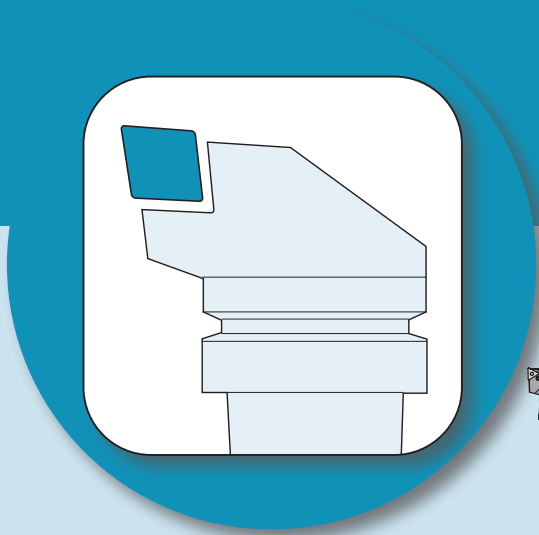




Tools for Turning Mill

N1~N28



Tools for Turning Mill

N2~N20

Polygon Taper Shank KPC Series

N2

HSK-T (ICTM Standard) Tooling

N12

Quick Change System

N21~N22

KQC

Petal-shaped adapter

N21

Cartridge

N23~N26

Lever Lock

PS□□ / PT□□

N24

Top Clamp

CT□□

N25

Screw Clamp

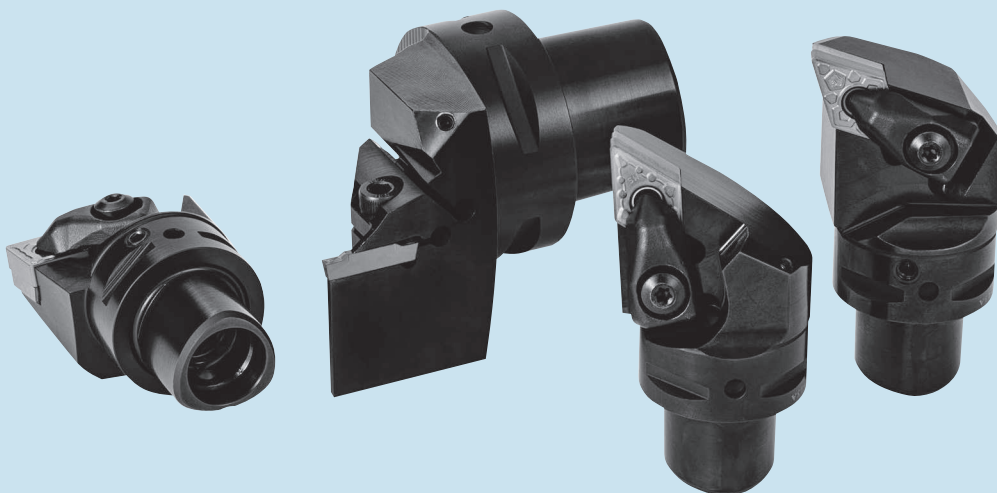
ST□□

N26

Flange holder For Back Facing

N27~N28

Parts Compatibility of Lever Lock Toolholders  **R55**



Polygon Taper Shank

Polygon Taper Shank

PSC Shank Tools

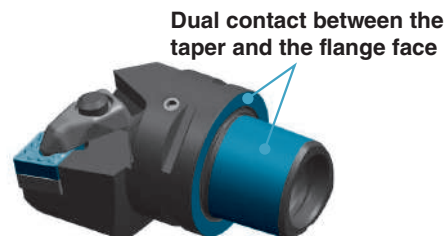
JIS B 6066-1

ISO26623-1 Polygonal taper interface with flange contact surface

Features

1 High Rigidity

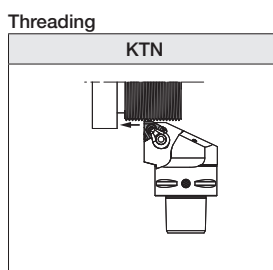
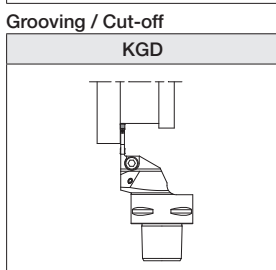
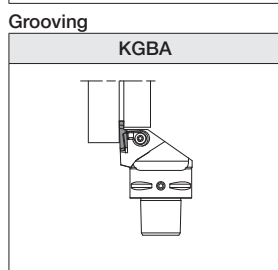
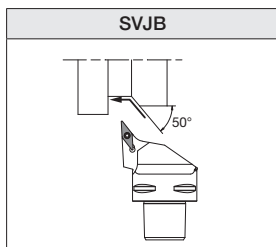
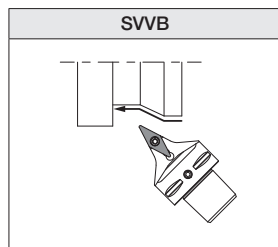
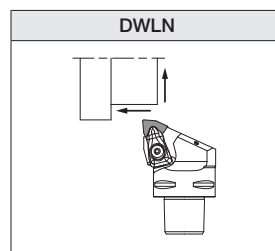
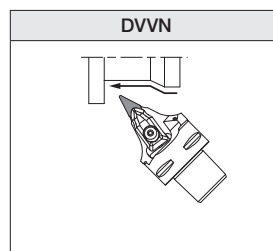
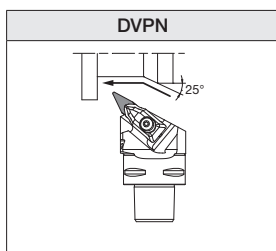
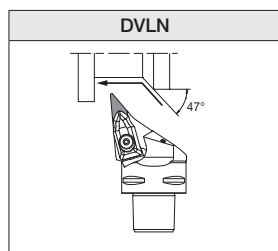
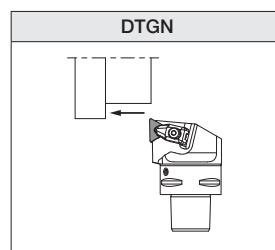
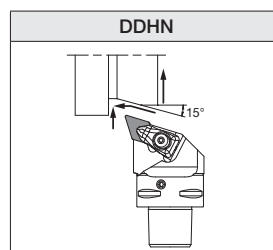
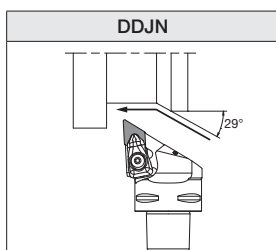
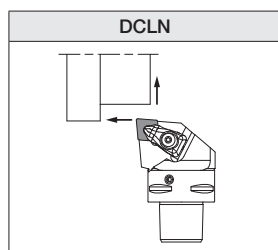
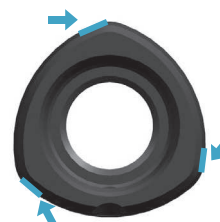
Polygon taper design and dual contact between the taper and the flange face for high rigidity



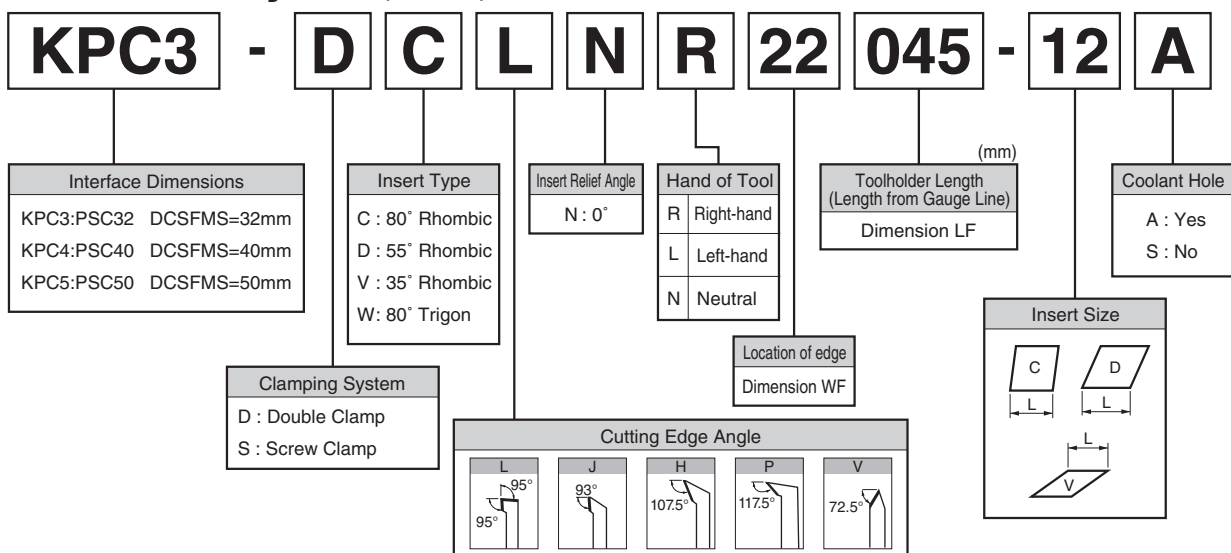
2 High Precision

Locational accuracy within $\pm 2\mu\text{m}$

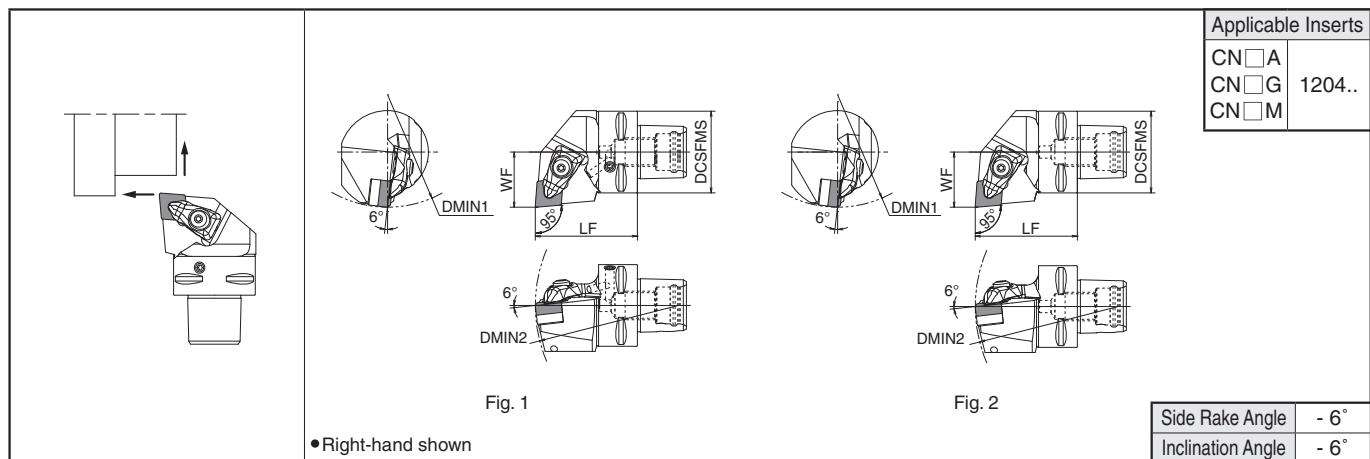
Distributes cutting forces evenly between 3 faces for enhanced rigidity and centering accuracy



Identification System (External)



DCLN (External / Facing)



Toolholder Dimensions

Description	Stock		Coolant Hole	Dimension (mm)					Std. Corner-R (RE)	Drawing	Spare Parts					
	R	L		DCSFMS	LF	WF	DMIN1	DMIN2			Clamp	Screw	Spring	Shim	Shim Screw	Wrench
														 SP-441P DC-44		
KPC3-DCLN ^{R/L} 22045-12A	●	●	Yes	32	45	22	60	121	0.8	Fig. 1	CP-3D-S	CS-3D-TR	SP-3D	SP-441P (*3 SP-441P-C)	M3X8	FT-15
KPC4-DCLN ^{R/L} 27050-12A	●	●		40	50	27	110	140						DC-44 (*3 DC-44-C)	SB-4085TR	
KPC5-DCLN ^{R/L} 35060-12A	●	●		50	60	35	110	165								
KPC3-DCLN ^{R/L} 22045-12S	●	●	No	32	45	22	60	121	0.8	Fig. 2	CP-3D-S	CS-3D-TR	SP-3D	SP-441P (*3 SP-441P-C)	M3X8	FT-15
KPC4-DCLN ^{R/L} 27050-12S	●	●		40	50	27	110	140						DC-44 (*3 DC-44-C)	SB-4085TR	
KPC5-DCLN ^{R/L} 35060-12S	●	●		50	60	35	110	165								

*1 Pressure Resistance: Up to 7 MPa

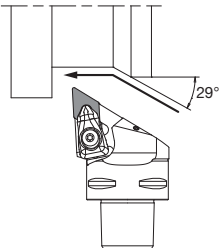
*2 When using inserts whose corner-R(RE) is greater than 1.2mm, it could be necessary additional modifications on the toolholder or the shim in order to prevent interfere with workpiece.

*3 When using the inserts with SX chipbreaker, prepare a shim separately.

*4 Recommended tightening torque 3.9N·m

Polygon Taper Shank

DDJN (External / Copying)



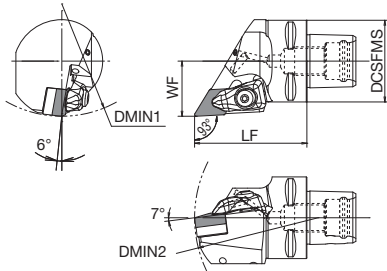


Fig. 1

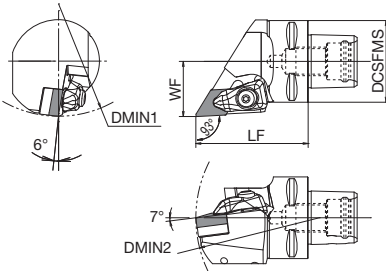


Fig. 2

● Right-hand shown

Applicable Inserts	
DN ☐ A	1504..
DN ☐ G	(1506..)
DN ☐ M	

Side Rake Angle	- 6°
Inclination Angle	- 7°

Toolholder Dimensions

Description	Stock		Coolant Hole	Dimension (mm)					Std. Corner-R (RE)	Drawing	Spare Parts					
	R	L		DCSFMS	LF	WF	DMIN1	DMIN2			Clamp	Screw	Spring	Shim	Shim Screw	Wrench
KPC3-DDJN ^{R/L} 22050-15A	●	●	Yes	32	50	22	110	121	0.8	Fig. 1						
KPC4-DDJN ^{R/L} 27055-15A	●	●		40	55	27	110	145								
KPC5-DDJN ^{R/L} 35060-15A	●	●		50	60	35	110	165								
KPC3-DDJN ^{R/L} 22050-15S	●	●	No	32	50	22	110	121	0.8	Fig. 2						
KPC4-DDJN ^{R/L} 27055-15S	●	●		40	55	27	110	145								
KPC5-DDJN ^{R/L} 35060-15S	●	●		50	60	35	110	165								

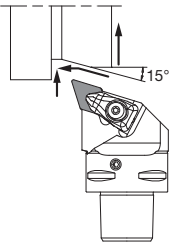
*1 Pressure Resistance: Up to 7 MPa

*2 When using inserts whose corner-R(RE) is greater than 1.2mm, it could be necessary additional modifications on the toolholder or the shim in order to prevent interfere with workpiece.

*3 Shims indicated within brackets () are not included with the toolholder. To change insert thickness, please purchase it separately.

*4 Recommended tightening torque 3.9N·m

DDHN (External / Facing / Copying)



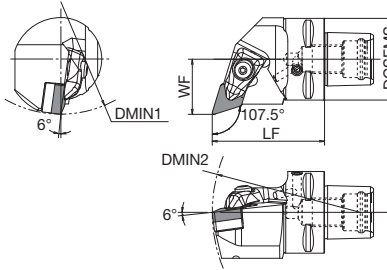


Fig. 1

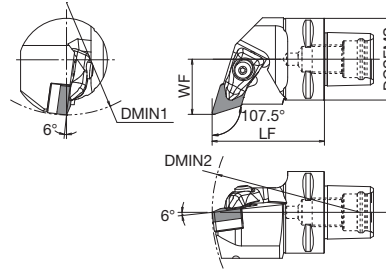


Fig. 2

● Right-hand shown

Applicable Inserts	
DN ☐ A	1504..
DN ☐ G	(1506..)
DN ☐ M	

Side Rake Angle	- 6°
Inclination Angle	- 6°

Toolholder Dimensions

Description	Stock		Coolant Hole	Dimension (mm)					Std. Corner-R (RE)	Drawing	Spare Parts					
	R	L		DCSFMS	LF	WF	DMIN1	DMIN2			Clamp	Screw	Spring	Shim	Shim Screw	Wrench
KPC3-DDHN ^{R/L} 22050-15A	●	●	Yes	32	50	22	110	121	0.8	Fig. 1						
KPC4-DDHN ^{R/L} 27055-15A	●	●		40	55	27	110	145								
KPC5-DDHN ^{R/L} 35060-15A	●	●		50	60	35	110	165								
KPC3-DDHN ^{R/L} 22050-15S	●	●	No	32	50	22	110	121	0.8	Fig. 2						
KPC4-DDHN ^{R/L} 27055-15S	●	●		40	55	27	110	145								
KPC5-DDHN ^{R/L} 35060-15S	●	●		50	60	35	110	165								

*1 Pressure Resistance: Up to 7 MPa

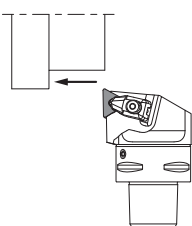
*2 When using inserts whose corner-R(RE) is greater than 1.2mm, it could be necessary additional modifications on the toolholder or the shim in order to prevent interfere with workpiece.

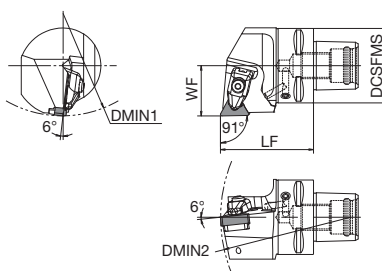
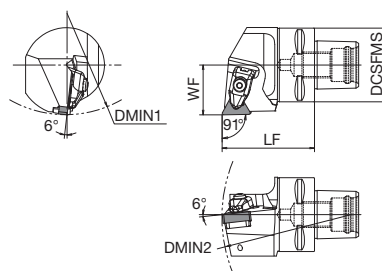
*3 Shims indicated within brackets () are not included with the toolholder. To change insert thickness, please purchase it separately.

*4 Recommended tightening torque 3.9N·m

● : Std. Item

DTGN (External)



Applicable Inserts	
TN ☐ A	1604...
TN ☐ G	
TN ☐ M	
TNMX ☐	

• Right-hand shown

Side Rake Angle	- 6°
Inclination Angle	- 6°

Toolholder Dimensions

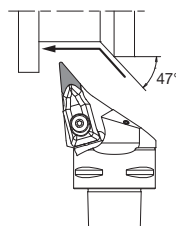
Description	Stock		Coolant Hole	Dimension (mm)					Std. Corner-R (RE)	Drawing	Spare Parts						
	R	L		DCSFMS	LF	WF	DMIN1	DMIN2			Clamp	Screw	Spring	Shim	Shim Screw	Wrench	Wrench (sold separately)
																 for Clamp	 for Shim
KPC3-DTGN ^{1/2} 22040-16A	●	●	Yes	32	40	22	110	116	0.8	Fig.1	CP-2D	CS-2D	SP-2D	DT-32	SB-3080TR	LW-2.5	FT-10
KPC4-DTGN ^{1/2} 27050-16A	●	●		40	50	27	110	140									
KPC5-DTGN ^{1/2} 35060-16A	●	●		50	60	35	110	165									
KPC3-DTGN ^{1/2} 22040-16S	●	●	No	32	40	22	110	116	0.8	Fig.2	CP-2D	CS-2D	SP-2D	DT-32	SB-3080TR	LW-2.5	FT-10
KPC4-DTGN ^{1/2} 27050-16S	●	●		40	50	27	110	140									
KPC5-DTGN ^{1/2} 35060-16S	●	●		50	60	35	110	165									

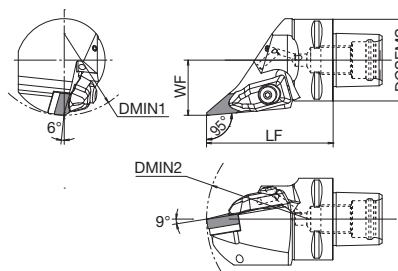
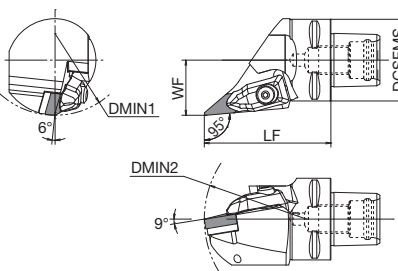
*1 Pressure Resistance: Up to 7 MPa

*2 When using inserts whose corner-R(RE) is greater than 1.6mm, it could be necessary additional modifications on the toolholder or the shim in order to prevent interfere with workpiece.

*3 Recommended tightening torque 1.7N·m

DVLN (External / Copying)



Applicable Inserts	
VN ☐ A	1604..
VN ☐ G	
VN ☐ M	

• Right-hand shown

Side Rake Angle	- 6°
Inclination Angle	- 9°

Toolholder Dimensions

Description	Stock		Coolant Hole	Dimension (mm)					Std. Corner-R (RE)	Drawing	Spare Parts					
	R	L		DCSFMS	LF	WF	DMIN1	DMIN2			Clamp	Screw	Spring	Shim	Shim Screw	Wrench
																
KPC3-DVLN ^{1/2} 22058-16A	●	●	Yes	32	58	22	80	100	0.8	Fig. 1	CP-5D-S	CS-3D-TR	SP-3D	DV-33	SB-4085TR	FT-15
KPC4-DVLN ^{1/2} 27062-16A	●	●		40	62	27	80	100								
KPC5-DVLN ^{1/2} 35065-16A	●	●		50	65	35	80	100								
KPC3-DVLN ^{1/2} 22058-16S	●	●	No	32	58	22	80	100	0.8	Fig. 2	CP-5D-S	CS-3D-TR	SP-3D	DV-33	SB-4085TR	FT-15
KPC4-DVLN ^{1/2} 27062-16S	●	●		40	62	27	80	100								
KPC5-DVLN ^{1/2} 35065-16S	●	●		50	65	35	80	100								

*1 Pressure Resistance: Up to 7 MPa

*2 When using inserts whose corner-R(RE) is greater than 1.2mm, it could be necessary additional modifications on the toolholder or the shim in order to prevent interfere with workpiece.

*3 Recommended tightening torque 3.9N·m

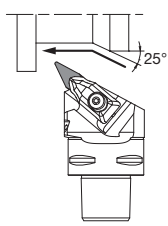
● : Std. Item

Insert Grades
Turning
Indexable Inserts
CN & PCD Tools
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Machining
Small Parts
Boring
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Polygon Taper Shank

DVPN (External / Facing / Copying / Undercutting)



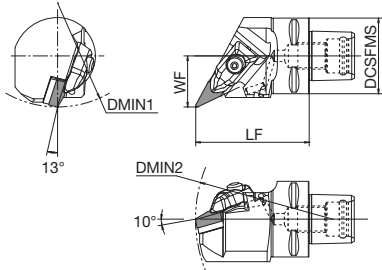


Fig. 1

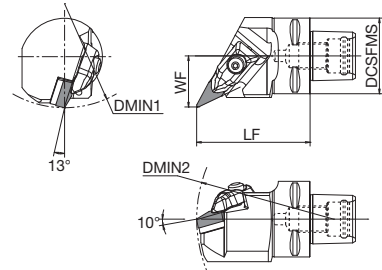


Fig. 2

Applicable Inserts	
VN□A	1604..
VN□G	
VN□M	

• Right-hand shown

Side Rake Angle	- 13°
Inclination Angle	- 10°

Toolholder Dimensions

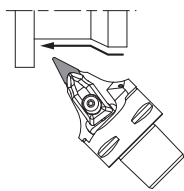
Description	Stock		Coolant Hole	Dimension (mm)					Std. Corner-R (RE)	Drawing	Spare Parts					
	R	L		DCSFMS	LF	WF	DMIN1	DMIN2			Clamp	Screw	Spring	Shim	Shim Screw	Wrench
																
KPC3-DVPN ^{R/L} 22055-16A	●	●	Yes	32	55	22	110	130	0.8	Fig. 1	CP-5D-S	CS-3D-TR	SP-3D	DV-33	SB-4085TR	FT-15
KPC4-DVPN ^{R/L} 27060-16A	●	●		40	60	27	110	145								
KPC5-DVPN ^{R/L} 35065-16A	●	●		50	65	35	110	165								
KPC3-DVPN ^{R/L} 22055-16S	●	●	No	32	55	22	110	130	0.8	Fig. 2	CP-5D-S	CS-3D-TR	SP-3D	DV-33	SB-4085TR	FT-15
KPC4-DVPN ^{R/L} 27060-16S	●	●		40	60	27	110	145								
KPC5-DVPN ^{R/L} 35065-16S	●	●		50	65	35	110	165								

*1 Pressure Resistance: Up to 7 MPa

*2 When using inserts whose corner-R(RE) is greater than 1.2mm, it could be necessary additional modifications on the toolholder or the shim in order to prevent interfere with workpiece.

*3 Recommended tightening torque 3.9N·m

DVVN (External / Copying)



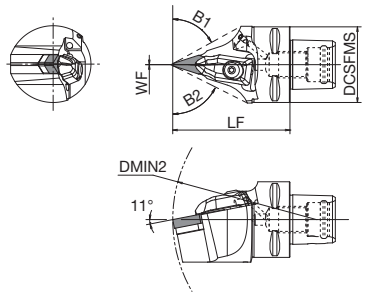


Fig. 1

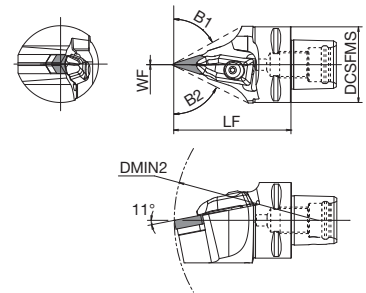


Fig. 2

Applicable Inserts	
VN□A	1604..
VN□G	
VN□M	

Back Rake Angle	- 11°
-----------------	-------

Toolholder Dimensions

Description	Stock			Coolant Hole	Dimension (mm)						Std. Corner-R (RE)	Drawing	Spare Parts					
	R	N	L		DCSFMS	LF	WF	*3 B1 (°)	*3 B2 (°)	DMIN2			Clamp	Screw	Spring	Shim	Shim Screw	Wrench
																		
KPC4-DVVNN 00062-16A		●		Yes	40	62	0	61	63	152	0.8	Fig. 1	CP-5D-S	CS-3D-TR	SP-3D	DV-33	SB-4085TR	FT-15
KPC5-DVVNN 00065-16A		●			50	65	0	59	59	170			CP-5D-S	CS-3D-TR	SP-3D	DV-33	SB-4085TR	FT-15
KPC3-DVVNN 00058-16S		●		No	32	58	0	68	68	140	0.8	Fig. 2	CP-5D-S	CS-3D-TR	SP-3D	DV-33	SB-4085TR	FT-15
KPC4-DVVNN 00062-16S		●			40	62	0	61	63	152			CP-5D-S	CS-3D-TR	SP-3D	DV-33	SB-4085TR	FT-15
KPC5-DVVNN 00065-16S		●			50	65	0	59	59	170			CP-5D-S	CS-3D-TR	SP-3D	DV-33	SB-4085TR	FT-15

*1 Pressure Resistance: Up to 7 MPa

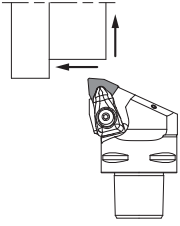
*2 When using inserts whose corner-R(RE) is greater than 1.2mm, it could be necessary additional modifications on the toolholder or the shim in order to prevent interfere with workpiece.

*3 Angle B1 and B2 show the interference angle from the line of cutting edge and toolholder.

*4 Recommended tightening torque 3.9N·m

● : Std. Item

DWLN (External / Facing)



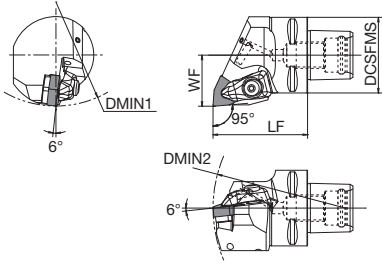


Fig. 1

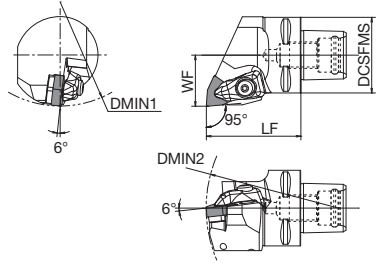


Fig. 2

Applicable Inserts	
WN□A	0804..
WN□G	
WN□M	

Side Rake Angle	- 6°
Inclination Angle	- 6°

● Right-hand shown

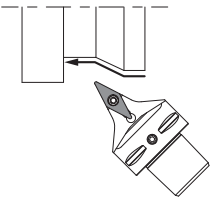
Toolholder Dimensions

Description	Stock		Coolant Hole	Dimension (mm)					Std. Corner-R (RE)	Drawing	Spare Parts					
	R	L		DCSFMS	LF	WF	DMIN1	DMIN2			Clamp	Screw	Spring	Shim	Shim Screw	Wrench
																
KPC3-DWLN ¹ / 22047-08A	●	●	Yes	32	47	22	110	121	0.8	Fig. 1	CP-3D-S	CS-3D-TR	SP-3D	DW-42	SB-4085TR	FT-15
KPC4-DWLN ¹ / 27050-08A	●	●		40	50	27	110	140								
KPC5-DWLN ¹ / 35060-08A	●	●		50	60	35	110	165								
KPC3-DWLN ¹ / 22047-08S	●	●	No	32	47	22	110	121	0.8	Fig. 2	CP-3D-S	CS-3D-TR	SP-3D	DW-42	SB-4085TR	FT-15
KPC4-DWLN ¹ / 27050-08S	●	●		40	50	27	110	140								
KPC5-DWLN ¹ / 35060-08S	●	●		50	60	35	110	165								

*1 Pressure Resistance: Up to 7 MPa

*2 Recommended tightening torque 3.9N·m

SVVB (External / Copying)



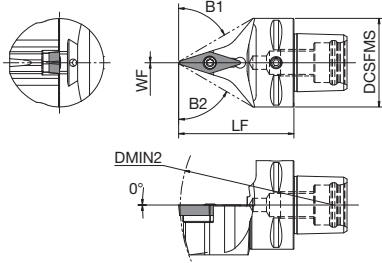


Fig. 1

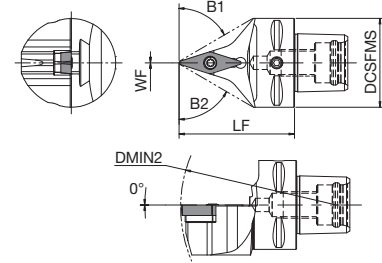


Fig. 2

Applicable Inserts	
VB□□	1604...
VCGT	

Toolholder Dimensions

Description	Stock			Coolant Hole	Dimension (mm)						Std. Corner-R (RE)	Drawing	Spare Parts					
	R	N	L		DCSFMS	LF	WF	*3 B1 (°)	*3 B2 (°)	DMIN1			DMIN2	Clamp Screw	Wrench	Shim	Shim Screw	Wrench
																		
KPC3-SVVB 00048-16A	●			Yes	32	48	0	62	62	-	116	0.8	Fig.1	SB-40125TRN	FT-15	SVN-32N *(SVN-32S)	SS-4N	LW-4
KPC4-SVVB 00052-16A	●				40	52	0	59	59	-	140							
KPC5-SVVB 00060-16A	●				50	60	0	56	56	-	165							
KPC3-SVVB 00048-16S	●			No	32	48	0	62	62	-	116	0.8	Fig.2	SB-40125TRN	FT-15	SVN-32N *(SVN-32S)	SS-4N	LW-4
KPC4-SVVB 00052-16S	●				40	52	0	59	59	-	140							
KPC5-SVVB 00060-16S	●				50	60	0	56	56	-	165							

*1 Pressure Resistance: Up to 7 MPa

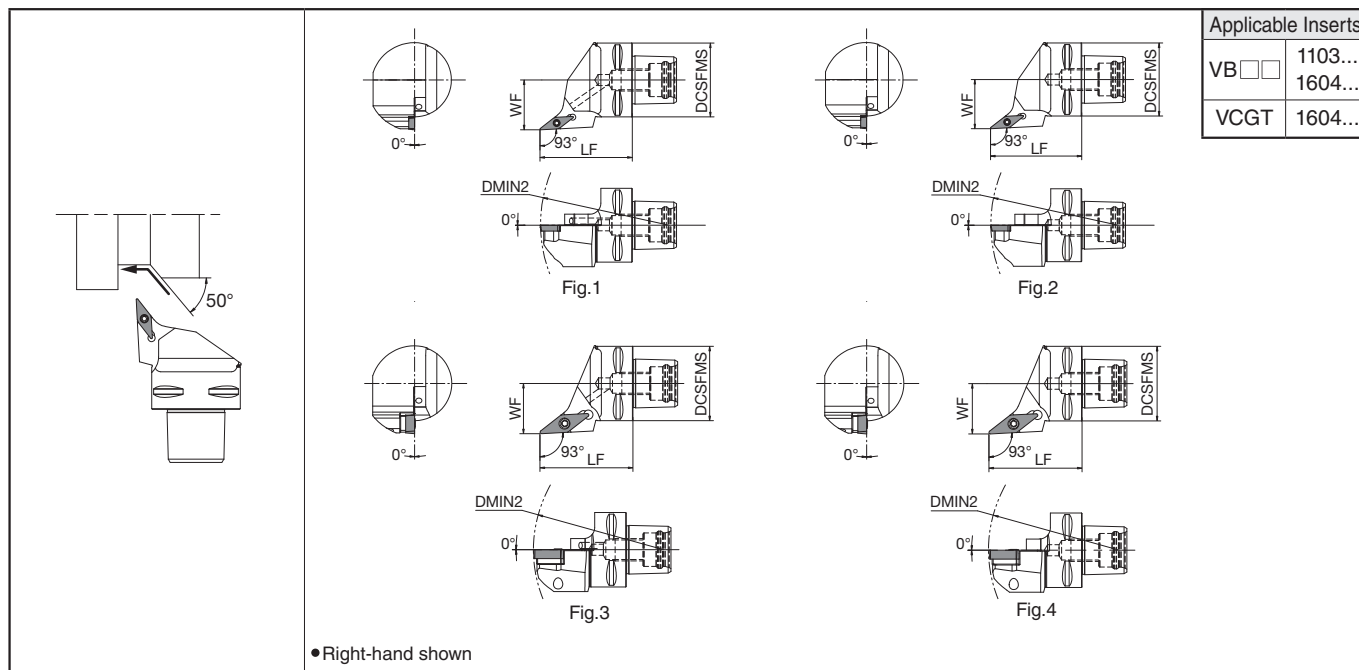
*2 For insert with corner-R(RE) 0.2 or 0.4mm, shim of marked * is recommended (sold separately).

*3 Angle B1 and B2 show the interference angle from the line of cutting edge and toolholder.

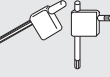
*4 Recommended tightening torque 3.5N·m

Polygon Taper Shank

SVJB (External / Copying)



Toolholder Dimensions

Description	Stock		Coolant Hole	Dimension (mm)					Std. Corner-R (RE)	Drawing	Spare Parts				
	R	L		DCSFMS	LF	WF	DMIN1	DMIN2			Clamp Screw	Wrench	Shim	Shim Screw	Wrench
															
*3 KPC3-SVJB ^{1/2} 22040-11A	●	●	Yes	32	40	22	-	116	0.4	Fig.1	SB-2570TR	FT-8	-	-	-
*3 KPC4-SVJB ^{1/2} 27050-11A	●	●		40	50	27	-	140							
*3 KPC5-SVJB ^{1/2} 35060-11A	●	●		50	60	35	-	165							
*3 KPC3-SVJB ^{1/2} 22040-11S	●	●	No	32	40	22	-	116	0.4	Fig.2	SB-2570TR	FT-8	-	-	-
*3 KPC4-SVJB ^{1/2} 27050-11S	●	●		40	50	27	-	140							
*3 KPC5-SVJB ^{1/2} 35060-11S	●	●		50	60	35	-	165							
*4 KPC3-SVJB ^{1/2} 22047-16A	●	●	Yes	32	47	22	-	116	0.8	Fig.3	SB-40125TRN	FT-15	SVN-32N *(SVN-32S)	SS-4N	LW-4
*4 KPC4-SVJB ^{1/2} 27050-16A	●	●		40	50	27	-	140							
*4 KPC5-SVJB ^{1/2} 35060-16A	●	●		50	60	35	-	165							
*4 KPC3-SVJB ^{1/2} 22047-16S	●	●	No	32	47	22	-	116	0.8	Fig.4	SB-40125TRN	FT-15	SVN-32N *(SVN-32S)	SS-4N	LW-4
*4 KPC4-SVJB ^{1/2} 27050-16S	●	●		40	50	27	-	140							
*4 KPC5-SVJB ^{1/2} 35060-16S	●	●		50	60	35	-	165							

*1 Pressure Resistance: Up to 7 MPa

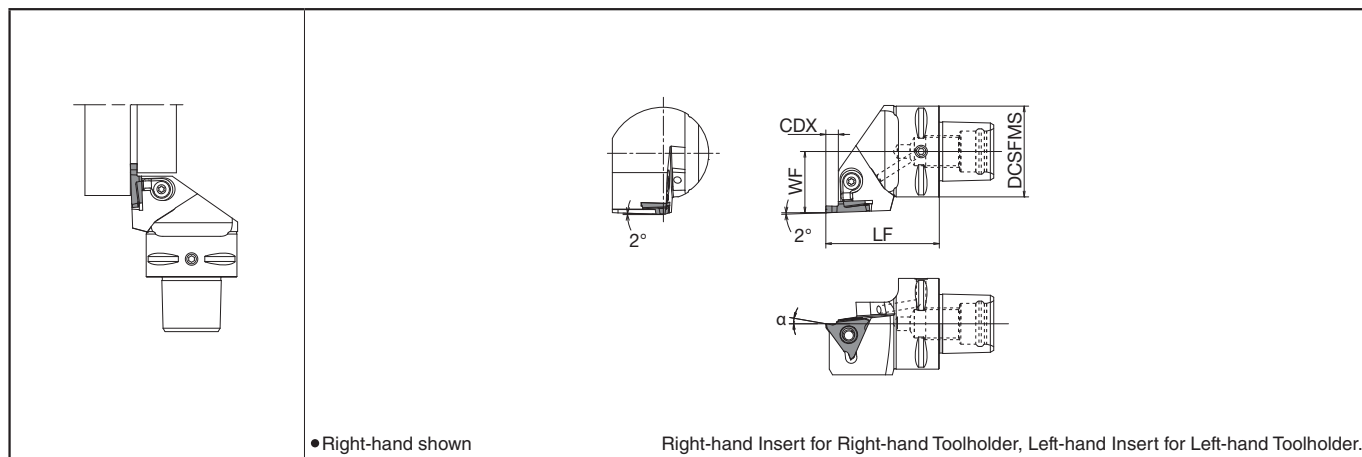
*2 Recommended tightening torque is 1.2N·m for VB□□1103 type and 3.5N·m for VB(C)□□1604 type.

*3 When using inserts whose corner-R(RE) is greater than 0.8mm, it could be necessary additional modifications on the toolholder in order to prevent interfere with workpiece.

*4 When using inserts whose corner-R(RE) is greater than 1.2mm, it could be necessary additional modifications on the toolholder or the shim in order to prevent interfere with workpiece.

*5 For insert with corner-R(RE) 0.2 or 0.4mm, shim of marked * is recommended (sold separately).

KGBA (External Shallow Grooving Toolholders)



Toolholder Dimensions

Description	Stock		Coolant Hole	Dimension (mm)				Spare Parts		Applicable Inserts G6~G8
	R	L		DCSFMS	LF	WF	CDX	Clamp Set	Wrench	
KPC3-KGBA ^{1/2} 22040-16	●	●	Yes	32	40	22	2.5	LGBA-16 ^{1/2} S	FT-15	GBA32 ^{1/2} type
KPC4-KGBA ^{1/2} 27050-16	●	●		40	50	27				
KPC5-KGBA ^{1/2} 35060-16	●	●		50	60	35				
KPC3-KGBA ^{1/2} 22040-2215	●	●	Yes	32	40	22	4.0	LGBA-22 ^{1/2} S	FT-15	GBA43 ^{1/2} type
KPC4-KGBA ^{1/2} 27050-2215	●	●		40	50	27				
KPC5-KGBA ^{1/2} 35060-2215	●	●		50	60	35				
KPC3-KGBA ^{1/2} 22040-2225	●	●	Yes	32	40	22	5.5	LGBA-22 ^{1/2} S	FT-15	GBA43 ^{1/2} type
KPC4-KGBA ^{1/2} 27050-2225	●	●		40	50	27				
KPC5-KGBA ^{1/2} 35060-2225	●	●		50	60	35				
KPC3-KGBA ^{1/2} 22040-2235	●	●	Yes	32	40	22	5.5	LGBA-22 ^{1/2} S	FT-15	GBA43 ^{1/2} type
KPC4-KGBA ^{1/2} 27050-2235	●	●		40	50	27				
KPC5-KGBA ^{1/2} 35060-2235	●	●		50	60	35				

*1 Pressure Resistance: Up to 7 MPa

*2 CDX shows the distance from the toolholder to the cutting edge. Available Groove Depth: "CDX" of Insert.

*3 Clamp Set : LGBA-○○RS for Right-hand Toolholder and LGBA-○○LS for Left-hand Toolholder.

*4 Rake Angle (α) after Installment of Insert (Ref. to the table below.)

Rake Angle (α) after Installment of GBA-GM insert

α	Insert Description
10°	GBA43 ^{1/2} 150-020GM
15°	GBA43 ^{1/2} 175-020GM ~ GBA43 ^{1/2} 265-030GM
12°	GBA43 ^{1/2} 300-030GM ~ GBA43 ^{1/2} 400-040GM

α shows the rake angle at the center of the edge width after installing insert

Rake Angle (α) after Installment of GBA-MY insert

α	Insert Description
15°	GBA43 ^{1/2} 175-020MY ~ GBA43 ^{1/2} 350-030MY
14°	GBA43 ^{1/2} 400-040MY

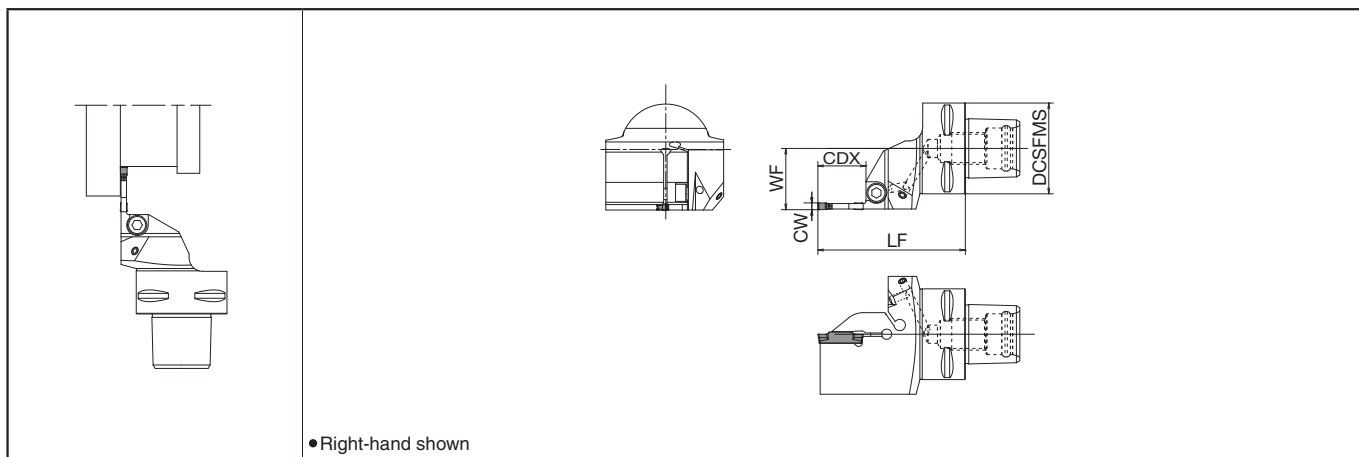
α shows the rake angle at the center of the edge width after installing insert

Rake Angle (α) after Installment of GBA insert

GBA32 ^{1/2} ○○○-○○○		GBA43 ^{1/2} ○○○-○○○		GBA43 ^{1/2} ○○○-○○○R (Full-R)	
α	Insert Grades	α	Insert Grades	α	Insert Grades
10°	TN620, TN90, PV7040, PR930 PR1115, PR1215, PR1625, PR905 KPD001, KPD010	0°	KBN510, KBN525	10°	TN620, TN90, PV7040, PR930 PR1115, PR1215, PR1625, PR905
		10°	TN620, TC40N, TN90, PV7040 PR930, PR1115, PR1215, PR1625 PR905, KPD001, KPD010	14°	TN620, TN90, PV7040, PR930 PR1115, PR1215, PR1625, PR905
		20°	KW10		KW10
					Full-R Description
					050R ~ 150R
					200R
					050R ~ 200R

Polygon Taper Shank

KGD (Grooving / Cut-off Toolholders)



Toolholder Dimensions

Width CW (mm)	Max. depth of cut (mm)	Description	Stock		Coolant Hole	Dimension (mm)				Edge Width CW (mm)		Spare Parts		Applicable Inserts 
			R	L		DCS	FMS	LF	WF	CDX	MIN.	MAX.		
2	10	KPC3-KGD ^{R/L} 22050-2T10	●	●	Yes	32	50	22	10	2.0	3.0			GDM type GDG type
		KPC4-KGD ^{R/L} 27055-2T10	●	●		40	55	27						
		KPC5-KGD ^{R/L} 35060-2T10	●	●		50	60	35						
	17	KPC3-KGD ^{R/L} 22055-2T17	●	●		32	55	22	17					
		KPC4-KGD ^{R/L} 27060-2T17	●	●		40	60	27						
		KPC5-KGD ^{R/L} 35060-2T17	●	●		50	60	35						
3	10	KPC3-KGD ^{R/L} 22050-3T10	●	●		32	50	22	10	3.0	4.0			
		KPC4-KGD ^{R/L} 27055-3T10	●	●		40	55	27						
		KPC5-KGD ^{R/L} 35060-3T10	●	●		50	60	35						
	20	KPC3-KGD ^{R/L} 22060-3T20	●	●		32	60	22	20					
		KPC4-KGD ^{R/L} 27065-3T20	●	●		40	65	27						
		KPC5-KGD ^{R/L} 35065-3T20	●	●		50	65	35						
4	10	KPC3-KGD ^{R/L} 22050-4T10	●	●	32	50	22	10	4.0	5.0				
		KPC4-KGD ^{R/L} 27055-4T10	●	●	40	55	27							
		KPC5-KGD ^{R/L} 35060-4T10	●	●	50	60	35							
	20	KPC4-KGD ^{R/L} 27065-4T20	●	●	40	65	27	20						
		KPC5-KGD ^{R/L} 35065-4T20	●	●	50	65	35							
	25	KPC4-KGD ^{R/L} 27070-4T25	●	●	40	70	27	25						
		KPC5-KGD ^{R/L} 35070-4T25	●	●	50	70	35							
5	10	KPC4-KGD ^{R/L} 27055-5T10	●	●	40	55	27	10	5.0	6.0				
		KPC5-KGD ^{R/L} 35060-5T10	●	●	50	60	35							
	17	KPC4-KGD ^{R/L} 27060-5T17	●	●	40	60	27	17						
		KPC5-KGD ^{R/L} 35060-5T17	●	●	50	60	35							

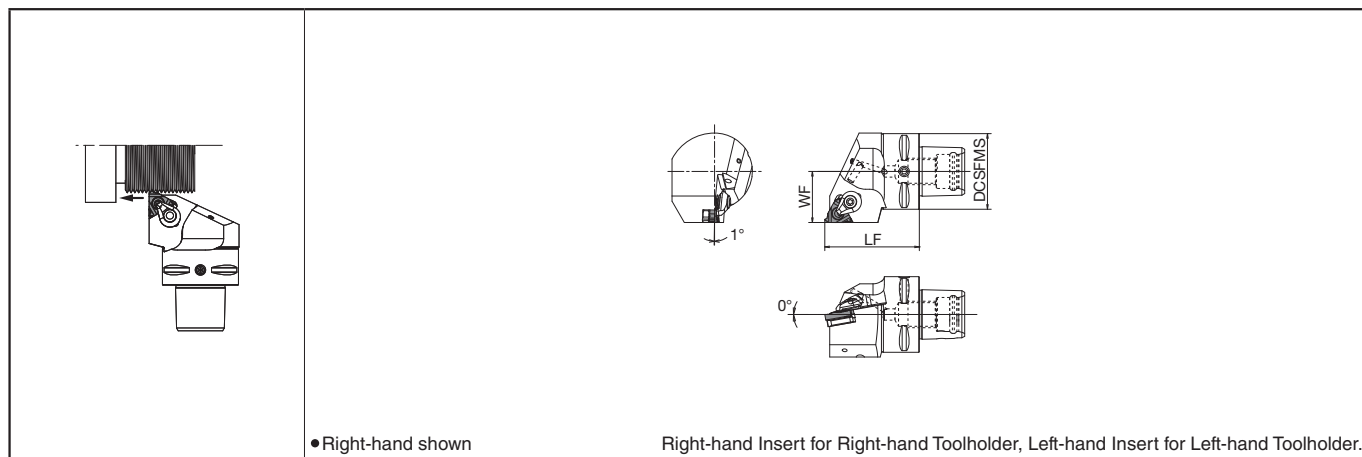
*1 Pressure Resistance: Up to 7 MPa

*2 Recommended tightening torque 6.5N·m

*3 CDX : Maximum depth to which processing can be made. (If the CDX is 20 mm or more, the maximum groove-depth made by the 2-edge insert will be 18 mm.)

● : Std. Item

KTN (External Threading Toolholders)



Toolholder Dimensions

Description	Stock		Coolant Hole	Dimension (mm)			Spare Parts				Applicable Inserts
	R	L		DCSFMS	LF	WF	Clamp Set	Wrench	Shim	Shim Screw	
KPC3-KTN ^{R/L} 22040-16	●	●	Yes	32	40	22	CPS-5S	FT-15	TN-32	SP3X8	J6, J8, J10, J12, J14, J16, J18 16E ^{R/L} type
KPC4-KTN ^{R/L} 27050-16	●	●		40	50	27					
KPC5-KTN ^{R/L} 35060-16	●	●		50	60	35					

*1 Pressure Resistance: Up to 7 MPa

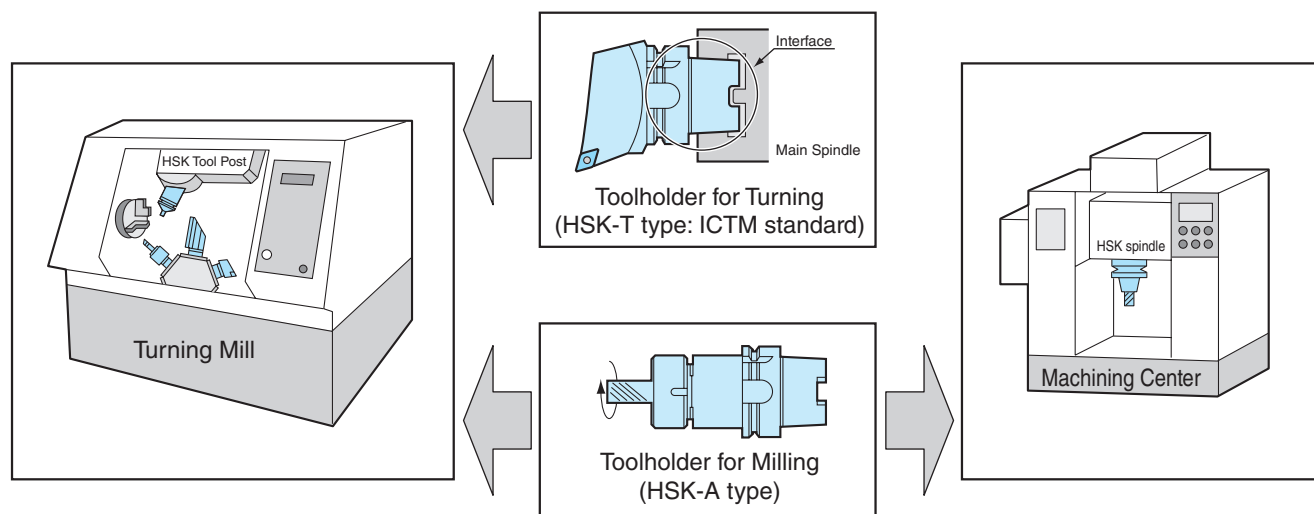
Tools for Turning Mill (HSK-T)

Tools for Turning Mill (HSK-T)

- The turning mill is a machine that combines turning and milling functions. Now an interface (between workpiece and toolholder - equivalent to the arbor for milling) is available for the turning mill that fulfils the ICTM standard.
- ICTM standard was developed by 16 companies in Japan, as the interface between turning mill machines. It is based on the two-face restraint type standard "ISO 12164-1:2001 HSK Standard Shank"
- This standard became an International Standard as ISO Standard "ISO12164-3:2008" in 2008. Description is indicated as HSK-T○○○.

Features

- (1) The interface is compatible with HSK-A type for milling tools.

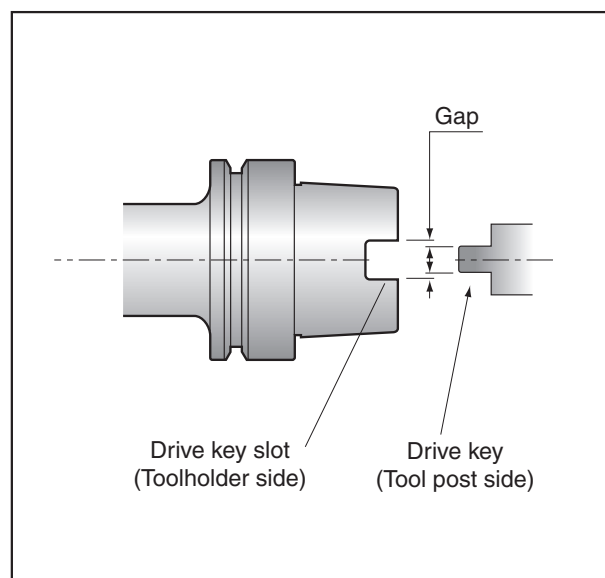


- (2) Machining precision for turning has improved by minimizing the gap between the drive key slot on toolholder side and the drive key on toolpost side.

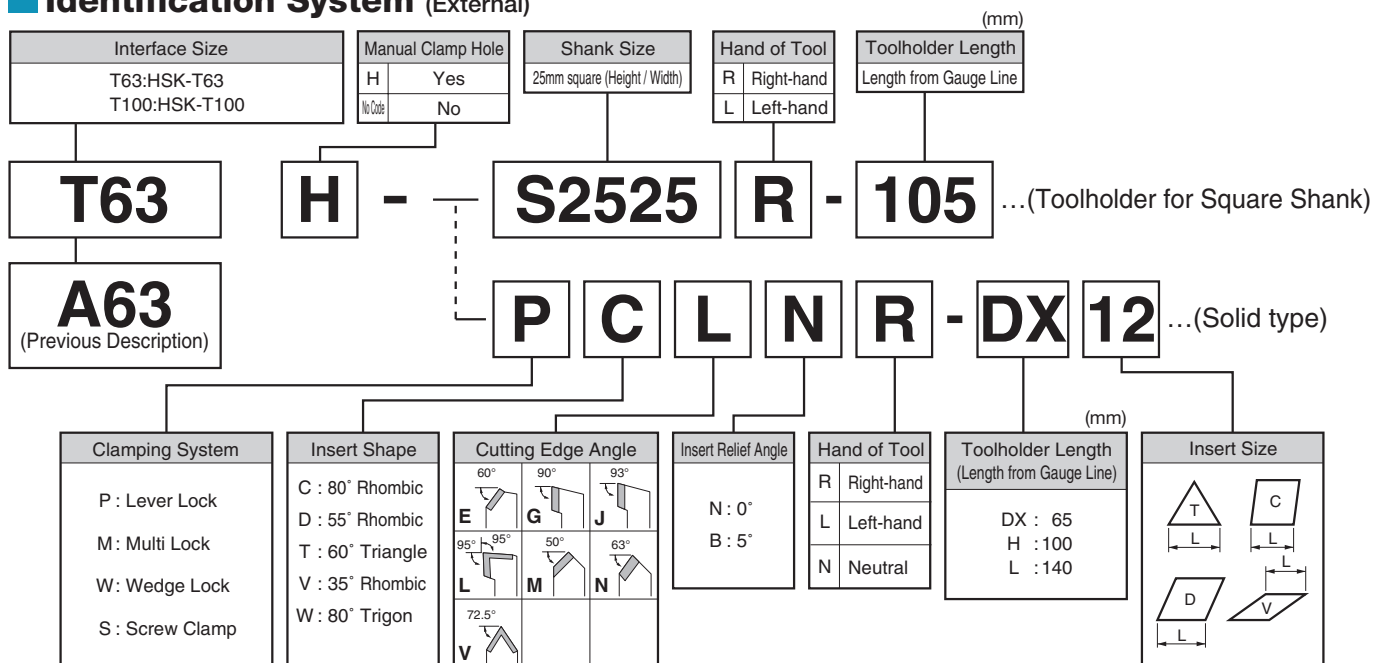
Table 1 Comparison of the gap of a key and key slot
(Unit : mm)

	12.2 12.3 12.4 12.5 12.6									
HSK-A63 Tolerance	12.25 Key tolerance 12.35									
	0.10 Min. gap 0.15 0.08									
	12.5 Key slot tolerance 12.58									
	Max. gap 0.33									
HSK-T63 Tolerance	12.2 12.3 12.4 12.5 12.6									
	0.025									
	12.385 12.41									
	Min. gap 0.015 0.035									
	12.425 12.46									
	Max. gap 0.075									

Fig. 1 Effect of the gap

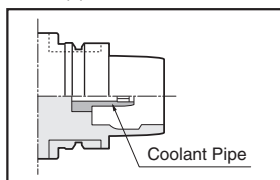


Identification System (External)

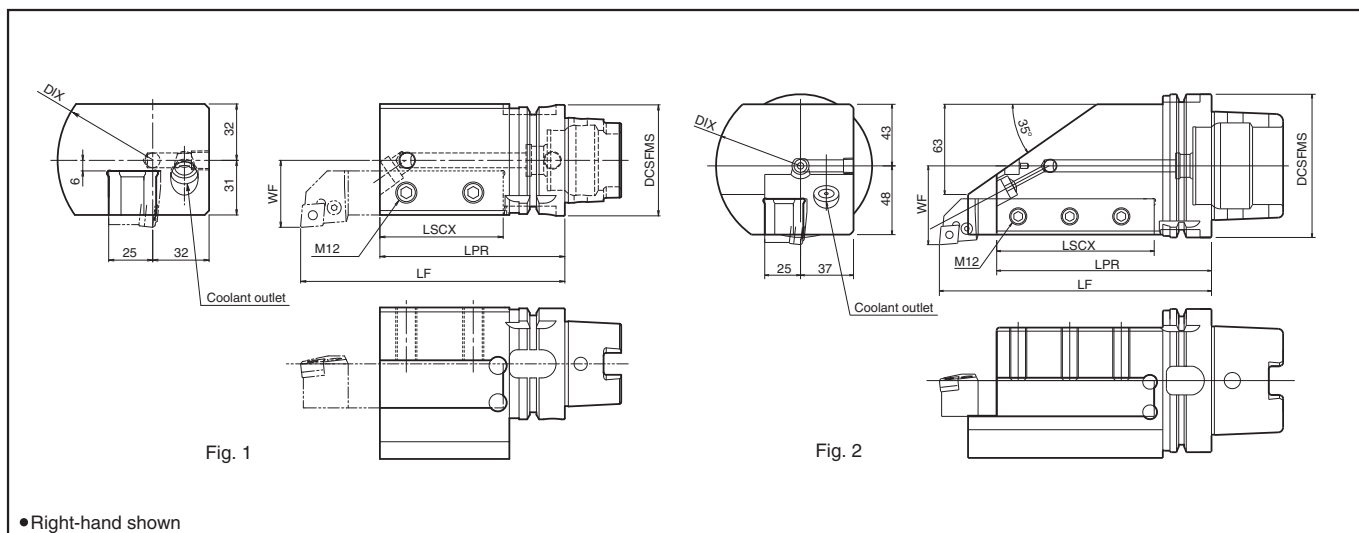


Coolant Pipe

• Coolant pipe is built into toolholder.



Toolholder for Square Shank (External / Facing)



Toolholder Dimensions

Description	Stock	Dimension (mm)						Drawing	Spare Parts		
		DCSFMS	DIX	LF	LPR	LSCX	WF		Screw	Wrench	Coolant Pipe
T63H- *S2525R-105	●	63	108	150	105	70	38	Fig. 1	HS12X25	LW-6	CL63-1
*S2525L-105	●										
T100H- S2525R-150	●	100	118	190	150	110	55	Fig. 2	HS12X30	LW-6	CL100-1
S2525L-150	●										

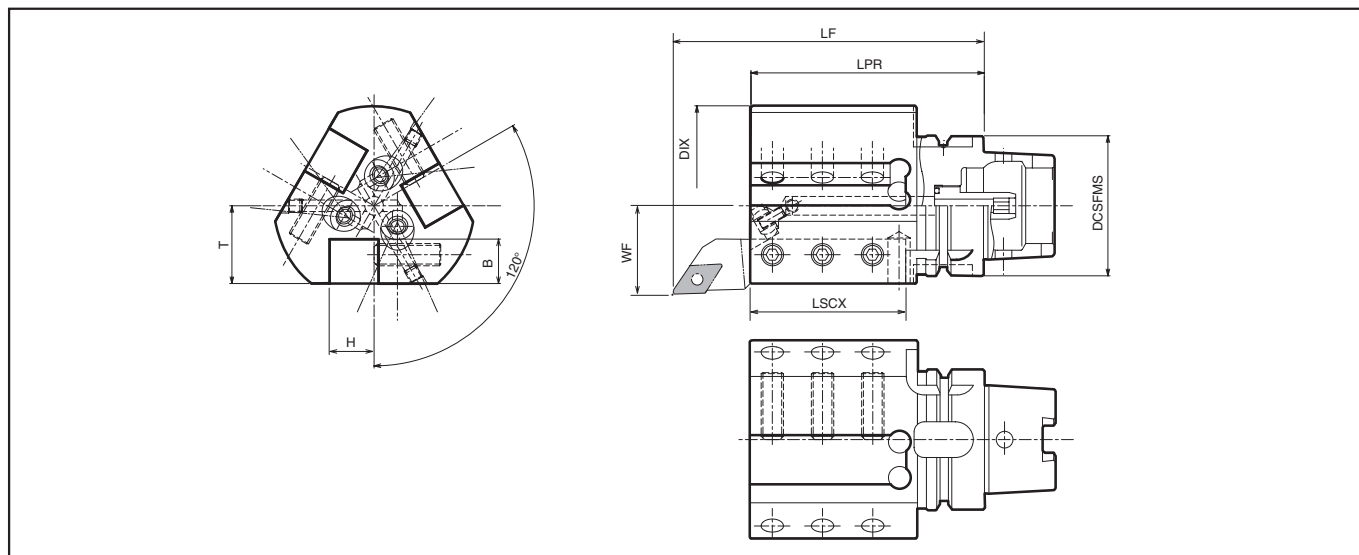
• Coolant outlet direction is adjustable.

• For 25mm square shank.

* These toolholders are not compatible with Yamazaki Mazak INTRGREG i and j series.

Tools for Turning Mill (HSK-T)

Toolholder for Square Shank (External / Facing)

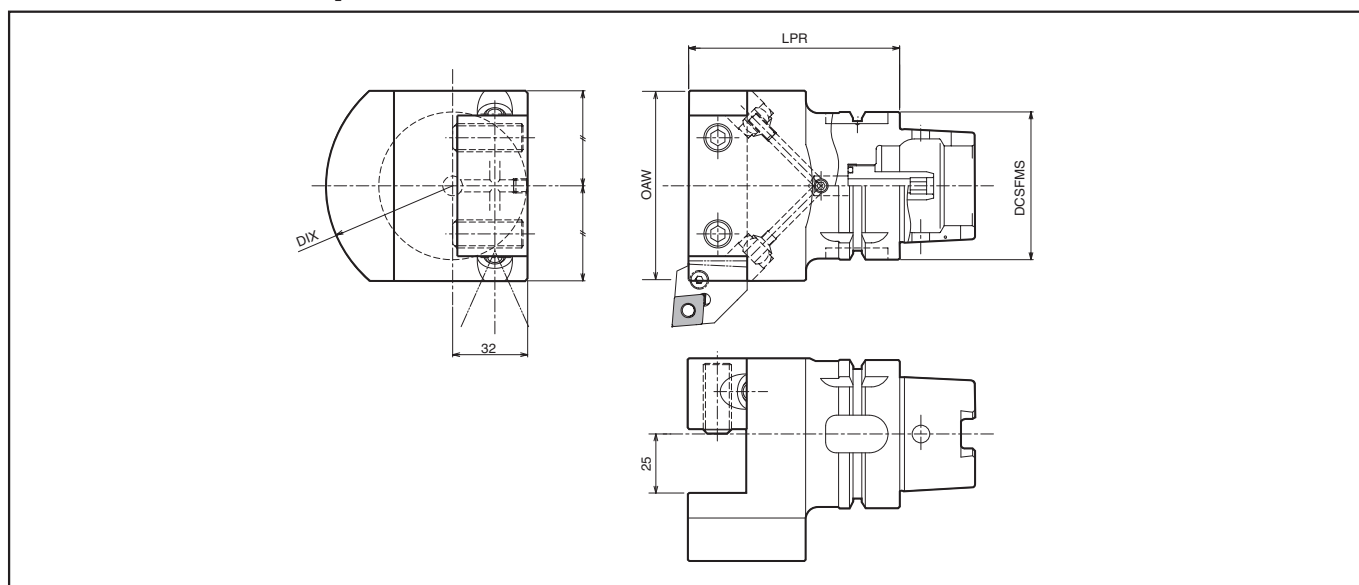


Toolholder Dimensions

Description	Attachment toolholder Shank Dimension	Stock	Dimension (mm)										Spare Parts		
													Screw	Wrench	Coolant Pipe
			DCSFM	DIX	H	B	T	LF	LPR	LSCX	WF				
T63H- S2020R-105T	(20mm square)	●	63	90	20	20	35	150	105	70	40	HS12X30	LW-6	CL63-1	
T100H- S2525R-150T	(25mm square)	●	100	118	25	25	48	190	150	110	55	HS12X35		CL100-1	

· Coolant outlet direction is adjustable.

Toolholder for Square Shank (Facing / External)



Toolholder Dimensions

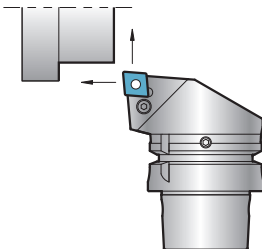
Description	Attachment toolholder Shank Dimension	Stock	Dimension (mm)				Spare Parts		
							Screw	Wrench	Coolant Pipe
			DCSFMS	DIX	LPR	OAW			
T63H- *S2525-90F *S2525-120F	(25mm square)	●	63	108	90	81	HS12X30	LW-6	CL63-1
		●			120				
T100H- S2525-105F S2525-150F	(25mm square)	●	100	118	105	96			CL100-1
		●			150				

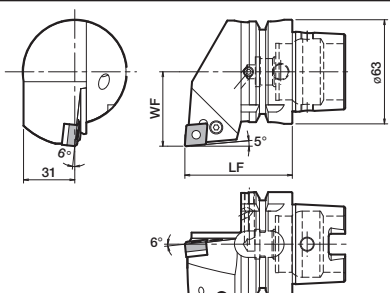
· Coolant outlet direction is adjustable.

* These toolholders are not compatible with Yamazaki Mazak INTRGREX i and j series.

● : Std. Item

PCLN (External / Facing)





Applicable Inserts

CN	A	1204..
CN	G	
CN	M	

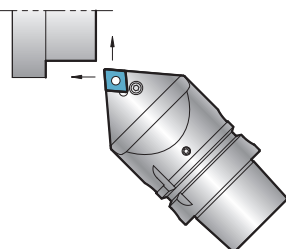
• Right-hand shown

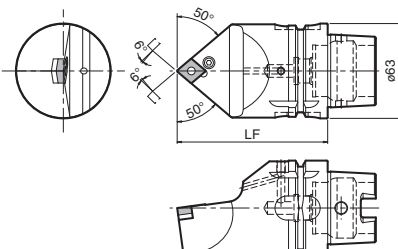
Toolholder Dimensions

Description	Stock	Dimension (mm)		Spare Parts							
		LF	WF	Lever	Lock Screw	Shim	Shim Pin	Punch	Wrench	Coolant Pipe	
T63H- PCLNR-DX12	●	65	45	LL-2N	LS-2N	LC-42N	LSP-2	PC-2	LW-3	CL63-1	
PCLNL-DX12	●					*LC-42N-C					

* When using the inserts with SX chipbreaker, prepare a shim (LC-42N-C) separately.

PCMN (External / Facing)





Applicable Inserts

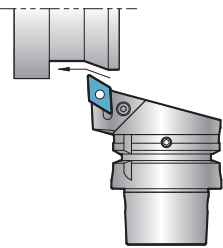
CN	A	1204..
CN	G	
CN	M	

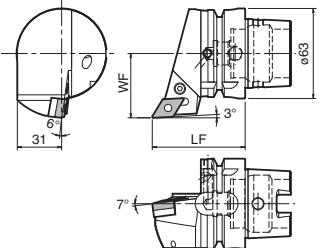
Toolholder Dimensions

Description	Stock	Dimension (mm)		Spare Parts							
		LF		Lever	Lock Screw	Shim	Shim Pin	Punch	Wrench	Coolant Pipe	
T63H- PCMNN-H12	●	100		LL-2N	LS-2N	LC-42N	LSP-2	PC-2	LW-3	CL63-1	
PCMNN-L12	●	140				*LC-42N-C					

* When using the inserts with SX chipbreaker, prepare a shim (LC-42N-C) separately.

PDJN (External / Copying)





Applicable Inserts

DN	A	1504..
DN	G	
DN	M	

• Right-hand shown

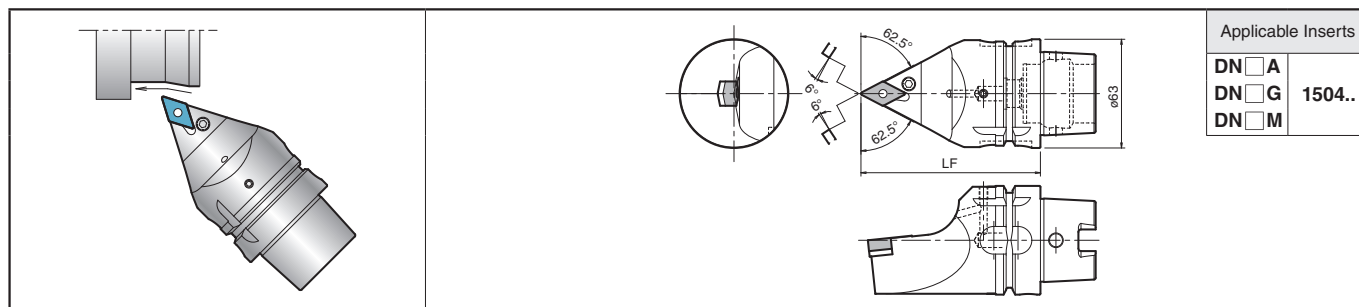
Toolholder Dimensions

Description	Stock	Dimension (mm)		Spare Parts							
		LF	WF	Lever	Lock Screw	Shim	Shim Pin	Punch	Wrench	Coolant Pipe	
T63H- PDJNR-DX15	●	65	45	LL-3N	LS-2N	LD-42	LSP-2	PC-2	LW-3	CL63-1	
PDJNL-DX15	●					*LD-42-20					

* When using inserts whose corner-R(RE) is greater than 1.6mm, please purchase a shim with * mark and use it in order to prevent workpiece and shim from interfering each other.

Tools for Turning Mill (HSK-T)

PDNN (External / Copying)

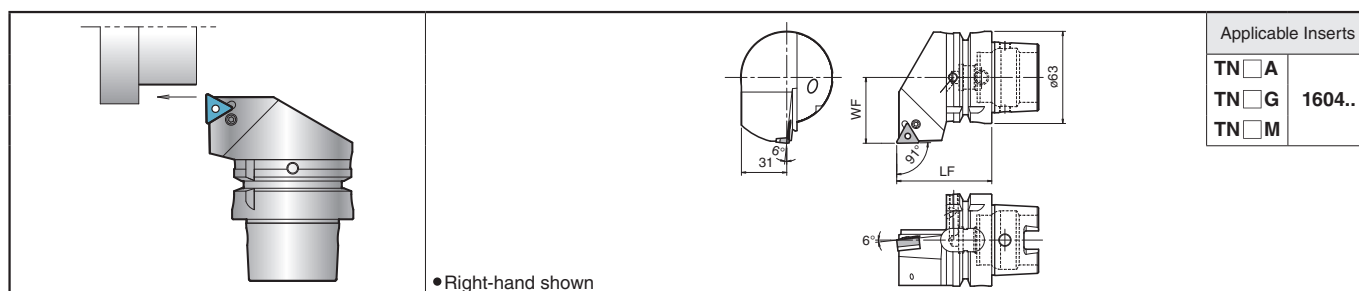


● Toolholder Dimensions

Description		Stock	Dimension (mm)	Spare Parts						
				Lever	Lock Screw	Shim	Shim Pin	Punch	Wrench	Coolant Pipe
			LF							
T63H-	PDNNN-H15	●	100	LL-3N	LS-2N	LD-42 *LD-42-20	LSP-2	PC-2	LW-3	CL63-1
	PDNNN-L15	●	140							

· When using inserts whose corner-R(RE) is greater than 1.6mm, please purchase a shim with * mark and use it in order to prevent workpiece and shim from interfering each other.

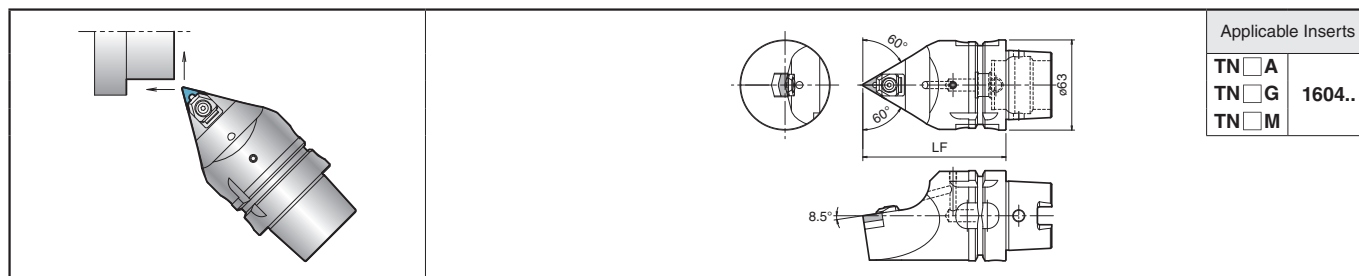
PTGN (External)



● Toolholder Dimensions

Description		Stock	Dimension (mm)		Spare Parts						
			LF	WF	Lever	Lock Screw	Shim	Shim Pin	Punch	Wrench	Coolant Pipe
											
T63H-	PTGNR-DX16	●	65	45	LL-1N	LS-1N	LT-32N *LT-32N-20	LSP-1	PC-1	FH-2.5	CL63-1
	PTGNL-DX16	●									

· When using inserts whose corner-R(RE) is greater than 1.6mm, please purchase a shim with * mark and use it in order to prevent workpiece and shim from interfering each other.

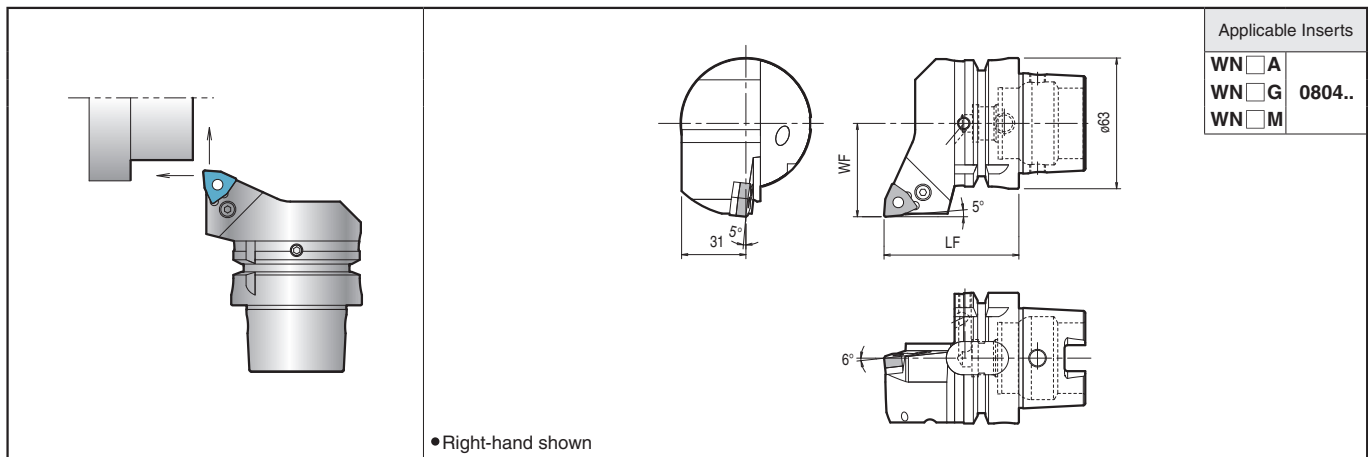
WTEN (External)

● Toolholder Dimensions

Description	Stock	Dimension (mm)	Spare Parts						
			Clamp Set	Shim	Shim Pin	Shim Nut	Wrench	Spacer	Coolant Pipe
		LF							
T63H-									
WTENN-H16	●	100							
WTENN-L16	●	140							

● : Std. Item

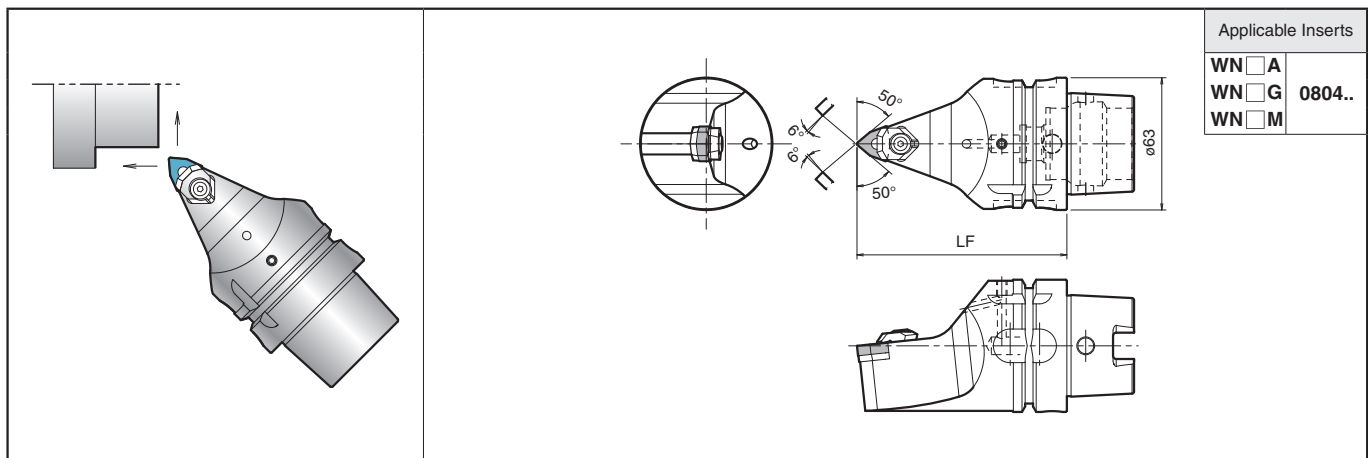
PWLN (External / Facing)



Toolholder Dimensions

Description	Stock	Dimension (mm)		Spare Parts							
		LF	WF	Lever	Lock Screw	Shim	Shim Pin	Punch	Wrench	Coolant Pipe	
T63H- PWLNR-DX08	●	65	45	LL-2N	LS-2N	LW-42N	LSP-2	PC-2	LW-3	CL63-1	
PWLN- DX08	●										

WWMN (External / Facing)

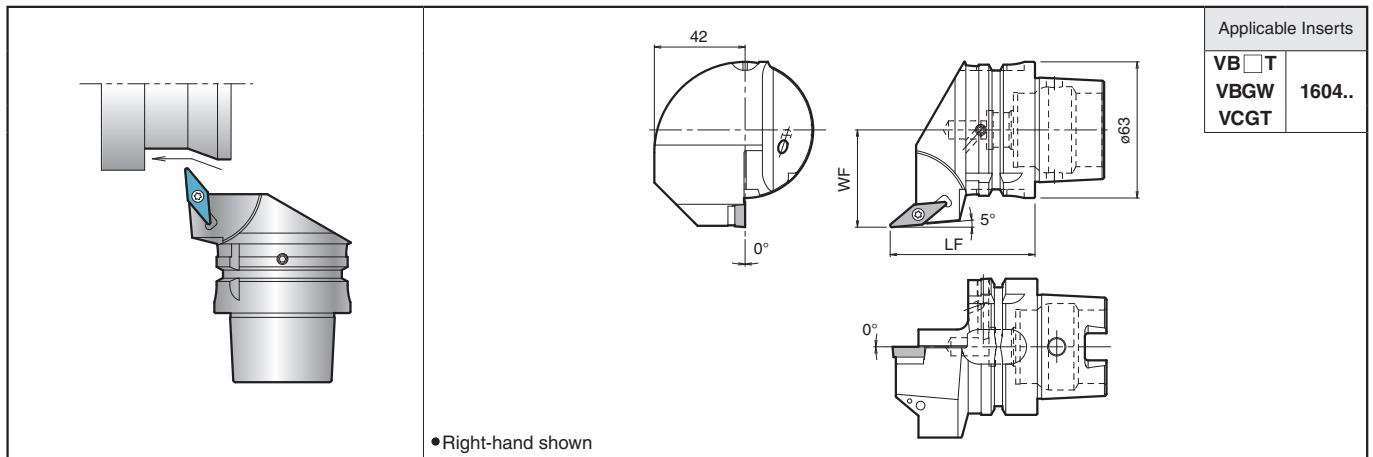


Toolholder Dimensions

Description	Stock	Dimension (mm)		Spare Parts						
		LF		Clamp Set	Shim	Shim Pin	Shim Nut	Wrench	Coolant Pipe	
T63H- WWMNN-H08	●	100		WCS-8	WWN-42	WP5X15	WN-1	LW-3	CL63-1	
WWMNN-L08	●	140								

Tools for Turning Mill (HSK-T)

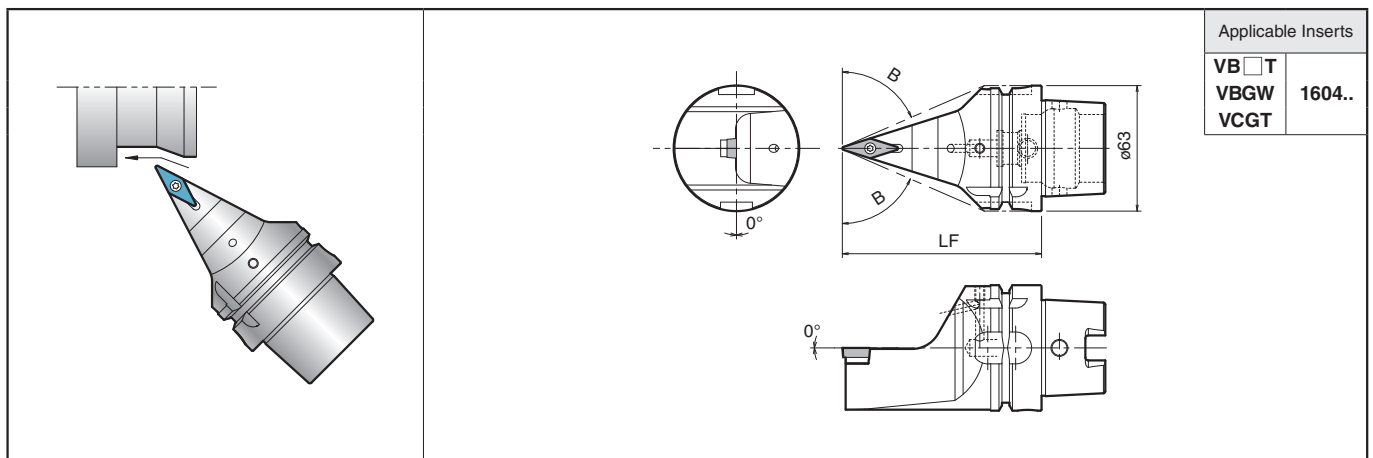
SVLB (External / Copying)



Toolholder Dimensions

Description	Stock	Dimension (mm)		Spare Parts						
				Clamp Screw	Wrench	Shim	Shim Screw	Wrench (for Shim Screw)	Coolant Pipe	
		LF	WF							
T63H- SVLBR-DX16N SVLBL-DX16N	●	65	45	SB-40125TRN	FT-15	SVN-32N	SS-4N	LW-4	CL63-1	
	●									

SVVB (External / Copying)

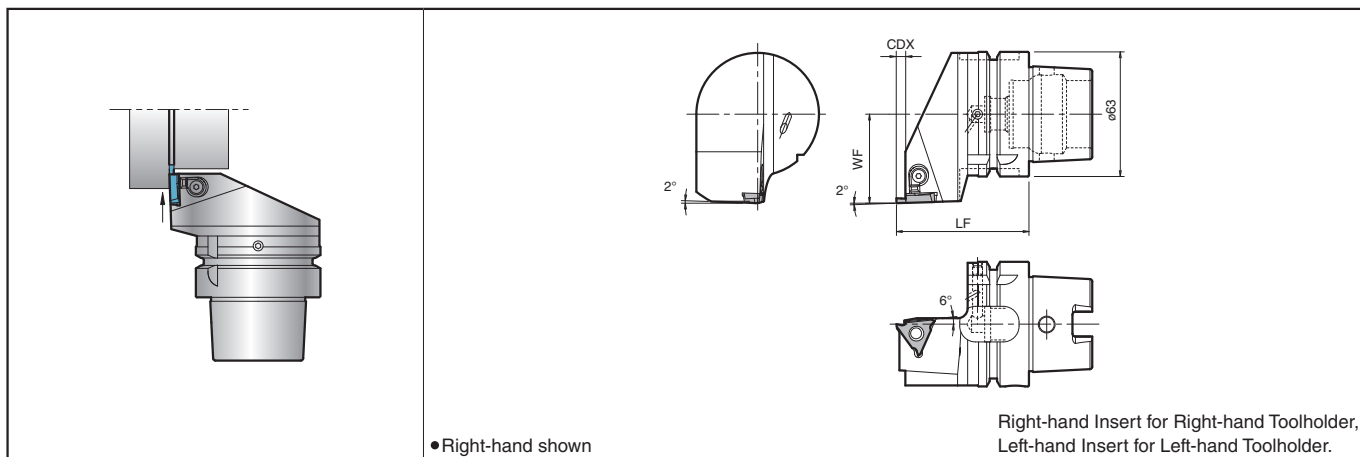


Toolholder Dimensions

Description	Stock	Dimension (mm)		Spare Parts						
				Clamp Screw	Wrench	Shim	Shim Screw	Wrench (for Shim Screw)	Coolant Pipe	
		LF	* B (°)							
T63H- SVVBN-H16N SVVBN-L16N	●	100	66.5	SB-40125TRN	FT-15	SVN-32N	SS-4N	LW-4	CL63-1	
	●	140	72.5							

* Angle B shows the interference angle from the line of cutting edge point and toolholder.

KGBA (External Grooving)

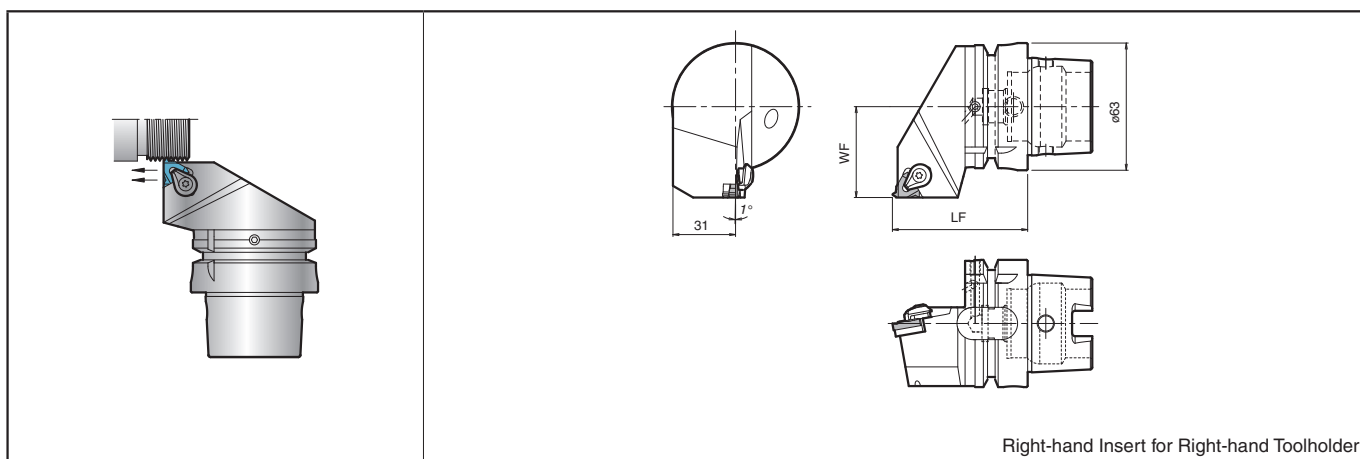


Toolholder Dimensions

Description		Stock	Dimension (mm)			Spare Parts			Applicable Inserts 🔌 G6~G8
						Clamp Set	Wrench	Coolant Pipe	
			LF	WF	CDX				
T63H-	KGBAR-16	●	67	45	2.5	LGBA-16RS	FT-15	CL63-1	GBA32R Type
	KGBAR-22-15	●	67	45	4.0	LGBA-22RS			GBA43R Type
	KGBAR-22-25	●			4.5				
	KGBAR-22-35	●			5.5				
T63H-	KGBAL-16	●	67	45	2.5	LGBA-16LS	FT-15	CL63-1	GBA32L Type
	KGBAL-22-15	●	67	45	4.0	LGBA-22LS			GBA43L Type
	KGBAL-22-25	●			4.5				
	KGBAL-22-35	●			5.5				

* For details of applicable inserts, See Page **G6-G8**.
 - CDX shows the distance from the toolholder to the cutting edge.

KTN (Threading)



Toolholder Dimensions

Description	Stock	Dimension (mm)		Spare Parts					Applicable Inserts
		LF	WF	Clamp Set	Wrench	Shim	Shim Screw	Coolant Pipe	
T63H- KTNR-16 KTNR-22	●	67	45	CPS-5S	FT-15	TN-32	SP3X8	CL63-1	16ER Type
	●			CPS-6S	LW-3	TN-43			22ER Type

* For details of applicable inserts, See Page **J6, J8, J10, J12, J14, J16, J18**.

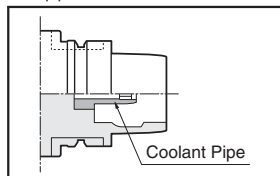
Tools for Turning Mill (HSK-T)

Identification System (For Boring Bar / Drill)

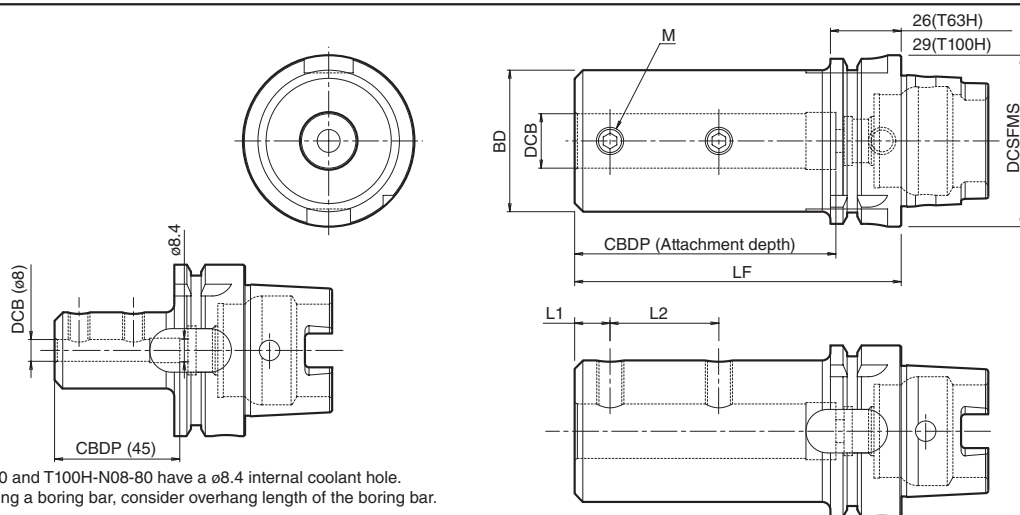
T63	H	-	N	08	-	70	(mm)
Interface Size	Manual Clamp Hole		Toolholder	Internal Dia.		Toolholder Length	
T63:HSK-T63 T100:HSK-T100	H Yes No Code No		N For Boring Bar C For Drill	08 $\phi 8$ 10 $\phi 10$:		Length from Gauge Line	

Coolant Pipe

Coolant pipe is built into toolholder.



Toolholder for Boring Bar / Drill



T63H-N08-70 and T100H-N08-80 have a $\phi 8.4$ internal coolant hole.
When installing a boring bar, consider overhang length of the boring bar.

Toolholder Dimensions

Description		Stock	Dimension (mm)								Spare Parts			Remarks	
											Screw	Wrench	Coolant Pipe		
			DCB	DCSFMS	BD	LF	CBDP	L1	L2	M					
T63H-	N08-70	●	8	63	28	70	45	9	20	M8	HS8X10	LW-4	CL63-1	For Boring Bar	
	N10-80	●	10		35	80	55	9	22		HS8X12				
	N12-90	●	12		42	90	65	9	22	M10	HS10X16	LW-5			
	N16-100	●	16		48	100	75	11	30		HS12X16	LW-6			
	N20-120	●	20		52	120	95	13	40						HS12X12
	N25-140	●	25		56	140	115	13	50		HS10X16	LW-5			
	N32-160	●	32		56	160	135	13	60						HS12X12
T63H-	C20-75	●	20	63	52	75	50	13	22	M10	HS10X16	LW-5	CL63-1	*For Drill	
	C25-85	●	25		56	85	58	15	28	M12	HS12X16	LW-6			
	C32-90	●	32		56	90	62	15	30		HS12X12				
	C40-100	●	40		68	100	72	18	35	M16	HS16X12	LW-8			
T100H-	N08-80	●	8	100	28	80	45	9	20	M8	HS8X10	LW-4	CL100-1	For Boring Bar	
	N10-90	●	10		35	90	55	9	22		HS8X12				
	N12-100	●	12		42	100	65	9	22	M10	HS10X16	LW-5			
	N16-110	●	16		48	110	75	11	30		HS12X18				LW-6
	N20-130	●	20		52	130	95	13	40						
	N25-150	●	25		62	150	115	13	50	M12	HS10X16	LW-5			
	N32-170	●	32		72	170	135	13	60						
T100H-	C20-85	●	20	100	52	85	50	13	22	M10	HS10X16	LW-5	CL100-1	*For Drill	
	C25-90	●	25		62	90	58	15	20	M16	HS16X18	LW-8			
	C32-95	●	32		72	95	62	15	20						HS16X20
	C40-105	●	40		82	105	72	15	25	M16					

* Shorter than the toolholder for boring bar.

● : Std. Item

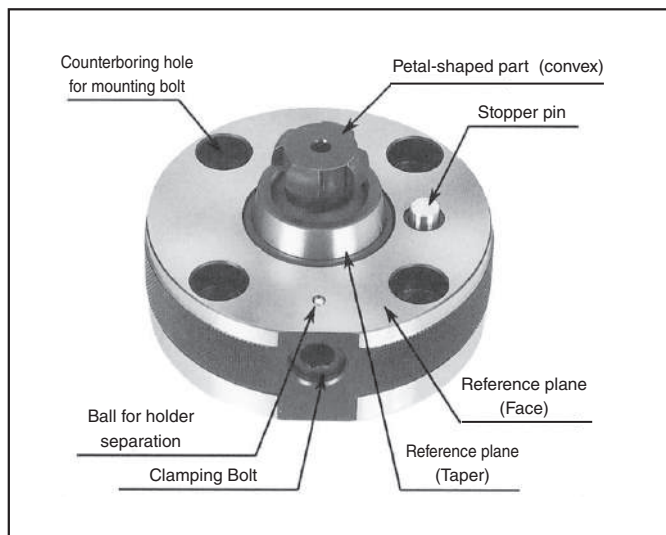
KQC Series



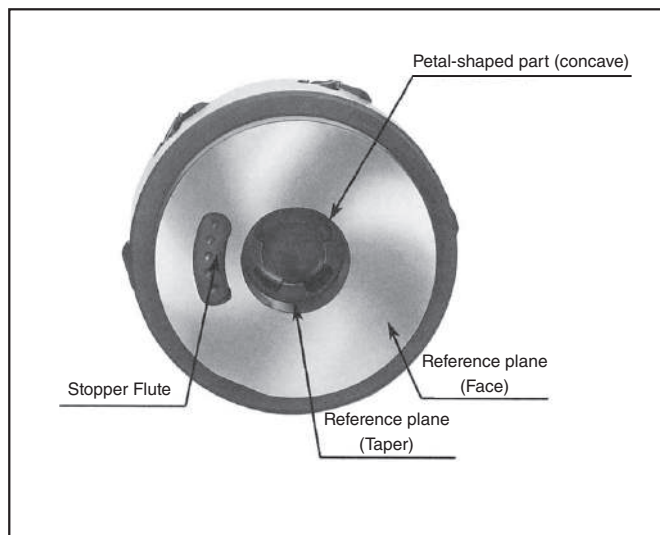
Features

1. The way to assemble holder is turn the clamping bolt 1 round. Tool exchange time is less than 1 minute.
2. Junction of adapter and attachment touch both taper part and face part. And repeatability is less than $2\mu\text{m}$.
3. Applicable to various tools.
 - Boring tool (Rough & Fine)
 - Face milling (Min. $\phi 63$, Max. $\phi 160$ is possible)
 - Centering Tool
 - External Turning
 - Combination Tool
 - Applicable to tools with coolant hole

Clamping System



Adapter side



Attachment side

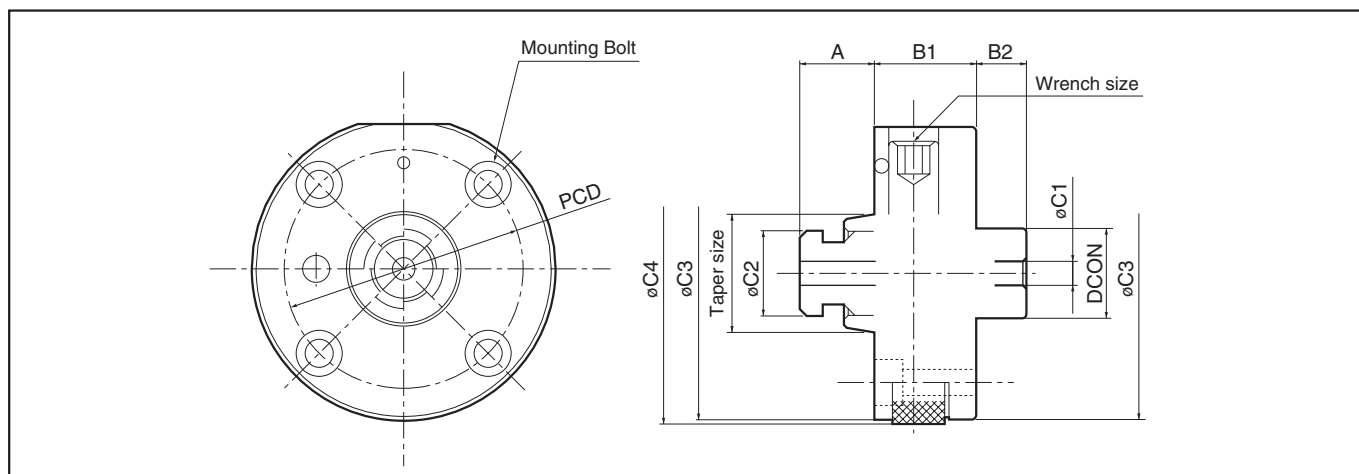
How to use Clamping System

1. Combine petal-shaped part of adapter side with that of attachment side and insert the attachment.
2. Turn the attachment 45 degrees until stop (Clockwise direction).
3. Turn the clamp bolt attached to adapter side 1 round and tighten by Hexagon wrench.

Insert Grades	A
Turning Indexable Inserts	B
CBN & PCD Tools	C
External	D
Small Parts Machining	E
Boring	F
Grooving	G
Cut-off	H
Threading	J
Drilling	K
Milling	M
Tools for Turning Mill	N
Spare Parts	P
Technical Information	R
Index	T

Quick Change System of petal-shaped adapter

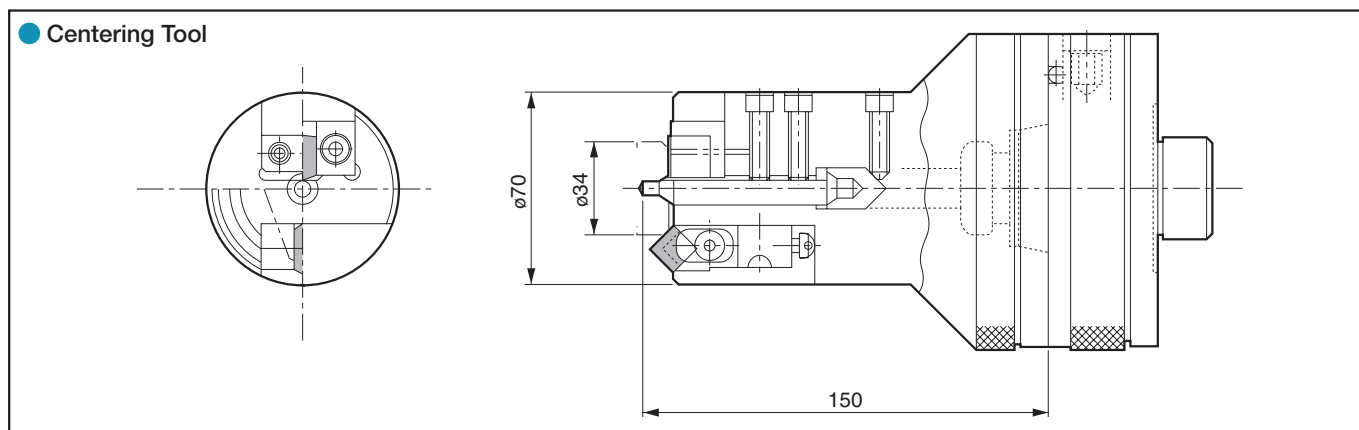
Adapter



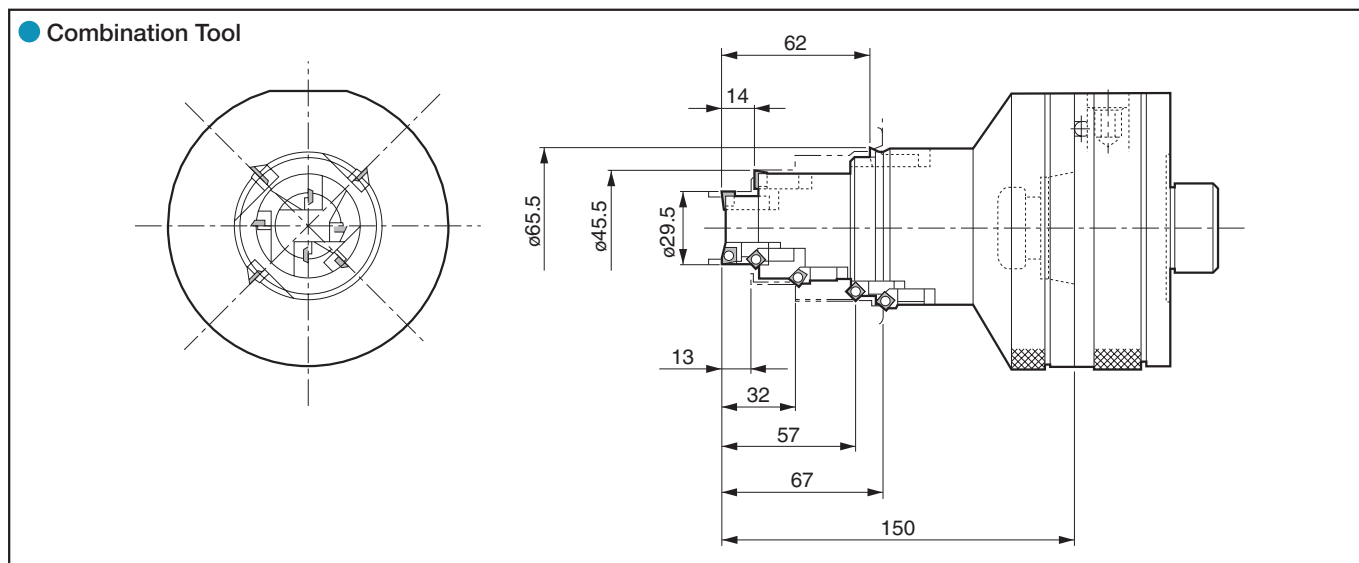
Description	Taper size	A	B1	B2	$\phi C1$	$\phi C2$	$\phi C3$	$\phi C4$	DCON	PCD	Wrench size	Mounting Bolt
KQC28	$\phi 28$	23	25 over	15 over	4	24	60 over	62 over	20	43 over	6	6 ~ 8
KQC35	$\phi 35$	27	30 over	15 over	6	28	75 over	77 over	25	54 over	8	8 ~ 10
KQC45	$\phi 45$	30	40 over	15 over	8	32	90 over	92 over	25	66 over	10	8 ~ 12
KQC70	$\phi 70$	33	50 over	15 over	10	40	130 over	132 over	25	100 over	12	10 ~ 16

Toolholder (attachment) reference example

Centering Tool

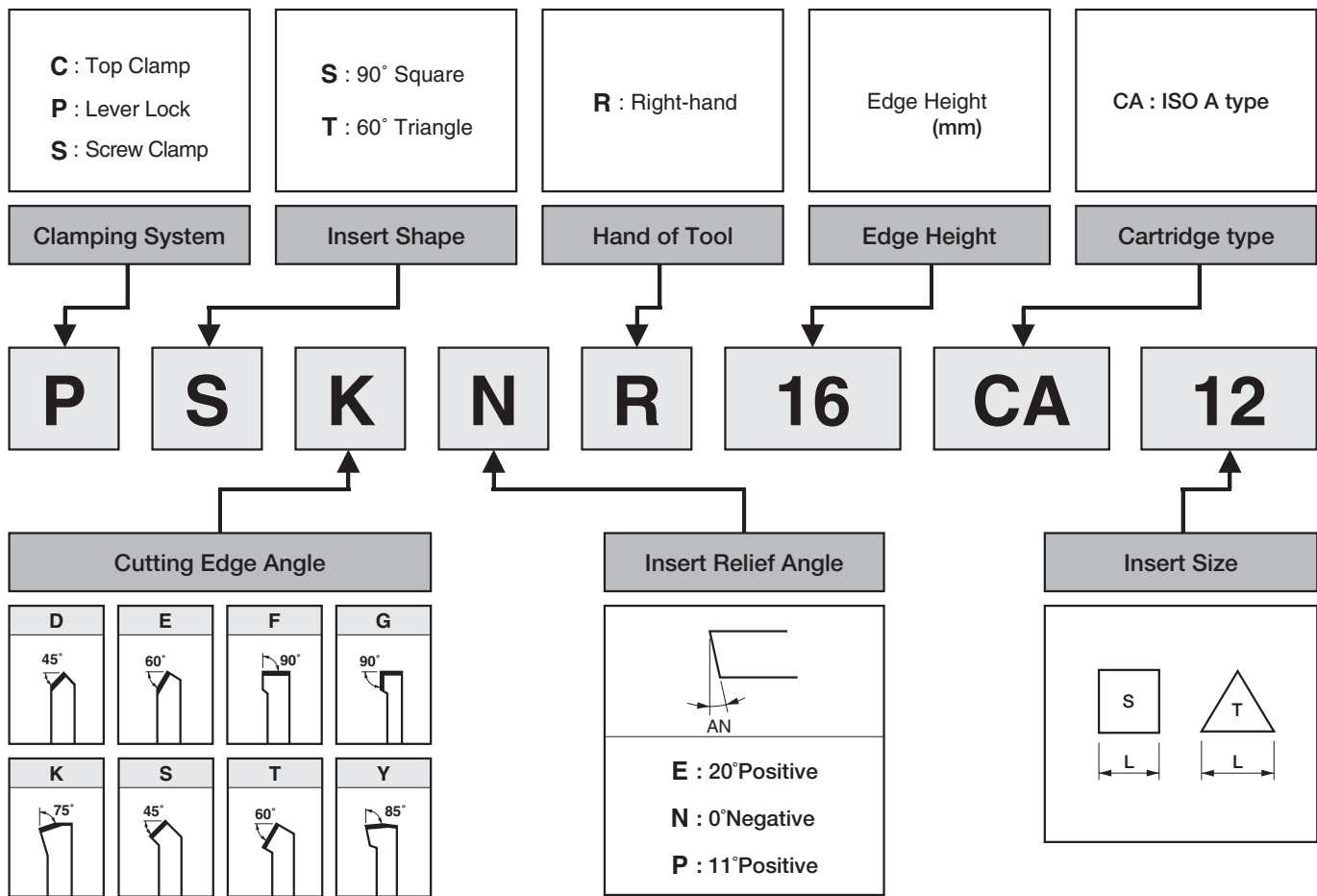


Combination Tool



Applicable to various tooling (also with coolant hole)

Identification System (Square Shank)



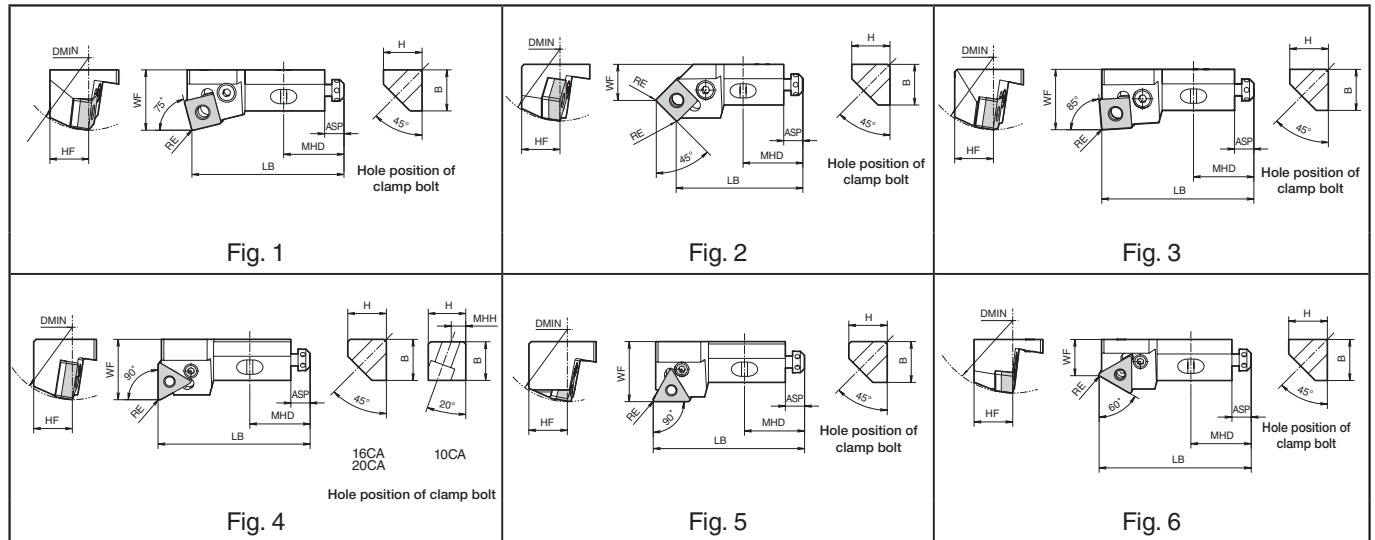
• Specification may change without any prior notice.

Clamping System

Series	Design		Features	Series	Design		Features
Top Clamp (C)			· Rigid Clamping · Positive inserts · Low Cutting Force	Lever Lock (P)			· Easy Insert Replacement · General purpose
Screw Clamp (S)			· Simple Mechanism · Fewer Parts · Finishing to Medium Machining				

Lever Lock

● Shape (Right-hand shown)



● Toolholder Dimensions

Description	Stock	Dimension (mm)								Std. Corner-R (RE)	Min. Bore Dia. DMIN (mm)	Drawing	Applicable Inserts	* See Page for Applicable Inserts
		H	B	LB	MHD	ASP	MHH	HF	WF					
PSKNR 16CA12	MTO	16	17	63	25	8	-	16	25	0.8	60	Fig. 1	SN□A	B32 ? B35 B109 C10
PSSNR 16CA12	MTO			53					15			Fig. 2	SN□G 1204..	
PSYNR 16CA12	MTO			63					25			Fig. 3	SN□M	
PTFNR 10CA11	MTO	12.5	11	50	20	8	5	10	14	0.4	40	Fig. 4	TN□A 1103..	B40 B42
	MTO	15.5	16	63	25	8	-	16	25	0.8	60		TN□A 1604..	
	MTO	20	19	70	30	10		20	25		70		TN□A 2204..	
PTGNR 16CA16	MTO	16	17	63	25	8	-	16	25	0.8	60	Fig. 5	TN□G 1604..	B36 ? B43 B111 C11 C23
PTTNR 16CA16	MTO								15		70	Fig. 6	TN□M	

* See Page for Applicable Inserts (TN□G2204.., TN□M2204..) ● B36,B37,B38,B39,B43

● Spare Parts

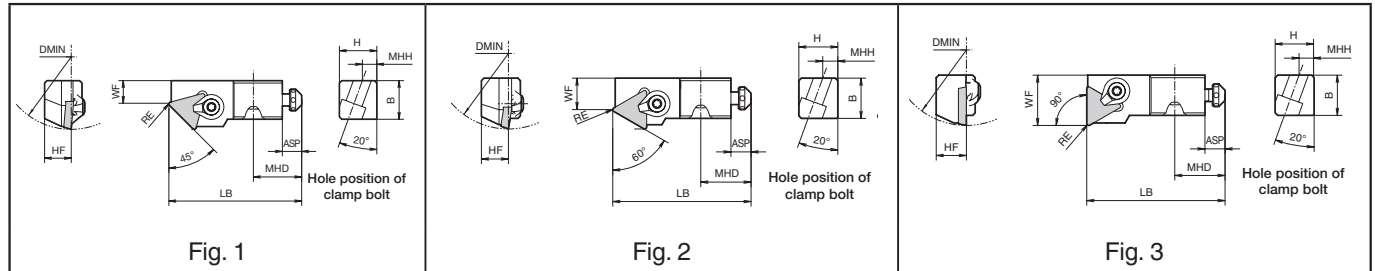
Description	Lever	Lock Screw	Shim	Shim Pin	Punch	Wrench	Radial adjustment screw	Axial adjustment screw	Wrench	Axial screw driver	Plate	Clamp Bolt	Wrench
PSKNR 16CA12													
PSSNR 16CA12	LL-2N	LS-2N	LS-42	LSP-2	PC-2	LW-3	HS4X4	AJM5F	LW-2	SW-1.8	SM0816B SM1016B	HH8X25	LW-6
PSYNR 16CA12													
PTFNR 10CA11	LL-03N	LS-03N	-	P-03	-	FH-2	HS4X4	AJM5F	LW-2	SW-1.8	SM0810A SM1010A	HH6X16	LW-5
	16CA16	LL-1N	LS-1N	LT-32N	LSP-1	PC-1	FH-2.5				SM0816B SM1016B	HH8X25	
	20CA22	LL-2N	LS-2N	LT-42N	LSP-2	PC-2	LW-3	HS5X5	AJM6		SM0820B SM1020B	HH8X30	LW-6
PTGNR 16CA16	LL-1N	LS-1N	LT-32N	LSP-1	PC-1	FH-2.5		AJM5F					
PTTNR 16CA16													

Note 1 : Plate is included with different two pieces one set of the size.

MTO : Made to order

Top Clamp

Shape (Right-hand shown)



Toolholder Dimensions

Description		Stock	Dimension (mm)								Std. Corner-R (RE)	Min. Bore Dia. DMIN (mm)	Drawing	Applicable Inserts	See Page for Applicable Inserts
			H	B	LB	MHD	ASP	MHH	HF	WF					
CTDPR	10CA11	MTO	12.5	11	50	20	8	5	10	7	0.4	38	Fig. 1	1103..	B87 B88 B113 C18 C29
	12CA16	MTO	15.5	16	55			6	12	10	0.8	50		1603..	
CTEPR	10CA11	MTO	12.5	11	50			5	10	9	0.4	38	Fig. 2	TP□N 1103..	
	12CA16	MTO	15.5	16	55			6	12	13	0.8	50		TP□R 1603..	
CTFPR	10CA11	MTO	12.5	11	50			5	10	14	0.4	38	Fig. 3	1103..	
	12CA16	MTO	15.5	16	55			6	12	20	0.8	50		1603..	

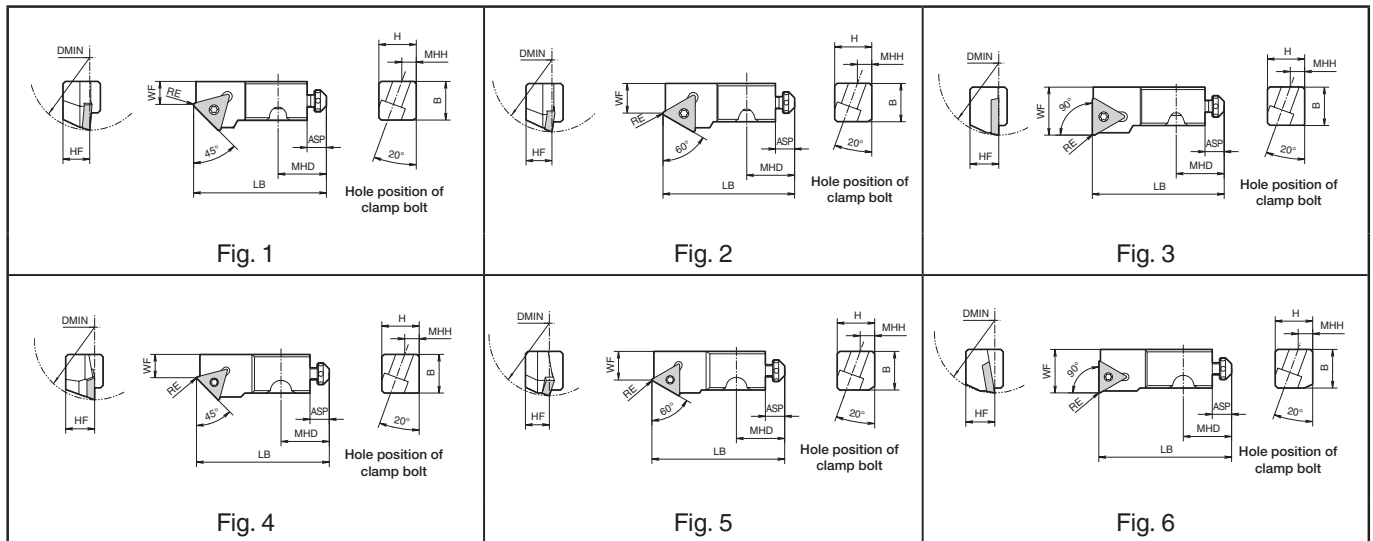
Spare Parts

Description	Clamp Set	Wrench	Radial adjustment screw	Axial adjustment screw	Wrench	Axial screw driver	Plate	Clamp Bolt	Wrench
CTDPR 10CA11	CPS-4V	FT-10	HS4X4	AJM5F	LW-2	SW-1.8	SM0810A SM1010A	HH6X16	LW-5
	12CA16	CPS-5V	FT-15		LW-2.5		SM0812A SM1012A	HH6X20	
CTEPR 10CA11	CPS-4V	FT-10	HS4X4		LW-2		SM0810A SM1010A	HH6X16	
	12CA16	CPS-5V	FT-15		LW-2.5		SM0810A SM1010A	HH6X20	
CTFPR 10CA11	CPS-4V	FT-10	HS4X4		LW-2		SM0810A SM1010A	HH6X16	
	12CA16	CPS-5V	FT-15		LW-2.5		SM0812A SM1012A	HH6X20	

Note 1 : Plate is included with different two pieces one set of the size.

Screw Clamp

● Shape (Right-hand shown)



Toolholder Dimensions

Description		Stock	Dimension (mm)							Std. Corner-R (RE)	Min. Bore Dia. DMIN (mm)	Drawing	Applicable Inserts	See Page for Applicable Inserts		
			H	B	LB	MHD	ASP	MHH	HF						WF	
STDPR	10CA11	MTO	12.5	11	50	20	8	5	10	7	0.4	38	Fig. 1	TP□H TP□T TPGB	1103..	B80 ι B86 C16 C26 ι C28
	12CA16	MTO	15.5	16	55			6	12	10	0.8	50			1603..	
STEPR	10CA11	MTO	12.5	11	50			5	10	9	0.4	38	Fig. 2		1103..	
	12CA16	MTO	15.5	16	55			6	12	13	0.8	50			1603..	
STFPR	10CA11	MTO	12.5	11	50			5	10	14	0.4	38	Fig. 3		1103..	
	12CA16	MTO	15.5	16	55			6	12	20	0.8	50			1603..	
STDER	12CA13	MTO	15.5	16	55	20	8	6	12	10	0.4	50	Fig. 4	TEGW	1303..	-
STEER	12CA13	MTO								12			Fig. 5			
STFER	12CA13	MTO								18			Fig. 6			

Spare Parts

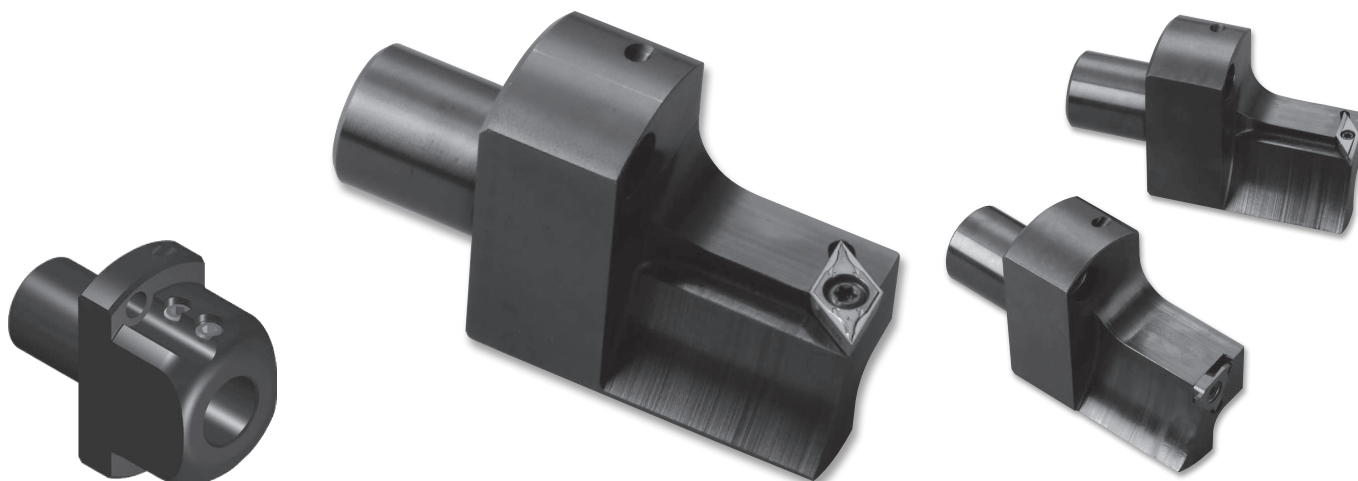
Description		Clamp Screw	Wrench	Radial adjustment screw	Axial adjustment screw	Wrench	Axial screw driver	Plate	Clamp Bolt	Wrench
										
STDPR	10CA11	SB-3TR	FT-10	HS4X4	AJM5F	LW-2	SW-1.8	SM0810A SM1010A	HH6X16	LW-5
	12CA16	SB-4TR	FT-15	HS5X5		LW-2.5		SM0812A SM1012A	HH6X20	
STEPR	10CA11	SB-3TR	FT-10	HS4X4		LW-2		SM0810A SM1010A	HH6X16	
	12CA16	SB-4TR	FT-15	HS5X5		LW-2.5		SM0812A SM1012A	HH6X20	
STFPR	10CA11	SB-3TR	FT-10	HS4X4		LW-2		SM0810A SM1010A	HH6X16	
	12CA16	SB-4TR	FT-15	HS5X5		LW-2.5		SM0812A SM1012A	HH6X20	
STDER	12CA13	SB-3080TR	FT-10	HS4X4	AJM5F	LW-2	SW-1.8	SM0812A SM1012A	HH6X20	LW-5
STEER	12CA13									
STFER	12CA13									

Note 1 : Plate is included with different two pieces one set of the size.

MTO : Made to order

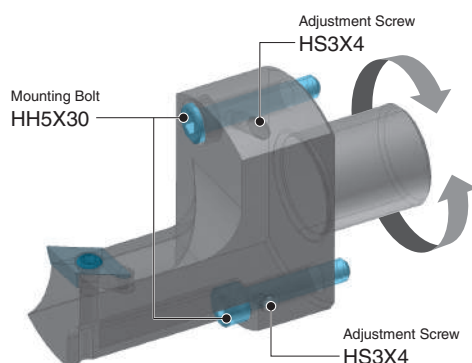
Flange Holder

Back Facing Holder with Center Height Adjustment Function (Height adjustment approx. $\pm 0.1\text{mm}$)

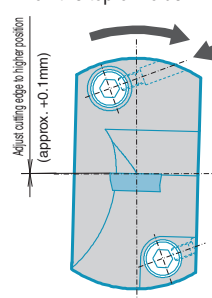


Flange Holder Center Height Adjustment

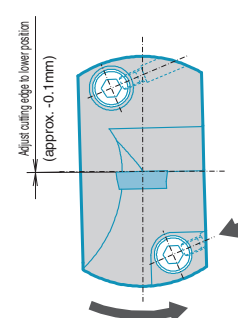
- (1) Mount $\varnothing 22$ shank to toolpost
- (2) Tighten the holder by the mounting bolts (HH5X30 x 2) temporary
- (3) Adjust center height by the adjustment screw (HS3X4)
 - A: Tighten the adjustment screw on the top of holder
 $\Rightarrow$ Adjust cutting edge to higher position (approx. $+0.1\text{mm}$)
 - B: Tighten the adjustment screw on the bottom of holder
 $\Rightarrow$ Adjust cutting edge to lower position (approx. -0.1mm)
- (4) Tighten the holder by the mounting bolts (HH5X30 x 2) additionally



A: Tighten the adjustment screw on the top of holder



B: Tighten the adjustment screw on the bottom of holder



Compatible Machines with the Flange Holders

ECAS-20, SB-16(D/E), SB-12IIE, SB-16IIE, SB-20E, SB-20R TYPE-N, SR-20RII, SR-20RIII, SR-20RIV, SW-20, SR-25J/32J

Note 1) SR-20RIV, SW-20 have the limitation for install position. Attaching both on the top and bottom is impossible.
It is necessary additional modifications on the plug cover.

Note 2) Cautions

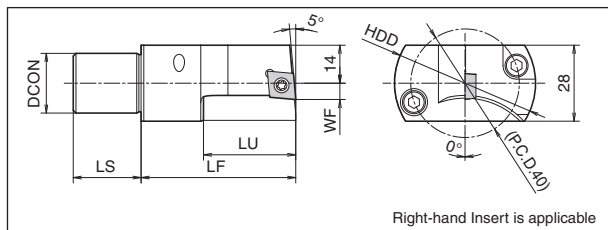
- (1) Avoid interfere with other tools
- (2) Special chuck may be required for some workpieces.
- (3) Limitation of stroke at the machine (soft limit) may required
- (4) Shorter wrench is necessary when using close to the machine.

Insert Grades	A
Turning	B
Indexable Inserts	C
CBN & PCD Tools	D
External	E
Small Parts Machining	F
Boring	G
Grooving	H
Cut-off	J
Threading	K
Drilling	M
Milling	N
Tools for Turning Mill	P
Spare Parts	R
Technical Information	T

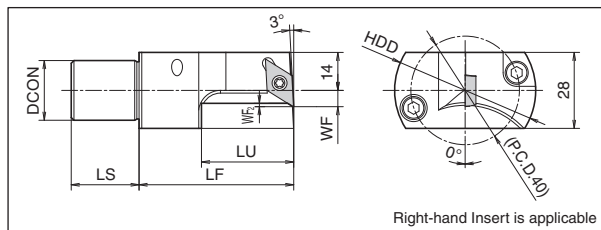
Flange holder

Flange holder

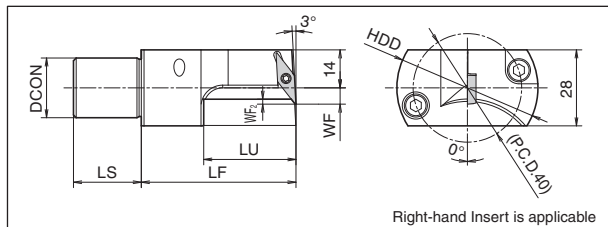
SF22F-SCLC (External / Facing) Applicable Inserts : CC...09...



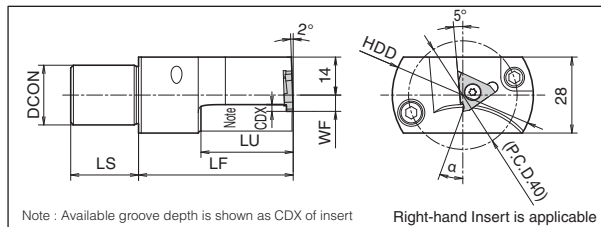
SF22F-SDUC (External / Facing) Applicable Inserts : DC...11...



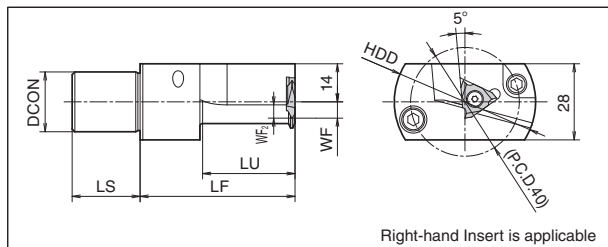
SF22F-SVUB (External / Undercutting) Applicable Inserts : VB...11...



SF22F-KTGF (External Shallow Grooving) Applicable Inserts : TGF32R...



SF22F-KTTX (External Threading) Applicable Inserts : TTX32R...

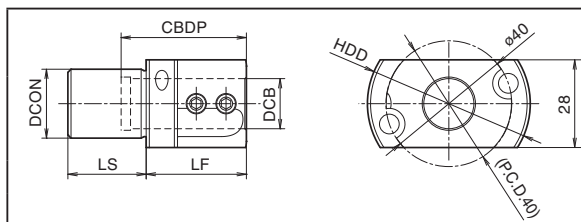


α	Insert Grades
20°	PR1115, PR1215 PR930, KW10
11°	KPD001
6°	TC40N

Toolholder Dimensions

Description	Stock	Dimension (mm)							Std. Corner-R (RE)	Spare Parts					
		DCON	HDD	LF	LS	LU	WF	WF ₂ CDX		Screw	Wrench	Mounting Bolt	Wrench	Adjustment Screw	Wrench
															
SF22F-SCLCL09-40P	▲	22	52	57	25	34	6	-	0.2	SB-4085TR	FT-15	HH5X30	LW-4	HS3X4	LW-1.5
SF22F-SDUCL11-40P	▲							1.5	0.2						
SF22F-SVUBL11-40P	▲							3	0.2						
SF22F-KTGFL16-40P	▲							2.5	-						
SF22F-KTTXL16-40P	▲							4	-						

Flange holder (Sleeve Type)



Description	Stock	Dimension (mm)					
		DCON	HDD	DCB	LF	LS	CBDP
SF22F-SH16-40P	▲	22	52	16	32	25	40
SF22F-SH20-40P	▲			20	48		43

Spare Parts

Mounting Bolt	Wrench	Adjustment Screw	Wrench	Screw (For fixing toolholder)	Wrench
HH5X30	LW-4	HS3X4	LW-1.5	HS6X4P	LW-3

▲ : To be discontinued