

Quick Change Tooling

N

Polygon Taper Shank (KPC Series)		N2~N17
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PSC Shank Tools

Polygon Taper Shank

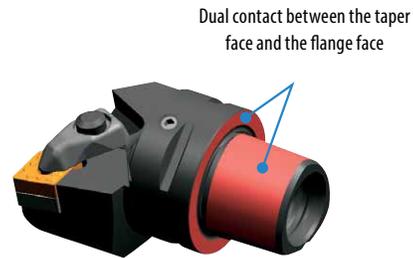
PSC Shank Tools

JIS B 6066-1

ISO26623-1 Polygonal taper interface with flange contact surface

1 High Rigidity

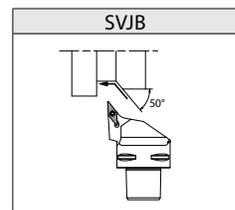
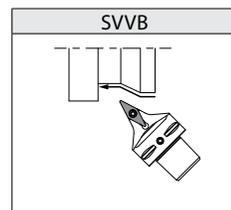
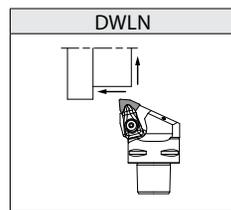
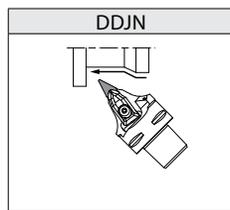
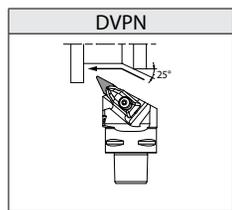
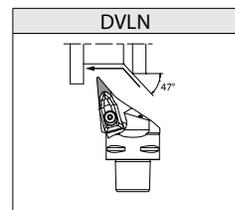
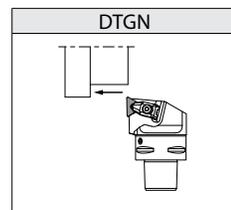
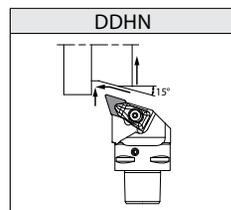
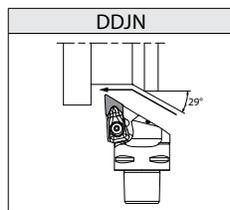
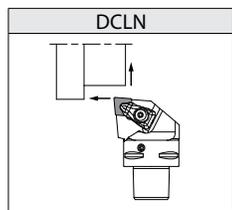
Polygon taper design and dual contact between the taper and the flange face for high rigidity



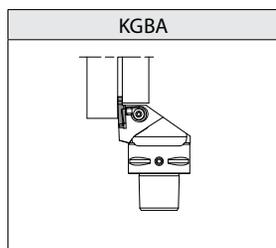
2 High Precision

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

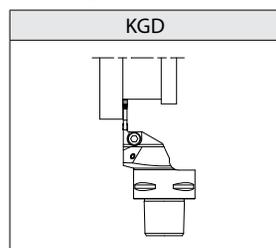
Distributes cutting forces evenly between 3 faces for enhanced rigidity and centering accuracy



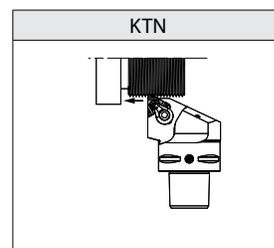
Grooving



Grooving / Cut-off

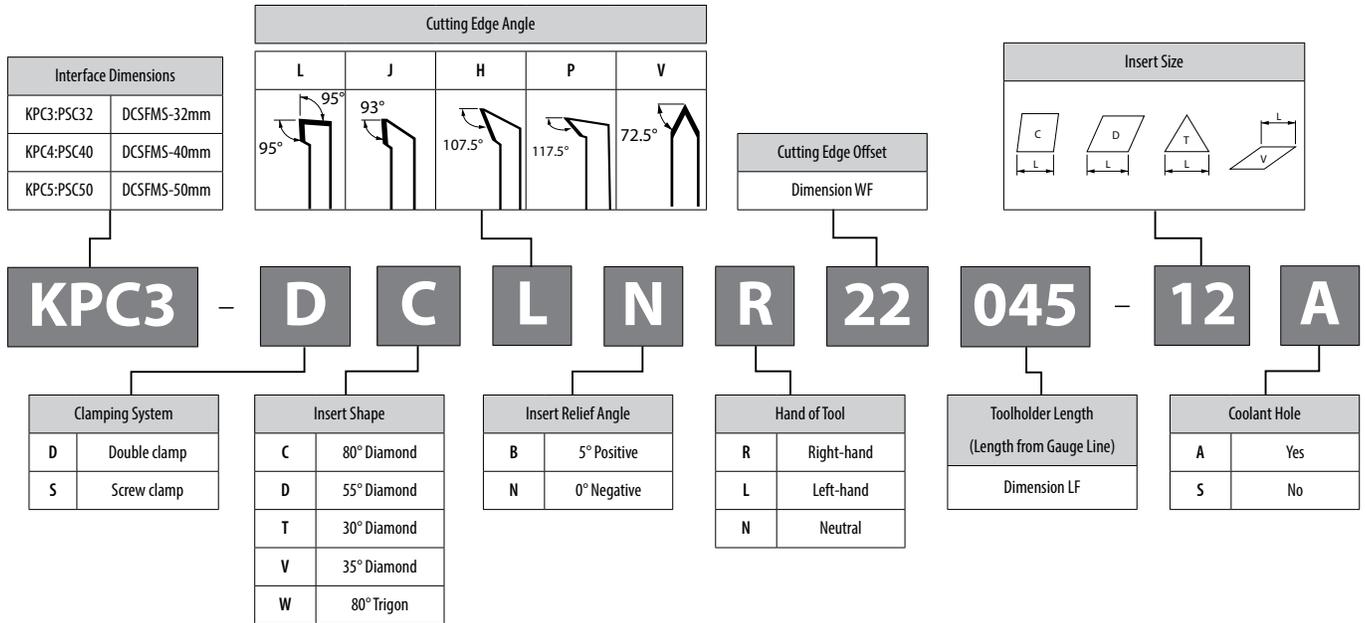


Threading



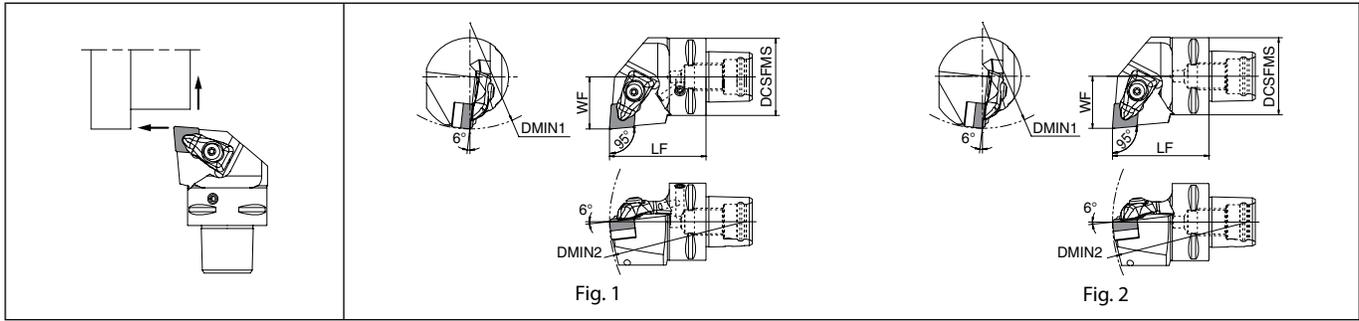
N QUICK CHANGE TOOLING

Identification System (for External Holders)



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
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
TECHNICAL	R
INDEX	T

DCLN (External Turning)



Right-hand shown

Toolholder Dimensions

Unit	Part Number	Std. Item		Coolant Hole	Dimensions					Standard Corner-R(RE)	Side Rake Angle (°)	Inclination Angle (°)	Fig.	Applicable Inserts
		R	L		DCSFMS	LF	WF	DMIN1	DMIN2					
		mm												
	KPC3-DCLN% 22045-12A	●	●	Yes	32	45	22	60	121	0.8	-6	-6	1	CN□A43... CN□G43... CN□M43...
	KPC4-DCLN% 27050-12A	●	●		40	50	27	110	140					
	KPC5-DCLN% 35060-12A	●	●		50	60	35	110	165					
	KPC3-DCLN% 22045-12S	●	●	No	32	45	22	60	121	0.8	-6	-6	2	
	KPC4-DCLN% 27050-12S	●	●		40	50	27	110	140					
	KPC5-DCLN% 35060-12S	●	●		50	60	35	110	165					

Part Number	Spare Parts									
	Clamp	Screw (for clamp)	Spring	Shim	Shim*	Shim	Shim*	Shim Screw	Shim Screw	Wrench
KPC3-DCLN% 22045-12A	CP-3D-S	CS-3D-TR	SP-3D	-	-	SP-441P	SP-441P-C	-	M3X8	FT-15
KPC4-DCLN% 27050-12A				DC-44	DC-44-C	-	-	SB-4085TR	-	
KPC5-DCLN% 35060-12A				-	-	SP-441P	SP-441P-C	-	M3X8	
KPC3-DCLN% 22045-12S	CP-3D-S	CS-3D-TR	SP-3D	-	-	SP-441P	SP-441P-C	-	M3X8	FT-15
KPC4-DCLN% 27050-12S				DC-44	DC-44-C	-	-	SB-4085TR	-	
KPC5-DCLN% 35060-12S				DC-44	DC-44-C	-	-	SB-4085TR	-	

Pressure Resistance : up to 1,015 psi

When using inserts with a corner-R (RE) greater than 3/64" (1.2 mm), additional modifications to the shim are necessary in order to prevent workpiece and shim from interfering with each other.

When using inserts with SX chipbreaker, use shim (-C type) sold separately.

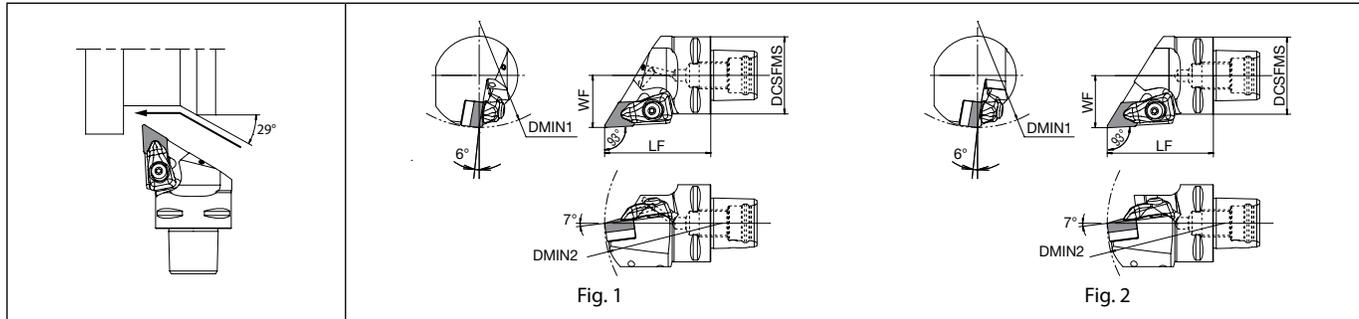
Recommended Tightening Torque : 3.9N·m

Applicable Inserts

Applications	Finishing	Finishing	Finishing - Medium	Finishing - Medium	Finishing	Finishing	Finishing - Medium	Finishing - Medium
Insert								
Chipbreaker	WF	WP	WE	WQ	PP	GP	PQ	HQ
Page	B16	B16	B16	B16	B16	B16	B16	B17
Applications	Finishing - Medium	Finishing - Medium	Medium	Medium - Roughing	Medium - Roughing	Medium - Roughing	Medium - Roughing	Medium - Roughing
Insert								
Chipbreaker	CQ	CJ	TN-V	PMG	GS	PG	PS	PT
Page	B17	B17	B17	B17	B17	B17	B18	B18
Applications	Medium - Roughing	Roughing	Roughing	Roughing	Medium	Medium - Roughing	Medium - Roughing	Low Carbon Steel
Insert								
Chipbreaker	GT	Standard	PH	PX	R/L	R/L-25R	Z	XF
Page	B18	B18	B18	B19	B23	B23	B23	B19
Applications	Low Carbon Steel	Low Carbon Steel	Low Carbon Steel	Finishing - Medium	Medium - Roughing	Stainless Steel / Heat-Resistant Alloys	Stainless Steel / Heat-Resistant Alloys	Stainless Steel / Heat-Resistant Alloys
Insert								
Chipbreaker	XP	XQ	XS	SK	FP-TK	TK	MQ	MS
Page	B19	B19	B19	B19	B19	B20	B20	B20
Applications	Stainless Steel / Heat-Resistant Alloys	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron
Insert								
Chipbreaker	MU	KQ	KG	KH	C	ZS	GC	No Chipbreaker
Page	B20	B21	B21	B21	B22	B22	B22	B22
Applications	Cast Iron / Hard Materials	Non-Ferrous Metals	Non-Ferrous Metals	Non-Ferrous Metals	Heat-Resistant Alloys	Heat-Resistant Alloys	Heat-Resistant Alloys	Hard Materials / Cast Iron
Insert								
Chipbreaker	Ceramic	R/L-A3	AH	PCD	SQ	SG	R/L-SX	CBN
Page	B113	B23	B23	C34	B20	B21	B21	C8
Applications	Hard Materials	Hard Materials	Hard Materials					
Insert								
Chipbreaker	HH	HL	HD					
Page	C9	C9	C9					

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

DDJN (External Turning / External Copying)



Right-hand shown

Toolholder Dimensions

Unit	Part Number	Std. Item		Coolant Hole	Dimensions					Standard Corner-R(RE)	Side Rake Angle (°)	Inclination Angle (°)	Fig.	Spare Parts						Applicable Inserts
		R	L		DCSFMS	LF	WF	DMIN1	DMIN2					Clamp	Screw (for clamp)	Spring	Shim	Screw	Wrench	
mm	KPC3-DDJN% 22050-15A	●	●	Yes	32	50	22	121	0.8	-6	-7	1	CP-3D-S	CS-3D-TR	SP-3D	DD-44 (DD-43*)	SB-4085TRP	FT-15	DN□A43... DN□G43... DN□M43...	
	KPC4-DDJN% 27055-15A	●	●		40	55	27	110												145
	KPC5-DDJN% 35060-15A	●	●		50	60	35													165
	KPC3-DDJN% 22050-15S	●	●	No	32	50	22	121	0.8	-6	-7	2	CP-3D-S	CS-3D-TR	SP-3D	DD-44 (DD-43*)	SB-4085TRP	FT-15	DN□A43... DN□G43... DN□M43...	
	KPC4-DDJN% 27055-15S	●	●		40	55	27	110												145
	KPC5-DDJN% 35060-15S	●	●		50	60	35													165

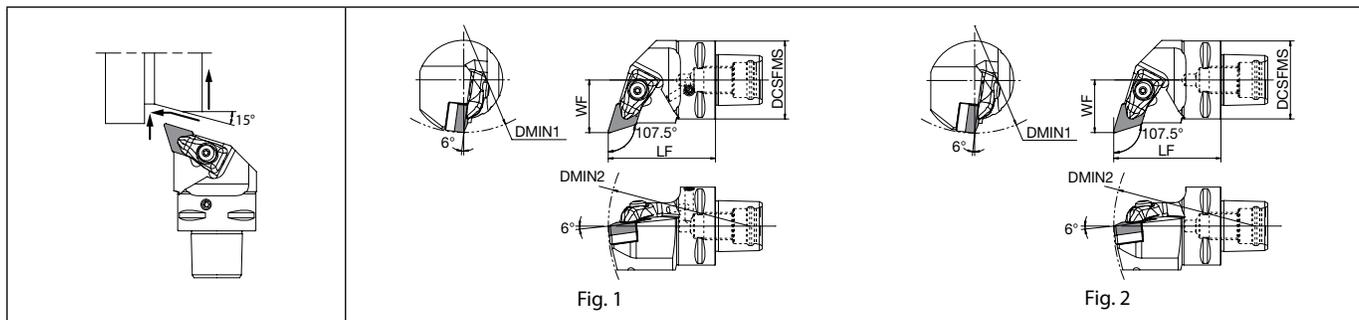
Pressure Resistance : up to 1,015 psi

When using inserts with a corner-R (RE) greater than 3/64" (1.2 mm), additional modifications to the shim are necessary in order to prevent workpiece and shim from interfering with each other.

Shims indicated with * must be purchased separately for thicker inserts

Recommended Tightening Torque : 3.9 N·m

DDHN (External Turning / External Facing / External Copying)



Right-hand shown

Toolholder Dimensions

Unit	Part Number	Std. Item		Coolant Hole	Dimensions					Standard Corner-R(RE)	Side Rake Angle (°)	Inclination Angle (°)	Fig.	Spare Parts						Applicable Inserts
		R	L		DCSFMS	LF	WF	DMIN1	DMIN2					Clamp	Screw (for clamp)	Spring	Shim	Screw	Wrench	
mm	KPC3-DDHN% 22050-15A	●	●	Yes	32	50	22	121	0.8	-6	-6	1	CP-3D-S	CS-3D-TR	SP-3D	DD-44 (DD-43*)	SB-4085TRP	FT-15	DN□A43... DN□G43... DN□M43...	
	KPC4-DDHN% 27055-15A	●	●		40	55	27	110												145
	KPC5-DDHN% 35060-15A	●	●		50	60	35													165
	KPC3-DDHN% 22050-15S	●	●	No	32	50	22	121	0.8	-6	-6	2	CP-3D-S	CS-3D-TR	SP-3D	DD-44 (DD-43*)	SB-4085TRP	FT-15	DN□A43... DN□G43... DN□M43...	
	KPC4-DDHN% 27055-15S	●	●		40	55	27	110												145
	KPC5-DDHN% 35060-15S	●	●		50	60	35													165

Pressure Resistance : up to 1,015 psi

When using inserts with a corner-R (RE) greater than 3/64" (1.2 mm), additional modifications to the shim are necessary in order to prevent workpiece and shim from interfering with each other.

Shims indicated with * must be purchased separately for thicker inserts

Recommended Tightening Torque : 3.9 N·m

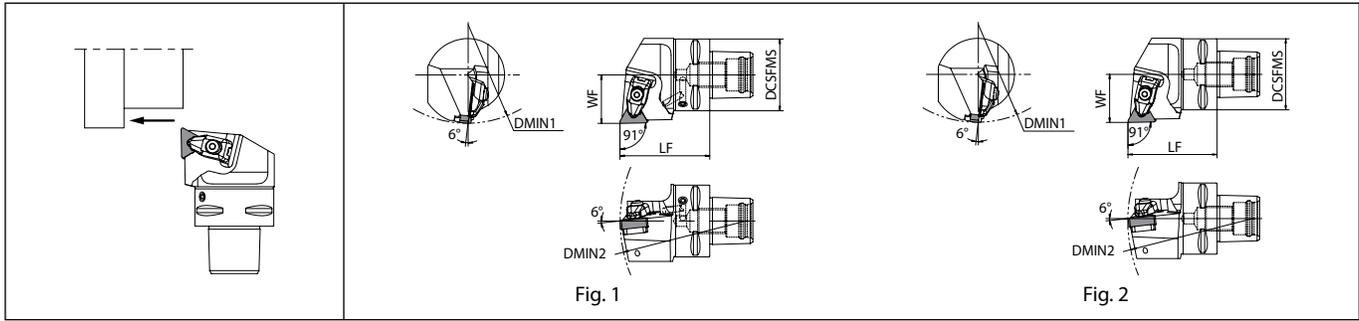
Applicable Inserts

Applications	Finishing	Finishing	Finishing - Medium	Finishing - Medium	Finishing - Medium	Finishing - Medium	Medium	Medium - Roughing
Insert								
Chipbreaker	PP	GP	PQ	HQ	CQ	CJ	TN-V	PMG
Page	B24	B24	B24	B25	B25	B25	B25	B25
Applications	Medium - Roughing	Medium - Roughing	Medium - Roughing	Medium - Roughing	Medium - Roughing	Roughing	Roughing	Roughing
Insert								
Chipbreaker	GS	PG	PS	PT	GT	Standard	PH	PX
Page	B25	B26	B26	B26	B26	B27	B27	B27
Applications	Medium	Low Carbon Steel	Low Carbon Steel	Low Carbon Steel	Low Carbon Steel	Finishing - Medium	Large ap	Medium - Roughing
Insert								
Chipbreaker	R/L	XF	XP	XQ	XS	SK	R-LD	FP-TK
Page	B32	B27	B27	B27	B27	B28	B28	B28
Applications	Stainless Steel / Heat-Resistant Alloys	Cast Iron	Cast Iron	Cast Iron	Cast Iron			
Insert								
Chipbreaker	TK	MQ	MS	MU	KQ	KG	KH	C
Page	B28	B28	B29	B29	B30	B30	B30	B30
Applications	Cast Iron	Cast Iron	Cast Iron	Cast Iron / Hard Materials	Non-Ferrous Metals	Non-Ferrous Metals	Non-Ferrous Metals	Heat-Resistant Alloys
Insert								
Chipbreaker	ZS	GC	No Chipbreaker	Ceramic	%-A3	AH	PCD	SQ
Page	B30	B30	B31	B114	B31	B31	C35	B29
Applications	Heat-Resistant Alloys	Hard Materials / Cast Iron	Hard Materials	Hard Materials	Hard Materials			
Insert								
Chipbreaker	SG	CBN	HH	HL	HD			
Page	B29	C10	C11	C11	C11			

- 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**
- DRILLING **K**
- MILLING **M**
- QUICK CHANGE TOOLING **N**
- SPARE PARTS **P**
- TECHNICAL **R**
- INDEX **T**

● : Standard Item □ : Made to Order △ : Phaseout Item (will be removed from next catalog)
 Contact your local Kyocera sales engineer to upgrade old products to new technology

DTGN (External Turning)



Right-hand shown

Toolholder Dimensions

Unit	Part Number	Std. Item		Coolant Hole	Dimensions					Standard Corner-R(RE)	Side Rake Angle (°)	Inclination Angle (°)	Fig.	Applicable Inserts	
		R	L		DCSFMS	LF	WF	DMIN1	DMIN2						
mm	KPC3-DTGN% 22040-16A	●	●	Yes	32	40	22	110	116	0.8	-6	-6	1	TN□A33... TN□G33... TN□M33...	
	KPC4-DTGN% 27050-16A	●	●		40	50	27								140
	KPC5-DTGN% 35060-16A	●	●		50	60	35								165
	KPC3-DTGN% 22040-16S	●	●	No	32	40	22	110	116						
	KPC4-DTGN% 27050-16S	●	●		40	50	27								140
	KPC5-DTGN% 35060-16S	●	●		50	60	35								165

Part Number	Spare Parts						
	Clamp	Screw (for clamp)	Spring	Wrench (for clamp)	Shim	Screw	Wrench (for shim / sold separately)
KPC3-DTGN% 22040-16A							
KPC4-DTGN% 27050-16A							
KPC5-DTGN% 35060-16A							
KPC3-DTGN% 22040-16S	CP-2D	CS-2D	SP-2D	LW-2.5	DT-32	SB-3080TR	FT-10
KPC4-DTGN% 27050-16S							
KPC5-DTGN% 35060-16S							

Pressure Resistance : up to 1,015 psi

When using inserts with a corner-R (RE) greater than 1/16" (1.6 mm), additional modifications to the shim are necessary in order to prevent workpiece and shim from interfering with each other.

Recommended Tightening Torque : 1.7 N·m

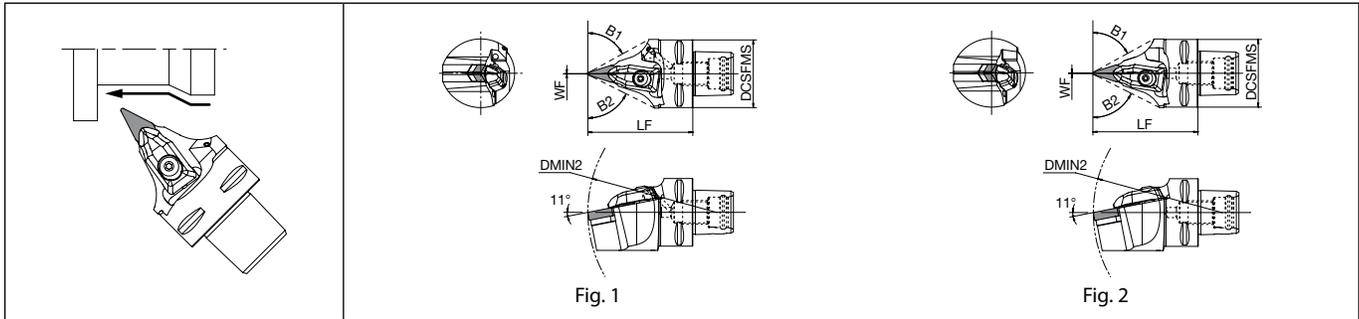
N QUICK CHANGE TOOLING

Applicable Inserts

Applications	Finishing	Finishing	Finishing - Medium	Finishing - Medium	Finishing - Medium	Medium - Roughing	Medium - Roughing	Medium - Roughing
Insert								
Chipbreaker	PP	GP	PQ	HQ	CQ	PMG	GS	PG
Page	B39	B39	B39	B39	B39	B40	B40	B40
Applications	Medium - Roughing	Medium - Roughing	Medium - Roughing	Roughing	Roughing	Roughing	Finishing	Finishing
Insert								
Chipbreaker	PS	PT	GT	Standard	PH	PX	P/L-SSF	P/L-S
Page	B40	B40	B40	B40	B41	B41	B45	B45
Applications	Finishing - Medium	Medium - Roughing	Medium - Roughing	Low Carbon Steel	Low Carbon Steel	Low Carbon Steel	Low Carbon Steel	Finishing - Medium
Insert								
Chipbreaker	P/L-B	P/L-C	P/L-25R	XF	XP	XQ	XS	SK
Page	B45	B46	B46	B41	B41	B41	B41	B42
Applications	Large ap	Medium - Roughing	Stainless Steel / Heat-Resistant Alloys	Stainless Steel / Heat-Resistant Alloys	Stainless Steel / Heat-Resistant Alloys	Stainless Steel / Heat-Resistant Alloys	Stainless steel	Cast Iron
Insert								
Chipbreaker	R-LD	FP-TK	TK	MQ	MS	MU	P/L-ST	KQ
Page	B42	B42	B42	B42	B42	B42	B43	B43
Applications	Cast Iron	Cast Iron	Cast Iron / Hard Materials	Non-Ferrous Metals				
Insert								
Chipbreaker	KG	KH	C	ZS	GC	No Chipbreaker	Ceramic	P/L-A3
Page	B43	B43	B43	B43	B43	B44	B118	B44
Applications	Non-Ferrous Metals	Non-Ferrous Metals	Heat-Resistant Alloys	Hard Materials / Cast Iron				
Insert								
Chipbreaker	AH	PCD	SG	CBN				
Page	B44	C36	B43	C13				

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
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
TECHNICAL	R
INDEX	T

DVNN (External Copying)



Right-hand shown

Toolholder Dimensions

Unit	Part Number	Std. Item	Coolant Hole	Dimensions						Angle (°)		Standard Corner-R(RE)	Fig.	Spare Parts						Applicable Inserts
				DCSFMS	LF	WF	DMIN2	B1	B2	Clamp	Screw (for clamp)			Screw	Shim	Spring	Wrench			
mm	KPC4-DVVNN 00062-16A	●	Yes	40	62	0	152	61	63	0.8	1	CP-5D-S	CS-3D-TR	SB-4085TR	DV-33	SP-3D	FT-15	VN□A33... VN□G33... VN□M33...		
	KPC5-DVVNN 00065-16A	●		50	65	0	170	59	59											
	KPC3-DVVNN 00058-16S	●	No	32	58	0	140	68	68	0.8	2	CP-5D-S	CS-3D-TR	SB-4085TR	DV-33	SP-3D	FT-15			
	KPC4-DVVNN 00062-16S	●		40	62	0	152	61	63											
	KPC5-DVVNN 00065-16S	●		50	65	0	170	59	59											

Pressure Resistance : up to 1,015 psi

When using inserts with a corner-R (RE) greater than 3/64" (1.2 mm), additional modifications to the shim are necessary in order to prevent workpiece and shim from interfering with each other.

Recommended Tightening Torque : 3.9 N-m

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

Applicable Inserts

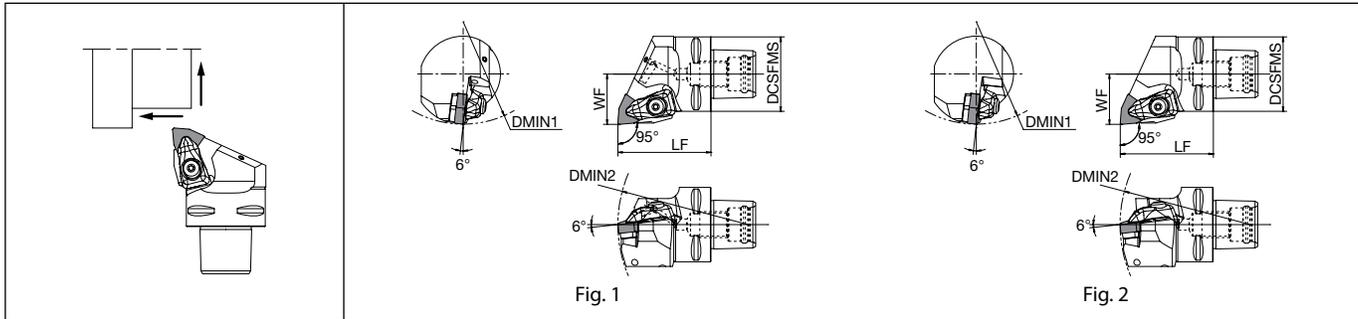
Applications	Finishing	Finishing	Finishing - Medium	Finishing - Medium	Finishing - Medium	Finishing - Medium	Medium	Roughing
Insert								
Chipbreaker	PP	GP	RVC	VF	PQ	HQ	TN-V	Standard
Page	B47	B47	B47	B47	B47	B47	B47	B47
Applications	Finishing - Medium	Finishing	Medium	Stainless Steel / Heat-Resistant Alloys	Stainless Steel / Heat-Resistant Alloys	Stainless Steel / Heat-Resistant Alloys	Cast Iron	Cast Iron
Insert								
Chipbreaker	SK	RS	R/L	MQ	MS	MU	KG	KH
Page	B48	B49	B49	B48	B48	B48	B48	B48
Applications	Cast Iron	Cast Iron / Hard Materials	Non-Ferrous Metals	Heat-Resistant Alloys	Hard Materials / Cast Iron			
Insert								
Chipbreaker	No Chipbreaker	Ceramic	PCD	SG	CBN			
Page	B49	B119	C37	B48	C14			

● : Standard Item □ : Made to Order △ : Phaseout Item (will be removed from next catalog)

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

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
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
TECHNICAL	R
INDEX	T

DWLN (External Turning / External Facing)



Right-hand shown

Toolholder Dimensions

Unit	Part Number	Std. Item		Coolant Hole	Dimensions				Standard Corner (R) (RE)	Side Rake Angle (°)	Inclination Angle (°)	Fig.	Spare Parts						Applicable Inserts	
		R	L		DCSFMS	LF	WF	DMIN1					DMIN2	Clamp	Screw (for clamp)	Spring	Shim	Screw		Wrench
mm	KPC3-DWLN% 22047-08A	●	●		32	47	22	121											WN□A43... WN□G43... WN□M43...	
	KPC4-DWLN% 27050-08A	●	●	Yes	40	50	27	110	140	0.8	-6	-6	1	CP-3D-S	CS-3D-TR	SP-3D	DW-42	SB-4085TR	FT-15	
	KPC5-DWLN% 35060-08A	●	●		50	60	35		165											
	KPC3-DWLN% 22047-08S	●	●		32	47	22		121											
	KPC4-DWLN% 27050-08S	●	●	No	40	50	27	110	140	0.8	-6	-6	2	CP-3D-S	CS-3D-TR	SP-3D	DW-42	SB-4085TR	FT-15	
	KPC5-DWLN% 35060-08S	●	●		50	60	35		165											

Pressure Resistance : up to 1,015 psi
Recommended Tightening Torque : 3.9 N·m

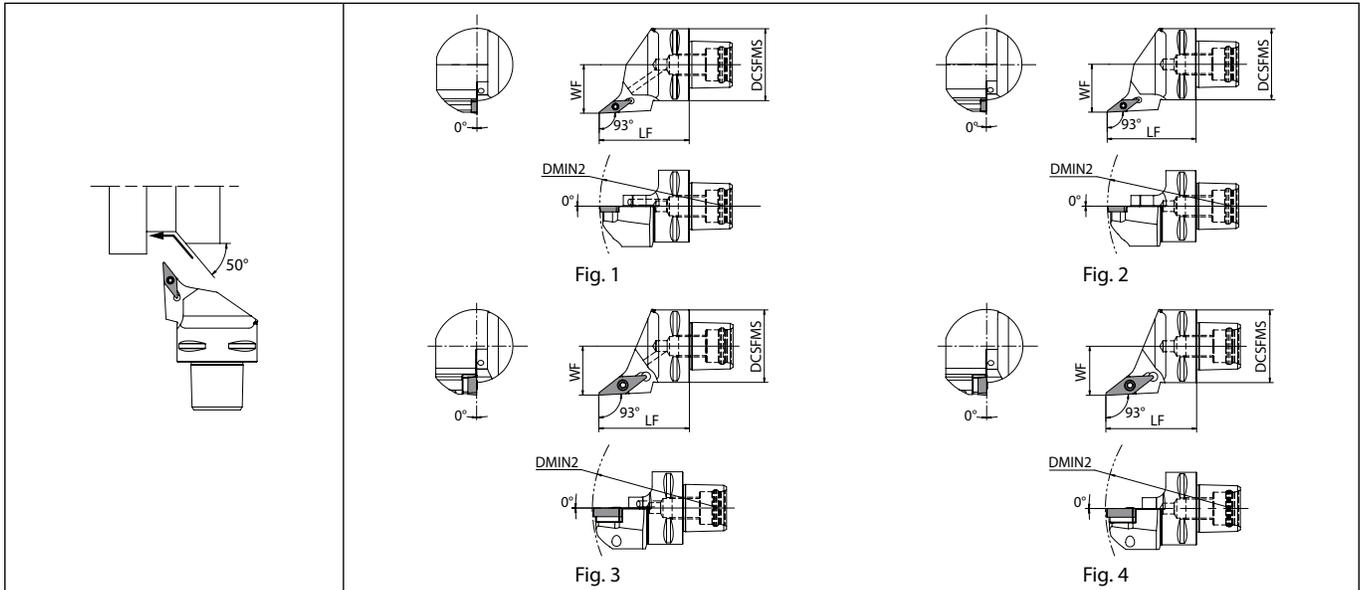
Applicable Inserts

Applications	Finishing	Finishing	Finishing - Medium	Finishing - Medium	Finishing	Finishing	Finishing - Medium	Finishing - Medium
Insert								
Chipbreaker	WF	WP	WE	WQ	PP	GP	PQ	HQ
Page	B50	B50	B50	B50	B50	B50	B50	B51
Applications	Finishing - Medium	Finishing - Medium	Medium - Roughing	Medium - Roughing	Medium - Roughing	Medium - Roughing	Medium - Roughing	Medium - Roughing
Insert								
Chipbreaker	CQ	CJ	PMG	GS	PG	PS	PT	GT
Page	B51	B51	B51	B51	B51	B51	B51	B52
Applications	Roughing	Roughing	Low Carbon Steel	Low Carbon Steel	Low Carbon Steel	Stainless steel / Heat-Resistant Alloys	Stainless Steel / Heat-Resistant Alloys	Stainless Steel / Heat-Resistant Alloys
Insert								
Chipbreaker	Standard	PH	XP	XQ	XS	TK	MQ	MS
Page	B52	B52	B52	B52	B52	B52	B53	B53
Applications	Stainless Steel / Heat-Resistant Alloys	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron
Insert								
Chipbreaker	MU	KQ	KG	KH	C	ZS	GC	No Chipbreaker
Page	B53	B53	B53	B53	B54	B54	B54	B54
Applications	Non-Ferrous Metals	Non-Ferrous Metals	Heat-Resistant Alloys	Hard Materials / Cast Iron				
Insert								
Chipbreaker	AH	PCD	SG	CBN				
Page	B54	C38	B53	C15				

● : Standard Item □ : Made to Order △ : Phaseout Item (will be removed from next catalog)
Contact your local Kyocera sales engineer to upgrade old products to new technology

QUICK CHANGE TOOLING

SVJB (External Turning / External Copying)



Right-hand shown

Toolholder Dimensions

Unit	Part Number	Std. Item		Coolant Hole	Dimensions				Standard Corner-R(RE)	Fig.	Spare Parts						Applicable Inserts
		R	L		DCSFMS	LF	WF	DMIN2			Screw	Wrench	Wrench	Shim	Shim Screw	Wrench	
mm	KPC3-SVJB% 22040-11A	●	●		32	40	22	116	0.4	1	SB-2570TR	-	FT-8	-	-	-	VB□T22... VB□W22...
	KPC4-SVJB% 27050-11A	●	●	Yes	40	50	27	140									
	KPC5-SVJB% 35060-11A	●	●		50	60	35	165									
	KPC3-SVJB% 22040-11S	●	●		32	40	22	116	0.4	2	SB-2570TR	-	FT-8	-	-	VB□T22... VB□W22...	
	KPC4-SVJB% 27050-11S	●	●	No	40	50	27	140									
	KPC5-SVJB% 35060-11S	●	●		50	60	35	165									
	KPC3-SVJB% 22047-16A	●	●		32	47	22	116	0.8	3	SB-40125TRN	FT-15	-	SVN-32N (SVN-32S*)	SS-4N	LW-4	VB□T33... VB□W33... VC□T33...
	KPC4-SVJB% 27050-16A	●	●	Yes	40	50	27	140									
	KPC5-SVJB% 35060-16A	●	●		50	60	35	165									
	KPC3-SVJB% 22047-16S	●	●		32	47	22	116	0.8	4	SB-40125TRN	FT-15	-	SVN-32N (SVN-32S*)	SS-4N	LW-4	VB□T33... VB□W33... VC□T33...
	KPC4-SVJB% 27050-16S	●	●	No	40	50	27	140									
	KPC5-SVJB% 35060-16S	●	●		50	60	35	165									

Pressure Resistance : up to 1,015 psi

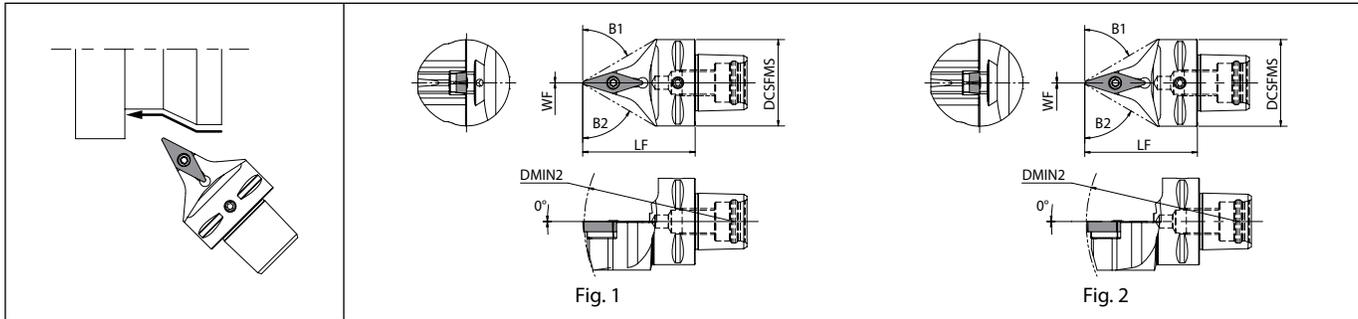
Recommended Tightening Torque is 1.2N·m for VB..22 inserts and 3.5N·m for VB(C)..33 inserts.

When using inserts with a corner-R (RE) greater than 1/32" (0.8 mm), additional modifications to the toolholder are necessary in order to prevent workpiece and shim from interfering with each other.

When using inserts with a corner-R (RE) greater than 3/64" (1.2 mm), additional modifications to the toolholder or shim are necessary in order to prevent workpiece and shim from interfering with each other.

When using inserts with a corner-R (RE) of 0.008" and 1/64" (0.2mm and 0.4mm), shim (SVN-32S*) is recommended (sold separately).

SVVB (External Copying)



Toolholder Dimensions

Unit	Part Number	Std. Item	Coolant Hole	Dimensions						Angle (°)	Standard Corner-R(RE)	Fig.	Spare Parts					Applicable Inserts
				DCSFMS	LF	WF	DMIN2	B1	B2				Screw	Wrench	Shim	Shim Screw	Wrench	
mm	KPC3-SVVB 00048-16A	●	Yes	32	48	0	116	62	62	0.8	1	SB-4012STRN	FT-15	SVN-32N (SVN-32S*)	SS-4N	LW-4	VB□T33... VB□W33... VC□T33...	
	KPC4-SVVB 00052-16A	●		40	52	0	140	59	59									
	KPC5-SVVB 00060-16A	●		50	60	0	165	56	56									
	KPC3-SVVB 00048-16S	●	No	32	48	0	116	62	62	0.8	2	SB-4012STRN	FT-15	SVN-32N (SVN-32S*)	SS-4N	LW-4		
	KPC4-SVVB 00052-16S	●		40	52	0	140	59	59									
	KPC5-SVVB 00060-16S	●		50	60	0	165	56	56									

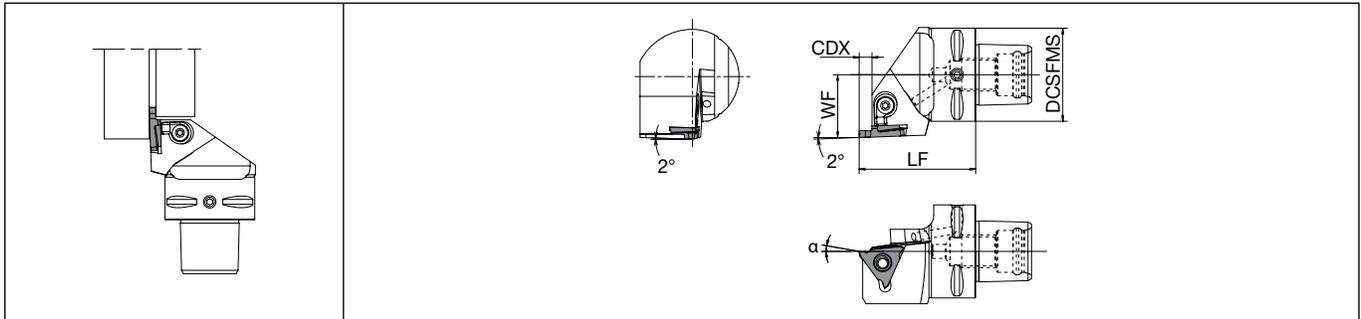
Pressure Resistance : up to 1,015 psi
 When using inserts with a corner-R (RE) of 0.008" and 1/64" (0.2mm and 0.4mm), shim (SVN-32S*) is recommended (sold separately).
 Angle B1 and B2 show the area of interference between the holder and the cutting edge
 Recommended Tightening Torque : 3.5 N·m

Applicable Inserts

Applications	Finishing	Finishing	Finishing	Finishing - Medium	Finishing	Finishing	Finishing - Medium	Non-Ferrous Metals
Insert								
Chipbreaker	PP	GP	VF	HQ	F-F	F-FSF	F-Y	PCD
Page	B97	B97	B97	B97	B98	B98	B99	C49
Applications	Hard Materials							
Insert								
Chipbreaker	CBN							
Page	C26							

QUICK CHANGE TOOLING

KGBA (Shallow Grooving)



Right-hand shown | Right-hand Insert for Right-hand Toolholder, Left-hand Insert for Left-hand Toolholder.

Toolholder Dimensions

Unit	Part Number	Std. Item		Coolant Hole	Dimensions				Spare Parts		Applicable Inserts G6~G12
		R	L		DCSFMS	LF	WF	CDX	Clamp Set	Wrench	
mm	KPC3-KGBA% 22040-16	●	●		32	40	22	2.5	LGBA-16%LS	FT-15	GBA32%...
	KPC4-KGBA% 27050-16	●	●	Yes	40	50	27				
	KPC5-KGBA% 35060-16	●	●		50	60	35				
	KPC3-KGBA% 22040-2215	●	●		32	40	22	4	LGBA-22%LS	FT-15	GBA43%...
	KPC4-KGBA% 27050-2215	●	●	Yes	40	50	27				
	KPC5-KGBA% 35060-2215	●	●		50	60	35				
	KPC3-KGBA% 22040-2225	●	●		32	40	22	5.5	LGBA-22%LS	FT-15	
	KPC4-KGBA% 27050-2225	●	●	Yes	40	50	27				
	KPC5-KGBA% 35060-2225	●	●		50	60	35				
	KPC3-KGBA% 22040-2235	●	●		32	40	22	5.5	LGBA-22%LS	FT-15	
	KPC4-KGBA% 27050-2235	●	●	Yes	40	50	27				
	KPC5-KGBA% 35060-2235	●	●		50	60	35				

Pressure Resistance : up to 1,015 psi

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

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

Rake Angle (α) after Installation of Insert (Ref. table below.)

Rake Angle (α) after Installation of GBA insert

GBA32%L ○○○-○○○		GBA43%L ○○○-○○○		GBA43%L ○○○-○○○R (Full-R)		
α	Insert Grades	α	Insert Grades	α	Insert Grades	Full-R Part Number
10°	TN620, TN90, PV7040 PR2015, PR2025, PR1625, PR1215 KPD001, KPD010	10°	KBNS10, KBNS25	10°	TN620, TN90, PV7040 PR2015, PR2025, PR1625, PR1215	050R~150R
	20°		KW10		14°	TN620, TN90, PV7040 PR2015, PR2025, PR1625, PR1215
				KW10		050R~200R

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

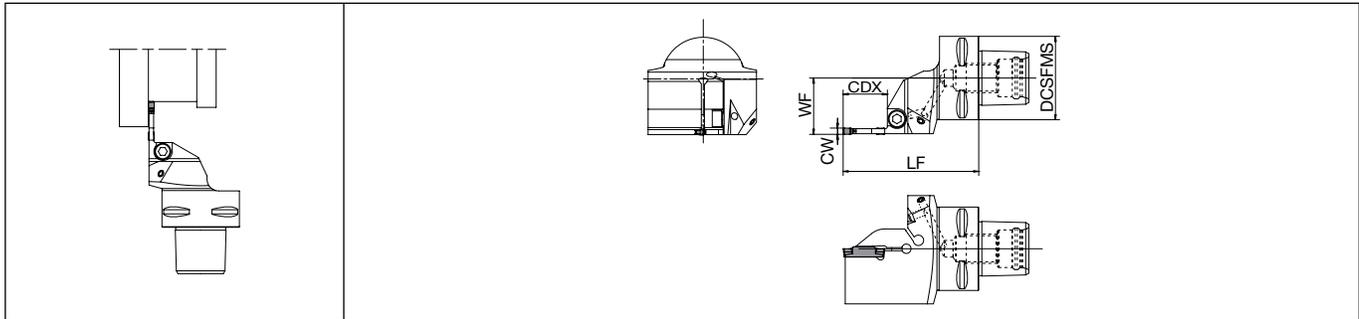
α	Insert Part Number
10°	GBA43%L 150-020GM
15°	GBA43%L 175-020GM
	GBA43%L 265-030GM
12°	GBA43%L 300-030GM
	GBA43%L 400-040GM

α indicates the rake angle at the center of the edge width, after installing insert.

● : Standard Item □ : Made to Order △ : Phaseout Item (will be removed from next catalog)
Contact your local Kyocera sales engineer to upgrade old products to new technology

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
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
TECHNICAL	R
INDEX	T

KGD (External Grooving)



Right-hand shown

Toolholder Dimensions

Unit	Part Number	Std. Item		Coolant Hole	Dimensions						Spare Parts		Applicable Inserts ➔ G30~G33					
		R	L		DCSFMS	LF	WF	CDX	CW min.	CW max.	Clamp bolt	Wrench						
mm	KPC3-KGD 22050-2T10	●	●		32	50	22											
	KPC4-KGD 27055-2T10	●	●	Yes	40	55	27	10						HH5X16	LW-4		GD..2020...	
	KPC5-KGD 35060-2T10	●	●		50	60	35										GD..2220...	
	KPC3-KGD 22055-2T17	●	●		32	55	22										GD..2420...	
	KPC4-KGD 27060-2T17	●	●	Yes	40	60	27	17						HH5X16	LW-4		GD..2520...	
	KPC5-KGD 35060-2T17	●	●		50	60	35										GD..3020...	
	KPC3-KGD 22050-3T10	●	●		32	50	22											
	KPC4-KGD 27055-3T10	●	●	Yes	40	55	27	10							HH5X16	LW-4		GD..3020...
	KPC5-KGD 35060-3T10	●	●		50	60	35											GD..3520...
	KPC3-KGD 22060-3T20	●	●		32	60	22											GD..4020...
	KPC4-KGD 27065-3T20	●	●	Yes	40	65	27	20							HH5X16	LW-4		GD..4020...
	KPC5-KGD 35065-3T20	●	●		50	65	35											GD..5020...
	KPC3-KGD 22050-4T10	●	●		32	50	22											
	KPC4-KGD 27055-4T10	●	●	Yes	40	55	27	10							HH5X16	LW-4		GD..4020...
	KPC5-KGD 35060-4T10	●	●		50	60	35											GD..5020...
	KPC4-KGD 27065-4T20	●	●	Yes	40	65	27	20							HH5X16	LW-4		GD..4020...
	KPC5-KGD 35065-4T20	●	●		50	65	35											GD..5020...
	KPC4-KGD 27070-4T25	●	●	Yes	40	70	27	25							HH5X16	LW-4		
KPC5-KGD 35070-4T25	●	●		50	70	35												
KPC4-KGD 27055-5T10	●	●	Yes	40	55	27	10							HH5X16	LW-4		GD..5020...	
KPC5-KGD 35060-5T10	●	●		50	60	35											GD..6020...	
KPC4-KGD 27060-5T17	●	●	Yes	40	60	27	17							HH5X16	LW-4		GD..6020...	
KPC5-KGD 35060-5T17	●	●		50	60	35												

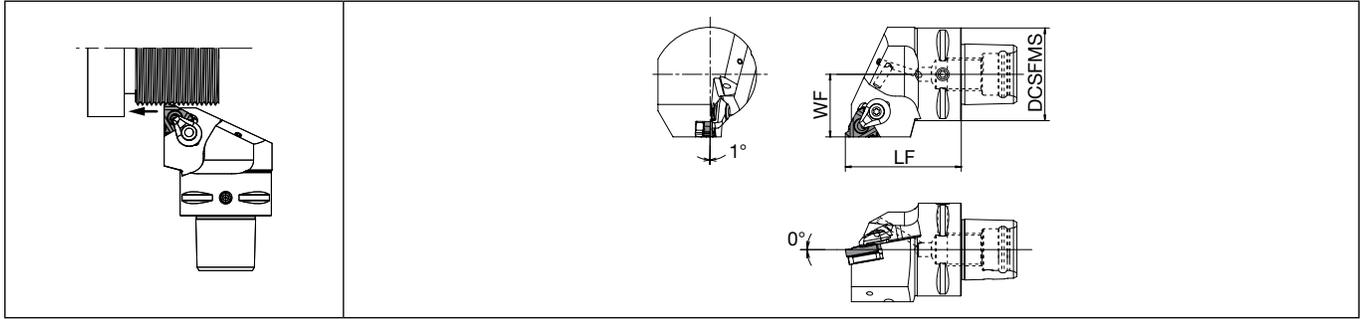
Pressure Resistance : up to 1,015 psi

Recommended Tightening Torque : 6.5 N·m

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

QUICK CHANGE TOOLING

KTN (External Threading)



Right-hand shown | Right-hand Insert for Right-hand Toolholder, Left-hand Insert for Left-hand Toolholder.

Toolholder Dimensions

Unit	Part Number	Std. Item		Coolant Hole	Dimensions			Spare Parts				Applicable Inserts ● J6, J8, J10 ● J12, J14, J16 ● J18, J20	
		R	L		DCSFMS	LF	WF	Clamp set	Shim	Shim Screw	Wrench		
													Yes
mm	KPC3-KTN% 22040-16	●	●		32	40	22						
	KPC4-KTN% 27050-16	●	●	Yes	40	50	27	CPS-5S	TN-32	SP3X8	FT-15	16E% type	
	KPC5-KTN% 35060-16	●	●		50	60	35						

Pressure Resistance : up to 1,015 psi

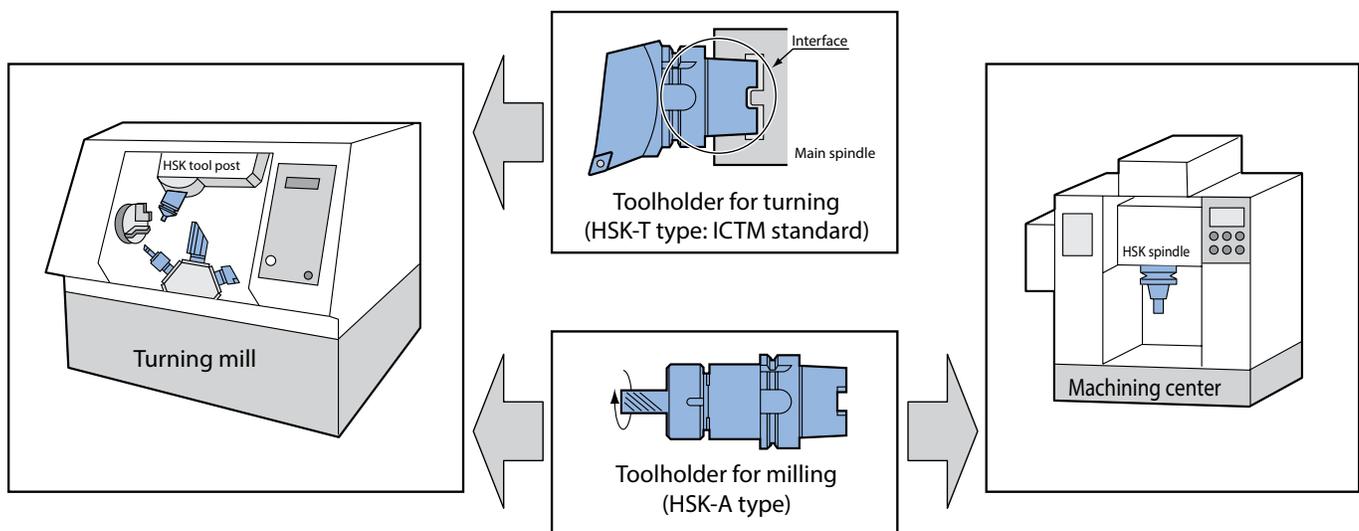
INSERT GRADES	A
TURNING INSERTS	B
CBN/PCD INSERTS	C
TURNING HOLDERS	D
SMALL TOOLS	E
BORING	F
GROOVING	G
CUT-OFF	H
THREADING	J
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
TECHNICAL	R
INDEX	T

Tools for Mill Turn

HSK-T Series

- 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. Part Number is indicated as HSK-○○○.

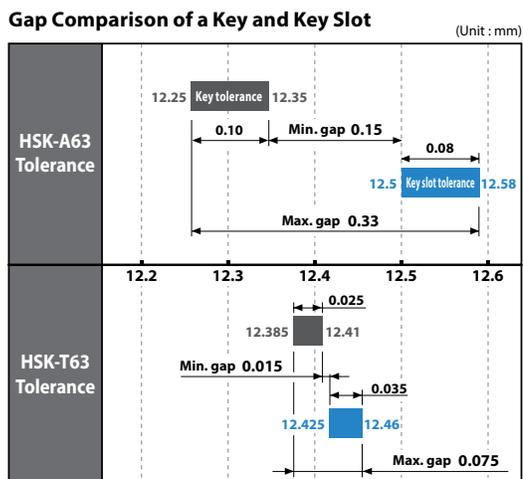
1 Compatible with HSK-A type for Machining Centers



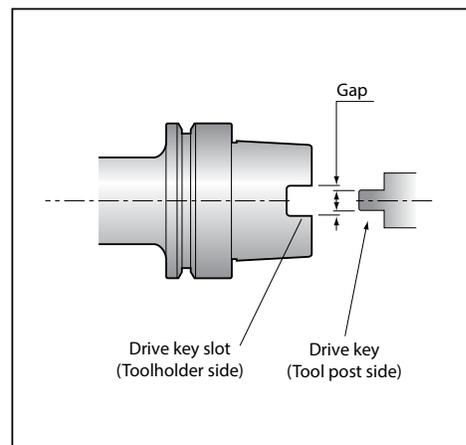
2 Machining Precision

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.

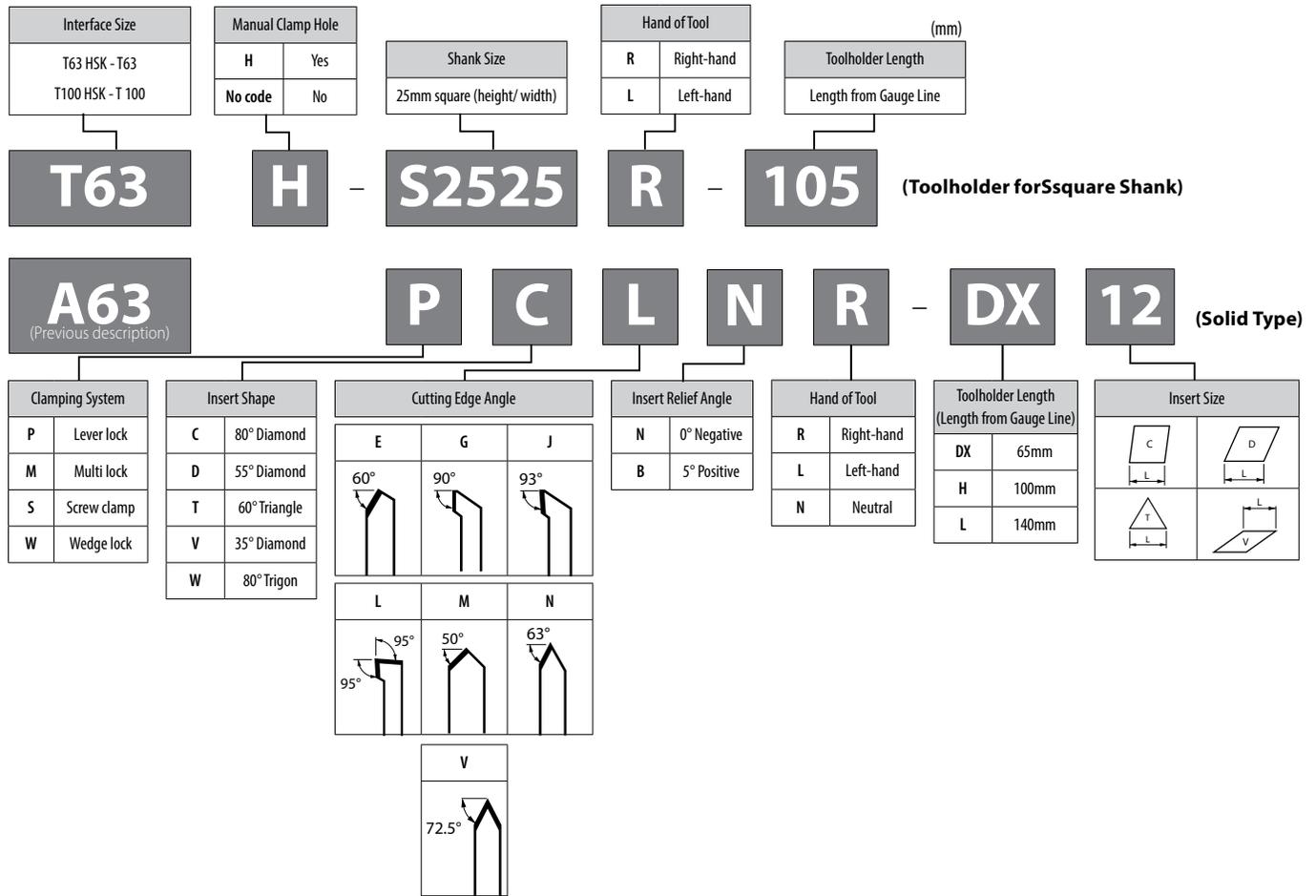
QUICK CHANGE TOOLING



Gap Effect

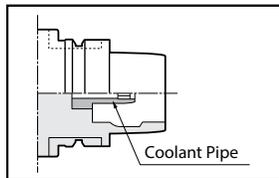


Identification System (External Holders)



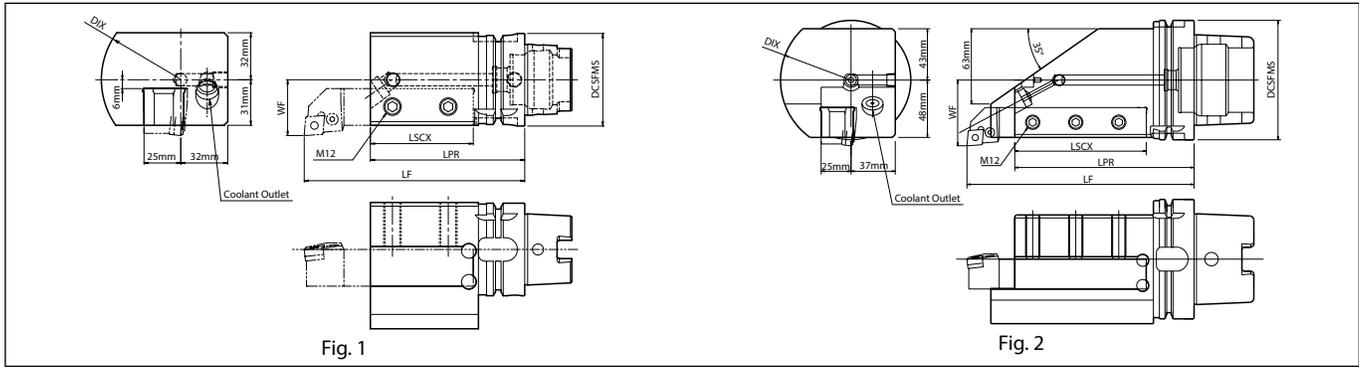
Coolant Pipe

Coolant Pipe is built into toolholder.



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
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
TECHNICAL	R
INDEX	T

Toolholder for Square Shank (External Turning / External Facing)



Right-hand shown

Toolholder Dimensions

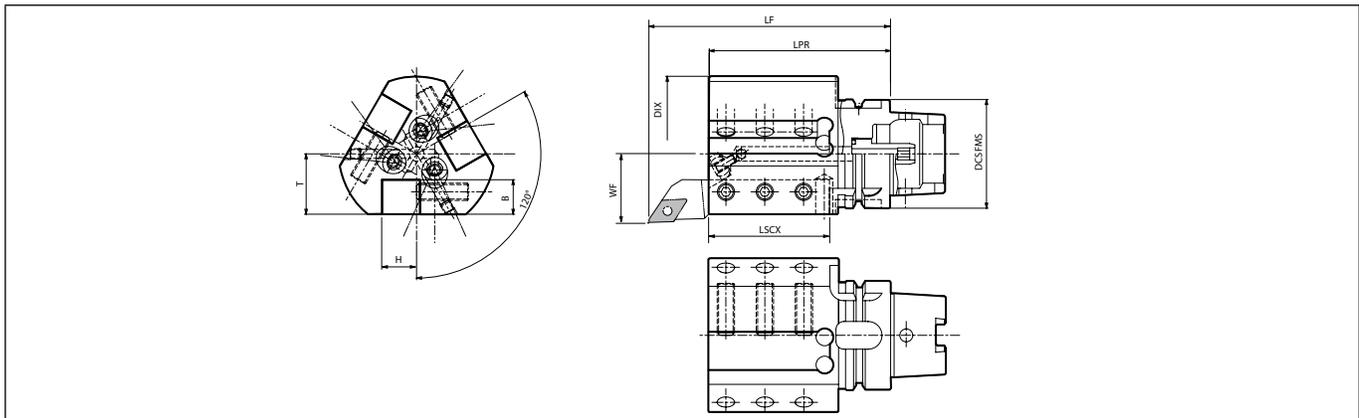
Unit	Part Number	Std. Item		Dimensions						Fig.	Spare Parts		
		R	L	DCSFMS	DIX	LF	LPR	LSCX	WF		Screw	Coolant Pipe	Wrench
		mm	T63H- S2525%L-105	●	●	63	108	150	105		70	38	1
mm	T100H- S2525%L-150	●	●	100	118	190	150	110	55	2			

Coolant outlet direction is adjustable.

For 25mm square shank.

These toolholders are not compatible with Mazak INTEGREX i and j series.

Toolholder for Square Shank (External Turning / External Facing)



Right-hand shown

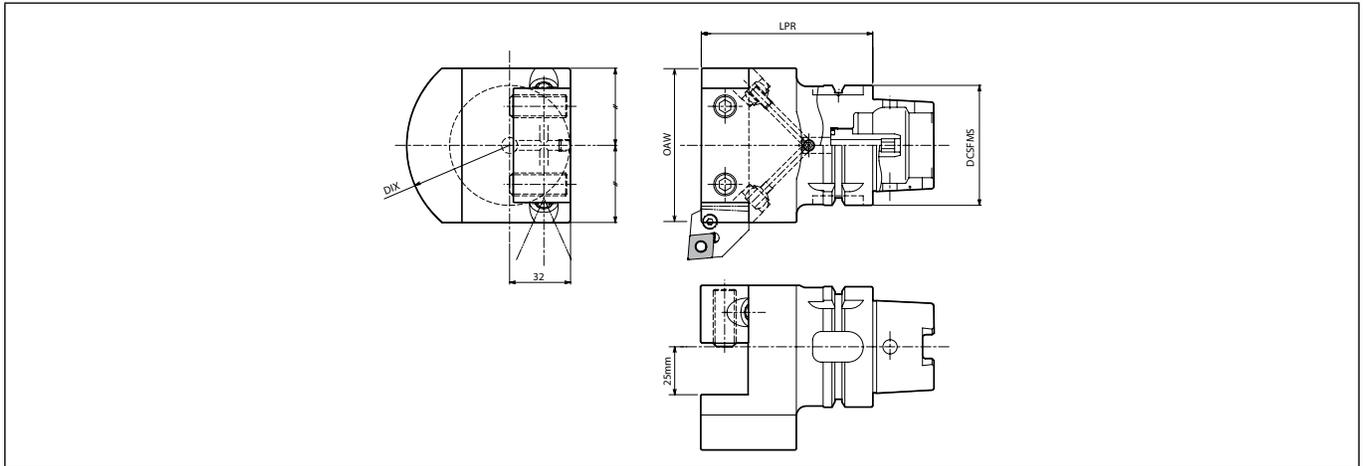
Toolholder Dimensions

Unit	Part Number	Std. Item		Dimensions								Screw	Coolant Pipe	Wrench
		R	DCSFMS	DIX	H	B	T	LF	LPR	LSCX	WF			
		mm	T63H- S2020R-105T	●	63	90	20	20	35	150	105			
mm	T100H- S2525R-150T	●	100	118	25	25	48	190	150	110	55			

Coolant outlet direction is adjustable.

● : Standard Item □ : Made to Order △ : Phaseout Item (will be removed from next catalog)
Contact your local Kyocera sales engineer to upgrade old products to new technology

Toolholder for Square Shank (External Facing / External Turning)



Right-hand shown

Toolholder Dimensions

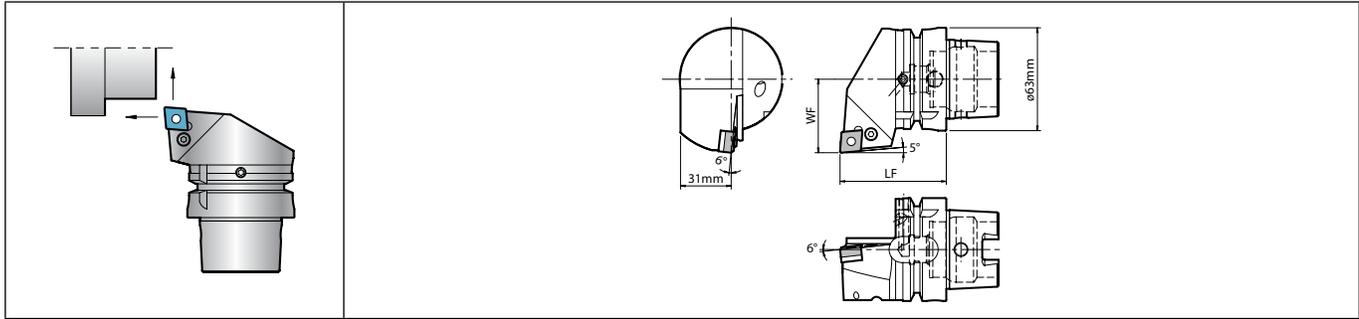
Unit	Part Number	Std. Item	Dimensions				Spare Parts		
							Screw	Coolant Pipe	Wrench
		N	DCSFMS	DIX	LPR	OAW			
mm	T63H- S2525-90F S2525-120F	●	63	108	90	81	HS12X30	CL63-1	LW-6
		●			120				
	T100H- S2525-105F S2525-150F	●	100	118	105	96	HS12X30	CL100-1	LW-6
		●			150				

Coolant outlet direction is adjustable.

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

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
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
TECHNICAL	R
INDEX	T

PCLN (External Turning / External Facing)



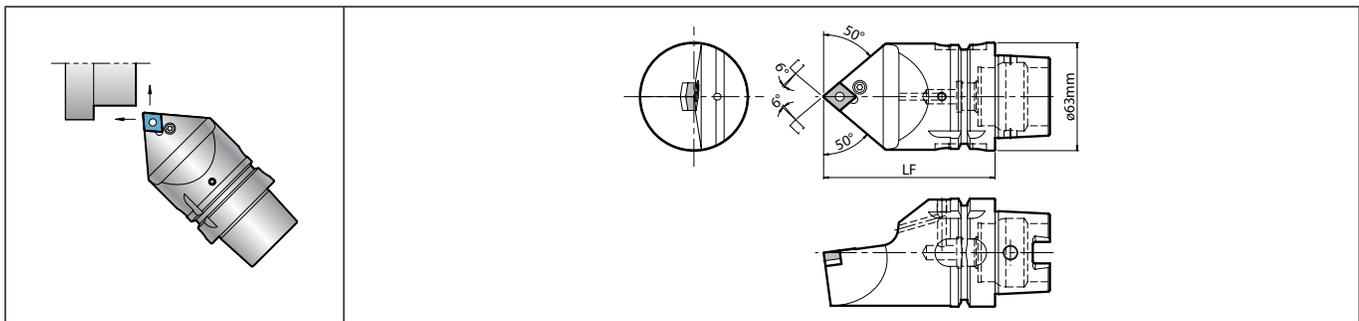
Right-hand shown | Right-hand Insert for Right-hand Toolholder, Left-hand Insert for Left-hand Toolholder.

Toolholder Dimensions

Unit	Part Number	Std. Item		Dimensions		Spare Parts						Applicable Inserts	
		R	L	LF	WF	Coolant Pipe	Lever	Lock Screw	Punch	Shim Pin	Shim		Wrench
mm	T63H- PCLN% -DX12	●	●	65	45	CL63-1	LL-2N	LS-2N	PC-2	LSP-2	LC-42N (LC-42N-C*)	LW-3	CN□A43..., CN□G43... CN□M43...

When using inserts with SX chipbreaker, use shim (-C type) sold separately.

PCMN (External Turning / External Facing)



Toolholder Dimensions

Unit	Part Number	Std. Item		Dimensions		Spare Parts						Applicable Inserts		
		N	LF	LF	LF	Coolant Pipe	Lever	Lock Screw	Punch	Shim Pin	Shim		Shim*	Wrench
mm	T63H- PCMNN-H12 PCMNN-L12	●	●	100	140	CL63-1	LL-2N	LS-2N	PC-2	LSP-2	LC-42N	LC-42N-C	LW-3	CN□A43..., CN□G43... CN□M43...

When using inserts with SX chipbreaker, use shim (-C type) sold separately.

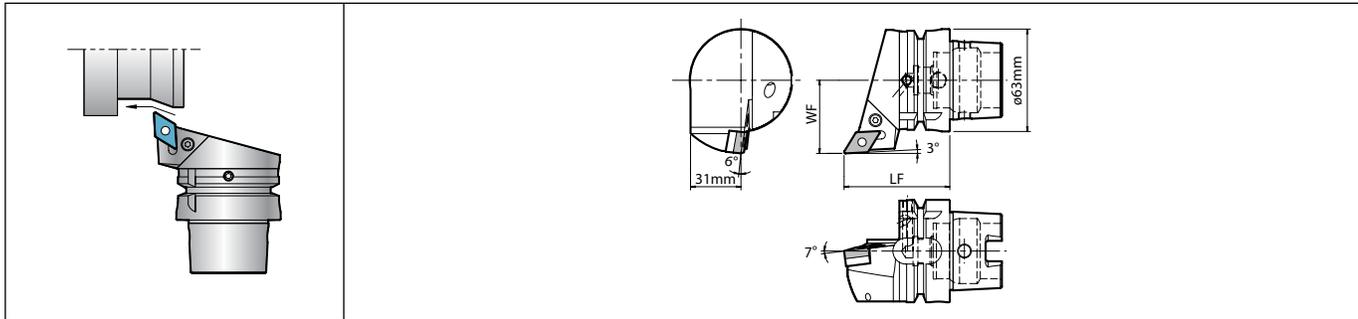
N
QUICK CHANGE
TOOLING

Applicable Inserts

Applications	Finishing	Finishing	Finishing - Medium	Finishing - Medium	Finishing	Finishing	Finishing - Medium	Finishing - Medium
Insert								
Chipbreaker	WF	WP	WE	WQ	PP	GP	PQ	HQ
Page	B16	B16	B16	B16	B16	B16	B16	B17
Applications	Finishing - Medium	Finishing - Medium	Medium	Medium - Roughing	Medium - Roughing	Medium - Roughing	Medium - Roughing	Medium - Roughing
Insert								
Chipbreaker	CQ	CJ	TN-V	PMG	GS	PG	PS	PT
Page	B17	B17	B17	B17	B17	B17	B18	B18
Applications	Medium - Roughing	Roughing	Roughing	Roughing	Medium	Medium - Roughing	Medium - Roughing	Low Carbon Steel
Insert								
Chipbreaker	GT	Standard	PH	PX	R/L	R/L-25R	Z	XF
Page	B18	B18	B18	B19	B23	B23	B23	B19
Applications	Low Carbon Steel	Low Carbon Steel	Low Carbon Steel	Finishing - Medium	Medium - Roughing	Stainless Steel / Heat-Resistant Alloys	Stainless Steel / Heat-Resistant Alloys	Stainless Steel / Heat-Resistant Alloys
Insert								
Chipbreaker	XP	XQ	XS	SK	FP-TK	TK	MQ	MS
Page	B19	B19	B19	B19	B19	B20	B20	B20
Applications	Stainless Steel / Heat-Resistant Alloys	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron
Insert								
Chipbreaker	MU	KQ	KG	KH	C	ZS	GC	No Chipbreaker
Page	B20	B21	B21	B21	B22	B22	B22	B22
Applications	Cast Iron / Hard Materials	Non-Ferrous Metals	Non-Ferrous Metals	Non-Ferrous Metals	Heat-Resistant Alloys	Heat-Resistant Alloys	Heat-Resistant Alloys	Hard Materials / Cast Iron
Insert								
Chipbreaker	Ceramic	R/L-A3	AH	PCD	SQ	SG	R/L-SX	CBN
Page	B113	B23	B23	C34	B20	B21	B21	C8
Applications	Hard Materials	Hard Materials	Hard Materials					
Insert								
Chipbreaker	HH	HL	HD					
Page	C9	C9	C9					

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
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
TECHNICAL	R
INDEX	T

PDJN (External Turning / External Copying)



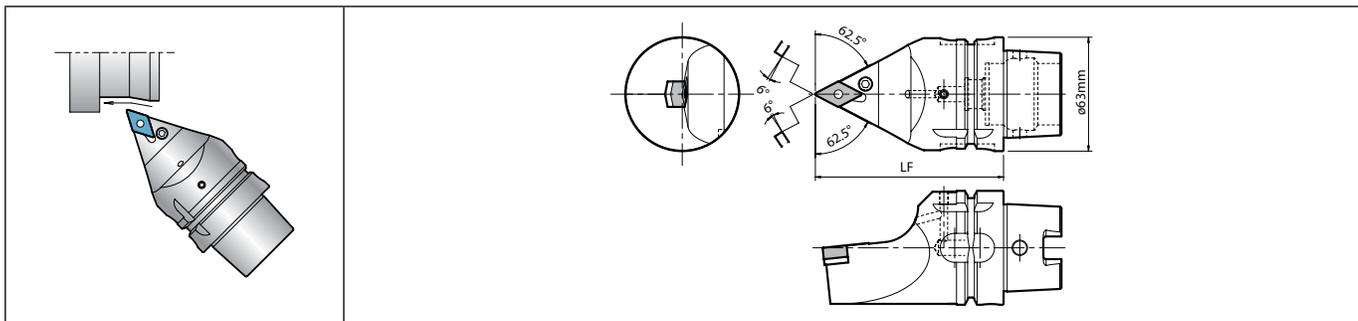
Right-hand shown | Right-hand Insert for Right-hand Toolholder, Left-hand Insert for Left-hand Toolholder.

Toolholder Dimensions

Unit	Part Number	Std. Item	Dimensions		Spare Parts							Applicable Inserts	
					Coolant Pipe	Lever	Lock Screw	Punch	Shim Pin	Shim	Shim*		Wrench
					R	LF	WF						
mm	T63H- PDJNR-DX15	●	65	45	CL63-1	LL-3N	LS-2N	PC-2	LSP-2	LD-42	LD-42-20	LW-3	DN□A43..., DN□G43... DN□M43...

When using inserts with corner-R(RE) greater than 1/16" (1.6mm), please purchase shim LD-42-20* (sold separately) to prevent workpiece and shim from interfering each other.

PDNN (External Turning / External Copying)



Toolholder Dimensions

Unit	Part Number	Std. Item	Dimensions		Spare Parts							Applicable Inserts	
					Coolant Pipe	Lever	Lock Screw	Punch	Shim Pin	Shim	Shim*		Wrench
					N	LF							
mm	T63H- PDNNN-H15 PDNNN-L15	●	100	140	CL63-1	LL-3N	LS-2N	PC-2	LSP-2	LD-42	LD-42-20	LW-3	DN□A43..., DN□G43... DN□M43...

When using inserts with corner-R(RE) greater than 1/16" (1.6mm), please purchase shim LD-42-20* (sold separately) to prevent workpiece and shim from interfering each other.

N
QUICK CHANGE
TOOLING

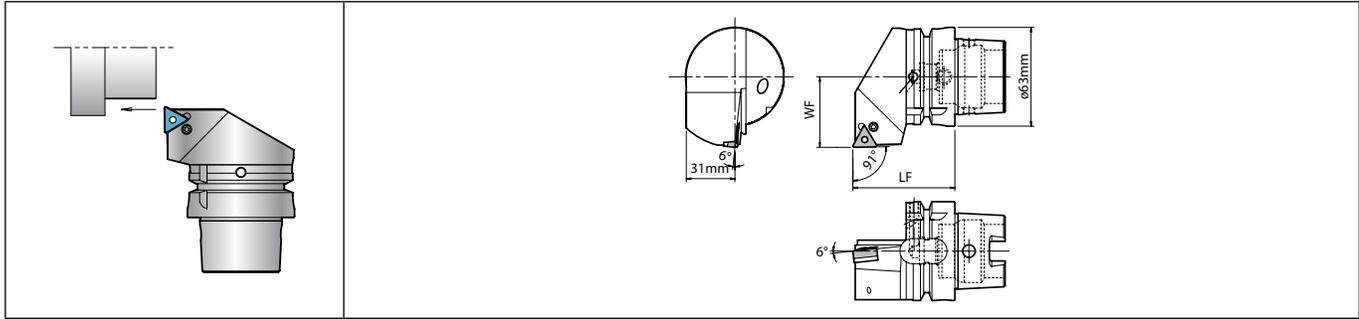
Applicable Inserts

Applications	Finishing	Finishing	Finishing - Medium	Finishing - Medium	Finishing - Medium	Finishing - Medium	Medium	Medium - Roughing
Insert								
Chipbreaker	PP	GP	PQ	HQ	CQ	CJ	TN-V	PMG
Page	B24	B24	B24	B25	B25	B25	B25	B25
Applications	Medium - Roughing	Medium - Roughing	Medium - Roughing	Medium - Roughing	Medium - Roughing	Roughing	Roughing	Roughing
Insert								
Chipbreaker	GS	PG	PS	PT	GT	Standard	PH	PX
Page	B25	B26	B26	B26	B26	B27	B27	B27
Applications	Medium	Low Carbon Steel	Low Carbon Steel	Low Carbon Steel	Low Carbon Steel	Finishing - Medium	Large ap	Medium - Roughing
Insert								
Chipbreaker	R/L	XF	XP	XQ	XS	SK	R-LD	FP-TK
Page	B32	B27	B27	B27	B27	B28	B28	B28
Applications	Stainless Steel / Heat-Resistant Alloys	Cast Iron	Cast Iron	Cast Iron	Cast Iron			
Insert								
Chipbreaker	TK	MQ	MS	MU	KQ	KG	KH	C
Page	B28	B28	B29	B29	B30	B30	B30	B30
Applications	Cast Iron	Cast Iron	Cast Iron	Cast Iron / Hard Materials	Non-Ferrous Metals	Non-Ferrous Metals	Non-Ferrous Metals	Heat-Resistant Alloys
Insert								
Chipbreaker	ZS	GC	No Chipbreaker	Ceramic	%-A3	AH	PCD	SQ
Page	B30	B30	B31	B114	B31	B31	C35	B29
Applications	Heat-Resistant Alloys	Hard Materials / Cast Iron	Hard Materials	Hard Materials	Hard Materials			
Insert								
Chipbreaker	SG	CBN	HH	HL	HD			
Page	B29	C10	C11	C11	C11			

- 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**
- DRILLING **K**
- MILLING **M**
- QUICK CHANGE TOOLING **N**
- SPARE PARTS **P**
- TECHNICAL **R**
- INDEX **T**

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PTGN (External Turning)



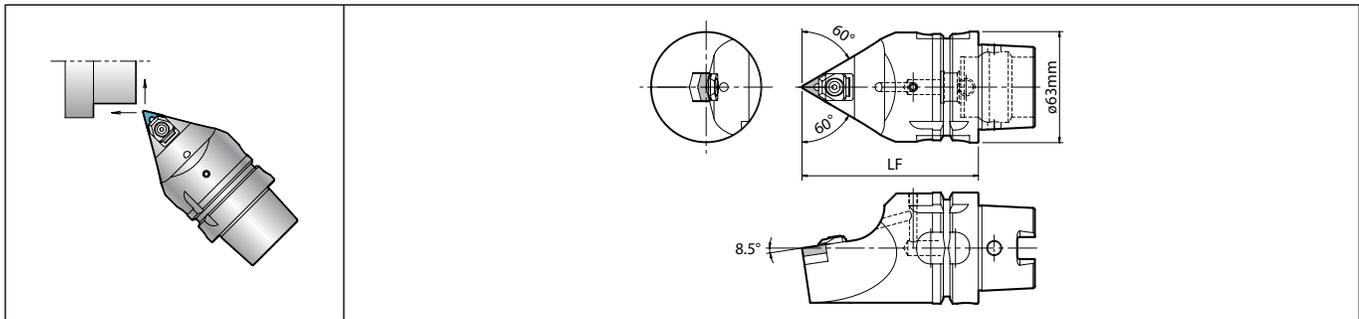
Right-hand shown | Right-hand Insert for Right-hand Toolholder, Left-hand Insert for Left-hand Toolholder.

Toolholder Dimensions

Unit	Part Number	Std. Item		Dimensions		Spare Parts							Applicable Inserts	
		R	L	LF	WF	Coolant Pipe	Lever	Lock Screw	Punch	Shim Pin	Shim	Shim*		Wrench
mm	T63H- PTGN $\frac{1}{2}$ -DX16	●	●	65	45	CL63-1	LL-1N	LS-1N	PC-1	LSP-1	LT-32N	LT-32N-20	FH-2.5	TN□A33..., TN□G33... TN□M33...

When using inserts with corner-R(RE) greater than 1/16" (1.6mm), please purchase shim LT-32N-20* (sold separately) to prevent workpiece and shim from interfering each other.

WTEN (External Turning / External Facing)



N
QUICK CHANGE
TOOLING

Toolholder Dimensions

Unit	Part Number	Std. Item		Dimensions		Spare Parts							Applicable Inserts
		N	LF	Clamp Set	Coolant Pipe	Nut	Shim Pin	Shim	Spacer	Wrench			
mm	T63H- WTENN-H16 WTENN-L16	●	100	WCS-1N	CL63-1	WN-1	WP-1S	WTN-33	WSP-1	LW-3	TN□A33..., TN□G33... TN□M33...		
		●	140										

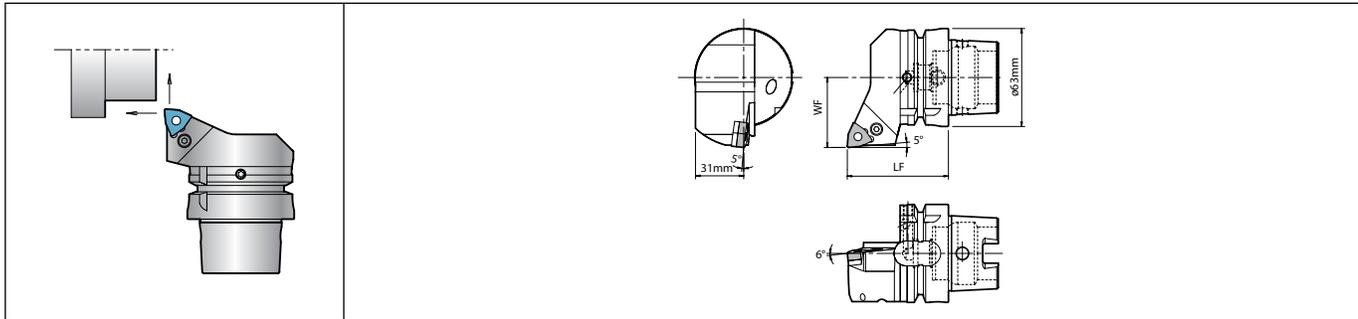
● : Standard Item □ : Made to Order △ : Phaseout Item (will be removed from next catalog)
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Applicable Inserts

Applications	Finishing	Finishing	Finishing - Medium	Finishing - Medium	Finishing - Medium	Medium - Roughing	Medium - Roughing	Medium - Roughing
Insert								
Chipbreaker	PP	GP	PQ	HQ	CQ	PMG	GS	PG
Page	B39	B39	B39	B39	B39	B40	B40	B40
Applications	Medium - Roughing	Medium - Roughing	Medium - Roughing	Roughing	Roughing	Roughing	Finishing	Finishing
Insert								
Chipbreaker	PS	PT	GT	Standard	PH	PX	P/L-SSF	P/L-S
Page	B40	B40	B40	B40	B41	B41	B45	B45
Applications	Finishing - Medium	Medium - Roughing	Medium - Roughing	Low Carbon Steel	Low Carbon Steel	Low Carbon Steel	Low Carbon Steel	Finishing - Medium
Insert								
Chipbreaker	P/L-B	P/L-C	P/L-25R	XF	XP	XQ	XS	SK
Page	B45	B46	B46	B41	B41	B41	B41	B42
Applications	Large ap	Medium - Roughing	Stainless Steel / Heat-Resistant Alloys	Stainless Steel / Heat-Resistant Alloys	Stainless Steel / Heat-Resistant Alloys	Stainless Steel / Heat-Resistant Alloys	Stainless steel	Cast Iron
Insert								
Chipbreaker	R-LD	FP-TK	TK	MQ	MS	MU	P/L-ST	KQ
Page	B42	B42	B42	B42	B42	B42	B43	B43
Applications	Cast Iron	Cast Iron	Cast Iron / Hard Materials	Non-Ferrous Metals				
Insert								
Chipbreaker	KG	KH	C	ZS	GC	No Chipbreaker	Ceramic	P/L-A3
Page	B43	B43	B43	B43	B43	B44	B118	B44
Applications	Non-Ferrous Metals	Non-Ferrous Metals	Heat-Resistant Alloys	Hard Materials / Cast Iron				
Insert								
Chipbreaker	AH	PCD	SG	CBN				
Page	B44	C36	B43	C13				

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
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
TECHNICAL	R
INDEX	T

PWLN (External Turning / External Facing)

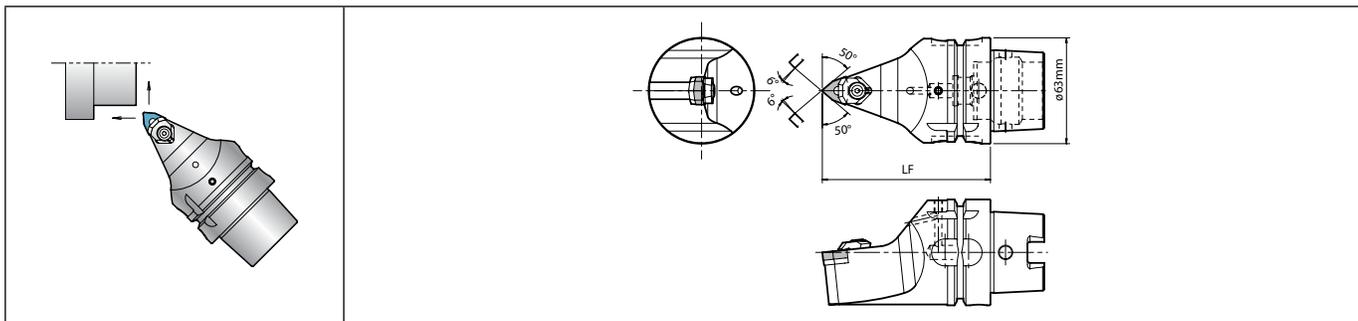


Right-hand shown | Right-hand Insert for Right-hand Toolholder, Left-hand Insert for Left-hand Toolholder.

Toolholder Dimensions

Unit	Part Number	Std. Item		Dimensions		Spare Parts						Applicable Inserts	
		R	L	LF	WF	Coolant Pipe	Lever	Lock Screw	Punch	Shim Pin	Shim		Wrench
													
mm	T63H- PWLN%-DX08	●	●	65	45	CL63-1	LL-2N	LS-2N	PC-2	LSP-2	LW-42N	LW-3	WN□A43..., WN□G43... WN□M43...

WWMN (External Turning / External Facing)



Toolholder Dimensions

Unit	Part Number	Std. Item		Dimensions		Spare Parts						Applicable Inserts
		N	LF	Clamp set	Coolant Pipe	Nut	Shim Pin	Shim	Wrench			
												
mm	T63H- WWMN-H08 WWMN-L08	●	100	WCS-8	CL63-1	WN-1	WPSX15	WWN-42	LW-3	WN□A43..., WN□G43... WN□M43...		
		●	140									

N
QUICK CHANGE
TOOLING

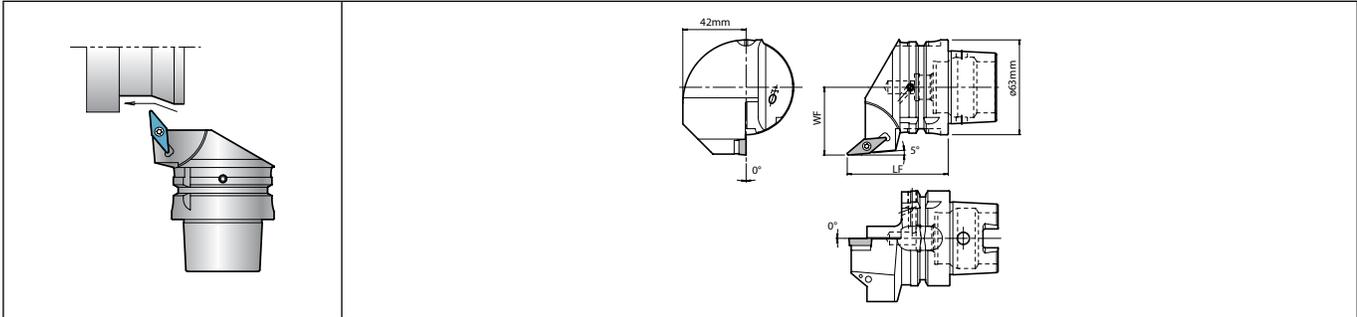
Applicable Inserts

Applications	Finishing	Finishing	Finishing - Medium	Finishing - Medium	Finishing	Finishing	Finishing - Medium	Finishing - Medium
Insert								
Chipbreaker	WF	WP	WE	WQ	PP	GP	PQ	HQ
Page	B50	B50	B50	B50	B50	B50	B50	B51
Applications	Finishing - Medium	Finishing - Medium	Medium - Roughing	Medium - Roughing	Medium - Roughing	Medium - Roughing	Medium - Roughing	Medium - Roughing
Insert								
Chipbreaker	CQ	CJ	PMG	GS	PG	PS	PT	GT
Page	B51	B51	B51	B51	B51	B51	B51	B52
Applications	Roughing	Roughing	Low Carbon Steel	Low Carbon Steel	Low Carbon Steel	Stainless steel / Heat-Resistant Alloys	Stainless Steel / Heat-Resistant Alloys	Stainless Steel / Heat-Resistant Alloys
Insert								
Chipbreaker	Standard	PH	XP	XQ	XS	TK	MQ	MS
Page	B52	B52	B52	B52	B52	B52	B53	B53
Applications	Stainless Steel / Heat-Resistant Alloys	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron
Insert								
Chipbreaker	MU	KQ	KG	KH	C	ZS	GC	No Chipbreaker
Page	B53	B53	B53	B53	B54	B54	B54	B54
Applications	Non-Ferrous Metals	Non-Ferrous Metals	Heat-Resistant Alloys	Hard Materials / Cast Iron				
Insert								
Chipbreaker	AH	PCD	SG	CBN				
Page	B54	C38	B53	C15				

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
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
TECHNICAL	R
INDEX	T

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SVLB (External Turning / External Copying)

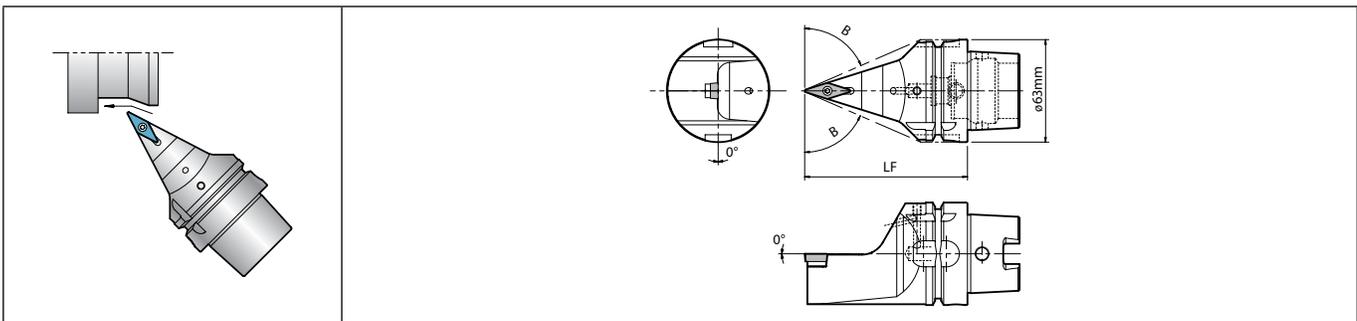


Right-hand shown | Right-hand Insert for Right-hand Toolholder, Left-hand Insert for Left-hand Toolholder.

Toolholder Dimensions

Unit	Part Number	Std. Item		Dimensions		Spare Parts						Applicable Inserts
		R	L	LF	WF	Coolant Pipe	Screw	Shim Screw	Shim	Wrench	Wrench	
mm	T63H- SVLB% -DX16N	●	●	65	45	CL63-1	SB-40125TRN	SS-4N	SVN-32N	LW-4	FT-15	VB□T33..., VB□W33... VC□T33...

SVVB (External Turning / External Copying)



Toolholder Dimensions

Unit	Part Number	Std. Item		Dimensions		Spare Parts						Applicable Inserts
		N	LF	B (°)	Coolant Pipe	Screw	Shim Screw	Shim	Wrench	Wrench		
mm	T63H- SVVBN-H16N	●	100	66.5	CL63-1	SB-40125TRN	SS-4N	SVN-32N	LW-4	FT-15	VB□T33..., VB□W33... VC□T33...	
	T63H- SVVBN-L16N	●	140	72.5								

Angle B show the interference angle from the line of cutting edge and toolholder.

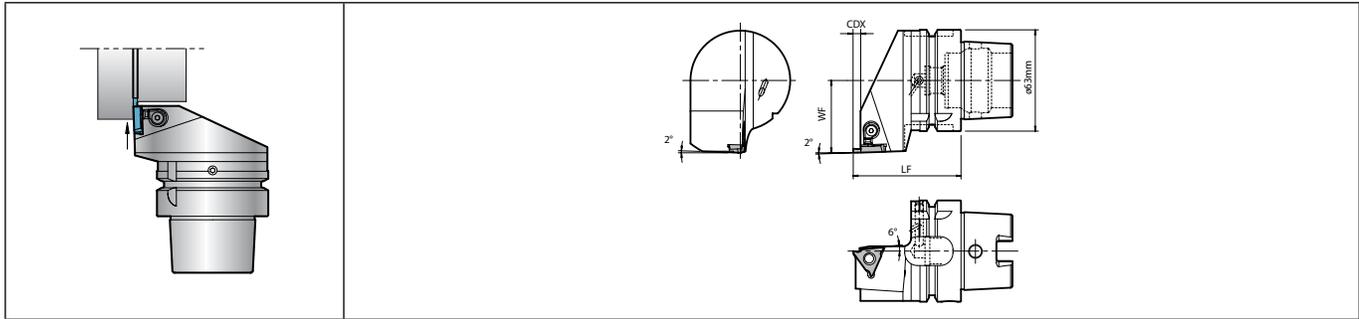
N
QUICK CHANGE
TOOLING

Applicable Inserts

Applications	Finishing	Finishing	Finishing	Finishing - Medium	Finishing - Medium	Non-Ferrous Metals	Hard Materials
Insert							
Chip Breaker Type	PP	GP	VF	HQ	R/L-Y	PCD	CBN
Page	B97, B100	B97	B97	B97	B99	C49	C26

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
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
TECHNICAL	R
INDEX	T

KGBA (Shallow Grooving)



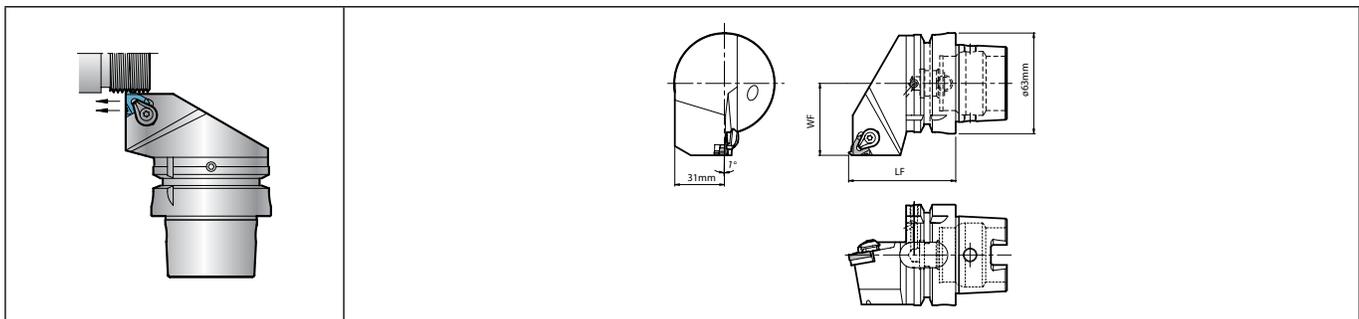
Right-hand shown | Right-hand Insert for Right-hand Toolholder, Left-hand Insert for Left-hand Toolholder.

Toolholder Dimensions

Unit	Part Number	Std. Item	Dimensions			Spare Parts			Applicable Inserts ● G6~G12	
			R	LF	WF	CDX	Clamp Set	Coolant Pipe		Wrench
			mm	T63H- KGBAR-16 KGBAR-22-15 KGBAR-22-25 KGBAR-22-35	●	67	45	2.5		LGBA-16LS
●	4	LGBA-22LS	GBA43R...							
●	4.5									
●	5.5									

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

KTN (External Threading)



Right-hand shown | Right-hand Insert for Right-hand Toolholder, Left-hand Insert for Left-hand Toolholder.

Toolholder Dimensions

Unit	Part Number	Std. Item	Dimensions			Spare Parts						Applicable Inserts ● J6, J8, J10 J12, J14, J16 J18, J20	
			R	LF	WF	Clamp Set	Clamp Set	Coolant Pipe	Shim Screw	Shim	Wrench		Wrench
			mm	T63H- KTNR-16 KTNR-22	●	67	45	CPS-5S	-	CL63-1	SP3X8		TN-32
●	-	CPS-6S	CL63-1	TN-43	LW-3	-	22ER type						

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