

# QUICK CHANGE TOOLING

# N

## N1 - N26

### QUICK CHANGE SYSTEMS

N2 - N22

KPC-SERIES	Polygon Shank Holders	N2
HSK-T TOOLING	(ICTM Standard)	N12
KQC	Flower Petal Adapter	N21

### CARTRIDGE

N23 - N26

LEVER LOCK	PS / PT	N24
TOP CLAMP	CT	N25
SCREW CLAMP	ST	N26

### LEVER LOCK PARTS COMPATIBILITY

R72

# KPC-Series

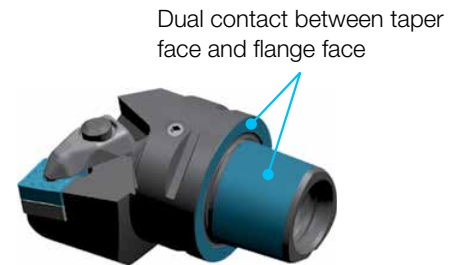
## Polygon Taper Shank Holders

Polygon taper shank with high rigidity and high precision

### PSC Shank Tools

JIS B 6066-1 Dual contact between polygon taper shank and the main spindle face

ISO26623-1 Polygonal taper interface with flange contact surface



#### 1 High Rigidity

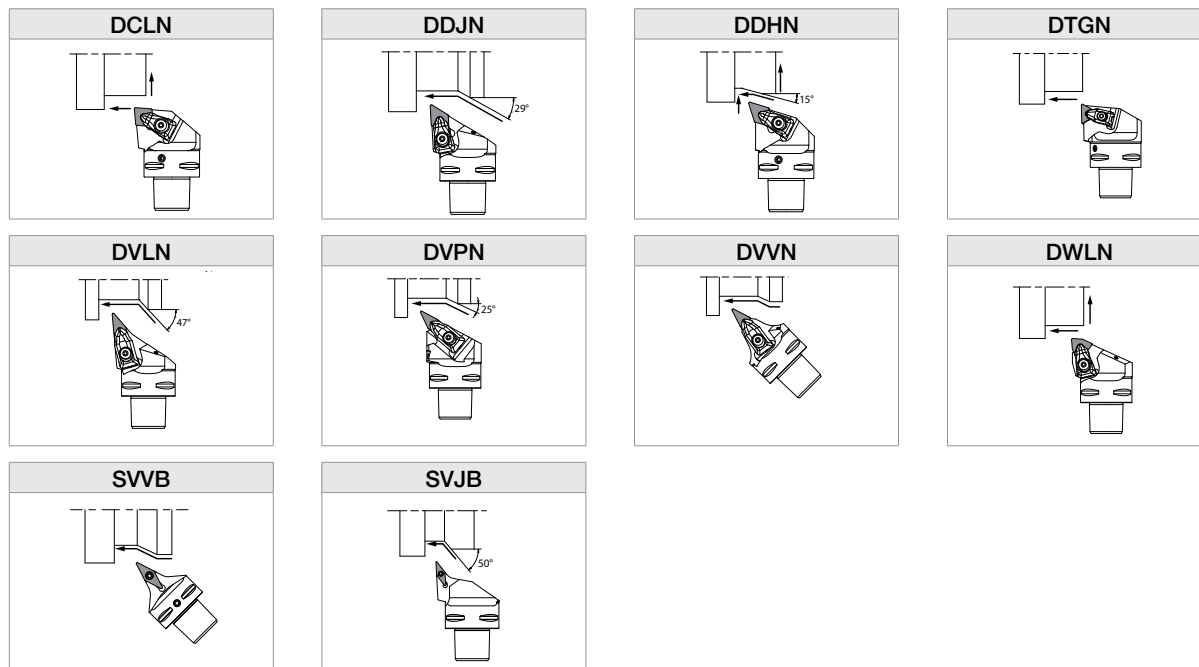
Polygon taper design and dual contact between the taper and the flange face for high rigidity

#### 2 High Precision

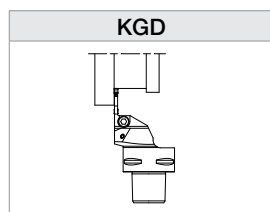
Locational accuracy within  $\pm 2\mu\text{m}$

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

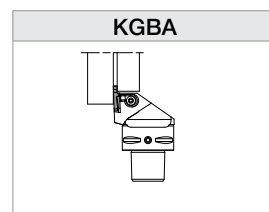
#### Turning



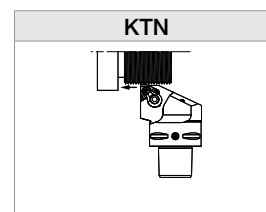
#### Grooving / Cut-Off



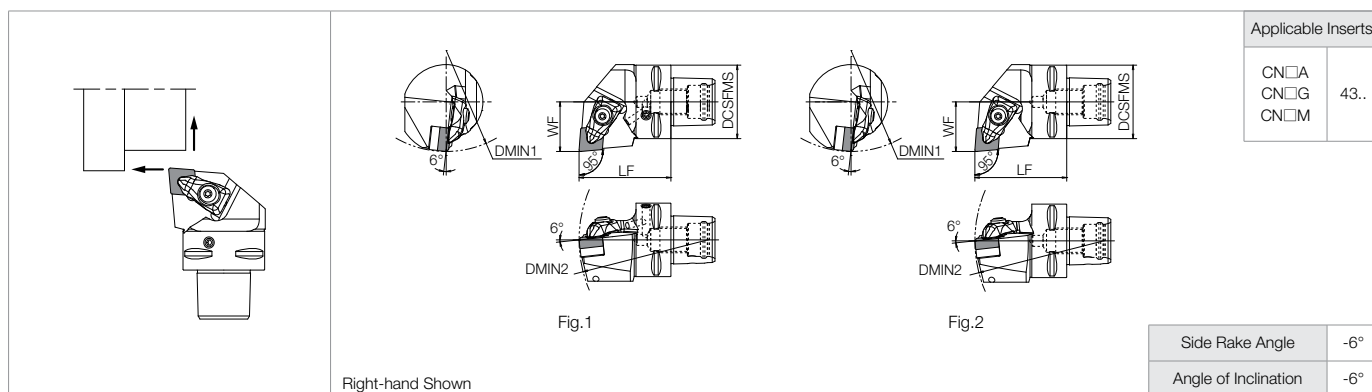
#### Shallow Grooving



#### Threading



## DCLN (External / Facing)



## Toolholder Dimensions

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

\* 1 Pressure Resistance : up to 1,015 psi

\* 2 When using inserts with corner-R (RE) greater than 3/64" (1.2mm), additional modifications to the toolholder or shim may be necessary to prevent interference with workpiece

\* 3 SX chipbreaker inserts require a different shim (sold separately)

\* 4 Recommended tightening torque 3.9 Nm

## Identification System (for External Holders)

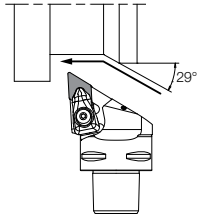
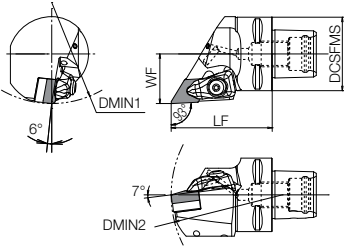
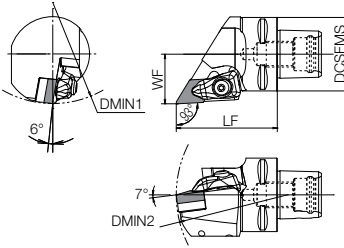
KPC3	-	D	C	L	N	R	22	045	12	A
Interface Size	Clamping System	Insert Shape	Insert Relief Angle	Hand of Tool	Cutting Edge Offset	Toolholder Length (Length from Gauge Line)	Coolant Hole			
KPC3 : PSC32 DCSFMS=32mm	D : Double Clamp	C : 80° Diamond	B : 5°	R : Right-hand	WF Dimension	LF Dimension	A : With			
KPC4 : PSC40 DCSFMS=40mm	S : Screw Clamp	D : 55° Diamond	N : 0°	L : Left-hand			S : Without			
KPC5 : PSC50 DCSFMS=50mm		T : 30° Triangle		N : Neutral						
		V : 35° Diamond								
		W : 80° Trigon								
Cutting Edge Angle										
L	J	H	G	P	V					
Insert Size										

● : Standard Item △ : Phaseout Item (will be removed from next catalog)

Contact your local Kyocera sales engineer to upgrade old products to new technology

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(Technical Support) 800.823.7284 - Option 2  
Visit us online at [KyoceraPrecisionTools.com](http://KyoceraPrecisionTools.com)

## DDJN (External / Copying)

					<b>Applicable Inserts</b> DN□A DN□G DN□M DNMX
	Right-hand Shown		<b>Side Rake Angle</b> -6° <b>Angle of Inclination</b> -7°		

### Toolholder Dimensions

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

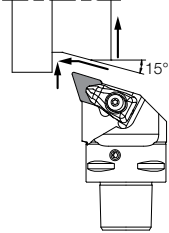
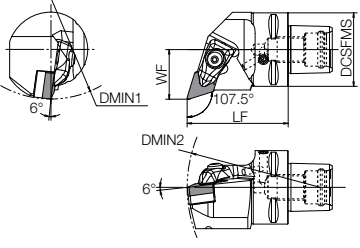
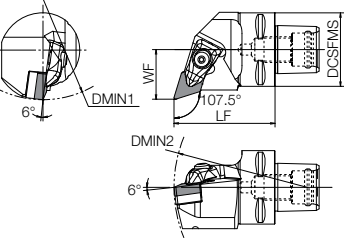
\* 1 Pressure Resistance : up to 1,015 psi

\* 2 When using inserts with corner-R (RE) greater than 3/64" (1.2mm), additional modifications to the toolholder or shim may be necessary to prevent interference with workpiece

\* 3 Shims in parentheses ( ) must be purchased separately for thicker inserts

\* 4 Recommended tightening torque 3.9 Nm

## DDHN (External / Copying)

					<b>Applicable Inserts</b> DN□A DN□G DN□M
	Right-hand Shown		<b>Side Rake Angle</b> -6° <b>Angle of Inclination</b> -6°		

### Toolholder Dimensions

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

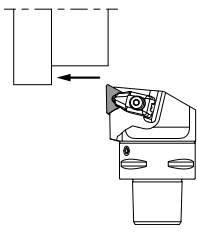
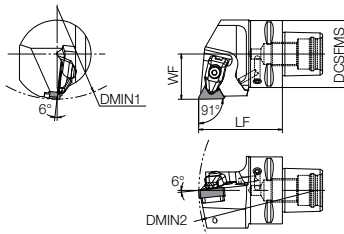
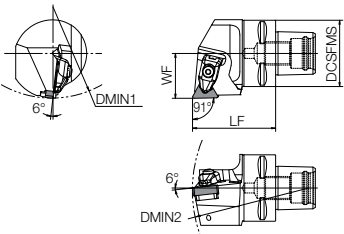
\* 1 Pressure Resistance : up to 1,015 psi

\* 2 When using inserts with corner-R (RE) greater than 3/64" (1.2mm), additional modifications to the toolholder or shim may be necessary to prevent interference with workpiece






















\* 3 Shims in parentheses ( ) must be purchased separately for thicker inserts

\* 4 Recommended tightening torque 3.9 Nm

## DTGN (External)

					Applicable Inserts	
					TN□A TN□G TN□M TNMX	33..
Right-hand Shown	Fig.1		Fig.2		Side Rake Angle	-6°
					Angle of Inclination	-6°

### Toolholder Dimensions

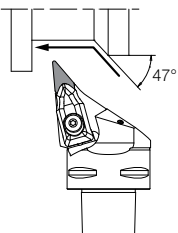
Part Number	Stock		Coolant Hole	Dimensions (mm)					Standard Corner-R (RE)	Drawing	Spare Parts						
	R	L		DCSFMS	LF	WF	DMIN1	DMIN2			Clamp	Screw	Spring	Shim	Shim Screw	Wrench	Wrench (Sold Separately)
																	
KPC3-DTGN% 22040-16A	●	●	Yes	32	40	22	110	116	0.8	Fig.1							
KPC4-DTGN% 27050-16A	●	●		40	50	27	110	140									
KPC5-DTGN% 35060-16A	●	●		50	60	35	110	165									
KPC3-DTGN% 22040-16S	●	●	No	32	40	22	110	116	0.8	Fig.2							
KPC4-DTGN% 27050-16S	●	●		40	50	27	110	140									
KPC5-DTGN% 35060-16S	●	●		50	60	35	110	165									

\* 1 Pressure Resistance : up to 1,015 psi



















\* 2 When using inserts with corner-R (RE) greater than 1/16" (1.6mm), additional modifications to the toolholder or shim may be necessary to prevent interference with workpiece

\* 3 Recommended tightening torque 3.9 Nm

## DVLN (External / Copying)

							Applicable Inserts		
							VN□A VN□G VN□M		
							33..		

### Toolholder Dimensions

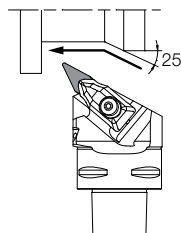
Part Number	Stock		Coolant Hole	Dimensions (mm)					Standard Corner-R (RE)	Drawing	Spare Parts					
	R	L		DCSFMS	LF	WF	DMIN1	DMIN2			Clamp	Screw	Spring	Shim	Shim Screw	Wrench
																
KPC3-DVLN% 22058-16A	●	●	Yes	32	58	22	80	100	0.8	Fig.1						
KPC4-DVLN% 27062-16A	●	●		40	62	27	80	100			CP-5D-S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

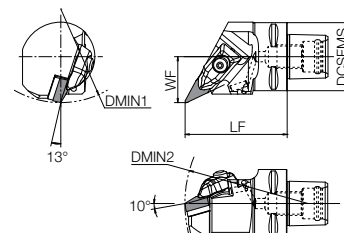
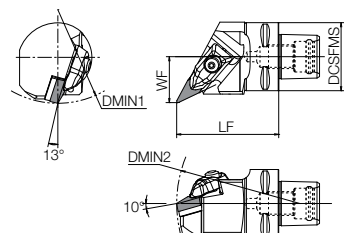
\* 1 Pressure Resistance : up to 1,015 psi

\* 2 When using inserts with corner-R (RE) greater than 3/64" (1.2mm), additional modifications to the toolholder or shim may be necessary to prevent interference with workpiece

\* 3 Recommended tightening torque 3.9 Nm

## DVPN (External / Facing / Copying / Undercutting)
























Applicable Inserts	
VN□A VN□G VN□M	33..

Side Rake Angle	-13°
Angle of Inclination	-10°

Right-hand Shown

### Toolholder Dimensions

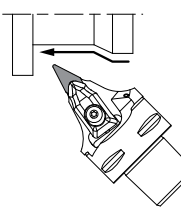
Part Number	Stock		Coolant Hole	Dimensions (mm)					Standard Corner-R (RE)	Drawing	Spare Parts					
	R	L		DCSFMS	LF	WF	DMIN1	DMIN2			Clamp	Screw	Spring	Shim	Shim Screw	Wrench
																
KPC3-DVPN% 22055-16A	●	●	Yes	32	55	22	110	130	0.8	Fig.1						
KPC4-DVPN% 27060-16A	●	●		40	60	27	110	145								
KPC5-DVPN% 35065-16A	●	●		50	65	35	110	165								
KPC3-DVPN% 22055-16S	●	●	No	32	55	22	110	130	0.8	Fig.2						
KPC4-DVPN% 27060-16S	●	●		40	60	27	110	145								
KPC5-DVPN% 35065-16S	●	●		50	65	35	110	165								

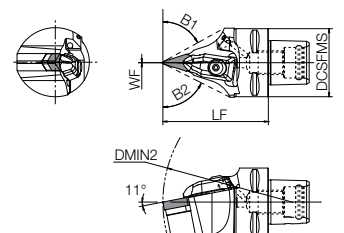
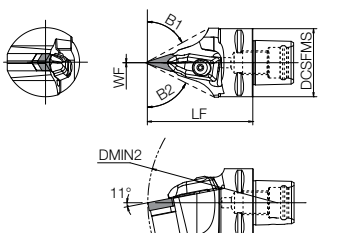
\* 1 Pressure Resistance : up to 1,015 psi

\* 2 When using inserts with corner-R (RE) greater than 3/64" (1.2mm), additional modifications to the toolholder or shim may be necessary to prevent interference with workpiece

\* 3 Recommended tightening torque 3.9 Nm

## DVNN (External / Copying)
























Applicable Inserts	
VN□A VN□G VN□M	33..

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

Right-hand Shown

### Toolholder Dimensions

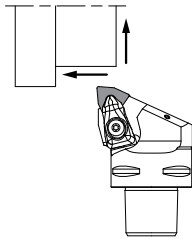
Part Number	Stock			Coolant Hole	Dimensions (mm)					Standard Corner-R (RE)	Drawing	Spare Parts						
	R	N	L		DCSFMS	LF	WF	B1 <sup>3</sup> (°)	B2 <sup>3</sup> (°)			DMIN2	Clamp	Screw	Spring	Shim	Shim Screw	Wrench
																		
KPC4-DVVNN00062-16A	●	●		Yes	40	62	0	61	63	152	0.8	Fig.1						
KPC5-DVVNN00065-16A	●	●			50	65	0	59	59	170								
KPC3-DVVNN00058-16S	●	●		No	32	58	0	68	68	140	0.8	Fig.2						
KPC4-DVVNN00062-16S	●	●			40	62	0	61	63	152								
KPC5-DVVNN00065-16S	●	●			50	65	0	59	59	170								

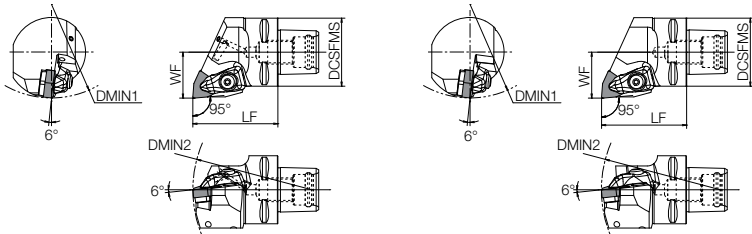
\* 1 Pressure Resistance : up to 1,015 psi

\* 2 When using inserts with corner-R (RE) greater than 3/64" (1.2mm), additional modifications to the toolholder or shim may be necessary to prevent interference with workpiece

\* 3 Angle B1 and B2 show the area of interference between the holder and the cutting edge

**DWLN** (External / Facing)























**Applicable Inserts**  
WN□A  
WN□G  
WN□M

Side Rake Angle    -6°  
Angle of Inclination    -6°

Right-hand Shown

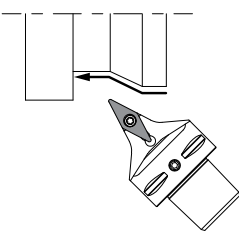
**Toolholder Dimensions**

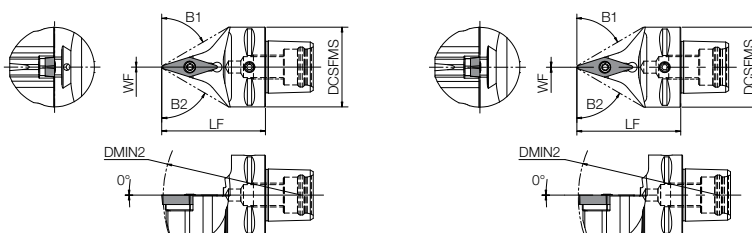
Part Number	Stock		Coolant Hole	Dimensions (mm)					Standard Corner-R (RE)	Drawing	Spare Parts					
	R	L		DCSFMS	LF	WF	DMIN1	DMIN2			Clamp	Screw	Spring	Shim	Shim Screw	Wrench
																
KPC3-DWLN% 22047-08A	●	●	Yes	32	47	22	110	121	0.8	Fig.1						
KPC4-DWLN% 27050-08A	●	●		40	50	27	110	140								
KPC5-DWLN% 35060-08A	●	●		50	60	35	110	165								
KPC3-DWLN% 22047-08S	●	●	No	32	47	22	110	121	0.8	Fig.2						
KPC4-DWLN% 27050-08S	●	●		40	50	27	110	140								
KPC5-DWLN% 35060-08S	●	●		50	60	35	110	165								

\* 1 Pressure Resistance : up to 1,015 psi

\* 2 Recommended tightening torque 3.9 Nm

**SVVB** (External / Copying)










**Applicable Inserts**  
VB□□  
VCGT

Right-hand Shown

**Toolholder Dimensions**

Part Number	Stock			Coolant Hole	Dimensions (mm)					Standard Corner-R (RE)	Drawing	Spare Parts					
	R	N	L		DCSFMS	LF	WF	B1 <sup>1,3</sup> (°)	B2 <sup>3,4</sup> (°)			DMIN2	Insert Screw	Wrench	Shim	Shim Screw	Wrench
																	 For Shim
KPC3-SVVB00048-16A		●		Yes	32	48	0	62	62	116	0.8	Fig.1	SB-40125TRN	FT-15	SVN-32N *2(SVN-32S)	SS-4N	LW-4
KPC4-SVVB00052-16A		●			40	52	0	59	59	140							
KPC5-SVVB00060-16A		●			50	60	0	56	56	165							
KPC3-SVVB00048-16S		●		No	32	48	0	62	62	116	0.8	Fig.2	SB-40125TRN	FT-15	SVN-32N *2(SVN-32S)	SS-4N	LW-4
KPC4-SVVB00052-16S		●			40	52	0	59	59	140							
KPC5-SVVB00060-16S		●			50	60	0	56	56	165							

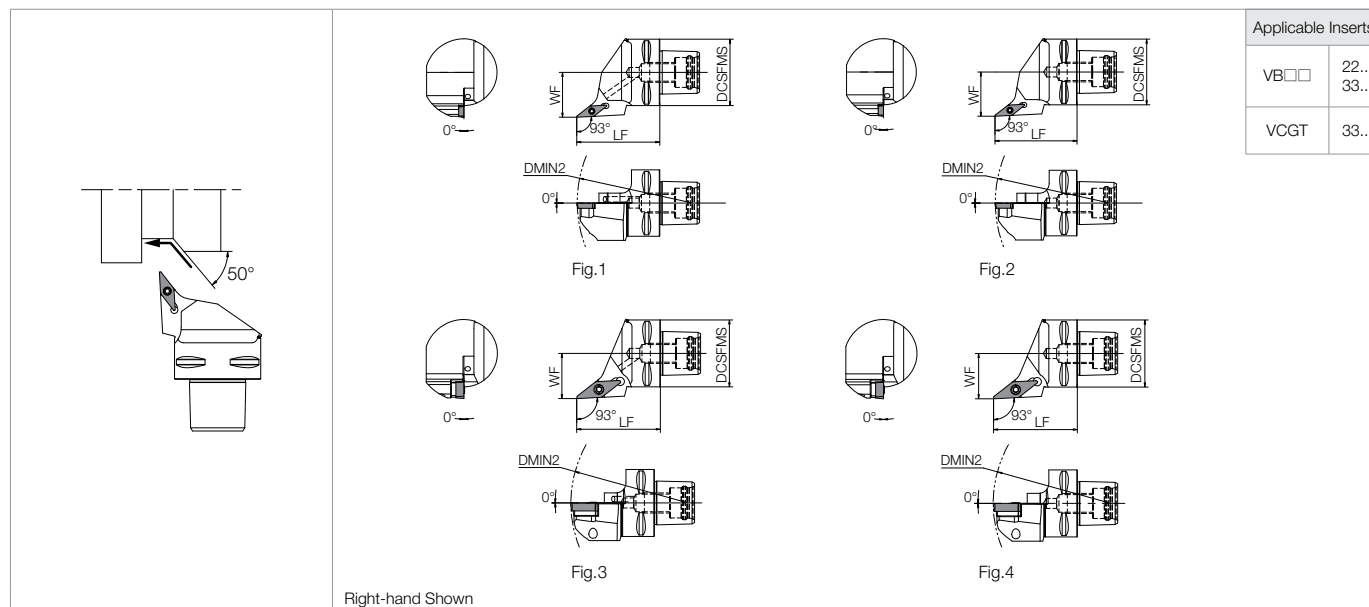
\* 1 Pressure Resistance : up to 1,015 psi

\* 2 When using inserts with corner-R (RE) of 0.008" and 1/64" (0.2mm and 0.4mm), shim in parentheses is recommended (sold separately)


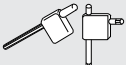



\* 3 Angle B1 and B2 show the area of interference between the holder and the cutting edge

\* 4 Recommended tightening torque 3.9 Nm

## SVJB (External / Facing / Copying / Undercutting)



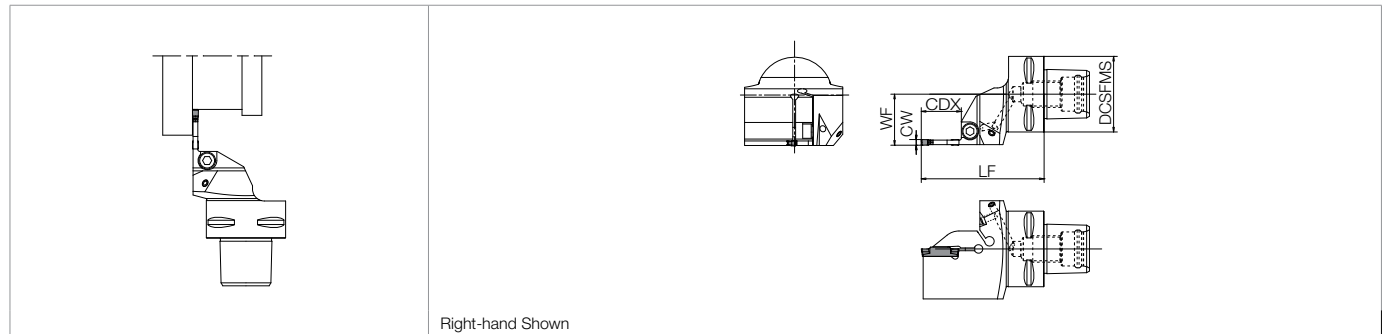
### Toolholder Dimensions

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



- Pressure Resistance : up to 1,015 psi
- Recommended tightening torque is 1.2 Nm for VB□□22.. inserts and 3.5Nm for VB(C)□□33.. inserts
- \* 1 When using inserts with corner-R (RE) of 1/32" (0.8mm), additional modifications to the toolholder or shim may be necessary to prevent interference with workpiece
- \* 2 When using inserts with corner-R (RE) of 3/64" (1.2mm), additional modifications to the toolholder or shim may be necessary to prevent interference with workpiece
- \* 3 When using inserts with corner-R (RE) of 0.008" and 1/64" (0.2mm and 0.4mm), shim in parentheses is recommended (sold separately)



## KGD (Grooving / Cut-Off)



### Toolholder Dimensions

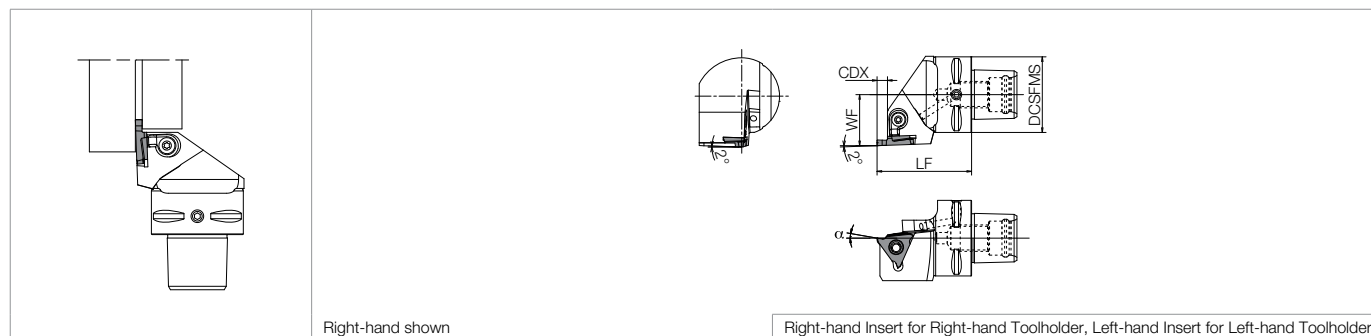
Groove Width CW (mm)	Available Grooving Depth CDX (mm)	Part Number	Stock		Coolant Hole	Dimensions (mm)				Width CW (mm)		Spare Parts		Applicable Inserts ➡ <b>G26, G27</b>
			R	L		DCSFMS	LF	WF	CDX	MIN	MAX			
2	10	KPC3-KGD 22050-2T10	●	●	Yes	32	50	22	10	2.0	3.0	HH5X16	LW-4	GDM Type GDG Type
		KPC4-KGD 27055-2T10	●	●		40	55	27						
		KPC5-KGD 35060-2T10	●	●		50	60	35						
	17	KPC3-KGD 22055-2T17	●	●	Yes	32	55	22	17					
		KPC4-KGD 27060-2T17	●	●		40	60	27						
		KPC5-KGD 35060-2T17	●	●		50	60	35						
3	10	KPC3-KGD 22050-3T10	●	●	Yes	32	50	22	10	3.0	4.0			
		KPC4-KGD 27055-3T10	●	●		40	55	27						
		KPC5-KGD 35060-3T10	●	●		50	60	35						
	20	KPC3-KGD 22060-3T20	●	●	Yes	32	60	22	20					
		KPC4-KGD 27065-3T20	●	●		40	65	27						
		KPC5-KGD 35065-3T20	●	●		50	65	35						
4	10	KPC3-KGD 22050-4T10	●	●	Yes	32	50	22	10	4.0	5.0			
		KPC4-KGD 27055-4T10	●	●		40	55	27						
		KPC5-KGD 35060-4T10	●	●		50	60	35						
	20	KPC4-KGD 27065-4T20	●	●	Yes	40	65	27	20					
		KPC5-KGD 35065-4T20	●	●		50	65	35						
	25	KPC4-KGD 27070-4T25	●	●	Yes	40	70	27	25					
KPC5-KGD 35070-4T25		●	●	50		70	35							
5	10	KPC4-KGD 27055-5T10	●	●	Yes	40	55	27	10	5.0	6.0			
		KPC5-KGD 35060-5T10	●	●		50	60	35						
	17	KPC4-KGD 27060-5T17	●	●	Yes	40	60	27	17					
		KPC5-KGD 35060-5T17	●	●		50	60	35						

\* 1 Pressure Resistance : up to 1,015 psi



\* 2 Recommended tightening torque 6.5 Nm

\* 3 CDX dimension shows available grooving depth (if CDX dimension is 20mm or more, using a 2-edge insert, the maximum grooving depth is 18mm)

## KGBA (External Shallow Grooving)



### Toolholder Dimensions

Part Number	Stock		Coolant Hole	Dimensions (mm)				Spare Parts		Applicable Inserts ➡ <b>G6~G10</b>
	R	L		DCSFMS	LF	WF	CDX	Clamp Set	Wrench	
										
KPC3-KGBA 22040-16	●	●	Yes	32	40	22	2.5	LGBA-16 S	FT-15	GBA32 Type
KPC4-KGBA 27050-16	●	●		40	50	27				
KPC5-KGBA 35060-16	●	●		50	60	35				
KPC3-KGBA 22040-2215	●	●	No	32	40	22	4.0	LGBA-22 S		GBA43 Type
KPC4-KGBA 27050-2215	●	●		40	50	27				
KPC5-KGBA 35060-2215	●	●		50	60	35				
KPC3-KGBA 22040-2225	●	●	Yes	32	40	22	5.5			
KPC4-KGBA 27050-2225	●	●		40	50	27				
KPC5-KGBA 35060-2225	●	●		50	60	35				
KPC3-KGBA 22040-2235	●	●	No	32	40	22	5.5			
KPC4-KGBA 27050-2235	●	●		40	50	27				
KPC5-KGBA 35060-2235	●	●		50	60	35				

\* 1 Pressure Resistance : up to 1,015 psi

\* 2 CDX dimension shows the distance from the holder to the cutting edge. Actual grooving depth is the CDX dimension of the insert

\* 3 Use clamp set LGBA-..RS for right-hand (R) holder and LGBA-..LS for left-hand (L) holder

\* 4 See tables below for rake angle of the insert after installing in the holder

### GBA-GM Rake Angle (α) after Installment

α	Insert Part Number
10°	GBA43 150-020GM
15°	GBA43 175-020GM ~ GBA43 265-030GM
12°	GBA43 300-030GM ~ GBA43 400-040GM

α indicates the rake angle from the center of the groove width when installed

### GBA-MY Rake Angle (α) after Installment

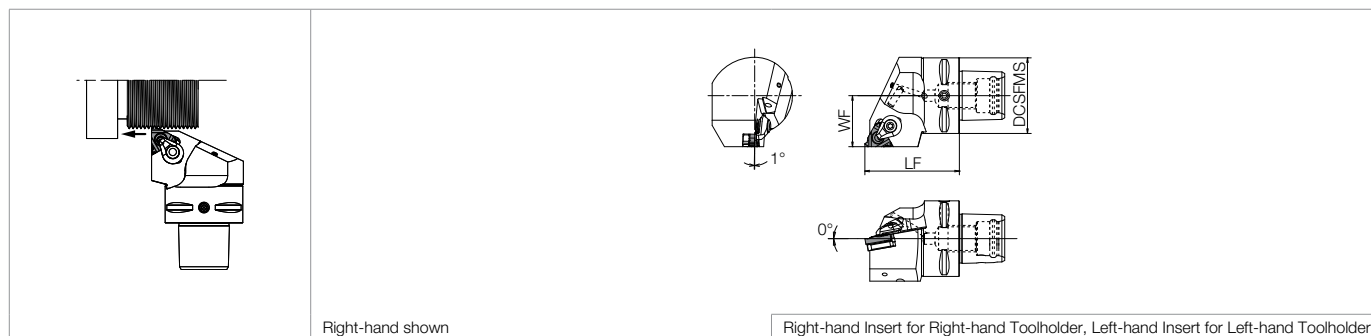
α	Insert Part Number
15°	GBA43 175-020MY ~ GBA43 350-030MY
14°	GBA43 400-040MY

α indicates the rake angle from the center of the groove width when installed






### GBA Rake Angle (α) after Installment

GBA32 000-000		GBA43 000-000		GBA32 000-000R (Full-R)	
α	Insert Grade	α	Insert Grade	α	Insert Grade
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, TC40, TN90, PV7040 PR930, PR1115, PR1215, PR1625 PR905, KPD001, KPD010	14°	TN620, TN90, PV7040, PR930 PR1115, PR1215, PR1625, PR905
20°	KW10	20°	KW10		KW10
					050R ~ 150R
					200R
					050R ~ 200R

## KTN (External Threading)



### Toolholder Dimensions

Part Number	Stock		Coolant Hole	Dimensions (mm)			Spare Parts				Applicable Inserts  <b>J6, J8, J10, J12, J14, J16, J18</b>
	R	L		DCSFMS	LF	WF	Clamp Set	Wrench	Shim	Shim Screw	
											
KPC3-KTN% 22040-16	●	●	Yes	32	40	22	CPS-5S	FT-15	TN-32	SP3X8	16E% Type
KPC4-KTN% 27050-16	●	●		40	50	27					
KPC5-KTN% 35060-16	●	●		50	60	35					

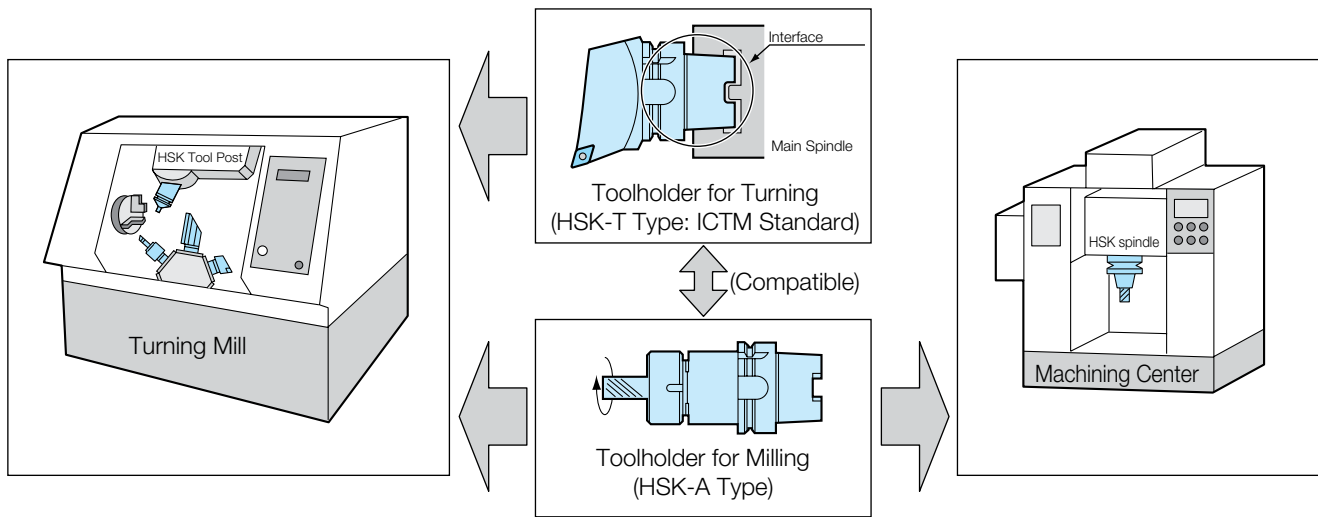
\* 1 Pressure Resistance : up to 1,015 psi

## HSK Tooling

- The turning mill is a machine that combines turning and milling functions. Now an interface (between workpiece and toolholder - similar to a milling arbor) 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 $\infty$ .

### Features

- Compatible with HSK-A type for Machining Centers



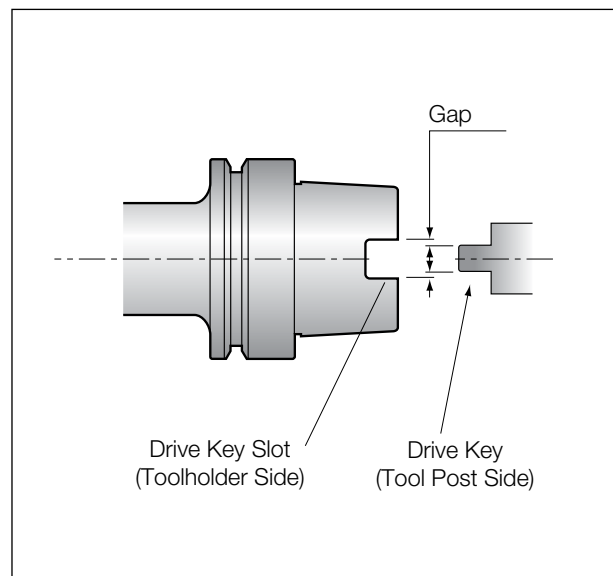
- Machining precision for turning is improved by minimizing the gap between the drive key slot on the toolholder side and the drive key on the toolpost side.

Table 1: Gap Comparison of a Key and Key Slot

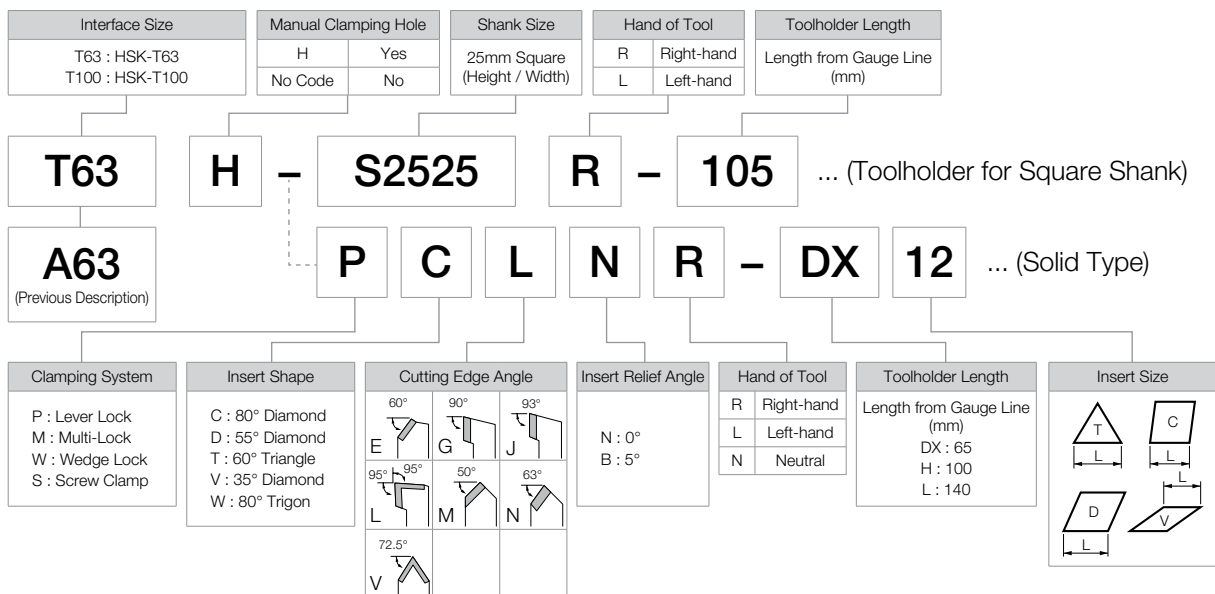
(Unit: mm)

HSK-A63 Tolerance	<p>12.25 Key Tolerance 12.35</p> <p>0.10 Min. Gap 0.15 0.08</p> <p>12.5 Key Slot Tolerance 12.58</p> <p>Max. Gap 0.33</p>				
	12.2	12.3	12.4	12.5	12.6
HSK-T63 Tolerance	<p>0.025</p> <p>12.385 12.41</p> <p>Min. Gap 0.015 0.035</p> <p>12.425 12.46</p> <p>Max. Gap 0.075</p>				

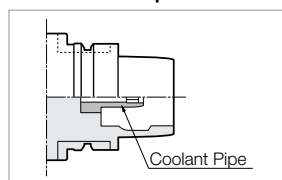
Table 2: Gap Effect



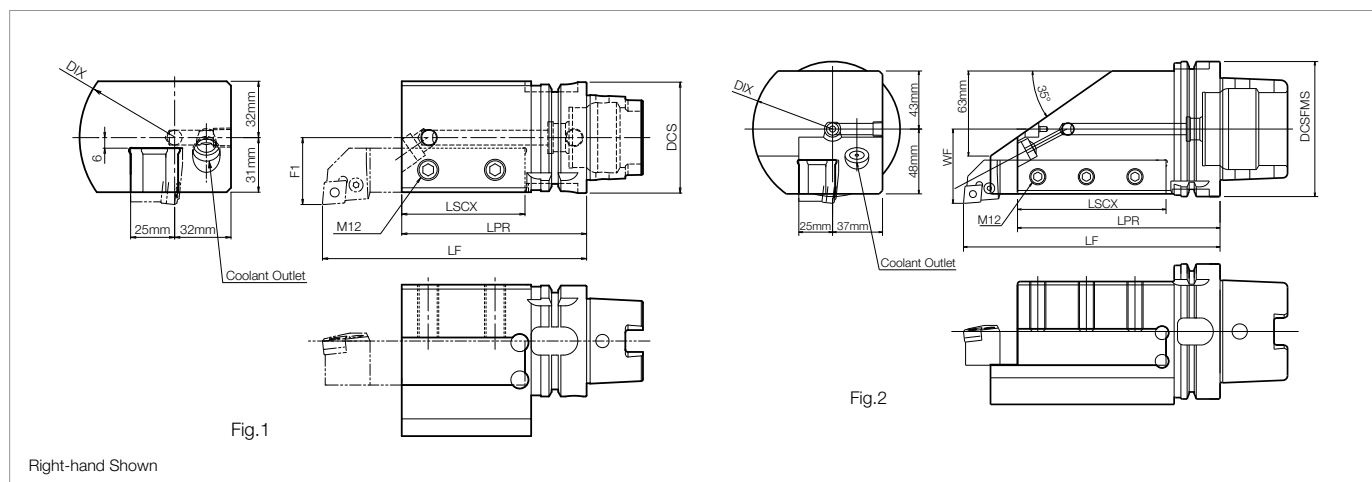
## Identification System (for External)



### Coolant Pipe is Built into Toolholder



## Toolholder for Square Shank (for External / Facing)

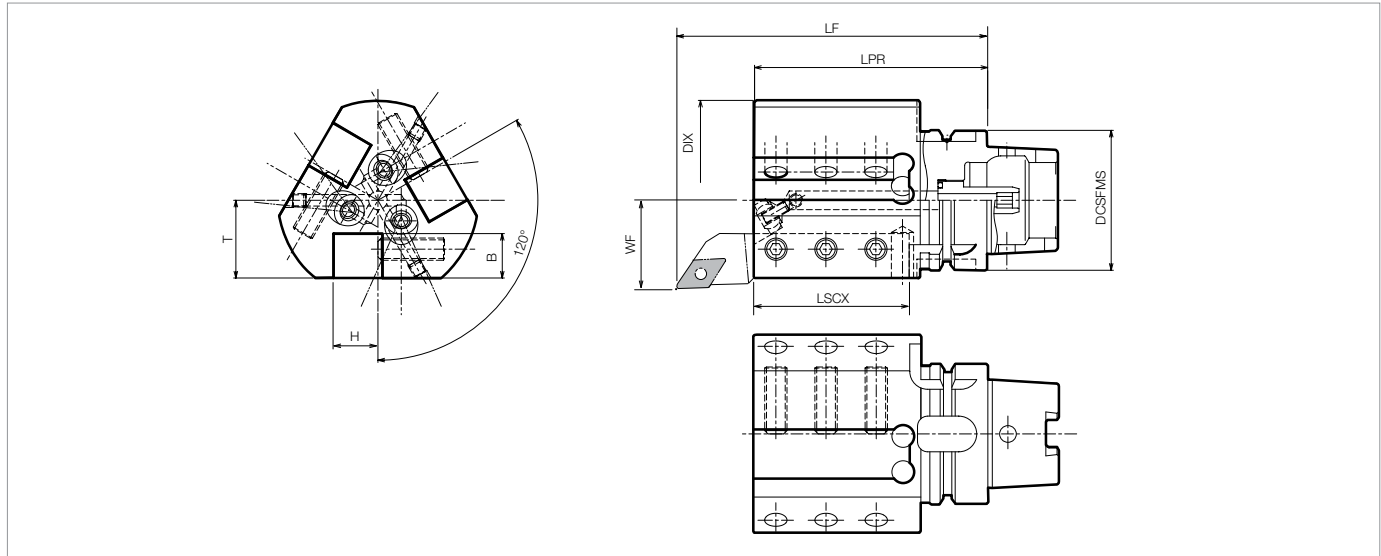


### Toolholder Dimensions

Part Number	Previous Part Number	Stock	Dimensions (mm)						Drawing	Spare Parts		
			DCSFSM	DIX	LF	LPR	LSCX	WF		Clamp Screw	Wrench	Coolant Pipe
T63H- S2525R-105	A63-WH- S2525R-105	●	63	108	150	105	70	38	Fig.1	HS12X25	LW-6	CL63-1
S2525L-105	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

## Toolholder for Square Shank (for External / Facing)

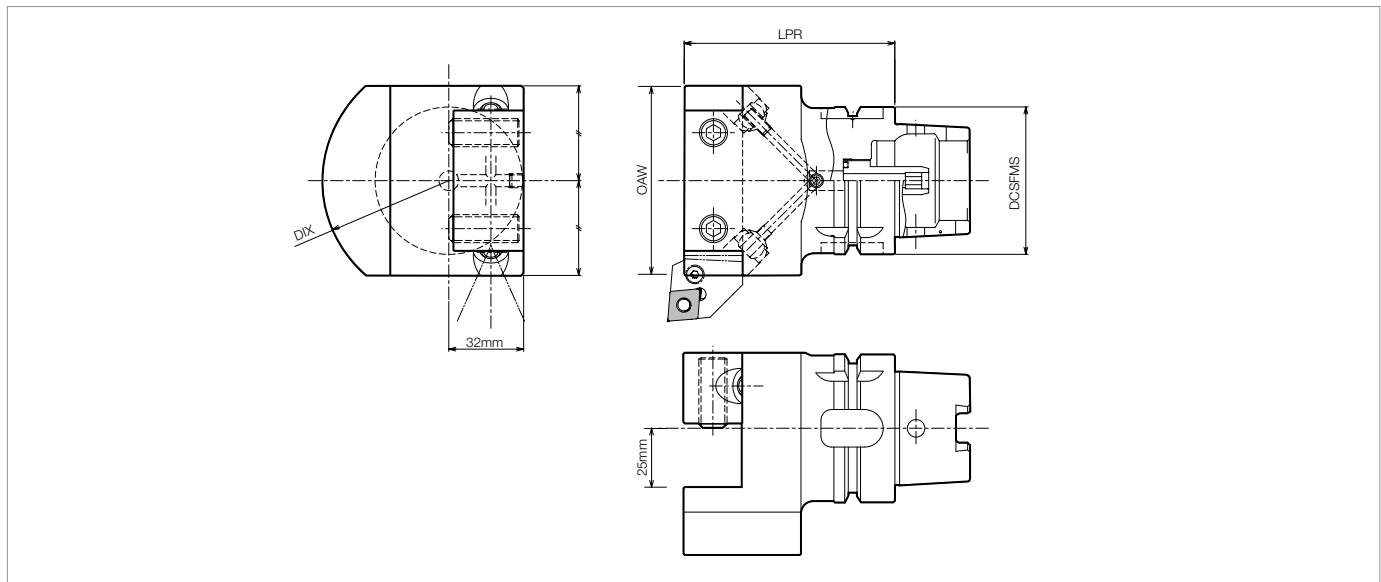


### Toolholder Dimensions




Part Number	Attachment Toolholder Shank Dimension	Stock	Dimensions (mm)									Spare Parts		
			DCSFMS	DIX	H	B	T	LF	LPR	LSCX	WF	Clamp Screw	Wrench	Coolant Pipe
<b>T63H- S2020R-105T</b>	(20mm Square)	<input type="checkbox"/>	63	90	20	20	35	150	105	70	40	HS12X30	LW-6	CL63-1
<b>T100H- S2525R-150T</b>	(25mm Square)	<input type="checkbox"/>	100	118	25	25	48	190	150	110	55	HS12X35		CL100-1

• Coolant Outlet Direction is Adjustable

## Toolholder for Square Shank (for Facing / External)

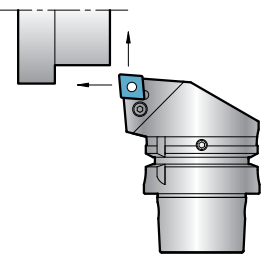


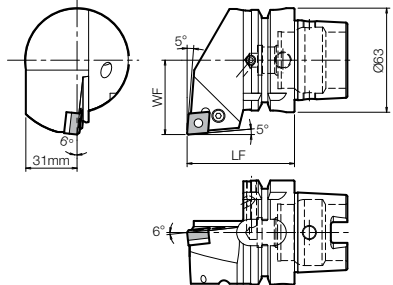
### Toolholder Dimensions

Part Number		Attachment Toolholder Shank Dimension	Stock	Dimensions (mm)				Spare Parts		
								Clamp Screw	Wrench	Coolant Pipe
				DCSFMS	DIX	LPR	OAW			
T63H- S2525-90F	S2525-120F	(25mm Square)	<input type="checkbox"/>	63	108	90	81	HS12X30	LW-6	CL63-1
			<input type="checkbox"/>			120				
T100H- S2525-105F	S2525-150F	(25mm Square)	<input type="checkbox"/>	100	118	105	96			CL100-1
			<input type="checkbox"/>			150				

• Coolant Outlet Direction is Adjustable

## PCLN (External / Facing)












Applicable Inserts

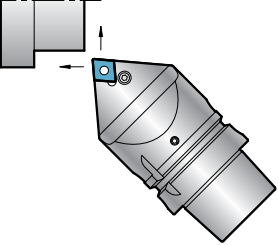
CN□A CN□G CN□M	43..
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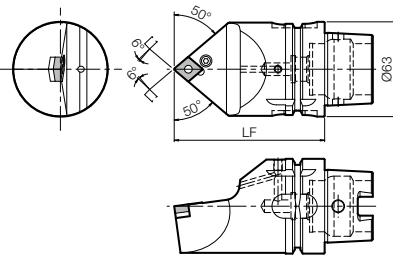
Right-hand Shown

### Toolholder Dimensions

Part Number	Previous Part Number	Stock	Dimensions (mm)		Spare Parts						
			LF	WF	Lever	Lock Screw	Shim	Shim Pin	Punch	Wrench	Coolant Pipe
T63H- PCLNR-DX12	A63-WH- PCLNR-DX12	□	65	45							
PCLNL-DX12	PCLNL-DX12	□									

## PCMN (External / Facing)












Applicable Inserts

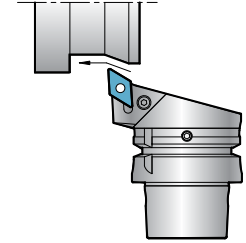
CN□A CN□G CN□M	43..
----------------------	------

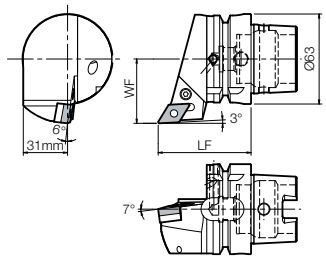
Right-hand Shown

### Toolholder Dimensions

Part Number	Previous Part Number	Stock	Dimensions (mm)		Spare Parts						
			LF	WF	Lever	Lock Screw	Shim	Shim Pin	Punch	Wrench	Coolant Pipe
T63H- PCMNN-H12	A63-WH- PCMNN-H12	●	100	140							
PCMNN-L12	PCMNN-L12	□	140								

## PDJN (External / Copying)












Applicable Inserts

DN□A DN□G DN□M	43..
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Right-hand Shown

### Toolholder Dimensions

Part Number	Previous Part Number	Stock	Dimensions (mm)		Spare Parts						
			LF	WF	Lever	Lock Screw	Shim	Shim Pin	Punch	Wrench	Coolant Pipe
T63H- PDJNR-DX15	A63-WH- PDJNR-DX15	●	65	45							
PDJNL-DX15	PDJNL-DX15	□									

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



- T

- When using inserts whose corner-R(r<sub>c</sub>) is greater than 1.6mm, please purchase shim with \* mark and use it in order to prevent workpiece and shim from interfering with each other.



- T

• When using inserts whose corner-R(r<sub>e</sub>) is greater than 1.6mm, please purchase shim with \* mark and use it in order to prevent workpiece and shim from interfering each other.



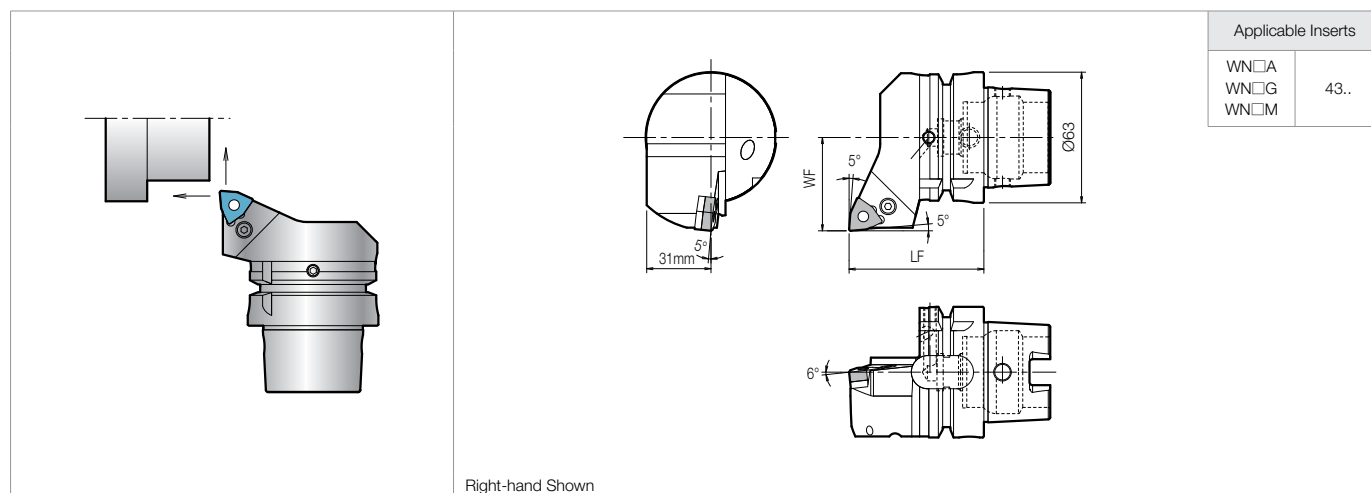
- T

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## PWLN (External / Facing)



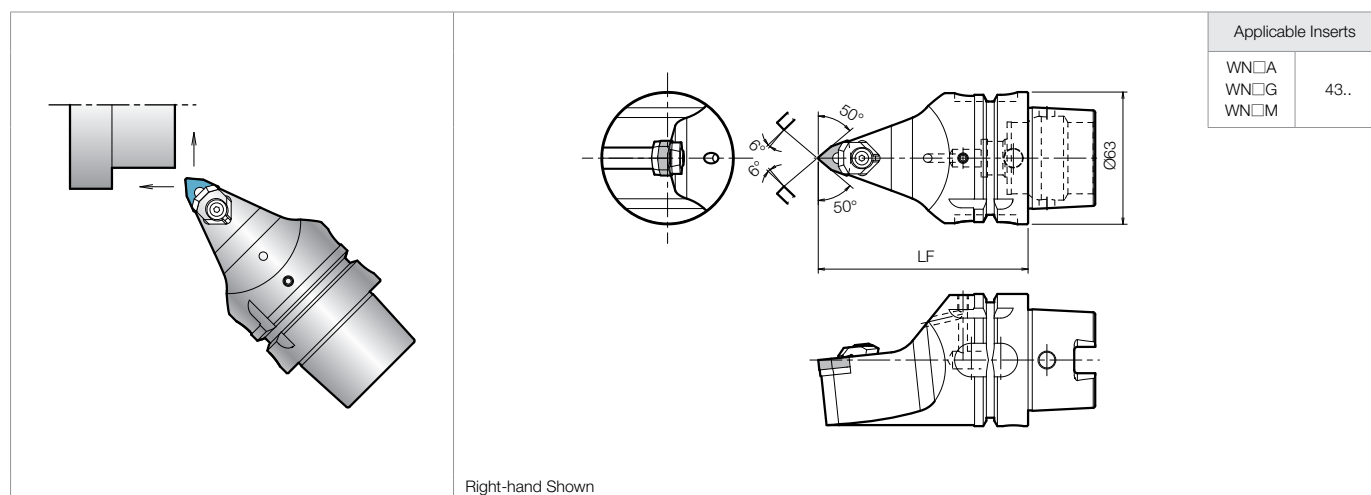
Applicable Inserts

WN□A	43..
WN□G	
WN□M	

### Toolholder Dimensions

Part Number	Previous Part Number	Stock	Dimensions (mm)		Spare Parts						
			LF	WF	Lever	Lock Screw	Shim	Shim Pin	Punch	Wrench	Coolant Pipe
T63H- PWLNR-DX08	A63-WH- PWLNR-DX08	<input type="checkbox"/>	65	45							
PWLN-L-DX08	PWLN-L-DX08	<input type="checkbox"/>									

## WWMN (External / Facing)



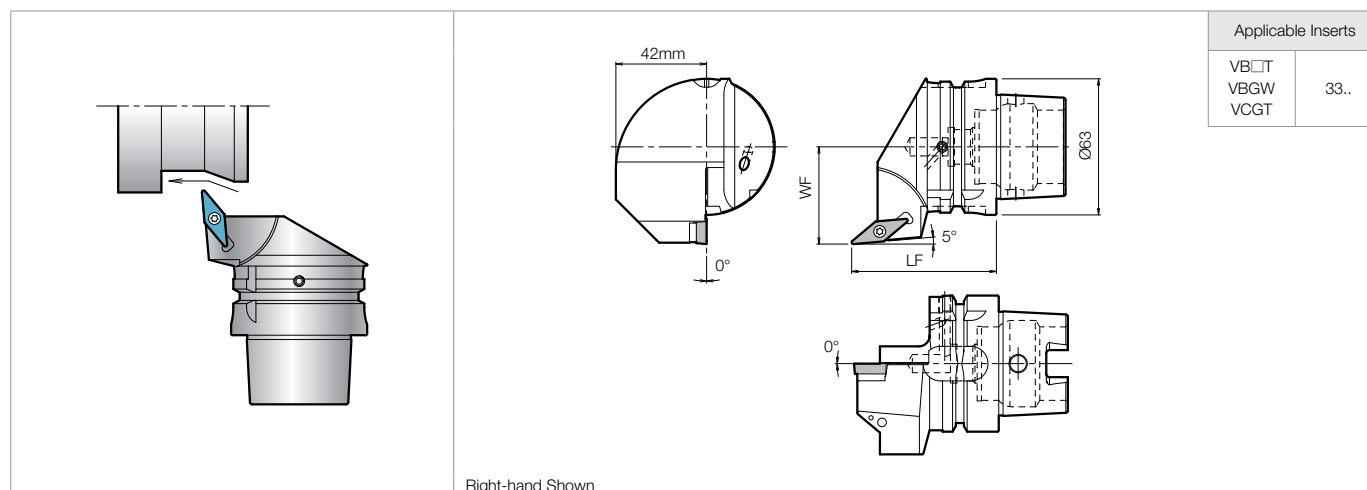
Applicable Inserts

WN□A	43..
WN□G	
WN□M	

### Toolholder Dimensions

Part Number	Previous Part Number	Stock	Dimensions (mm)		Spare Parts					
			LF		Clamp Set	Shim	Shim Pin	Shim Nut	Wrench	Coolant Pipe
T63H- WWMNN-H08	A63-WH- WWMNN-H08	<input type="checkbox"/>	100							
WWMNN-L08	WWMNN-L08	<input type="checkbox"/>	140							

## SVLB (External / Copying)



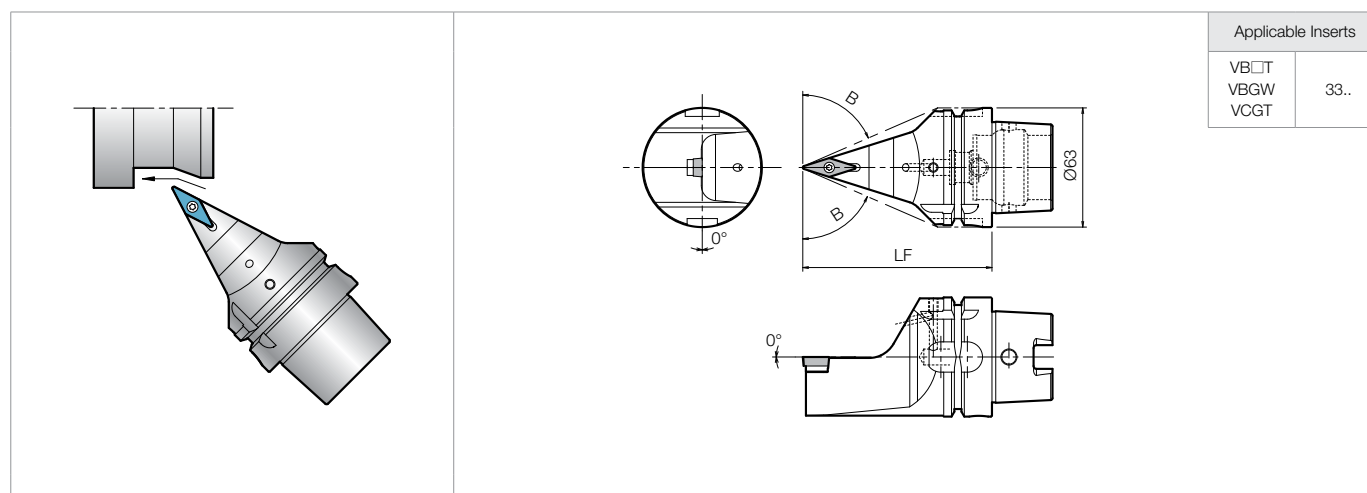
Applicable Inserts

VBCT	33..
VBGW	
VC GT	

### Toolholder Dimensions

Part Number	Stock	Dimensions (mm)		Spare Parts					
				Clamp Screw	Wrench	Shim	Shim Screw	Wrench	Coolant Pipe
		LF	WF						
T63H- SVLBR-DX16N	<input type="checkbox"/>	65	45	SB-40125TRN	FT-15	SVN-32N	SS-4N	LW-4	CL63-1
SVLBL-DX16N	<input type="checkbox"/>								

## SVVB (External / Copying)



Applicable Inserts

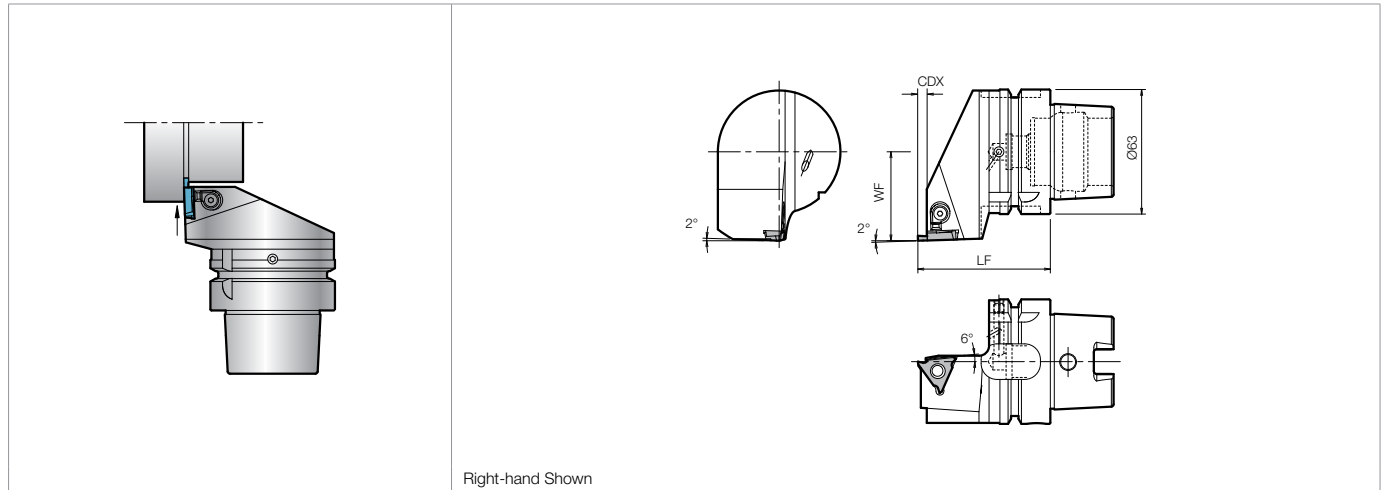
VBCT	33..
VBGW	
VC GT	

### Toolholder Dimensions


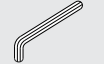

Part Number	Stock	Dimensions (mm)		Spare Parts					
				Clamp Screw	Wrench	Shim	Shim Screw	Wrench	Coolant Pipe
		LF	* B (°)						
T63H- SVVBN-H16N	●	100	66.5	SB-40125TRN	FT-15	SVN-32N	SS-4N	LW-4	CL63-1
SVVBN-L16N	●	140	72.5						

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

## ■ KGBA (External Grooving)

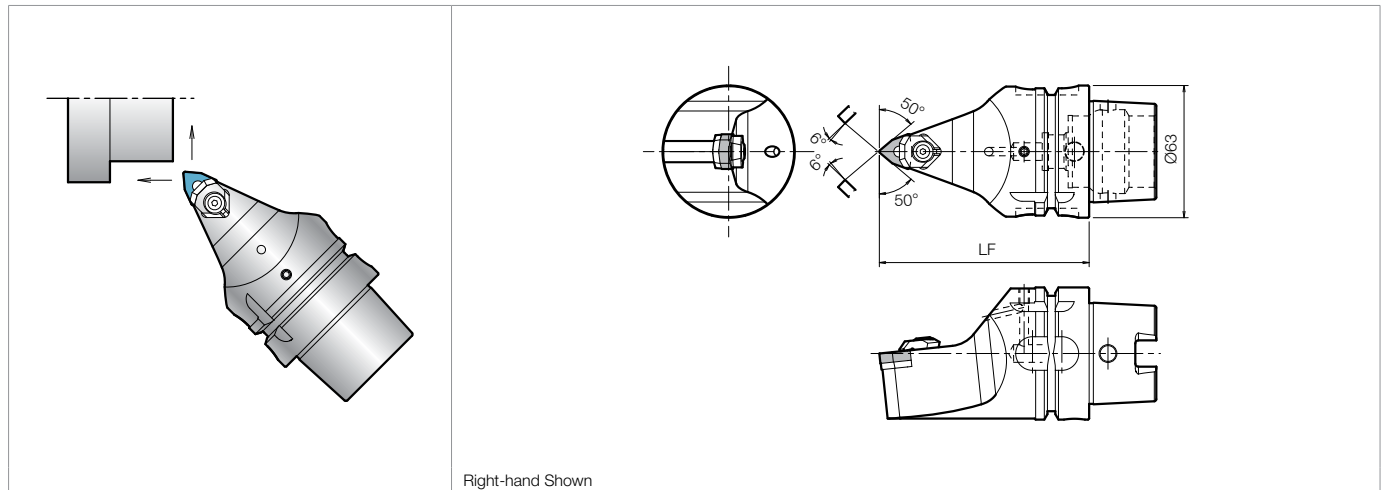


### ● Toolholder Dimensions

Part Number		Previous Part Number		Stock	Dimensions (mm)			Spare Parts			Applicable Inserts ➡ <b>G6~G10</b>
								Clamp Set	Wrench	Coolant Pipe	
					LF	WF	CDX				
T63H- KGBAR-16	A63-WH- KGBAR-16	<input type="checkbox"/>	67	45	2.5	LGBA-16RS	FT-15	CL63-1	GBA32R Type		
	KGBAR-22-15	<input type="checkbox"/>	67	45	4.0	LGBA-22RS			GBA43R Type		
	KGBAR-22-25	<input type="checkbox"/>			4.5						
	KGBAR-22-35	<input type="checkbox"/>			5.5						
T63H- KGBAL-16	A63-WH- KGBAL-16	<input type="checkbox"/>	67	45	2.5	LGBA-16LS	FT-15	CL63-1	GBA32L Type		
	KGBAL-22-15	<input type="checkbox"/>	67	45	4.0	LGBA-22LS			GBA43L Type		
	KGBAL-22-25	<input type="checkbox"/>			4.5						
	KGBAL-22-35	<input type="checkbox"/>			5.5						

● Dimension CDX shows the distance from the toolholder to the cutting edge.

## ■ KTN (Threading)



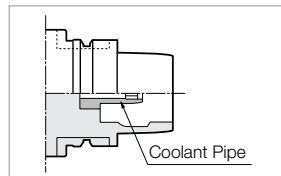
### ● Toolholder Dimensions

Part Number	Previous Part Number	Stock	Dimensions (mm)		Spare Parts					Applicable Inserts ➡ <b>J6, J10, J12, J14, J16, J18</b>
			L1	F1	Clamp Set	Wrench	Shim	Shim Screw	Coolant Pipe	
<b>T63H- KTNR-16</b>	<b>A63-WH- KTNR-16</b>	<input type="checkbox"/>	67	45	CPS-5S	FT-15	TN-32	SP3X8	CL63-1	16ER Type
		<input type="checkbox"/>			CPS-6S	LW-3	TN-43			22ER Type

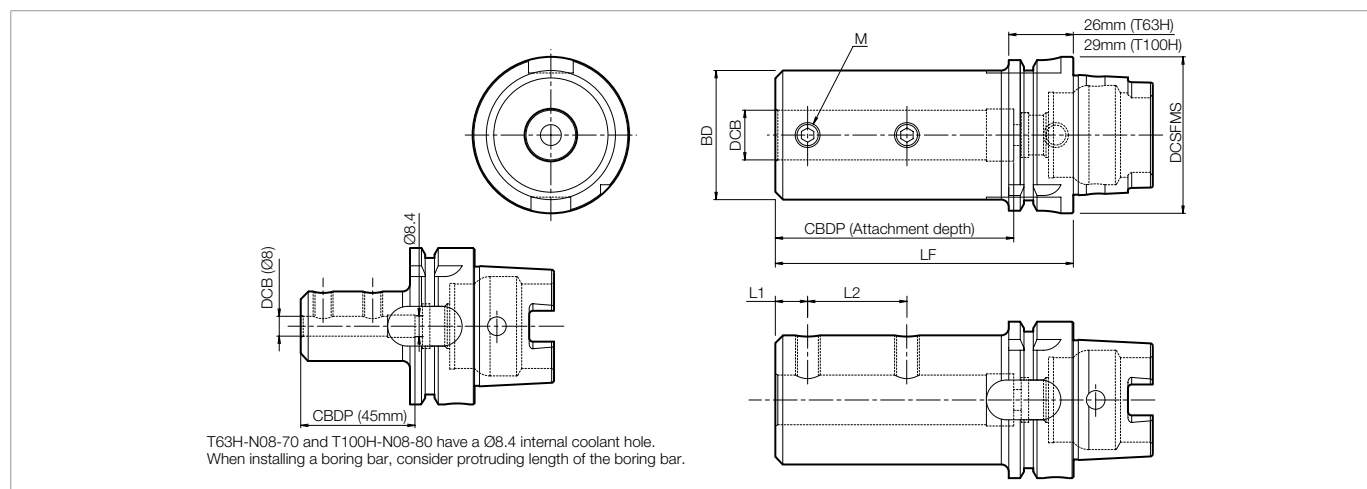
## Identification System (Boring Bar / Drill)

T63		H		- N		08		- 70	
Tolerance Symbol		Manual Clamping Hole		Toolholder		Internal Dia.		Toolholder Length (mm)	
T63 : HSK-T63		H Yes		N For Boring Bar		08 Ø8		Length from Gauge Line	
T100 : HSK-T100		No Code No		C For Drill		10 Ø10			
						:			


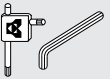

### Coolant Pipe is Built into Toolholder



## Toolholder for Boring Bars and Drills



### Toolholder Dimensions

Part Number	Previous Part Number	Stock	Dimensions (mm)								Spare Parts			Notes
											Clamp Screw	Wrench	Coolant Pipe	
			DCB	DCSFMS	BD	L1	L2	L3	L4	M				
T63H- N08-70	A63-WH- N08-70	<input type="checkbox"/>	8	63	28	70	45	9	20	M8	HS8X10	LW-4	CL63-1	For Boring Bar
	N10-80	<input type="checkbox"/>	10		35	80	55	9	22		HS8X12			
	N12-90	<input type="checkbox"/>	12		42	90	65	9	22	M10	HS10X16	LW-5		
	N16-100	<input type="checkbox"/>	16		48	100	75	11	30		M12	HS12X16		
	N20-120	<input type="checkbox"/>	20		52	120	95	13	40	HS12X12				
	N25-140	<input type="checkbox"/>	25		56	140	115	13	50	HS12X12				
N32-160	<input type="checkbox"/>	32	56	160	135	13	60							
T63H- C20-75	A63-WH- C20-75	<input type="checkbox"/>	20	63	52	75	50	13	22	M10	HS10X16	LW-5	CL63-1	*For Drill
	C25-85	<input type="checkbox"/>	25		56	85	58	15	28	M12	HS12X16	LW-6		
	C32-90	<input type="checkbox"/>	32		56	90	62	15	30		HS12X12			
	C40-100	<input type="checkbox"/>	40		68	100	72	18	35	M16	HS16X12	LW-8		
T100H- N08-80	-	<input type="checkbox"/>	8	100	28	80	45	9	20	M8	HS8X10	LW-4	CL100-1	For Boring Bar
		<input type="checkbox"/>	10		35	90	55	9	22		HS8X12			
		<input type="checkbox"/>	12		42	100	65	9	22	M10	HS10X16	LW-5		
		<input type="checkbox"/>	16		48	110	75	11	30		M12	HS12X18		
		<input type="checkbox"/>	20		52	130	95	13	40	HS12X20				
		<input type="checkbox"/>	25		62	150	115	13	50					
		<input type="checkbox"/>	32		72	170	135	13	60					
T100H- C20-85	-	<input type="checkbox"/>	20	100	52	85	50	13	22	M10	HS10X16	LW-5	CL100-1	*For Drill
		<input type="checkbox"/>	25		62	90	58	15	20	M16	HS16X18	LW-8		
		<input type="checkbox"/>	32		72	95	62	15	20					
		C40-105	<input type="checkbox"/>		40	82	105	72	15	25	M16	HS16X20		

\* Shorter than boring bar toolholder.

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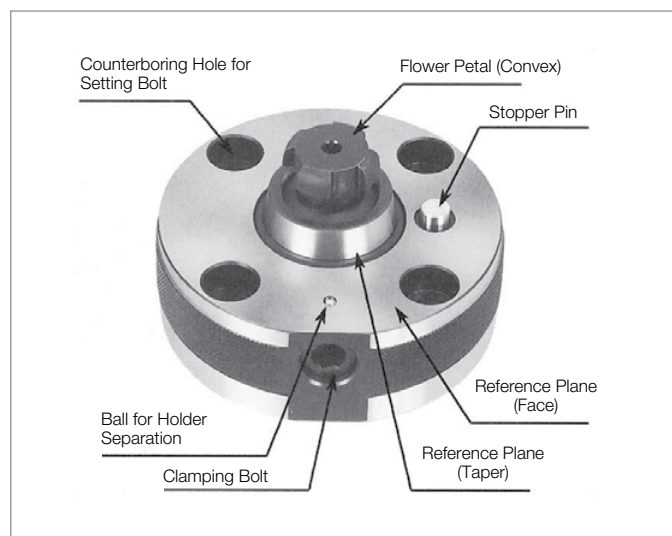
## KQC Series



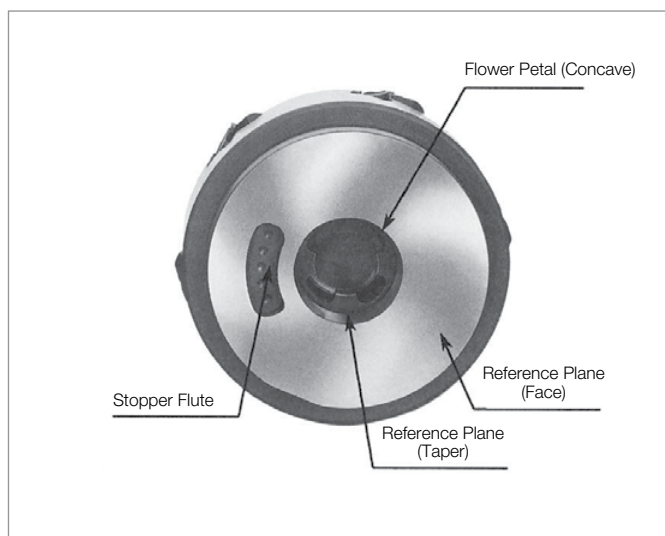
## Features

1. The way to assemble holder is turn the clamping bolt 1 revolution. 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 $\mu$ m.
3. Applicable to Various Tools.
  - Boring Tool (Rough & Fine)
  - Face Milling (Min.  $\varnothing 63$ , Max.  $\varnothing 160$  is possible)
  - Centering Tool
  - External Turning
  - Applicable to Tools with Coolant Hole

## Clamping System



Adapter Side



Attachment Side

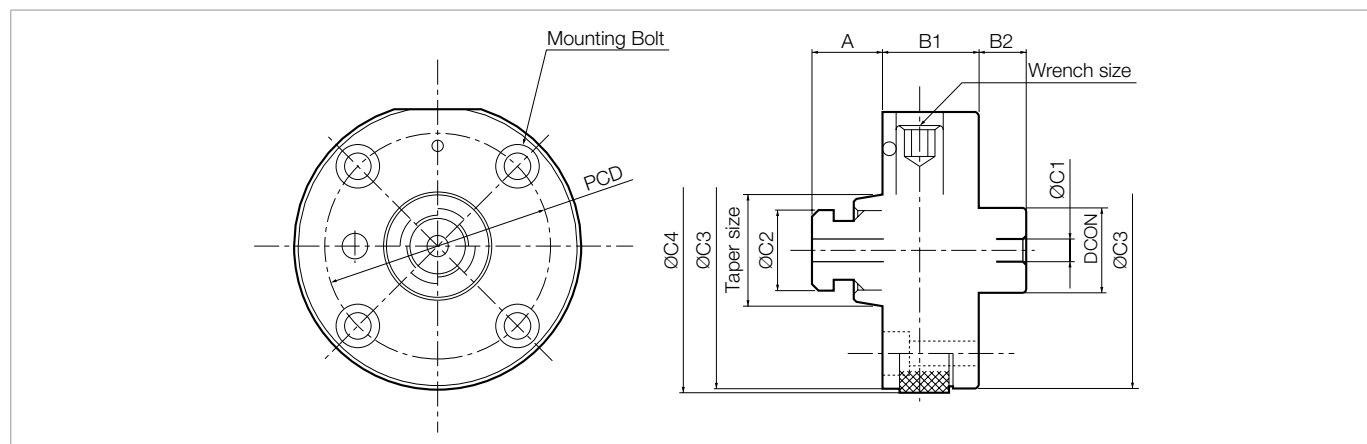
## How to Use Clamping System

1. Combine flower petal 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 clamping bolt attached to adapter side 1 revolution and tighten by hexagon wrench.

INSERT GRADES	A
TURNING INSERTS	B
CBN/PCD INSERTS	C
TURNING HOLDERS	D
SMALL TOOLS	E
BORING	F
GROOVING	G
CUT-OFF	H
THREADING	J
DILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
TECHNICAL	R
INDEX	T

# QUICK CHANGE SYSTEM OF FLOWER PETAL ADAPTER

## Adapter

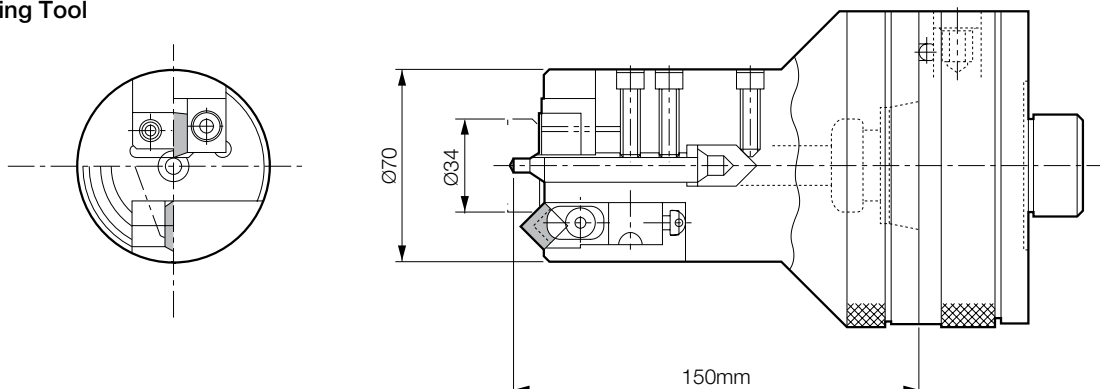


### Toolholder Dimensions (mm)

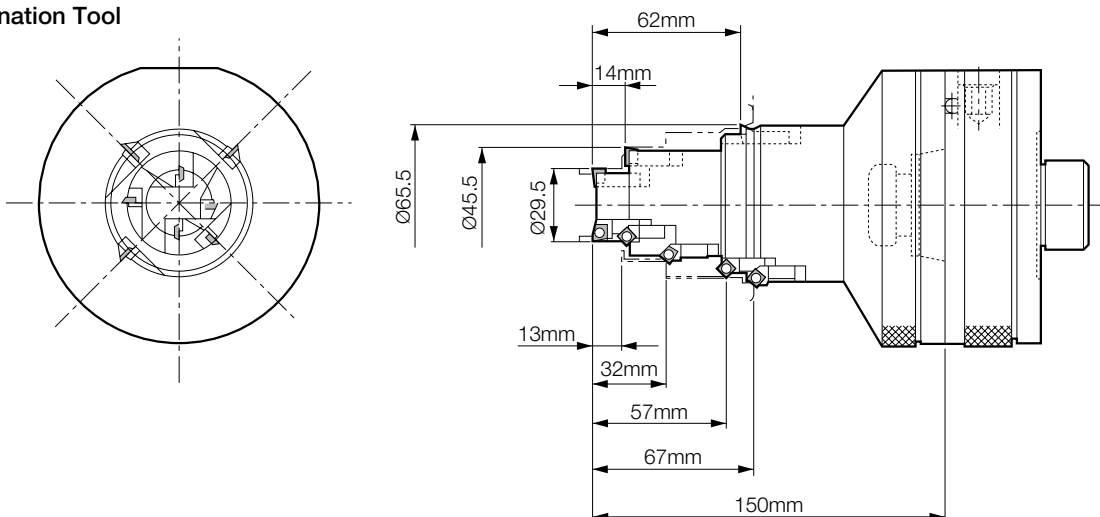
Part Number	Taper Size	A	B1	B2	ØC1	ØC2	ØC3	ØC4	DCON	PCD	Wrench Size	Mounting Bolt
KQC28	Ø28	23	25 Over	15 Over	4	24	60 Over	62 Over	20	43 Over	6	6-8
KQC35	Ø35	27	30 Over	15 Over	6	28	75 Over	77 Over	25	54 Over	8	8-10
KQC45	Ø45	30	40 Over	15 Over	8	32	90 Over	92 Over	25	66 Over	10	8-12
KQC70	Ø70	33	50 Over	15 Over	10	40	130 Over	132 Over	25	100 Over	12	10-16

## Toolholder (Attachment) Reference Example

### Centering Tool

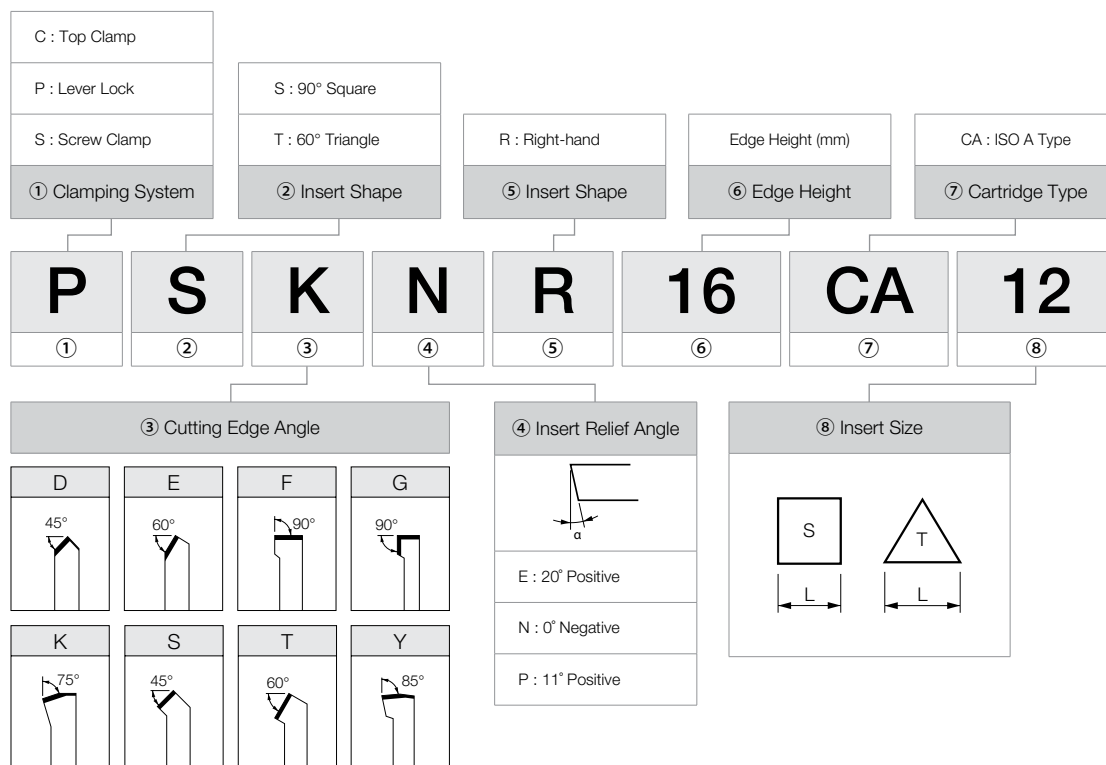


### Combination Tool

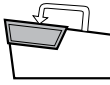
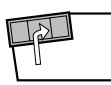
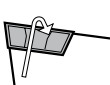


• Applicable to various tooling (also with coolant hole)

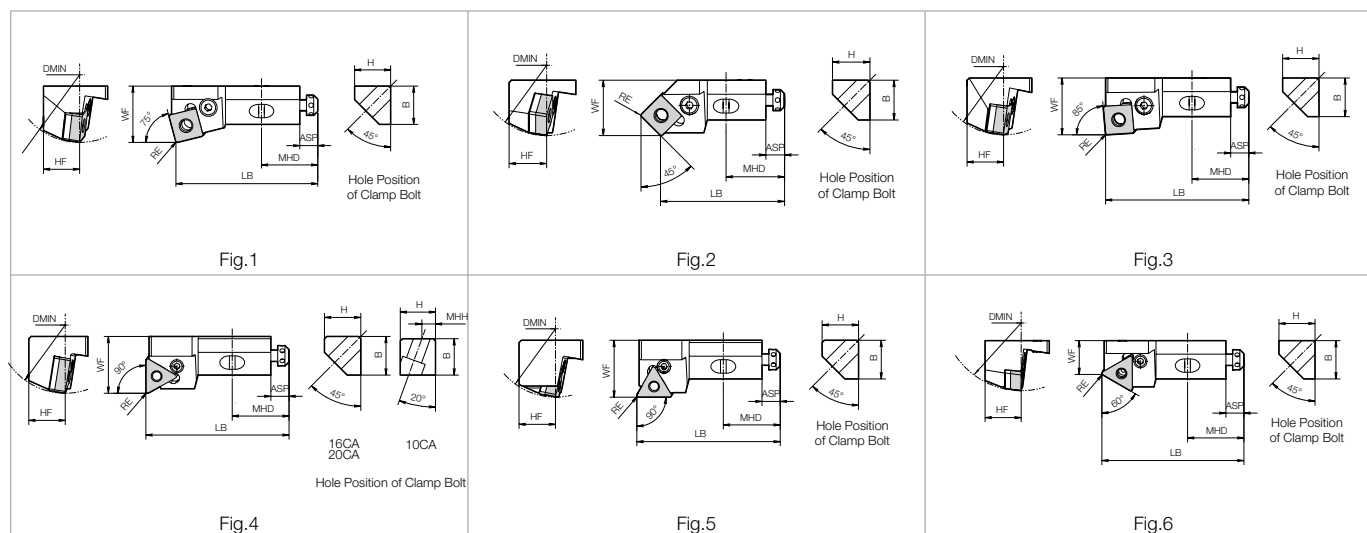
## Identification System for Cartridge (Square Shank)



## Clamping System

Series	Design	Features	Series	Design	Features
<b>Top Clamp (C)</b>		<ul style="list-style-type: none"> <li>Rigid Clamping</li> <li>Negative Insert : Medium to Heavy Machining (Mainly for Ceramic Insert)</li> <li>Positive Insert : Low Cutting Force</li> </ul>	<b>Lever Lock (P)</b>		<ul style="list-style-type: none"> <li>Easy Insert Replacement</li> <li>General Use</li> </ul>
<b>Screw Clamp (S)</b>		<ul style="list-style-type: none"> <li>Simple Mechanism</li> <li>Fewer Parts</li> <li>Finishing to Medium Machining</li> </ul>			














## Lever Lock (Right-hand Shown)



### Toolholder Dimensions

Part Number	Stock	Dimensions (mm)								Standard Corner-R (RE)	Min. Bore Dia. DMIN (mm)	Drawing	Applicable Inserts	Applicable Inserts Ref. Page	
		H	B	LB	MHD	ASP	MHI	HF	WF						
PSKNR 16CA12	<input type="checkbox"/>	16	17	63	25	8	-	16	25	0.8	60	Fig.1	SN□A SN□G 43.. SN□M	<u>B32 ~ B35</u> <u>B111</u> <u>C10</u>	
PSSNR 16CA12	<input type="checkbox"/>			53					15			Fig.2			
PSYNR 16CA12	<input type="checkbox"/>			63					25			Fig.3			
PTFNR 10CA11	<input type="checkbox"/>	12.5	11	50	20	8	5	10	14	0.4	40	Fig.4	TN□A TN□G 22..	<u>B40</u> <u>B42</u>	
16CA16	<input type="checkbox"/>	15.5	16	63	25	8	-	16	25	0.8	60		33..	TN□A TN□G 43.. TN□M 33..	<u>B36 ~ B43</u> <u>B113</u> <u>C10</u> <u>C11</u> <u>C23</u>
20CA22	<input type="checkbox"/>	20	19	70	30	10		20			70				
PTGNR 16CA16	<input type="checkbox"/>	16	17	63	25	8	-	16	25		60	Fig.5			
PTTNR 16CA16	<input type="checkbox"/>								15	70	Fig.6				

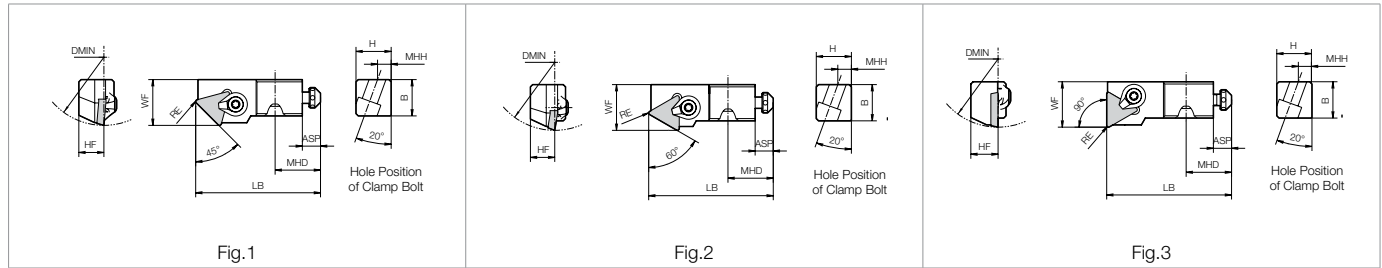
### Spare Parts

Part Number	Lever	Lock	Shim	Shim Pin	Punch	Wrench	Radial Adjustment Screw	Axial Adjustment Screw	Wrench	Axial Screwdriver	Plate	Clamp Bolt	Wrench
													
PSKNR 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
PSSNR 16CA12													
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	LW-6
20CA22	LL-2N	LS-2N	LT-42N	LSP-2	PC-2	LW-3		HS5X5	AJM6		LW-2.5	SM0820B SM1020B	
PTGNR 16CA16	LL-1N	LS-1N	LT-32N	LSP-1	PC-1	FH-2.5					AJM5F		
PTTNR 16CA16													

Note) Plate includes a set of two pieces for each toolholder.



## Top Clamp (Right-hand Shown)



### Toolholder Dimensions

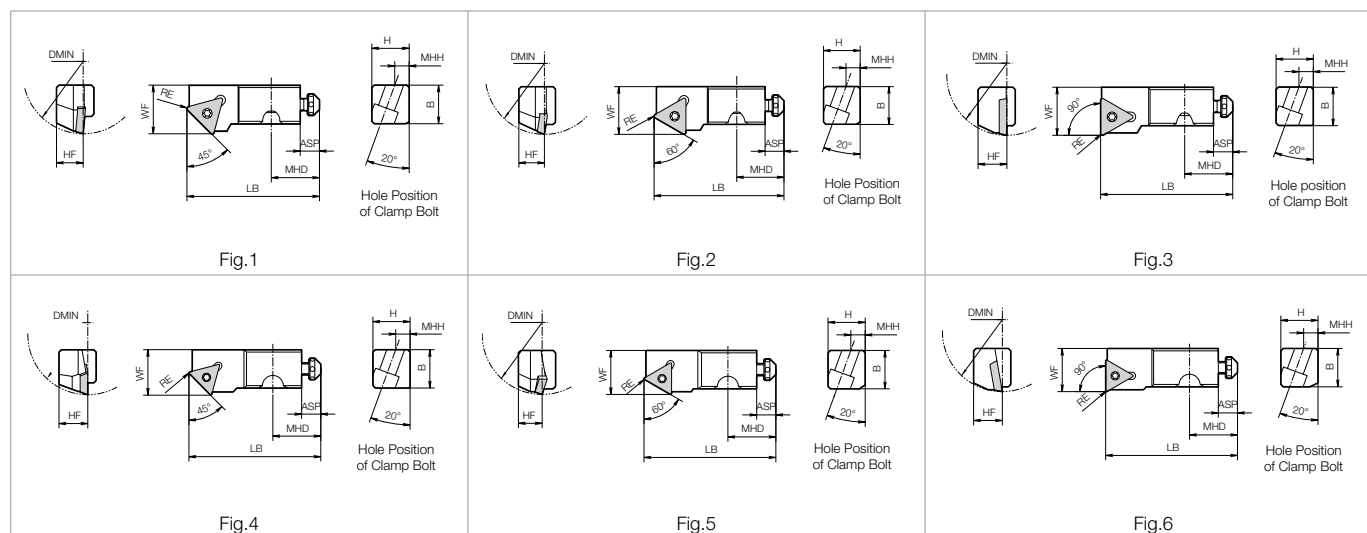
Part Number	Stock	Dimensions (mm)								Standard Corner-R (RE)	Min. Bore Dia. DMIN (mm)	Drawing	Applicable Inserts	Applicable Inserts Ref. Page
		H	B	LB	MHD	ASP	MHH	HF	WF					
CTDPR 10CA11	□	12.5	11	50	20	8	5	10	7	0.4	38	Fig.1	22..	<b>B87</b> <b>B88</b> <b>B115</b> <b>C18</b> <b>C29</b>
12CA16	□	15.5	16	55			6	12	10	0.8	50		32..	
CTEPR 10CA11	□	12.5	11	50			5	10	9	0.4	38	Fig.2	22..	
12CA16	□	15.5	16	55			6	12	13	0.8	50		32..	
CTFPR 10CA11	□	12.5	11	50			5	10	14	0.4	38	Fig.3	22..	
12CA16	□	15.5	16	55			6	12	20	0.8	50		32..	

### Spare Parts

Part Number	Clamp Set	Wrench	Radial Adjustment Screw	Axial Adjustment Screw	Wrench	Axial Screwdriver	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	HS5X5		LW-2.5		SM0812A SM1012A	HH6X20	
CTEPR 10CA11	CPS-4V	FT-10	HS4X4		LW-2		SM0810A SM1010A	HH6X16	
12CA16	CPS-5V	FT-15	HS5X5		LW-2.5		SM0810A SM1010A	HH6X20	
CTFPR 10CA11	CPS-4V	FT-10	HS4X4		LW-2		SM0810A SM1010A	HH6X16	
12CA16	CPS-5V	FT-15	HS5X5		LW-2.5		SM0812A SM1012A	HH6X20	

Note) Plate includes a set of two pieces for each toolholder.

## Screw Clamp (Right-hand Shown)



## Toolholder Dimensions

Part Number	Stock	Dimensions (mm)								Standard Corner-R (RE)	Min. Bore Dia. DMIN (mm)	Drawing	Applicable Inserts	Applicable Inserts Ref. Page	
		H	B	LB	MHD	ASP	MHH	HF	WF						
STDPR 10CA11	☐	12.5	11	50	20	8	5	10	7	0.4	38	Fig.1	TP□H TP□T TPGB	22..	B80 ~ B86 C16 C26 ~ C28
12CA16	☐	15.5	16	55			6	12	10	0.8	50			32..	
STEPR 10CA11	☐	12.5	11	50			5	10	9	0.4	38	Fig.2		22..	
12CA16	☐	15.5	16	55			6	12	13	0.8	50			32..	
STFPR 10CA11	☐	12.5	11	50			5	10	14	0.4	38	Fig.3		22..	
12CA16	☐	15.5	16	55			6	12	20	0.8	50			32..	
STDER 12CA13	☐	15.5	16	55	20	8	6	12	10	0.4	50	Fig.4	TEGW 252..	-	
STEER 12CA13	☐								12			Fig.5			
STFER 12CA13	☐								18			Fig.6			

## Spare Parts

Part Number	Clamp Set	Wrench	Radial Adjustment Screw	Axial Adjustment Screw	Wrench	Axial Screwdriver	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) Plate includes a set of two pieces for each toolholder.