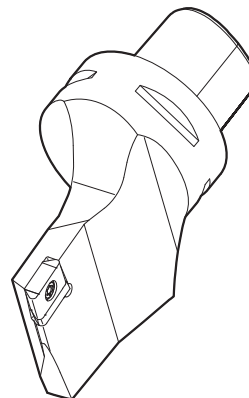
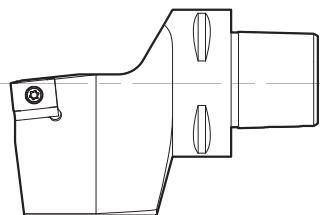
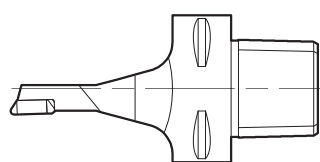
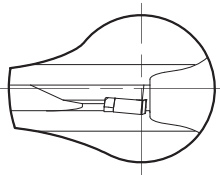
High-Efficiency Hardened Steel Machining Tool



XD Type Holders

For details on SEC-XD Type Tool Holders (holders and inserts), see the separate "Tools for Machining Automotive Engine Parts" catalog.

Tools for Crank Shaft Machining



Polygonal Shank Style
Polygon Shank Nomenclature

Tooling

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Tooling

Cartridges

PSC

Polygon Shank Type

40-

Polygon Shank Size

Sizes:

32 mm

40 mm

50 mm

63 mm

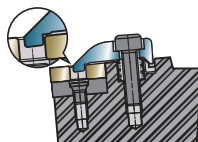
80 mm

D

Insert Holding

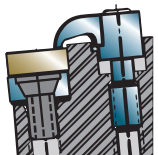
D

Clamp Mechanism



C

Clamp



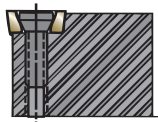
M

Clamp and Lock Pin



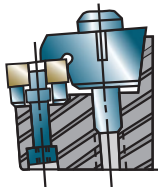
S

Screw Only



W

Wedge Clamp



D

Insert Shape

C

Diamond



D

Diamond



R

Round



S

Square



T

Triangle



V

Diamond



W

Trigon



J

Holder / Boring Bar Style



F
0° end cutting offset shank



H
-17.5° end cutting offset shank



J
-3° side cutting offset shank



K
15° end cutting offset shank



L
5° side & end cutting offset shank



N
27.5° cutting shank



R
15° side cutting offset shank



V
17°30' side cutting straight shank

All lead angles are $\pm 1^\circ$

N

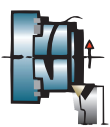
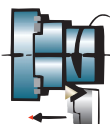
Insert Relief Angle



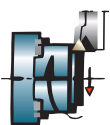
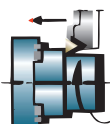
R

Hand

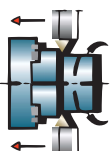
R
Right Hand



L
Left Hand



N
Neutral Hand



27

Distance from center (mm)

Holder Sizes:

22 mm
 27 mm
 35 mm
 45 mm
 55 mm

Boring Bar
 Sizes:

11 mm
 13 mm
 17 mm
 22 mm
 27 mm
 35 mm

Neutral Holders WF: 0.5 mm

050

Holder Length (mm)

Holder Sizes:

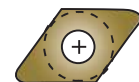
40 mm
 45 mm
 50 mm
 60 mm
 62 mm
 65 mm
 80 mm

Boring Bar
 Sizes:

65 mm
 70 mm
 75 mm
 80 mm
 90 mm
 100 mm
 110 mm
 140 mm

33

Insert Size



Inscribed Circle
 &
 Thickness

Tooling

G

Tooling

Cartridges

Polygon Shank Style Polygon Toolholders

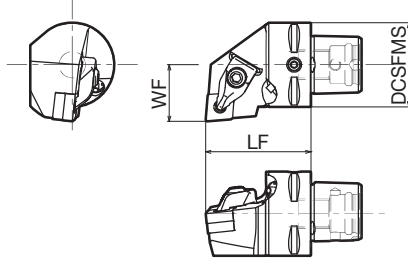
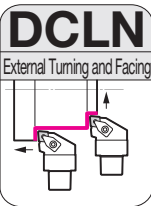
Tooling

Tooling

Cartridges



Internal
Coolant



External Turning
Double Clamp

Figure shows right hand (R) tool.

Holder

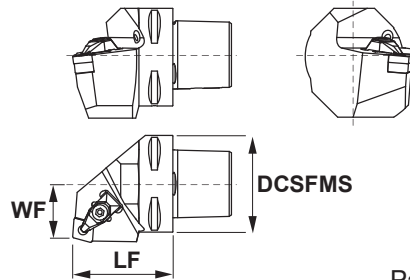
Parts

Dimensions (inch)

Catalog Number	Stock		Mounting DCSFMS	Cutting Edge WF	Overhang LF	Rake Angle	Incline Angle	Applicable Insert	Screw	Shim	Clamp	Clamp Bolt	Spring	Wrench	Optional Hardware For Clamp for CBN	
	R	L														
PSC32-DCLN R/L -22040-32	★	★	1.260	0.866	1.575	-6°	-6°	CN□32	ST-1764	ICSN-332	CL-2708	CLB-1695	SP-4294	LH030	-	-
PSC40-DCLN R/L -27050-32	★	★	1.575	1.063	1.969	-6°	-6°									
PSC32-DCLN R/L -22045-43	★	★	1.260	0.866	1.772	-6°	-6°									
PSC40-DCLN R/L -27050-43	★	★	1.575	1.063	1.969	-6°	-6°									
PSC50-DCLN R/L -35060-43	★	★	1.969	1.378	2.362	-6°	-6°	CN□43	ST-1766	ICSN-442	CL-2712	CLB-1696	SP-4295	LH040	CL-2435	ST-1086
PSC63-DCLN R/L -45065-43	★	★	2.480	1.772	2.559	-6°	-6°									
PSC80-DCLN R/L -55080-43	★	★	3.150	2.165	3.150	-6°	-6°									
PSC40-DCLN R/L -27055-54	★	★	1.575	1.063	2.165	-6°	-6°									
PSC50-DCLN R/L -35060-54	★	★	1.969	1.378	2.362	-6°	-6°	CN□54	ST-1768	ICSN533	CL-2716	CLB-1696	SP-4295	LH040	-	-
PSC63-DCLN R/L -45065-54	★	★	2.480	1.772	2.559	-6°	-6°									
PSC80-DCLN R/L -55080-54	★	★	3.150	2.165	3.150	-6°	-6°									
PSC50-DCLN R/L -35060-64	★	★	1.969	1.378	2.362	-6°	-6°									
PSC63-DCLN R/L -45065-64	★	★	2.480	1.772	2.559	-6°	-6°	CN□64	ST-1770	ICSN633	CL-2719	CLB-1696	SP-4295	LH040	-	-
PSC80-DCLN R/L -55080-64	★	★	3.150	2.165	3.150	-6°	-6°									



Internal
Coolant



External Turning
Double Clamp

Holder

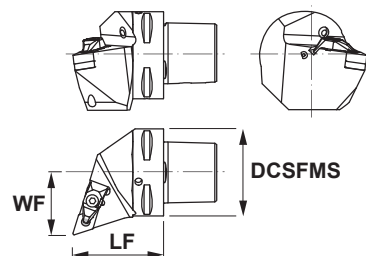
Parts

Dimensions (inch)

Catalog Number	Stock		Mounting DCSFMS	Cutting Edge WF	Overhang LF	Rake Angle	Incline Angle	Applicable Insert	Screw	Shim	Clamp	Clamp Bolt	Spring	Wrench
	R	L												
PSC40-DCRN R/L -22050-43	★	★	1.575	1.969	0.866	-6°	-6°	CN□43	ST-1766	ICSN-442	CL-2712			
PSC50-DCRN R/L -27060-43	★	★	1.969	2.362	1.063	-6°	-6°							
PSC63-DCRN R/L -35065-43	★	★	2.480	2.559	1.378	-6°	-6°							
PSC50-DCRN R/L -27060-54	★	★	1.969	2.362	1.063	-6°	-6°							
PSC63-DCRN R/L -35065-54	★	★	2.480	2.559	1.378	-6°	-6°	CN□54	ST-1768	ICSN-553	CL-2716	CLB-1696	SP-4295	LH040
PSC80-DCRN R/L -55080-54	★	★	3.150	3.150	2.165	-6°	-6°							
PSC50-DCRN R/L -27060-64	★	★	1.969	2.362	1.063	-6°	-6°							
PSC63-DCRN R/L -35065-64	★	★	2.480	2.559	1.378	-6°	-6°	CN□64	ST-1770	ICSN633	CL-2719			
PSC80-DCRN R/L -55080-64	★	★	3.150	3.150	2.165	-6°	-6°							



Internal
Coolant



External Turning
Double Clamp

Alternative

Applicable Insert	Shim
DN□43	IDSN-442

Holder

Parts

Dimensions (inch)

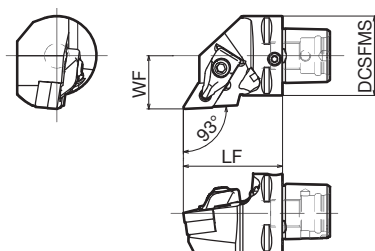
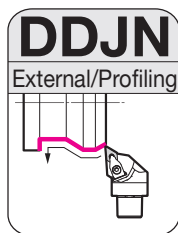
Catalog Number	Stock		Mounting DCSFMS	Cutting Edge WF	Overhang LF	Rake Angle	Incline Angle	Applicable Insert	Screw	Shim	Clamp	Clamp Bolt	Spring	Wrench
	R	L												
PSC40-DDHN R/L -27055-44	★	★	1.575	1.063	2.165	-6°	-7°							
PSC50-DDHN R/L -35060-44	★	★	1.969	1.378	2.362	-6°	-7°	DN□44	ST-1766	IDSN-432	CL-2712	CLB-1696	SP-4295	LH040
PSC63-DDHN R/L -45065-44	★	★	2.480	1.772	2.559	-6°	-7°							
PSC80-DDHN R/L -55080-44	★	★	3.150	2.165	3.150	-6°	-7°							

★ Worldwide Warehouse Item

Polygon Shank Style Polygon Toolholders



Internal
Coolant



External Turning
Double Clamp

Alternative

Applicable Insert	Shim
DN□□43	IDSN-442

Figure shows right hand (R) tool.

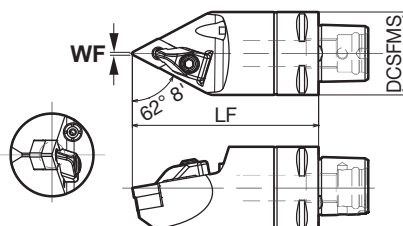
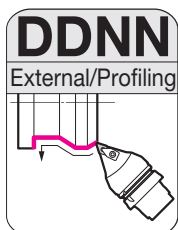
Holder

Parts

Catalog Number	Stock		Mounting	Cutting Edge	Overhang	Rake Angle	Incline Angle	Dimensions (inch)						
	R	L	DCSFMS	WF	LF			Applicable Insert	Screw	Shim	Clamp	Clamp Bolt	Spring	Wrench
PSC32-DDJN R/L -22045-33	★	★	1.260	0.866	1.772	-6°	-7°	DN□□ 33	ST-1764	IDSN-322	CL-2708	CLB-1695	SP-4294	LH030
PSC40-DDJN R/L -27050-33	★	★	1.575	1.063	1.969	-6°	-7°							
PSC50-DDJN R/L -35060-33	★	★	1.969	1.378	2.362	-6°	-7°							
PSC63-DDJN R/L -45065-33	★	★	2.480	1.772	2.559	-6°	-7°							
PSC40-DDJN R/L -27055-43	★	★	1.575	1.063	2.165	-6°	-7°	DN□□ 44	ST-1766	IDSN432	CL-2712	CLB-1696	SP-4295	LH040
PSC50-DDJN R/L -35060-43	★	★	1.969	1.378	2.362	-6°	-7°							
PSC63-DDJN R/L -45065-43	★	★	2.480	1.772	2.559	-6°	-7°							
PSC80-DDJN R/L -55080-43	★	★	3.150	2.165	3.150	-6°	-7°							



Internal
Coolant



External Turning
Double Clamp

Alternative

Applicable Insert	Shim
DN□□43	IDSN-442

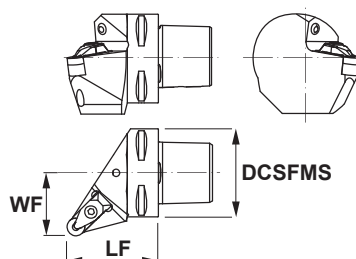
Holder

Parts

Catalog Number	Stock		Mounting	Cutting Edge	Overhang	Rake Angle	Incline Angle	Dimensions (inch)						
	N		DCSFMS	WF	LF			Applicable Insert	Screw	Shim	Clamp	Clamp Bolt	Spring	Wrench
PSC40-DDNNN00050-33	★		1.575	0.020	1.969	-5°	-9°	DN□□ 33	ST-1764	IDSN-322	CL-2708	CLB-1695	SP-4294	LH040
PSC50-DDNNN00060-33	★		1.969	0.020	2.362	-5°	-9°							
PSC40-DDNNN00055-43	★		1.575	0.020	2.165	-5°	-9°							
PSC50-DDNNN00060-43	★		1.969	0.020	2.362	-5°	-9°							
PSC63-DDNNN00065-43	★		2.480	0.020	2.559	-5°	-9°	DN□□ 44	ST-1766	IDSN432	CL-2712	CLB-1696	SP-4295	LH040
PSC80-DDNNN00080-43	★		3.150	0.020	3.150	-5°	-9°							



Internal
Coolant



External Turning
Double Clamp

Holder

Parts

Catalog Number	Stock		Mounting	Cutting Edge	Overhang	Rake Angle	Incline Angle	Dimensions (inch)						
	R	L	DCSFMS	WF	LF			Applicable Insert	Screw	Shim	Clamp	Clamp Bolt	Spring	Wrench
PSC40-DRSN R/L -27050-43	★	★	1.575	1.063	1.969	-6°	-6°	RN□□ 43	ST-1766	IRSN-44	CL-2712	CLB-1696	SP-4295	LH040
PSC50-DRSN R/L -35060-43	★	★	1.969	1.378	2.362	-6°	-6°							
PSC63-DRSN R/L -45065-43	★	★	2.480	1.772	2.559	-6°	-6°							

★ Worldwide Warehouse Item

Tooling

G

Tooling

Cartridges

G13

Polygon Shank Style Polygon Toolholders



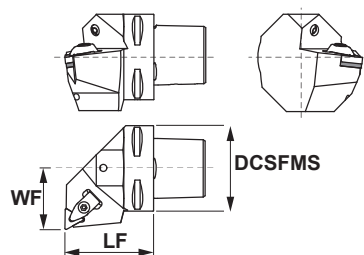
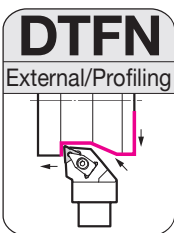
External Turning
Double Clamp

Tooling

G

Tooling

Cartridges



Holder

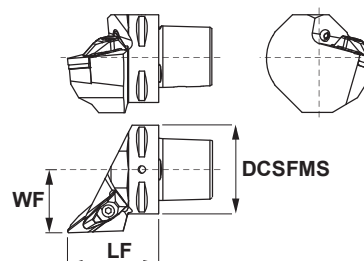
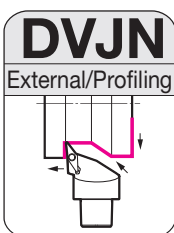
Parts

Dimensions (inch)

Catalog Number	Stock		Mounting	Cutting Edge	Overhang	Rake Angle	Incline Angle	Applicable Insert	Screw	Shim	Clamp	Clamp Bolt	Spring	Wrench
	R	L												
PSC32-DTFN R/L -22040-33	★	★	1.260	0.866	1.575	-6°	-6°	TN□ 33	ST-1764	ITSN-342	CL-2708	CLB-1695	SP-4294	LH040
PSC40-DTFN R/L -27050-33	★	★	1.575	1.063	1.969	-6°	-6°							
PSC50-DTFN R/L -35060-33	★	★	1.969	1.378	2.362	-6°	-6°							
PSC50-DTFN R/L -35060-33	★	★	2.480	1.772	2.559	-6°	-6°							
PSC40-DTFN R/L -27050-43	★	★	1.575	1.063	1.969	-6°	-6°	TN□ 43	ST-1766	ITSN443	CL-2712	CLB-1696	SP-4295	LH040
PSC50-DTFN R/L -35060-43	★	★	1.969	1.378	2.362	-6°	-6°							
PSC63-DTFN R/L -45065-43	★	★	2.480	1.772	2.559	-6°	-6°							



External Turning
Screw-on



Holder

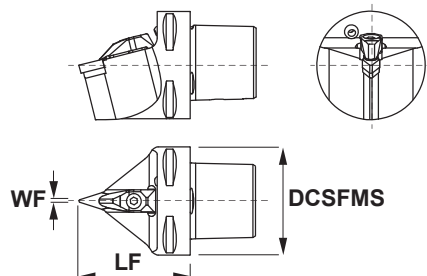
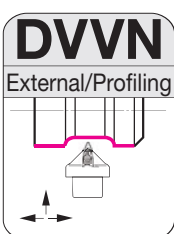
Parts

Dimensions (inch)

Catalog Number	Stock		Mounting	Cutting Edge	Overhang	Rake Angle	Incline Angle	Applicable Insert	Screw	Shim	Clamp	Clamp Bolt	Spring	Wrench
	R	L												
PSC40-DVJN R/L -27062-33	★	★	1.575	1.063	2.441	-4°	-13°	VN□ 33	ST-1764	IVSN-322	CL-2708	CLB-1695	SP-4294	LH040
PSC50-DVJN R/L -35065-33	★	★	1.969	1.378	2.559	-4°	-13°							
PSC63-DVJN R/L -45065-33	★	★	2.480	1.772	2.559	-4°	-13°							
PSC80-DVJN R/L -55080-33	★	★	3.150	2.165	3.150	-4°	-13°							



External Turning
Screw-on



Holder

Parts

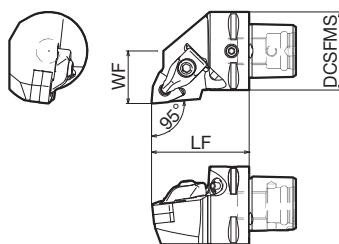
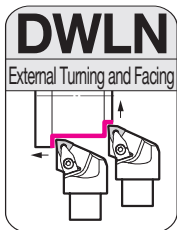
Dimensions (inch)

Catalog Number	Stock		Mounting	Cutting Edge	Overhang	Rake Angle	Incline Angle	Applicable Insert	Screw	Shim	Clamp	Clamp Bolt	Spring	Wrench
	N													
PSC40-DVVNN00062-33	★		1.575	0.866	2.441	-6°	-6°	VN□ 33	ST-1764	IVSN-322	CL-2708	CLB-1695	SP-4294	LH040
PSC50-DVVNN00065-33	★		1.969	1.063	2.559	-6°	-6°							
PSC63-DVVNN00065-33	★		2.480	1.378	2.559	-6°	-6°							
PSC80-DVVNN00080-33	★		3.150	1.772	3.150	-6°	-6°							

G14

★ Worldwide Warehouse Item

Polygon Shank Style Polygon Toolholders



External Turning
Double Clamp

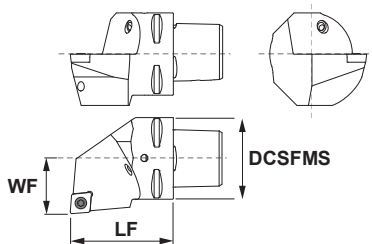
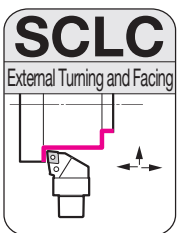
Figure shows right hand (R) tool.

Holder

Parts

Dimensions (inch)

Catalog Number	Stock		Mounting DCSFMS	Cutting Edge WF	Overhang LF	Rake Angle	Incline Angle	Applicable Insert	Screw	Shim	Clamp	Clamp Bolt	Spring	Wrench
	R	L												
PSC32-DWLN R/L -22040-33	★	★	1.260	0.866	1.575	-6°	-6°	WN□ 33	ST-1764	IWSN-322	CL-2708	CLB-1695	SP-4294	LH040
PSC40-DWLN R/L -27050-33	★	★	1.575	1.063	1.969	-6°	-6°							
PSC50-DWLN R/L -35060-33	★	★	1.969	1.378	2.362	-6°	-6°							
PSC63-DWLN R/L -45065-33	★	★	2.480	1.772	2.559	-6°	-6°							
PSC40-DWLN R/L -27050-43	★	★	1.575	1.063	1.969	-6°	-6°	WN□ 43	ST-1766	IWSN433	CL-2712	CLB-1696	SP-4295	LH040
PSC50-DWLN R/L -35060-43	★	★	1.969	1.378	2.362	-6°	-6°							
PSC63-DWLN R/L -45065-43	★	★	2.480	1.772	2.559	-6°	-6°							
PSC80-DWLN R/L -55080-43	★	★	3.150	2.165	3.150	-6°	-6°							



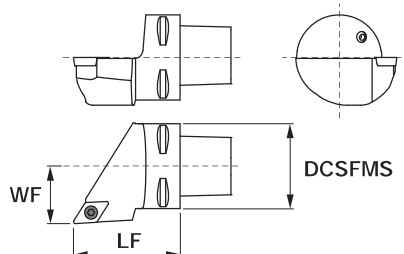
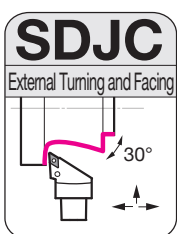
External Turning
Lever Lock

Holder

Parts

Dimensions (inch)

Catalog Number	Stock		Mounting DCSFMS	Cutting Edge WF	Overhang LF	Rake Angle	Incline Angle	Applicable Insert	Screw	Wrench	Shim	Shim Screw
	R	L										
PSC32-SCLC R/L -22040-32.5	★	★	1.260	0.866	1.575	-0°	-0°	CC□ 32.5	BFTX0407N	TRX15	-	-
PSC40-SCLC R/L -27050-32.5	★	★	1.575	1.063	1.969	-0°	-0°					
PSC50-SCLC R/L -35060-32.5	★	★	1.969	1.378	2.362	-0°	-0°					
PSC63-SCLC R/L -45065-32.5	★	★	2.480	1.772	2.559	-0°	-0°					
PSC32-SCLC R/L -22040-43	★	★	1.260	0.866	1.575	-0°	-0°	CC□ 43	BFTX0405	TRX15040	SH-3614	ST-1540
PSC40-SCLC R/L -27050-43	★	★	1.575	1.063	1.969	-0°	-0°					
PSC50-SCLC R/L -35060-43	★	★	1.969	1.378	2.362	-0°	-0°					
PSC63-SCLC R/L -45065-43	★	★	2.480	1.772	2.559	-0°	-0°					



External Turning
Lever Lock

Holder

Dimensions (inch)

Catalog Number	Stock		Mounting DCSFMS	Cutting Edge WF	Overhang LF	Rake Angle	Incline Angle	Applicable Insert	Screw	Wrench	Shim	Shim Screw
	R	L										
PSC32-SDJC R/L -22040-21.5	★	★	1.260	0.866	1.575	-0°	-0°	DC□ 21.5	BFTX02506N	TRX08	-	-
PSC40-SDJC R/L -27050-21.5	★	★	1.575	1.063	1.969	-0°	-0°					
PSC32-SDJC R/L -22040-32.5	★	★	1.260	0.866	1.575	-0°	-0°	DC□ 32.5	BFTX03515	TRX15	SH-3714	ST-1750
PSC40-SDJC R/L -27050-32.5	★	★	1.575	1.063	1.969	-0°	-0°					
PSC50-SDJC R/L -35060-32.5	★	★	1.969	1.378	2.362	-0°	-0°					
PSC63-SDJC R/L -45065-32.5	★	★	2.480	1.772	2.559	-0°	-0°					

★ Worldwide Warehouse Item

Tooling

G

Tooling

Cartridges

G15

Polygon Shank Style Polygon Toolholders



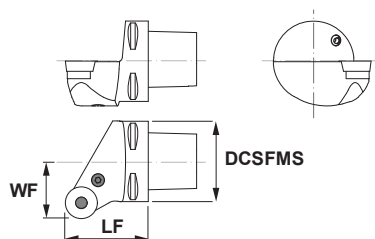
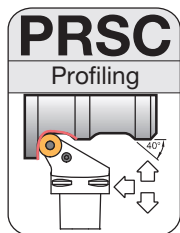
Multi-purpose Boring
Screw-on

Tooling

G

Tooling

Cartridges



Holder

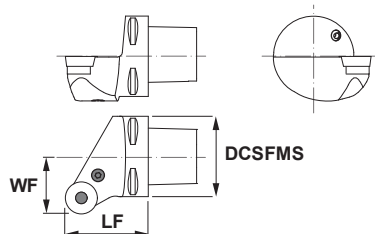
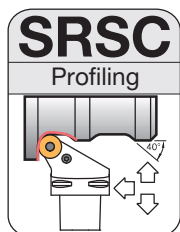
Parts

Dimensions (inch)

Catalog Number	Stock		Mounting	Cutting Edge	Overhang	Rake Angle	Incline Angle	Applicable Insert	Lever Pin	Insert Screw	Wrench	Shim	Hardware	Pin
	R	L												
PSC80-PRSC R/L -55080-20	★	★	3.150	2.165	3.150	0°	0°	RC□□ 20	LCL-8120	ST-1708	LH030	SH-3820	H-4115	LP-0015
PSC63-PRSC R/L -45065-25	★	★	2.480	1.772	2.559	0°	0°	RC□□ 25	LCL-8125	ST-1710	LH040	SH-3825	H-4119	LP-0019
PSC80-PRSC R/L -55080-25	★	★	3.150	2.165	3.150	0°	0°	RC□□ 25	LCL-8125	ST-1710	LH040	SH-3825	H-4119	LP-0019
PSC80-PRSC R/L -55080-32	★	★	3.150	2.165	3.150	0°	0°	RC□□ 32	LCL-8132	ST-1612	LH050	SH-3832	H-4125	LP-0025



Multi-purpose Boring
Screw-on



Holder

Dimensions (inch)

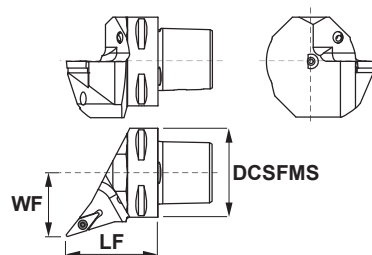
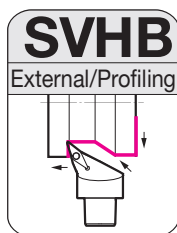
Catalog Number	Stock		Mounting	Cutting Edge	Overhang	Rake Angle	Incline Angle	Applicable Insert	Insert Screw	Wrench	Shim	Shim Screw
	R	L										
PSC32-SRSC R/L -22040-10	★	★	1.260	0.866	1.575	0°	0°	RC□□10	ST-1335	TRX-5516	SH-3811	ST-1750
PSC40-SRSC R/L -27050-10	★	★	1.575	1.063	1.969	0°	0°					
PSC50-SRSC R/L -35060-10	★	★	1.969	1.378	2.362	0°	0°					
PSC63-SRSC R/L -45065-10	★	★	2.480	1.772	2.559	0°	0°	RC□□12	ST-1540	TRX-5517	SH-3814	ST-1750
PSC40-SRSC R/L -27050-12	★	★	1.575	1.063	1.969	0°	0°					
PSC50-SRSC R/L -35060-12	★	★	1.969	1.378	2.362	0°	0°					
PSC63-SRSC R/L -45065-12	★	★	2.480	1.772	2.559	0°	0°	RC□□16	ST-1260	TRX-5520	SH-3816	ST-1765
PSC50-SRSC R/L -35060-16	★	★	1.969	1.378	2.362	0°	0°					
PSC63-SRSC R/L -45065-16	★	★	2.480	1.772	2.559	0°	0°					
PSC50-SRSC R/L -35060-20	★	★	1.969	1.378	2.362	0°	0°	RC□□20	ST-1260	TRX-5520	SH-3919	ST-1059
PSC63-SRSC R/L -45065-20	★	★	2.480	1.772	2.559	0°	0°					

Polygon Shank Style Polygon Toolholders



Internal
Coolant

External Turning
Screw-on



Holder

Parts

Dimensions (inch)

Catalog Number	Stock		Mounting	Cutting Edge	Overhang	Rake Angle	Incline Angle	Applicable Insert	Insert Screw	Wrench	Shim	Shim Screw
	R	L	DCSFMS	WF	LF							
PSC40-SVHB R/L -27050-33	★	★	1.575	1.063	1.969	-4°	-13°	VB□□ 33	ST-1335	TRX15	SH-3718	ST-1750
PSC50-SVHB R/L -35060-33	★	★	1.969	1.378	2.362	-4°	-13°					
PSC63-SVHB R/L -45065-33	★	★	2.480	1.772	2.559	-4°	-13°					

Tooling

G

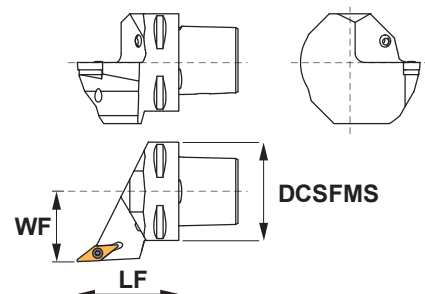
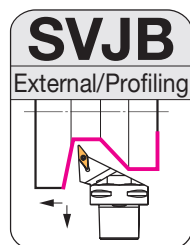
Tooling

Cartridges



Internal
Coolant

External Turning
Screw-on



Holder

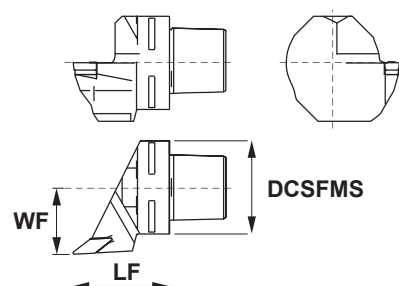
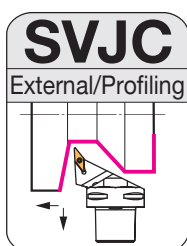
Dimensions (inch)

Catalog Number	Stock		Mounting	Cutting Edge	Overhang	Rake Angle	Incline Angle	Applicable Insert	Insert Screw	Wrench	Shim	Shim Screw
	R	L	DCSFMS	WF	LF							
PSC40-SVJB R/L -27050-33	★	★	1.575	1.063	1.969	0°	0°	VB□□ 33	ST-1335	TRX15	SH-3718	ST-1750
PSC50-SVJB R/L -35060-33	★	★	1.969	1.378	2.362	0°	0°					
PSC63-SVJB R/L -45065-33	★	★	2.480	1.772	2.559	0°	0°					



Internal
Coolant

External Turning
Screw-on



Holder

Dimensions (inch)

Catalog Number	Stock		Mounting	Cutting Edge	Overhang	Rake Angle	Incline Angle	Applicable Insert	Insert Screw	Wrench	Shim	Shim Screw
	R	L	DCSFMS	WF	LF							
PSC32-SVJC R/L -22040-22	★	★	1.260	0.866	1.575	0°	0°	VC□□ 22	ST-1225	TRX15040	-	-
PSC40-SVJC R/L -27050-22	★	★	1.575	1.063	1.969	0°	0°					
PSC50-SVJC R/L -35060-22	★	★	1.969	1.378	2.362	0°	0°	VC□□ 33	ST-1335	TRX15	SH-3718	ST-1750
PSC40-SVJC R/L -27050-33	★	★	1.575	1.063	1.969	0°	0°					
PSC50-SVJC R/L -35060-33	★	★	1.969	1.378	2.362	0°	0°					
PSC63-SVJC R/L -45065-33	★	★	2.480	1.772	2.559	0°	0°					

★ Worldwide Warehouse Item

G17

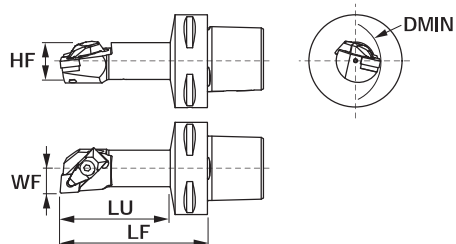
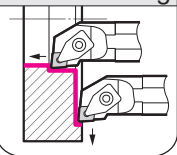
Polygonal Shank Style Polygonal Shank Boring Bars



Internal Turning
Double Clamp

DCLN

Bottom Facing



Holder

Parts

Dimensions (inch)

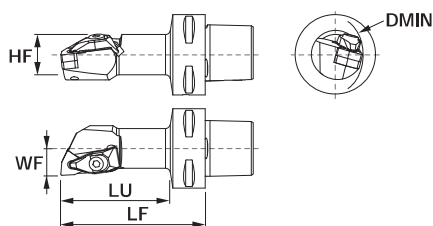
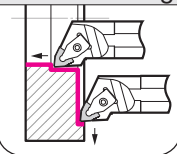
Catalog Number	Stock		Min Bore Dia.	Height	Cutting Edge	Overhang	Usable Length	Rake Angle	Incline Angle	Applicable Insert	Screw	Shim	Clamp	Clamp Bolt	Spring	Wrench
	R	L														
PSC40-DCLN R/L -13080-32	★	★	0.984	0.787	0.512	3.150	2.244	-6°	-14°	CN□□32	-	-	CL-2708	CLB-1695	SP-4294	LH040
PSC50-DCLN R/L -13080-32	★	★	0.984	0.787	0.512	3.150	2.205	-6°	-14°	CN□□32	-	-	CL-2708	CLB-1695	SP-4294	
PSC40-DCLN R/L -17090-43	★	★	1.260	0.984	0.669	3.543	2.677	-6°	-12°	CN□□43	ST-1766	ICSN-442	CL-2712	CLB-1696	SP-4295	
PSC50-DCLN R/L -17090-43	★	★	1.260	0.984	0.669	3.543	2.598	-6°	-12°	CN□□43	ST-1766	ICSN-442	CL-2712	CLB-1696	SP-4295	
PSC63-DCLN R/L -17100-43	★	★	1.260	0.984	0.669	3.937	2.835	-6°	-12°	CN□□43	ST-1766	ICSN-442	CL-2712	CLB-1696	SP-4295	
PSC63-DCLN R/L -27140-54	★	★	1.969	1.575	1.063	5.512	4.488	-6°	-16°	CN□□54	ST-1768	ICSN-533	CL-2716	CLB-1696	SP-4295	



Medium Diameter General-purpose
Double Clamp

DWLN

Bottom Facing



Holder

Parts

Dimensions (inch)

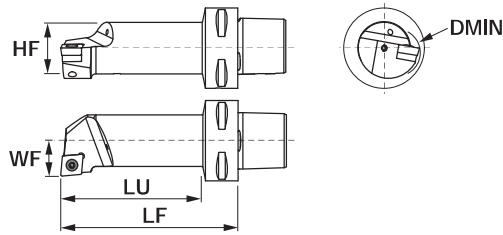
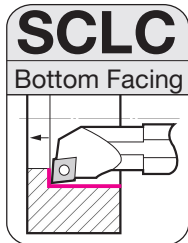
Catalog Number	Stock		Min Bore Dia.	Height	Cutting Edge	Overhang	Usable Length	Rake Angle	Incline Angle	Applicable Insert	Screw	Shim	Clamp	Clamp Bolt	Spring	Wrench
	R	L														
PSC40-DWLN R/L -13075-33	★	★	1.299	0.787	0.512	2.953	2.047	-6°	-17°	WN□□33	ST-1764	WSN-322	CL-2708	CLB-1695	SP-4294	LH040
PSC40-DWLN R/L -17090-43	★	★	1.378	0.984	0.669	3.543	2.677	-6°	-12°	WN□□43	ST-1766	WSN-433	CL-2712	CLB-1696	SP-4295	
PSC50-DWLN R/L -17090-43	★	★	1.378	0.984	0.669	3.543	2.598	-6°	-12°	WN□□43	ST-1766	WSN-433	CL-2712	CLB-1696	SP-4295	

★ Worldwide Warehouse Item

Polygonal Shank Style Polygon Shank Boring Bars



Internal Finishing to Medium Cutting
Screw-on



Holder

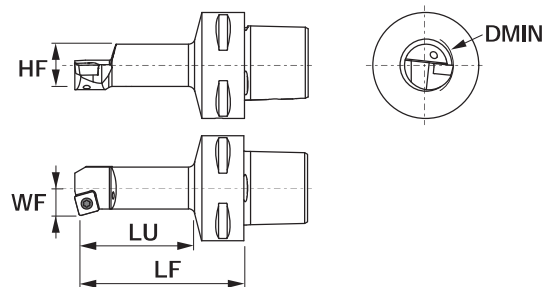
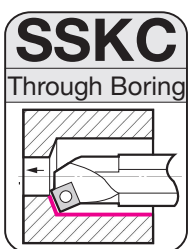
Parts

Dimensions (inch)

Catalog Number	Stock		Min Bore Dia.	Height	Cutting Edge		Overhang	Usable Length	Rake Angle	Incline Angle	Applicable Insert	Screw	Wrench	Shim	Screw
	R	L			HF	WF									
PSC32-SCLC R/L -11065-32.5	★	★	0.787	0.630	0.433	2.559	1.890	0°	-12°	CC□□32.5	BFTX0407N	TRX15	-	-	
PSC32-SCLC R/L -13075-32.5	★	★	0.984	0.787	0.512	2.953	2.323	0°	-8°						
PSC32-SCLC R/L -17090-32.5	★	★	1.260	0.984	0.669	3.543	2.953	0°	-6°						
PSC40-SCLC R/L -11070-32.5	★	★	0.787	0.630	0.433	2.756	1.850	0°	-12°						
PSC40-SCLC R/L -13080-32.5	★	★	0.984	0.787	0.512	3.150	2.283	0°	-8°						
PSC40-SCLC R/L -17090-32.5	★	★	1.260	0.984	0.669	3.543	2.717	0°	-6°						
PSC40-SCLC R/L -27080-32.5	★	★	1.969	1.562	1.063	3.150	2.362	0°	-6°						
PSC50-SCLC R/L -11070-32.5	★	★	0.787	0.630	0.433	2.756	1.811	0°	-12°						
PSC50-SCLC R/L -13080-32.5	★	★	0.984	0.787	0.512	3.150	2.205	0°	-8°						
PSC50-SCLC R/L -17090-32.5	★	★	1.260	0.984	0.669	3.543	2.638	0°	-6°						
PSC50-SCLC R/L -35100-32.5	★	★	2.480	1.956	1.378	3.937	3.189	0°	-4°						
PSC32-SCLC R/L -17090-43	★	★	1.260	0.984	0.669	3.543	2.953	0°	-6°	CC□□43	BFTX0511N	TRX20	SH-3614	ST-1760	
PSC32-SCLC R/L -22064-43	★	★	1.575	1.248	0.866	2.520	1.969	0°	-10°			TRX-5517			
PSC32-SCLC R/L -22096-43	★	★	1.575	1.366	0.866	3.780	3.228	0°	-10°			TRX20	-	-	
PSC40-SCLC R/L -17090-43	★	★	1.260	0.984	0.669	3.543	2.717	0°	-6°			TRX-5517	SH-3614	ST-1760	
PSC40-SCLC R/L -22110-43	★	★	1.575	1.260	0.866	4.331	3.504	0°	-10°			TRX20	-	-	
PSC40-SCLC R/L -27080-43	★	★	1.969	1.562	1.063	3.150	2.362	0°	-8°			TRX20	-	-	
PSC50-SCLC R/L -17090-43	★	★	1.260	0.984	0.669	3.543	2.638	0°	-6°			TRX-5517	SH-3614	ST-1760	
PSC50-SCLC R/L -22110-43	★	★	1.575	1.260	0.866	4.331	3.465	0°	-10°			TRX-5517	SH-3614	ST-1760	
PSC50-SCLC R/L -27140-43	★	★	1.969	1.575	1.063	5.512	4.685	0°	-8°			TRX-5517	SH-3614	ST-1760	
PSC50-SCLC R/L -35100-43	★	★	2.480	1.956	1.378	3.937	3.150	0°	-5°			TRX-5517	SH-3614	ST-1760	



Internal General
Screw-on



Holder

Parts

Dimensions (inch)

Catalog Number	Stock		Min Bore Dia.	Height	Cutting Edge		Overhang	Usable Length	Rake Angle	Incline Angle	Applicable Insert	Screw	Wrench
	R	L			HF	WF							
PSC40-SSKC R/L -13080-32.5	★	★	0.984	0.787	0.512	3.150	2.283	0°	-6°	SC□□32.5	BFTX0511N	TRX-5517	
PSC50-SSKC R/L -13080-32.5	★	★	0.984	0.787	0.512	3.150	2.205	0°	-6°				

★ Worldwide Warehouse Item

Tooling

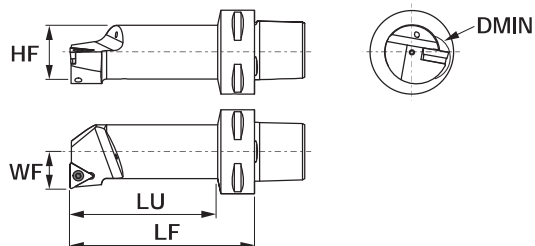
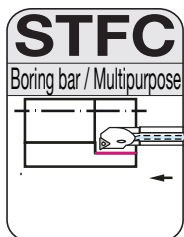
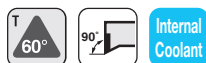
G

Tooling

Cartridges

G19

Polygonal Shank Style Polygon Shank Boring Bars



Multi-purpose Boring
Screw-on

Tooling

G

Tooling

Cartridges

Holder

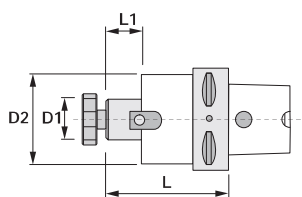
Parts

Dimensions (inch)

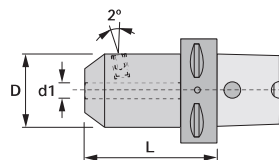
Catalog Number	Stock		Min Bore Dia.	Height	Cutting Edge		Overhang	Usable Length	Rake Angle	Incline Angle	Applicable Insert	DMIN	Wrench	Shim	Screw
	R	L			HF	WF									
PSC32-STFC R/L -11065-21.5	★	★	0.787	0.630	0.433	2.559	1.890	0°	-4°		TC□□21.5	BFTX02507	TRX15040	-	-
PSC32-STFC R/L -13075-21.5	★	★	0.984	0.787	0.512	2.953	2.323	0°	-3°						
PSC40-STFC R/L -11070-21.5	★	★	0.787	0.630	0.433	2.756	1.850	0°	-4°						
PSC40-STFC R/L -13080-21.5	★	★	0.984	0.787	0.512	3.150	2.244	0°	-3°						
PSC50-STFC R/L -11070-21.5	★	★	0.787	0.630	0.433	2.756	1.811	0°	-4°						
PSC50-STFC R/L -13080-21.5	★	★	0.984	0.787	0.512	3.150	2.205	0°	-3°		TC□□32.5	BFTX0407N	TRX15	-	ST-1750
PSC32-STFC R/L -17090-32.5	★	★	1.260	0.984	0.669	3.543	2.913	0°	-3.5°						
PSC40-STFC R/L -17090-32.5	★	★	1.260	0.984	0.669	3.543	2.717	0°	-6°						
PSC40-STFC R/L -22110-32.5	★	★	1.575	1.260	0.866	4.331	3.504	0°	-10°						
PSC50-STFC R/L -17090-32.5	★	★	1.260	0.984	0.669	3.543	2.638	0°	-6°						
PSC50-STFC R/L -22110-32.5	★	★	1.575	1.260	0.866	4.331	3.465	0°	-10°						

★ Worldwide Warehouse Item

Polygonal Shank Style PSC Adaptors



PSC Shell Mill Holders								
Catalog Number	Dimensions					Cap	Drive Key	Screw
	PSC	D1	L	L1	D2			
PSC50-0.75SMH	50	.750	2.756	0.709	1.693	CAP-10107	DRKEY-86207	ST-11103
PSC50-1.00SMH	50	1.000	0.984	0.709	2.126	CAP-10110	DRKEY-86210	ST-11004
PSC50-1.50SMH	50	1.50	1.772	0.906	3.150	CAP-10115	DRKEY-86215	ST-11006
PSC63-0.75SMH	63	.750	1.181	0.709	2.047	CAP-10107	DRKEY-86207	ST-11103
PSC63-1.00SMH	63	1.000	1.181	0.709	2.480	CAP-10110	DRKEY-86210	ST-11004
PSC63-1.50SMH	63	1.50	1.772	0.906	3.150	CAP-10115	DRKEY-86215	ST-11006



PSC Boring Bar Adapters					2 x 
Catalog Number	Dimensions				Bolt
	PSC	d1	D	L	
PSC40-0.75BBA	40	.750	1.752	2.362	BOLT-15407
PSC50-0.75BBA	50	.750	1.752	2.362	BOLT-15407
PSC50-1.00BBA	50	1.000	2.248	3.346	BOLT-15410*
PSC50-1.25BBA	50	1.250	2.480	3.347	BOLT-15410*
PSC63-0.75BBA	63	.7500	1.752	2.560	BOLT-15407
PSC63-1.00BBA	63	1.000	2.248	3.347	BOLT-15410*
PSC63-1.25BBA	63	1.250	2.480	3.347	BOLT-15410*

* has 4 bolts instead of standard 2

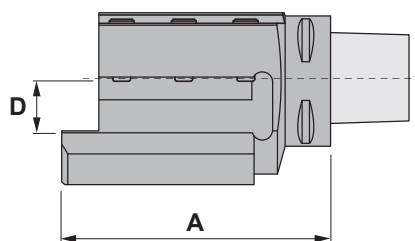
Polygon Shank Style PSC Adaptors

Tooling

G

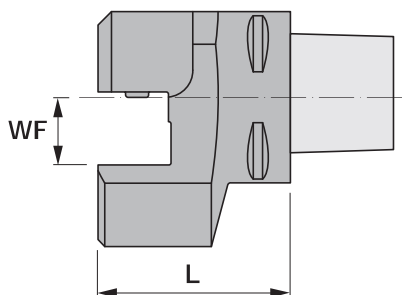
Tooling

Cartridges



PSC Straight Square Shank Toolholder Adaptor

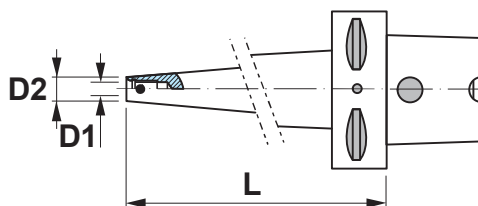
Catalog Number		Dimensions					
Right	Left	PSC	Type	D	L	Clamp Bolt	Coolant Bolt
PSC50-0.75THR	PSC50-0.75THL	50	Turning toolholder for square tool left/right hand	.750	3.858	CLB-17207	COB-29708
PSC63-0.75THR	PSC63-0.75THL	63		.750	3.937	CLB-17207	COB-29708
PSC63-1.00THR	PSC63-1.00THL	63		1.000	5.118	CLB-17210	COB-29708



PSC 90° Square Shank Toolholder Adaptor

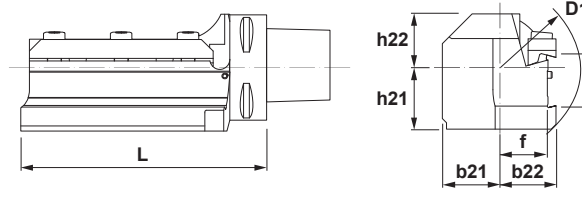
Dimensions						
Catalog Number	PSC	Type	WF	L	Clamp Bolt	Coolant Bolt
PSC50-0.75STH	50	Multi-purpose adaptor for square toolholders	.750	2.244	CLB-17307	COB-29708
PSC63-0.75STH	63		.750	2.323	CLB-17307	COB-29708

Polygon Shank Style PSC Adaptors



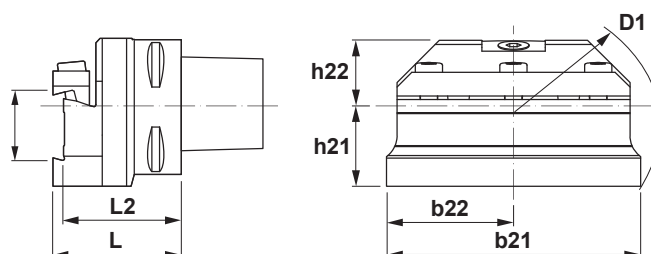
PSC Modular Endmill Adapters

Catalog Number	PSC	Dimensions		
		L	D1	D2
PSC40-MA08	40	2.756	M8	0.512
PSC40-MA10	40	3.150	M10	0.709
PSC40-MA12	40	3.150	M12	0.827
PSC50-MA08	50	2.756	M8	0.512
PSC50-MA10	50	3.150	M10	0.709
PSC50-MA12	50	3.150	M12	0.827
PSC50-MA16	50	3.150	M16	1.142
PSC63-MA08	63	2.756	M8	0.512
PSC63-MA10	63	3.543	M10	0.709
PSC63-MA12	63	3.937	M12	0.827
PSC63-MA16	63	3.937	M16	1.142
PSC80-MA12	80	3.937	M12	0.827
PSC80-MA16	80	3.937	M16	1.142
PSC100-MA12	100	4.724	M12	0.827
PSC100-MA16	100	4.724	M16	1.142



PSC Tool Mount for Cutoff Blades

Catalog Number	Stock		Dimensions									Cap	Screw
	R	L	PSC	Blade Size	D1	b21	b22	f	h21	h22	L		
PSC50-SBN26 R/L	★	★	50	26	3.465	0.984	1.260	1.063	1.181	1.024	3.74	CAP-80526	ST-11008
PSC63-SBN32 R/L	★	★	63	32	4.173	1.260	1.555	1.260	1.496	1.260	5.787	CAP-80632	ST-11108
PSC80-SBN32 R/L	★	★	80	32	4.961	1.594	1.890	1.594	1.594	1.594	6.102	CAP-80632	ST-11108
PSC100-SBN32 R/L	★	★	100	32	5.709	1.969	2.283	1.988	1.988	1.969	6.299	CAP-80632	ST-11108



PSC Radial Mount for Blades Adaptor

Catalog Number	Stock		Dimensions									Cap	Screw
	R	L	PSC	Blade Size	D1	b21	b22	h21	h22	L	L2		
PSC50-RMA26 R/L	★	★	50	26	3.937	3.150	1.575	1.181	0.992	2.283	2.087	CAP-80526	ST-11008
PSC63-RMA32 R/L	★	★	63	32	5.551	4.724	2.362	1.457	1.260	2.480	2.186	CAP-81632	ST-11108
PSC80-RMA32 R/L	★	★	80	32	5.709	4.724	2.362	1.594	1.575	2.795	2.500	CAP-81632	ST-11108
PSC100-RMA32 R/L	★	★	100	32	5.709	4.724	2.362	1.988	1.969	2.953	2.657	CAP-81632	ST-11108

Tooling

G

Tooling

Cartridges

Smart Dumper Arbors

Tooling

G

Tooling

Cartridges



General Features

Dampers are arbors equipped with a special anti-vibration mechanism that has both counter damping and friction damping effects.

This reduces chatter and prevents decreased machined surface quality and tool life when machining with a large overhang.

Features



- Using a basic holder and damper head in combination
- Basic holder lineup supports **BBT50** arbor and **HSK-A100** arbors in different lengths.
- Through-center coolant compatible.

Surface Milling Example with 347mm Overhang Length

Arbor	Results	
	Machined Surface	Vibration
Competitor's Arbor No vibration control mechanism		
Damper With Vibration Control Mechanism		

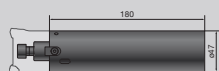
Reduce chatter by using a smart damper!!

Part Material: Medium-Carbon Steel (S50C)
Diameter: $\phi 63\text{mm}$ (5-Flute)
Cutting Conditions: $v_c = 100\text{m/min}$, $f_z = 1.0\text{mm/t}$, $a_p = 1.4\text{mm}$, $a_e = 30\text{mm}$

Combination Example (BBT50 Type)

Damper Head

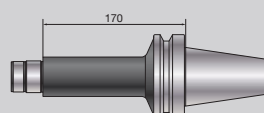
$\phi 47$
Type



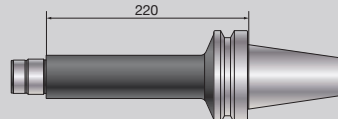
FMH22L

S-SDF3647FMH□□L180

Basic Holder



L170



L220

S-SDF3647L□□□-BBT50

$\phi 60$
Type

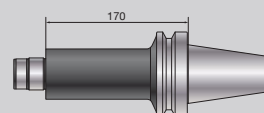


FMH22L

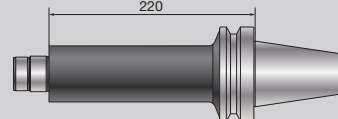
S-SDF3660FMH□□L180



FMH27L



L170



L220

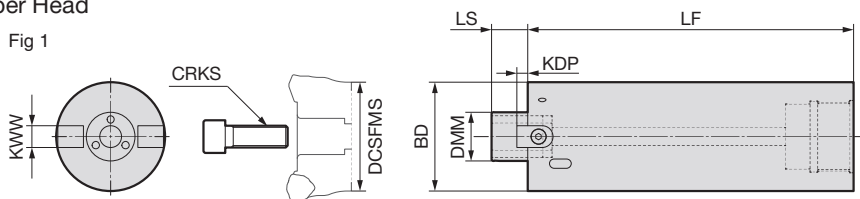
S-SDF3660L□□□-BBT50

★ Worldwide Warehouse Item

Smart Damper Arbors

Damper Head

Fig 1



Stock Table

Dimensions (mm)

Cat. No.	Stock	Shank Dia. DMM	Body Dia. BD	Overhang LF	Shank Length LS	Groove Width KWW	Groove Depth KDP	Screw CRKS	Weight (kg)	Mounting DCSFMS	Fig
S-SDF3647FMH22L180	★	22	47	180	18	10	5	M10	3.0	36 up	1
S-SDF3660FMH22L180	★	22	60	180	18	10	5	M10	4.5	49 up	1
S-SDF3660FMH27L180	★	27	60	180	20	12	6	M12	4.5	46 up	1

Refer to the user's manual for methods of mounting to basic tool holders.

The cutter is not included in the weight.

A hook wrench and clamp bolt for tightening the cutter are included.

DCSFMS shows the cutter mounting surface diameter. Use caution if the mounting surface diameter is small relative to the cutter outer diameter.

Identification Code

S-SDF36 47 FMH 22 L180

Connection Method

Body Dia.

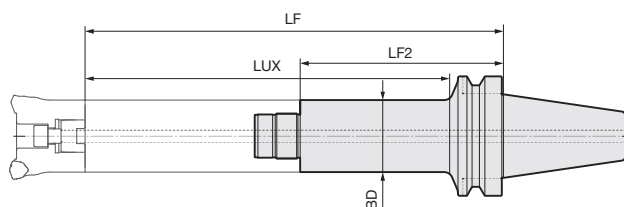
Series Code

Shank
Dia.

Overhang

Basic Holder BBT50 Type

Fig 1



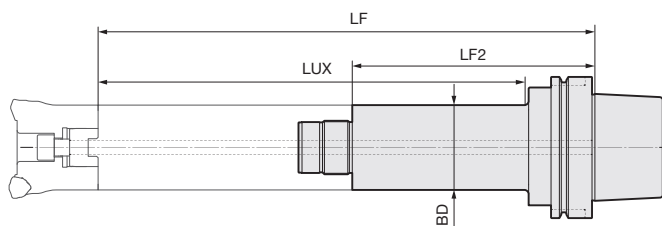
Stock Table

Dimensions (mm)

Cat. No.	Stock	Body Dia. BD	Overhang LF	Min. Clamping Length LF2	Effective Overhang LUX	Weight (kg)	Applicable Damper Head	Fig
S-SDF3647L170-BBT50	★	47	350	170	297	5.6	S-SDF3647FMH○○L○○○	1
S-SDF3647L220-BBT50	★	47	400	200	347	6.3	S-SDF3647FMH○○L○○○	1
S-SDF3660L170-BBT50	★	60	350	170	297	6.7	S-SDF3660FMH○○L○○○	1
S-SDF3660L220-BBT50	★	60	400	200	347	7.8	S-SDF3660FMH○○L○○○	1

Basic Holder HSK-A100 Type

Fig 1



Stock Table

Dimensions (mm)

Cat. No.	Stock	Body Dia. BD	Overhang LF	Min. Clamping Length LF2	Effective Overhang LUX	Weight (kg)	Applicable Damper Head	Fig
S-SDF3647L170-HSKA100	★	47	350	170	310	4.4	S-SDF3647FMH○○L○○○	1
S-SDF3647L220-HSKA100	★	47	400	220	360	5.0	S-SDF3647FMH○○L○○○	1
S-SDF3660L170-HSKA100	★	60	350	170	310	5.5	S-SDF3660FMH○○L○○○	1
S-SDF3660L220-HSKA100	★	60	400	220	360	6.0	S-SDF3660FMH○○L○○○	1

Identification Code

S-SDF36 47 L170 - BBT50

Connection Method

Body Dia.

Min. Clamping
Length

Shank type

*Smart Damper™ is a registered trademark of BIG DAISHOWA Co., Ltd.

★ Worldwide Warehouse Item

G25

Tooling

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Tooling

Cartridges



ABS SYSTEM ARE MADE TO ORDER ITEMS

■ Features

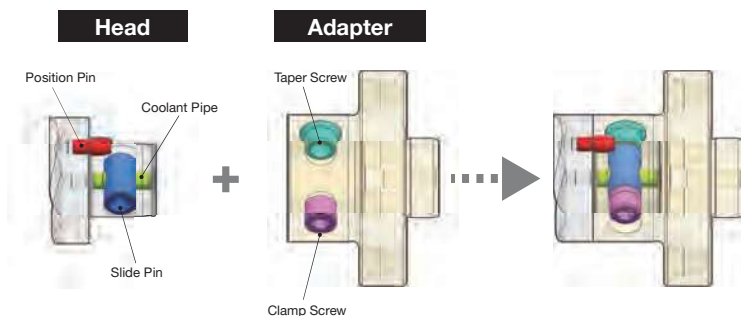
The IGETALLOY ABS system has received high acclamation worldwide for its strong clamping force, high rigidity and high precision. ABS is one of the quick change systems for round tools, which increases our customers' productivity in special tooling applications, while simplifying and standardising these special tools.

The SBA system is also available. For details, please contact us.

■ Overview

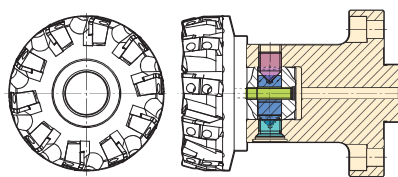
- The clamp screw, taper screw and slide pin act as a wedge for strong holding force.
- High rigidity, high precision. High indexing accuracy during tool changes.
- A wide array of sizes are available to cover a variety of tools.
- Easy handling allows short tool change times.
- Allows coolant supply from inside the spindle.
- Strong clamping force with small diameters.

■ Clamp Mechanism

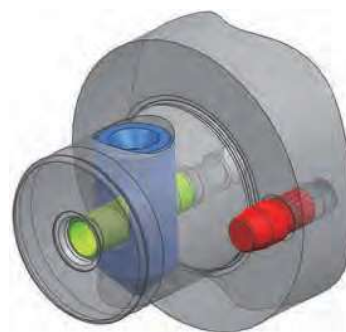
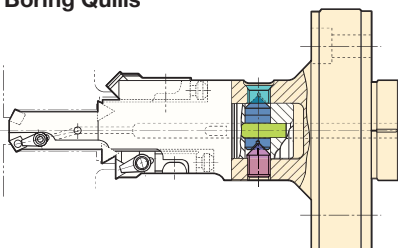


■ ABS System Design Examples

Indexable Cutters



Boring Quills



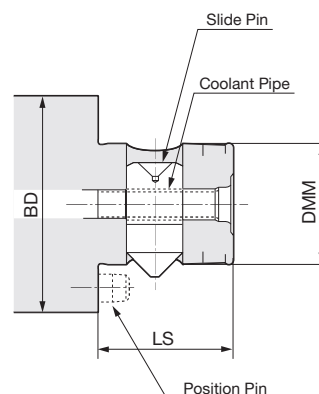
■ ABS Standard (Head)

Head Dimensions

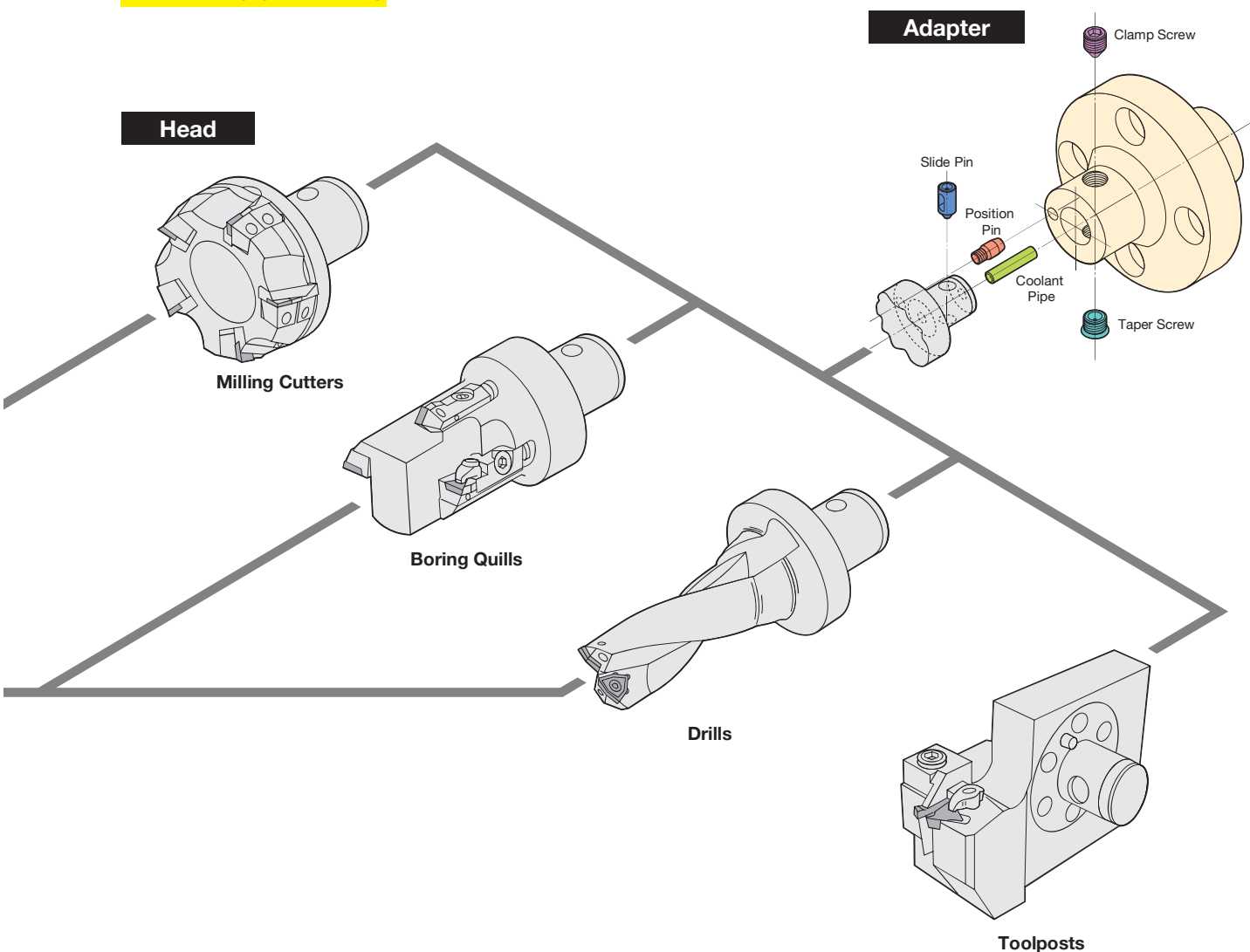
Cat. No.	Dimensions (mm)		
	Body Dia. BD	Shank Dia. DMM	Shank Length LS
ABS 25M	25	13	20
ABS 32M	32	16	23
ABS 40M	40	20	26
ABS 50M	50	28	31
ABS 63M	63	34	38
ABS 80M	80	46	43

Spare Parts

Set Cat. No.	Slide Pin	Position Pin	Coolant Pipe
ABS 25-ES-M3	ABS 25-E3.2	ABS 25-E4	ABS 25-E6
ABS 32-ES-M3	ABS 32-E3.2	ABS 32-E4	ABS 32-E6
ABS 40-ES-M3	ABS 40-E3.2	ABS 40-E4	ABS 40-E6
ABS 50-ES-M3	ABS 50-E3.2	ABS 50-E4	ABS 50-E6
ABS 63-ES-M3	ABS 63-E3.2	ABS 63-E4	ABS 63-E6
ABS 80-ES-M3	ABS 80-E3.2	ABS 80-E4	ABS 80-E6



**ABS SYSTEM
ARE MADE TO ORDER ITEMS**



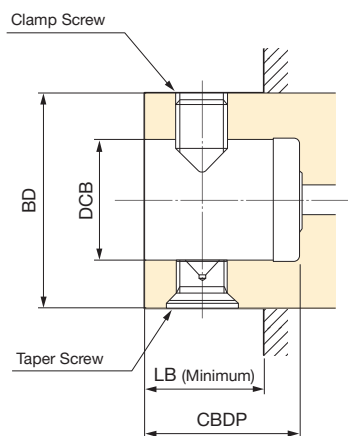
Tooling

G

Tooling

Cartridges

■ ABS Standard (Adapter)



Adapter Dimensions

Dimensions (mm)

Cat. No.	Body Dia.		Shank Dia.		Shank Length Min. Clamping Length
	BD	DCB	CBDP	LB	
ABS 25W	25	13	22	13.0	
ABS 32W	32	16	25	16.0	
ABS 40W	40	20	30	18.5	
ABS 50W	50	28	34	22.0	
ABS 63W	63	34	41	28.0	
ABS 80W	80	46	48	34.0	
ABS100W	100	56	58	40.5	
ABS125W	125	70	76	51.0	
ABS160W	160	90	96	53.0	
ABS200W	200	112	116	82.0	

Spare Parts

Set Cat. No.	Clamp Screw	Taper Screw
ABS 25-FS-W	ABS 25-F1	ABS 25-F2
ABS 32-FS-W	ABS 32-F1	ABS 32-F2
ABS 40-FS-W	ABS 40-F1	ABS 40-F2
ABS 50-FS-W	ABS 50-F1	ABS 50-F2
ABS 63-FS-W	ABS 63-F1	ABS 63-F2
ABS 80-FS-W	ABS 80-F1	ABS 80-F2
ABS100-FS-W	ABS100-F1	ABS100-F2
ABS125-FS-W	ABS125-F1	ABS125-F2
ABS160-FS-W	ABS160-F1	ABS160-F2
ABS200-FS-W	ABS200-F1	ABS200-F2

Modular Taper Shank / HSK Tooling System

*Catalog numbers have been changed due to the establishment of ISO standard ISO 26622-1:2008.

Modular Taper Shank



This has widespread use throughout Europe and the United States.

HSK Tooling System



This hollow shank was developed by RWTH Aachen University and the German Industry Association, and has been adopted as an ISO standard.

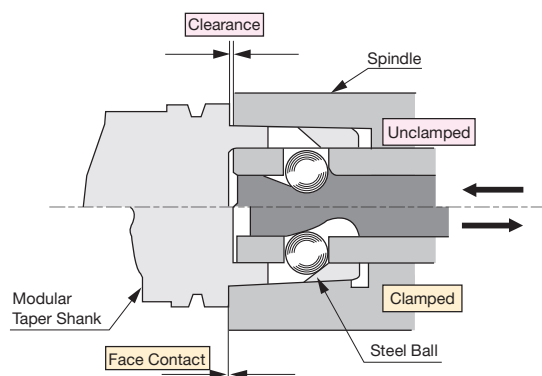
Features

- Tool shape suitable for high-speed rotations.
- Achieving high-precision machining by increasing rigidity at high-speed rotations with two locating faces on the taper and flange, along with an excellent clamping mechanism.
- Hollow and short taper reduces weight and shortens ATC time when changing tools.

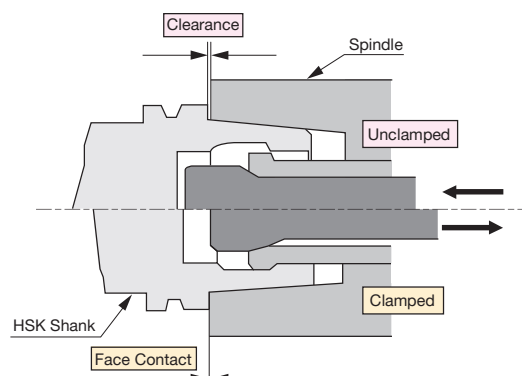
Features

- DIN standard with 2 locating faces.
- Two locating faces on the taper and flange for high precision and high rigidity machining.
- Hollow and short taper reduces weight and allows for high-speed ATC.

Mechanism



Mechanism



Size

	Cat. No.	Mounting Dia.	
		DCON	DCON2
	TS32	32	24
	TS40	40	30
	TS50	50	40
	TS63	63	50
	TS80	80	64

Size

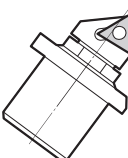
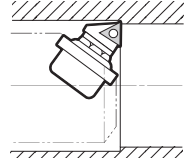
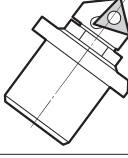
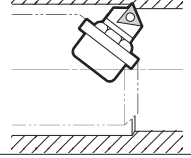
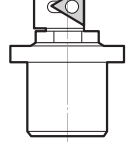
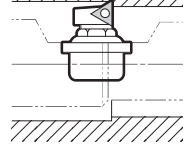
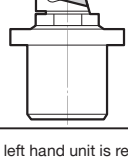
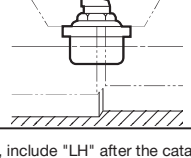
	Cat. No.	Mounting Dia.	
		DCON	DCON2
	HSK A32	32	24
	HSK A40	40	30
	HSK A50	50	38
	HSK A63	63	48
	HSK A80	80	60
	HSK A100	100	75

Micro Units

This section introduces an overview of the series.
Refer to the separate "SEC-Cartridge Unit / Micro Unit" catalog for details on Micro Units (holders, inserts, spare parts) and quill unit seat machining.

Note: Use MUP type micro units when designing new tooling.
Conventional tool types (MUN type) are manufactured only as replacement parts.

■ Micro Unit Cat. No. by Model / Tooling Type

		MUP Type			MUN Type		
							
Illustrations	Tooling	Cat. No.	Min. Bore Dia. (mm)	Stock	Cat. No.	Min. Bore Dia. (mm)	Stock
		MUP1-A0	25	★	MUN2-A0	36	
		MUP2-A0	36	★	MUN3-A0	47	
		MUP3-A0	47	★	MUN3L-A0	54	
		MUP4-A0	73		MUN4-A0	73	
					MUN4L-A0	78	
		MUP1-A15	25		MUN2-A15	36	
		MUP2-A15	36		MUN3-A15	47	
		MUP3-A15	47		MUN3L-A15	54	
		MUP4-A15	73		MUN4-A15	73	
					MUN4L-A15	78	
		MUP1-V0	25	★	MUN2-V0	36	
		MUP2-V0	36	★	MUN3-V0	47	
		MUP3-V0	47	★	MUN3L-V0	54	
		MUP4-V0	73		MUN4-V0	73	
					MUN4L-V0	78	
		MUP1-V15	25		MUN2-V15	36	
		MUP2-V15	36		MUN3-V15	47	
		MUP3-V15	47		MUN3L-V15	54	
		MUP4-V15	73		MUN4-V15	73	
					MUN4L-V15	78	

*If a left hand unit is required, include "LH" after the catalogue number. (Ex.: MUP1-A0-LH, MUP1-V0-LH)

*Inserts and wrenches are not included with Micro Units.

★ Worldwide Warehouse Item

Tooling

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Tooling

Cartridges

Cartridge Units

This section introduces an overview of the series.

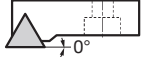
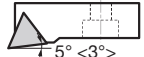
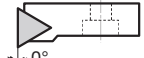
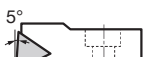
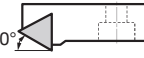
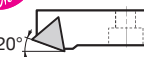
Refer to the separate "SEC-Cartridge Unit/Micro Unit" catalogue for details on Micro Units (holders, inserts, spare parts) and quill unit seat machining.

■ Features of Each Model

Classification	Standard type	MINIT type			ISO type		
Cat. No.	BU type	MINIT P24 type	MINIT N38 type	SP type/SX type/SC type	CP type	CE type	PN type
Shape	The most common type of cartridge units	Mini type with good edge sharpness and chip control	Compact type for multi-tooling configurations	Screw-on type positive cutting edge with excellent sharpness and chip evacuation	Positive cutting edge type for low-rigidity work	High rake cutting edge type for non-ferrous metal machining	Negative cutting edge type with excellent compatibility and economy
Items							
Clamp Mechanism	Pin Lock	Screw-on	Pin Lock	Screw-on	Clamp-on	Clamp-on	Pin Lock
Adjustability	Yes	Axial: No Radial: Yes	No (By using shims)	Yes	Yes	Yes	Yes
Rake Angle	Neg.	Pos.	Neg.	Pos.	Pos.	Pos.	Neg.
Applicable Insert Relief Angle	0°	11°	0°	11° (SP type) 7° (SX type/SC type)	11°	20°	0°
Cutting Edge Position	Above centre	Above centre and on centre	Above centre	On Centre	On Centre	On Centre	On Centre
Min. Bore Dia. (mm)	ø24	ø24	ø38	ø30	ø30	ø30	ø38

■ Cartridge Unit Cat. No. (For Triangular Inserts) by Model/Tooling type

() shows the min. bore diameter (mm).

Configuration	BU type	Stock R L	MINIT P24 type	Stock R L	MINIT N38 type	Stock R L	SP type/SX type/SC type	Stock R L	CP type	Stock R L	CE type	Stock R L	PN type	Stock R L
					MTGN3 R/L(38)	★ ★	STGP R/L-10CA(38)	★ ★	CTGP R/L10CA(38)	★ ★	CTGE R/L10CA(38)		PTGN R/L10CA(38)	★ ★
							STGP R/L-12CA(50)	★ ★	CTGP R/L12CA(50)	★ ★	CTGE R/L12CA(50)		PTGN R/L12CA(50)	★ ★
							STGP R/L-16CA(60)	★ ★	CTGP R/L16CA(60)	★ ★			PTGN R/L16CA(60)	★ ★
													PTGN R/L20CA(70)	★
	BU224 R/L(48) ★		MTJP22 R/L(24) ★	★	MTJN3 R/L(38) ★	★	STJP R/L-10CA(38)	★ ★	CTJP R/L10CA(38)	★	CTJE R/L10CA(38)	★		
	BU225 R/L(60) ★						STJP R/L-12CA(50)	★ ★	CTJP R/L12CA(50)	★	CTJE R/L12CA(50)	★		
							STJP R/L-16CA(55)	★ ★	CTJP R/L16CA(55)					
	BU252 R/L(24) ★ ★		MTFP22 R/L(24) ★ ★	★ ★	MTFN3 R/L(38) ★ ★	★ ★	STFP R/L- 8CA(30)	★ ★	CTFP R/L 8CA(30)	★ ★	CTFE R/L 8CA(30)	★ ★	PTFN R/L10CA(38)	★ ★
	BU253 R/L(30) ★						STFP R/L-10CA(38)	★ ★	CTFP R/L10CA(38)	★ ★	CTFE R/L10CA(38)	★ ★	PTFN R/L12CA(50)	★ ★
	BU254 R/L(38) ★						STFP R/L-12CA(50)	★ ★	CTFP R/L12CA(50)	★ ★	CTFE R/L12CA(50)	★ ★	PTFN R/L16CA(55)	★ ★
	BU255 R/L(48) ★ ★						STFP R/L-16CA(55)	★ ★	CTFP R/L16CA(55)	★ ★	CTFE R/L16CA(55)	★	PTFN R/L20CA(70)	★ ★
	BU256 R/L(55) ★								CTFP R/L20CA(70)	★ ★	CTFE R/L20CA(70)	★		
	BU293 R/L(30) ★		MTUP22 R/L(24) ★ ★	★ ★	MTUN3 R/L(38) ★ ★	★ ★	STUP R/L-10CA(38)	★ ★	CTUP R/L10CA(38)	★ ★	CTUE R/L10CA(38)	★		
	BU294 R/L(38) ★						STUP R/L-12CA(50)	★ ★	CTUP R/L12CA(50)	★	CTUE R/L12CA(50)			
	BU295 R/L(48) ★ ★						STUP R/L-16CA(55)	★ ★	CTUP R/L16CA(55)	★				
	BU295ER/L(48) ★													
							STTP R/L- 8CA(30)	★ ★	CTTP R/L 8CA(30)	★	CTTE R/L 8CA(30)	★	PTTN R/L10CA(38)	★
							STTP R/L-10CA(38)	★ ★	CTTP R/L10CA(38)	★ ★	CTTE R/L10CA(38)	★	PTTN R/L12CA(50)	★ ★
							STTP R/L-12CA(50)	★ ★	CTTP R/L12CA(50)	★ ★	CTTE R/L12CA(50)	★	PTTN R/L16CA(60)	★
							STTP R/L-16CA(60)	★ ★	CTTP R/L16CA(60)	★ ★	CTTE R/L16CA(60)			
							STSP R/L-10CA(38)	★ ★	CTSP R/L10CA(38)	★	CTSE R/L 8CA(30)	★		
							STSP R/L-12CA(50)	★ ★	CTSP R/L12CA(50)	★	CTSE R/L10CA(38)	★		
							STSP R/L-16CA(55)	★ ★	CTSP R/L16CA(55)	★	CTSE R/L12CA(50)	★		
											CTSE R/L16CA(55)			
			MTWP22 R/L(24) ★ ★	★ ★	MTWN3 R/L(38) ★	★	STWP R/L- 8CA(30)	★ ★	CTWP R/L 8CA(30)	★	CTWE R/L 8CA(30)	★		
							STWP R/L-10CA(38)	★ ★	CTWP R/L10CA(38)	★ ★	CTWE R/L10CA(38)	★		
							STWP R/L-12CA(50)	★ ★	CTWP R/L12CA(50)	★ ★	CTWE R/L12CA(50)	★		
							STWP R/L-16CA(55)	★ ★	CTWP R/L16CA(55)		CTWE R/L16CA(55)			
							STRP R/L 8CA(30)	★ ★	CTRP R/L 8CA(30)	★	CTRE R/L 8CA(30)	★		
							STRP R/L 10CA(38)	★ ★	CTRP R/L 10CA(38)	★ ★	CTRE R/L 10CA(38)	★		
							STXP R/L 8CA(30)	★ ★	CTXP R/L 8CA(30)	★ ★	CTXE R/L 8CA(30)	★ ★		
							STXP R/L 10CA(38)	★ ★	CTXP R/L 10CA(38)	★ ★	CTXE R/L 10CA(38)	★ ★		

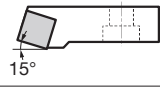
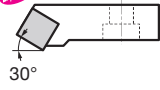
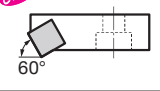
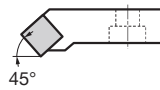
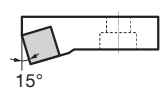
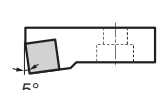
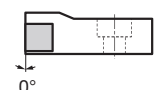
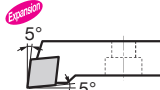
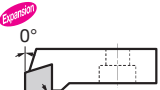
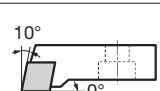
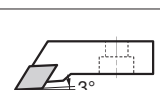
*Inserts and wrenches are not included with Cartridge Units.

★ Worldwide Warehouse Item

Cartridge Units

■ Tool Holder Cat. No. (For Square Inserts, 80°, 55°, Diamond Inserts)

() shows the min. bore diameter (mm).

Configuration	BU type	Stock R L	MINIT P24 type	Stock R L	MINIT N38 type	Stock R L	Example SP type/SX type/SC type	Stock R L	Example CP type	Stock R L	Example CE type	Stock R L	PN type	Stock R L
	BU113 R/L(30) ★ BU114 R/L(38) ★ BU115 R/L(48) ★	★ ★ ★			MSRN4 R/L(38) ★ ★	SSRP R/L-10CA(38) ★ ★		★ ★	CSRP R/L 10CA(38) ★ CSRP R/L 12CA(50) ★ CSRP R/L 16CA(55) ★	★ ★ ★	CSRE R/L 10CA(38) ★ CSRE R/L 12CA(50) ★	★ ★		
	BU133 R/L(30) ★ BU134 R/L(38) ★ ★ BU135 R/L(48) ★ ★	★ ★ ★ ★ ★	MSTP04 R/L(24) ★ ★		MSTN4 R/L(38) ★ ★	SSTP R/L 10CA(38) ★ ★		★ ★	CSTP R/L 8CA(30) ★ ★ CSTP R/L 10CA(38) ★ ★	★ ★ ★ ★	CSTE R/L 8CA(30) ★ ★ CSTE R/L 10CA(38) ★ ★	★ ★ ★ ★		
	BU134E R/L(30) ★ BU135E R/L(38) ★	★ ★												
							SSWP R/L 10CA(38) ★ ★	★ ★	CSWP R/L 8CA(30) ★ ★ CSWP R/L 10CA(38) ★ ★	★ ★ ★ ★	CSWE R/L 8CA(30) ★ ★ CSWE R/L 10CA(38) ★ ★	★ ★ ★ ★		
	BU142 R/L(24) ★ ★ BU143 R/L(30) ★ BU144 R/L(38) ★ ★ BU145 R/L(48) ★ ★	★ ★ ★ ★ ★ ★ ★	MSSP04 R/L(24) ★ ★		MSSN4 R/L(38) ★ ★	SSSP R/L- 8CA(30) ★ ★ SSSP R/L-10CA(38) ★ ★		★ ★	CSSP R/L 8CA(30) ★ CSSP R/L 10CA(38) ★ CSSP R/L 12CA(50) ★ CSSP R/L 16CA(55) ★	★ ★ ★ ★	CSSE R/L 8CA(30) ★ CSSE R/L 10CA(38) ★ CSSE R/L 12CA(50) ★ CSSE R/L 16CA(55) ★	★ ★ ★ ★	PSSN R/L 10CA(38) ★ ★ PSSN R/L 12CA(50) ★ ★ PSSN R/L 16CA(55) ★ ★	★ ★ ★ ★ ★ ★
	BU152 R/L(24) ★ ★ BU153 R/L(30) ★ ★ BU154 R/L(38) ★ ★ BU155 R/L(48) ★ ★	★ ★ ★ ★ ★ ★ ★ ★			MSKN4 R/L(38) ★ ★	SSKP R/L- 8CA(30) ★ ★ SSKP R/L-10CA(38) ★ ★		★ ★	CSKP R/L 8CA(30) ★ CSKP R/L 10CA(38) ★ CSKP R/L 12CA(50) ★ CSKP R/L 16CA(55) ★	★ ★ ★ ★	CSKE R/L 8CA(30) ★ CSKE R/L 10CA(38) ★ CSKE R/L 12CA(50) ★ CSKE R/L 16CA(55) ★	★ ★ ★ ★	PSKN R/L 10CA(38) ★ PSKN R/L 12CA(50) ★ PSKN R/L 16CA(55) ★ PSKN R/L 20CA(70) ★	★ ★ ★ ★
	BU183 R/L(30) ★ BU184 R/L(38) ★ BU185 R/L(48) ★	★ ★ ★	MSYP04 R/L(24) ★ ★		MSYN4 R/L(38) ★ ★	SSYP R/L- 8CA(30) ★ ★ SSYP R/L-10CA(38) ★ ★		★ ★	CSYP R/L 8CA(30) ★ CSYP R/L 10CA(38) ★ CSYP R/L 12CA(50) ★ CSYP R/L 16CA(55) ★	★ ★ ★ ★	CSYE R/L 8CA(30) ★ CSYE R/L 10CA(38) ★ CSYE R/L 12CA(50) ★ CSYE R/L 16CA(55) ★	★ ★ ★ ★	PSYN R/L 10CA(38) ★ PSYN R/L 12CA(50) ★ PSYN R/L 16CA(55) ★ PSYN R/L 20CA(70) ★	★ ★ ★ ★
	BU194 R/L(30) ★ BU195 R/L(38) ★	★ ★												
					MCLN4 R/L(38) ★ ★	SXLP R 8CA(30) ★ SXLP R 10CA(38) ★ SCLC R/L 10CA(56) ★		★ ★ ★					PCLN R/L 12CA(50) ★ ★ PCLN R/L 16CA(55) ★ ★ PCLN R/L 20CA(70) ★ ★	★ ★ ★ ★ ★ ★
					MCFN4 R/L(38) ★ ★	SXFP R 8CA(30) ★ SXFP R 10CA(38) ★ SCFC R/L 10CA(56) ★		★ ★ ★						
					MCGN4 R/L(38) ★ ★									
					MDJN4 R/L(38) ★ ★									
						SDAC R/L 10CA(56) ★ ★		★ ★						
						SDBC R/L 10CA(56) ★ ★		★ ★						

*Inserts and wrenches are not included with Cartridge Units.

★ Worldwide Warehouse Item

Tooling

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Tooling

Cartridges

Boring Quill / Carbide Line Boring Bar

This section introduces an overview of the series.
Please inquire with Sumitomo Engineering for more
details on these products.

Indexable Cartridges and Boring Quills



Carbide Line Boring Bar

Carbide Line Bar Equipped with Cartridges

