

PSC holder

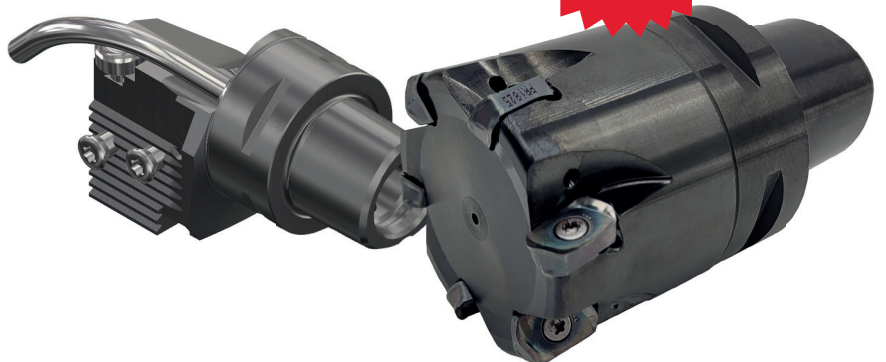


Available for turning, grooving and high feed milling application

Polygon taper shank with high rigidity and high precision

Dual contact between taper face and flange face

NEW



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Polygon taper shank

ISO Turning toolholder

Polygon taper shank with high rigidity and high precision

PSC shank tools

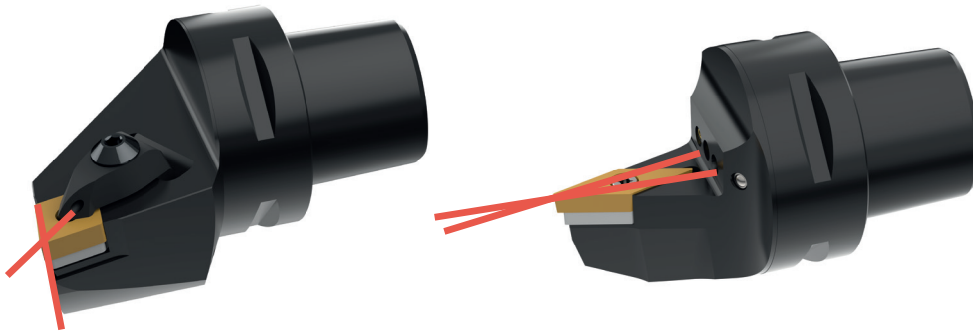
JIS B 6066-1: Dual contact between polygon taper shank and the main spindle face
ISO26623-1: Polygonal taper interface with flange contact surface

1 High rigidity

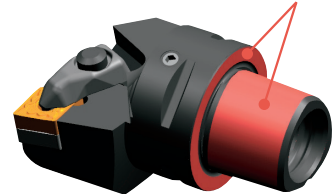
Polygon taper design and dual contact between the taper and the flange face for high rigidity

2 Effective cooling

Unique internal coolant design

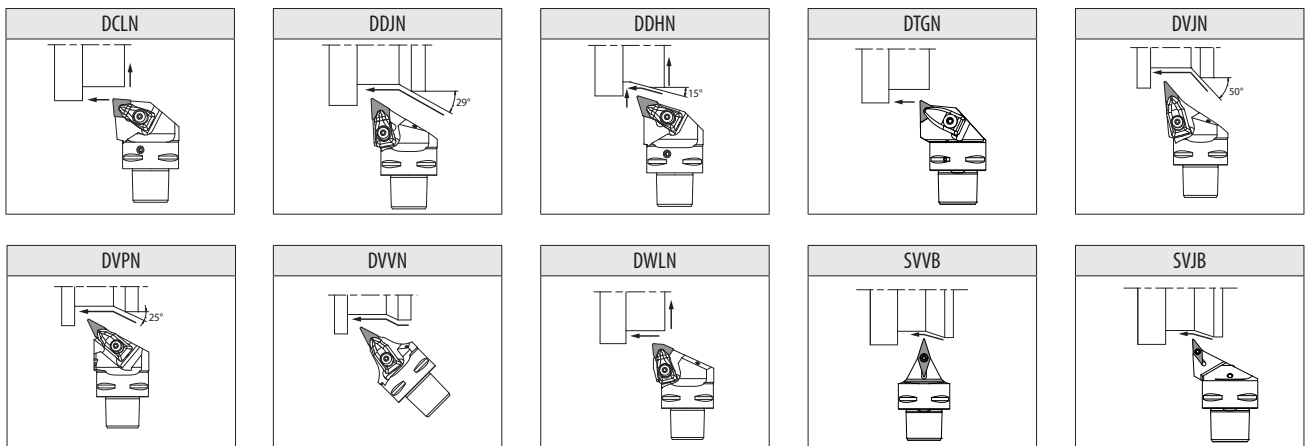


Dual contact between taper face and flange face



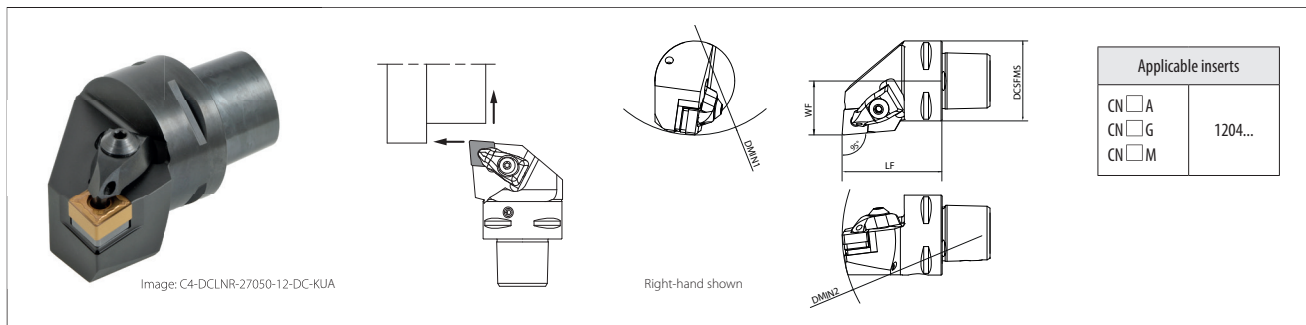
Even distribution of force between 3 faces enhances rigidity and centering

3 Lineup



Turning toolholder PSC

DCLN^R/L -12

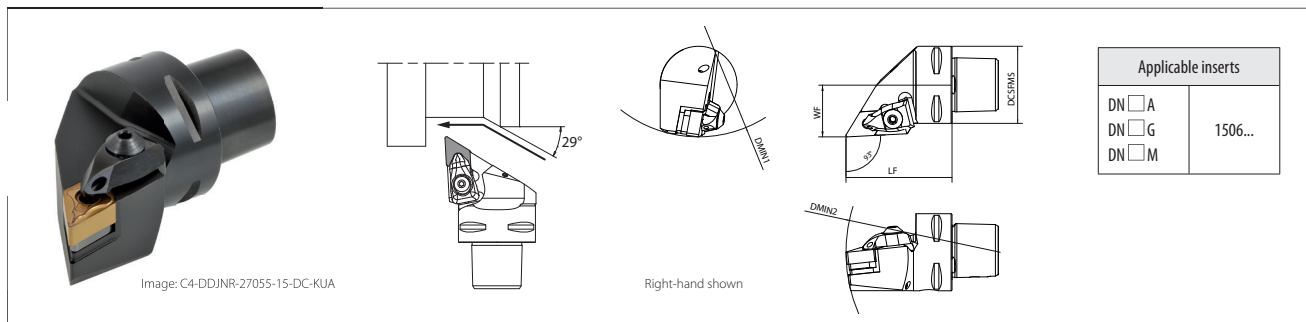


Toolholder dimensions

Description	Availability		Size	Dimensions (mm)					RE	Spare parts			
	R	L		DCSFMS	LF	WF	DMIN1	DMIN2		Clamp	Clamp Screw	Shim	Shim screw
C4-DCLN ^R /L-27050-12-DC-KUA	●	●	C4	40	50	27	110	150	0.8	KSPK ^R /L	KVPA.0620.DC	KPPPC.12	KVPP0512.KG
C5-DCLN ^R /L-35060-12-DC-KUA	●	●	C5	50	60	35	115	175					
C6-DCLN ^R /L-45065-12-DC-KUA	●	●	C6	63	65	45	110	200					

● : Available

DDJN^R/L -15



Toolholder dimensions

Description	Availability		Size	Dimensions (mm)					RE	Spare parts			
	R	L		DCSFMS	LF	WF	DMIN1	DMIN2		Clamp	Clamp Screw	Shim	Shim screw
C4-DDJN ^R /L-27055-15-DC-KUA	●	●	C4	40	55	27	140	170	0.8	KSPK ^R /L	KVPA.0620.DC	KPPPD.15	KVPP0512.KG
C5-DDJN ^R /L-35060-15-DC-KUA	●	●	C5	50	60	35	120	160					
C6-DDJN ^R /L-45065-15-DC-KUA	●	●	C6	63	65	45	110	190					

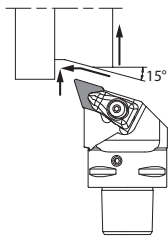
● : Available

Turning toolholder PSC

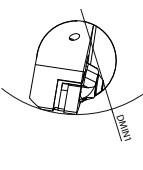
DDHN^{R/L} -15



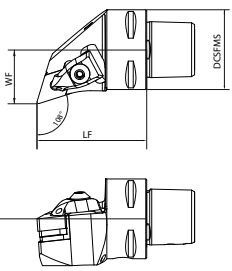
Image: C4-DDHNR-27055-15-DC-KUA



15°



DMIN1



WF
LF
DCSFMS
DMIN2

Applicable inserts	
DN ☐ A	1506...
DN ☐ G	
DN ☐ M	

Toolholder dimensions

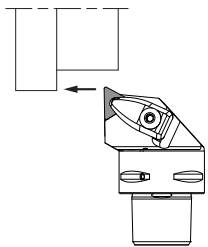
Description	Availability		Size	Dimensions (mm)					RE	Spare parts			
	R	L		DCSFMS	LF	WF	DMIN1	DMIN2		Clamp	Clamp Screw	Shim	Shim screw
C4-DDHN ^{R/L} -27055-15-DC-KUA	●	●	C4	40	55	27	125	300	0.8	KSPK ^{R/L}	KVPA.0620.DC	KPPPD.15	KVPP0512.KG
C5-DDHN ^{R/L} -35060-15-DC-KUA	●	●	C5	50	60	35	110	165					
C6-DDHN ^{R/L} -45065-15-DC-KUA	●	●	C6	63	65	45	110	210					

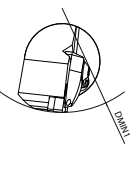
● : Available

DTGN^{R/L} -16

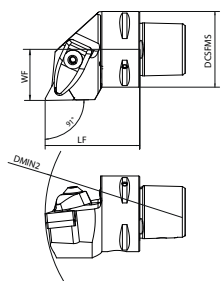


Image: C4-DTGNR-27050-16-DC-KUA





DMIN1



WF
LF
DCSFMS
DMIN2

Applicable inserts	
TN ☐ A	1604...
TN ☐ G	
TN ☐ M	

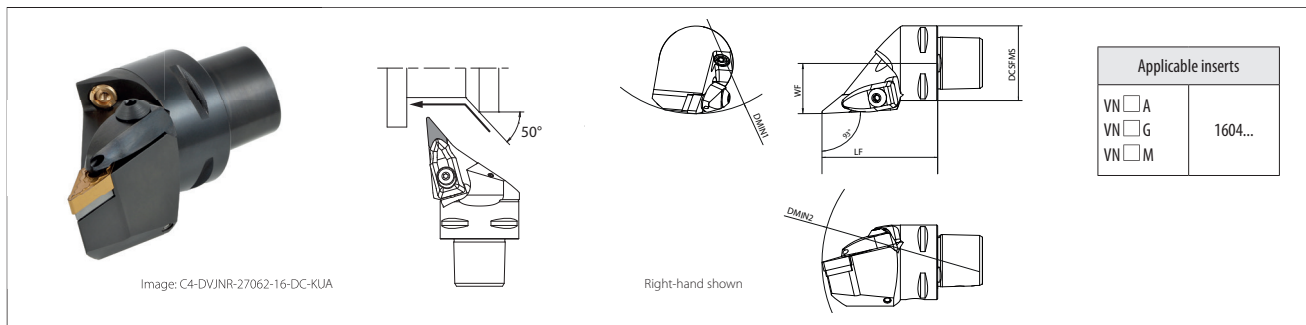
Toolholder dimensions

Description	Availability		Size	Dimensions (mm)					RE	Spare parts			
	R	L		DCSFMS	LF	WF	DMIN1	DMIN2		Clamp	Clamp Screw	Shim	Shim screw
C4-DTGN ^{R/L} -27050-16-DC-KUA	●	●	C4	40	50	27	115	140	0.8	KSPD ^{R/L}	KVPA.0620.DC	KPPPT.16	KVPP0512.RGT
C5-DTGN ^{R/L} -35060-16-DC-KUA	●	●	C5	50	60	35	110	165					
C6-DTGN ^{R/L} -45065-16-DC-KUA	●	●	C6	63	65	45	110	190					

● : Available

Turning toolholder PSC

DVJN^R/L -16

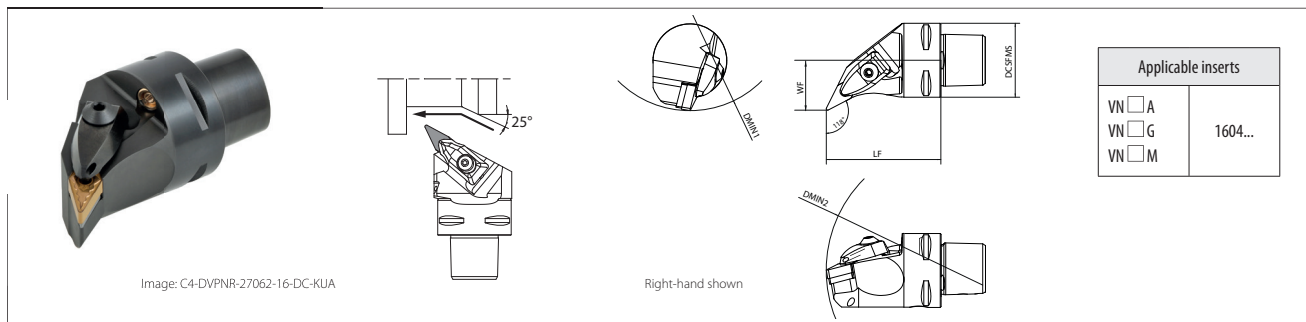


Toolholder dimensions

Description	Availability		Size	Dimensions (mm)					RE	Spare parts			
	R	L		DCSFMS	LF	WF	DMIN1	DMIN2		Clamp	Clamp Screw	Shim	Shim screw
C4-DVJN ^R /L-27062-16-DC-KUA	●	●	C4	40	62	27	145	140	0.8	KSPD ^R /L	KVPA.0620.DC	KPPPV.16	KVPP.0512.RG
C5-DVJN ^R /L-35060-16-DC-KUA	●	●	C5	50	65	35	115	165					
C6-DVJN ^R /L-45065-16-DC-KUA	●	●	C6	63	65	45	110	190					

● : Available

DVPN^R/L -16



Toolholder dimensions

Description	Availability		Size	Dimensions (mm)					RE	Spare parts			
	R	L		DCSFMS	LF	WF	DMIN1	DMIN2		Clamp	Clamp Screw	Shim	Shim screw
C4-DVPN ^R /L-27062-16-DC-KUA	●	●	C4	40	62	27	110	140	0.8	KSPD ^R /L	KVPA.0620.DC	KPPPV.16	KVPP.0512.RG
C5-DVPN ^R /L-35060-16-DC-KUA	●	●	C5	50	65	35	110	165					
C6-DVPN ^R /L-45065-16-DC-KUA	●	●	C6	63	65	45	110	190					

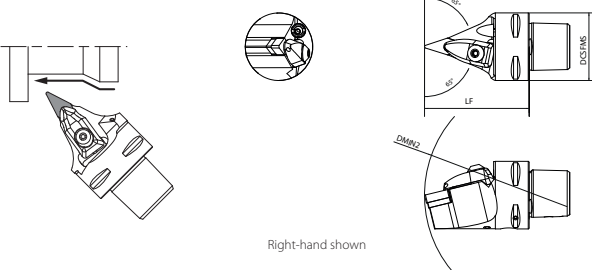
● : Available

Turning toolholder PSC

DVVNN -16



Image: C4-DVVNN-00062-16-DC-KUA



Right-hand shown

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

Toolholder dimensions

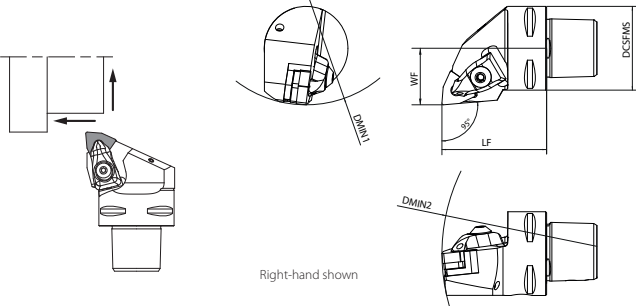
Description	Availability			Size	Dimensions (mm)					RE	Spare parts			
	R	N	L		DCSFMS	LF	WF	DMIN1	DMIN2		Clamp	Clamp Screw	Shim	Shim screw
C4-DVVNN-00062-16-DC-KUA	●			C4	40	62	0	-	140	0.8	KSPDR	KVPA.0620.DC	KPPPV.16	KVPP.0512.RG
C5-DVVNN-00065-16-DC-KUA	●			C5	50	65	0	-	170		KSPDL			
C6-DVVNN-00065-16-DC-KUA	●			C6	63	65	0	-	190		KSPDR			

● : Available

DWLN^R/L -08



Image: C4-DWLN-27050-08-DC-KUA



Right-hand shown

Applicable inserts	
WN ☐ A	0804...
WN ☐ G	
WN ☐ M	

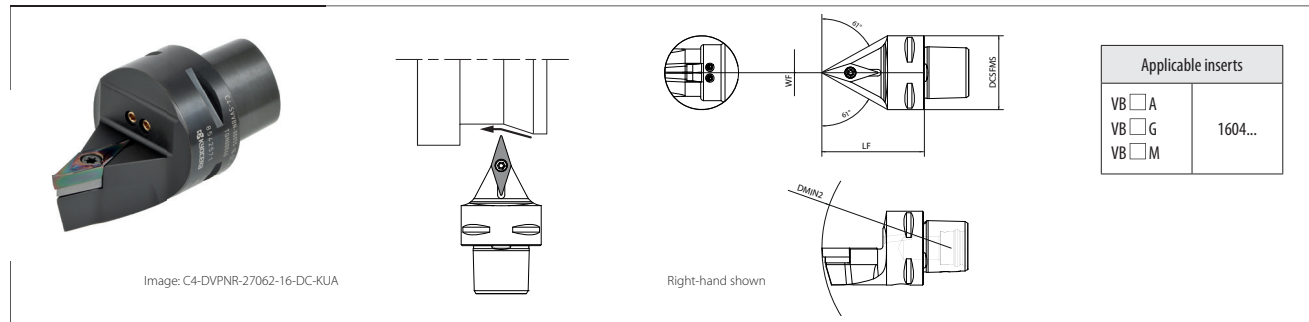
Toolholder dimensions

Description	Availability		Size	Dimensions (mm)					RE	Spare parts			
	R	L		DCSFMS	LF	WF	DMIN1	DMIN2		Clamp	Clamp Screw	Shim	Shim screw
C4-DWLN ^R /L-27050-08-DC-KUA	●	●	C4	40	50	27	120	190	0.8	KSPK ^R /L	KVPA.0620.DC	KPPPT.16	KVPP.0512.RGT
C5-DWLN ^R /L-35060-08-DC-KUA	●	●	C5	50	60	35	120	170					
C6-DWLN ^R /L-45065-08-DC-KUA	●	●	C6	63	65	45	110	195					

● : Available

Turning toolholder PSC

SVVBN -16

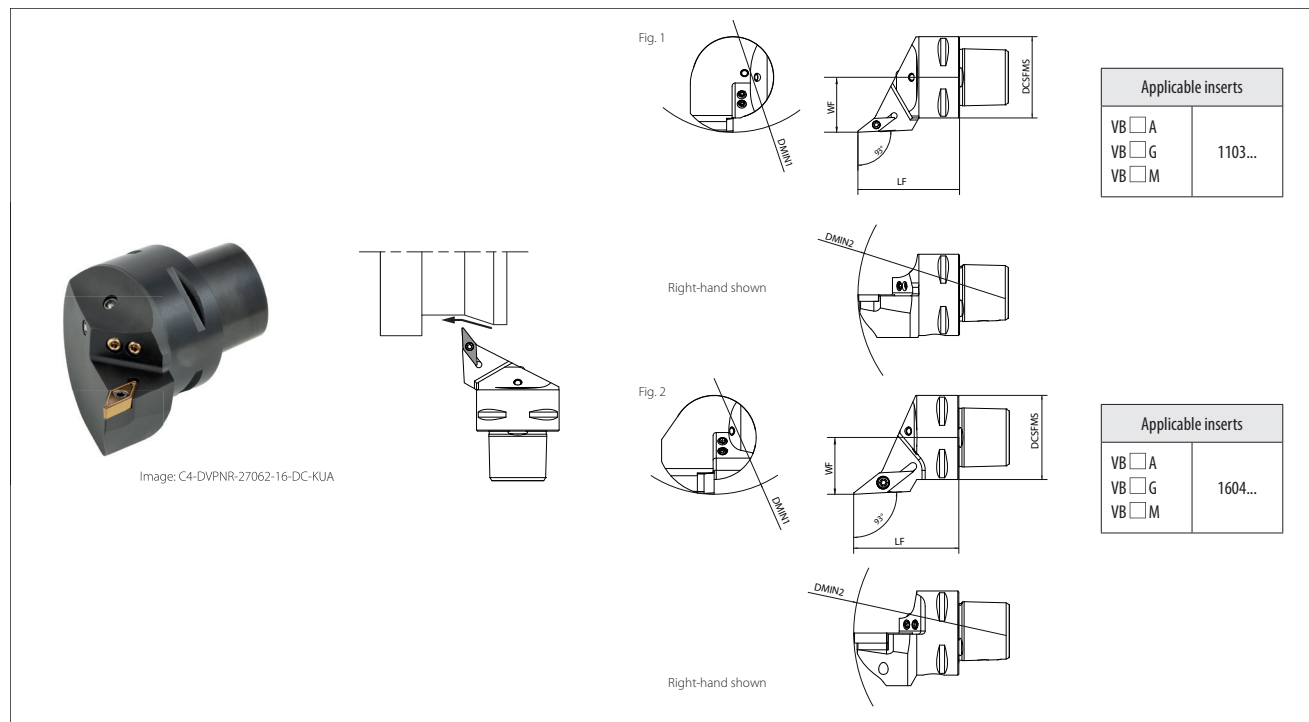


Toolholder dimensions

Description	Availability			Size	Dimensions (mm)					RE	Spare parts			
	R	N	L		DCSFMS	LF	WF	DMIN1	DMIN2		TORX screw	TORX key	Shim	Shim screw
C4-SVVBN-00055-16DC-KUA	●			C4	40	62	0	-	140	0.4	KVPT.3514	KKLJ.T15	KPPPV.16	KVPR.3511
C5-SVVBN-00060-16DC-KUA	●			C5	50	65	0	-	165					
C6-SVVBN-00065-16DC-KUA	●			C6	63	65	0	-	190					

● : Available

SVJBR/L -11 / 16



Toolholder dimensions

Description	Availability			Size	Dimensions (mm)					Drawing	RE	Spare parts			
	R	N	L		DCSFMS	LF	WF	DMIN1	DMIN2			TORX screw	TORX key	Shim	Shim screw
C4-SVJBR/L-27050-11-DC-KUA	●		●	C4	40	50	27	185	140	Fig. 1	0.4	KVPT.2506	KT08	-	-
C5-SVJBR/L-35060-11-DC-KUA	●		●	C5	50	60	35	125	165						
C6-SVJBR/L-45065-11-DC-KUA	●		●	C6	63	65	45	110	190						
C4-SVJBR/L-27050-16-DC-KUA	●		●	C4	C4	40	50	27	115	Fig. 2		KVPT.3514	KKLJ.T15	KPPVV.16	KVPP3508
C5-SVJBR/L-35060-16-DC-KUA	●		●	C5	C5	50	60	35	170						KVPP3511
C6-SVJBR/L-45065-16-DC-KUA	●		●	C6	C6	63	65	45	115						

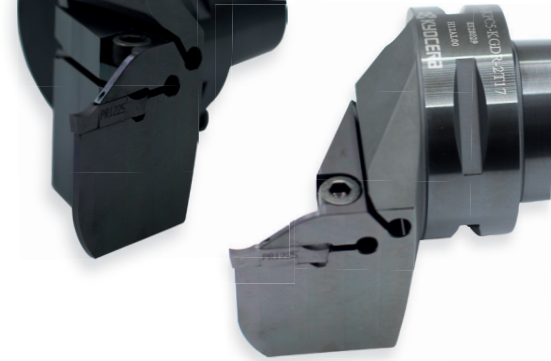
● : Available

External grooving / Cut-Off

KGD

Good chip control

MEGACOAT coating technology for long tool life and high efficiency machining

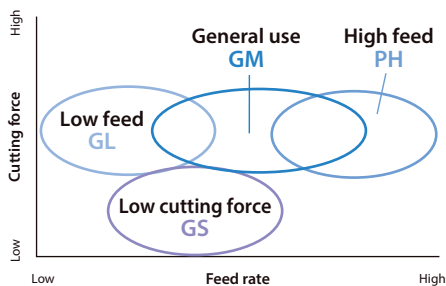


1 Wide range of chipbreakers

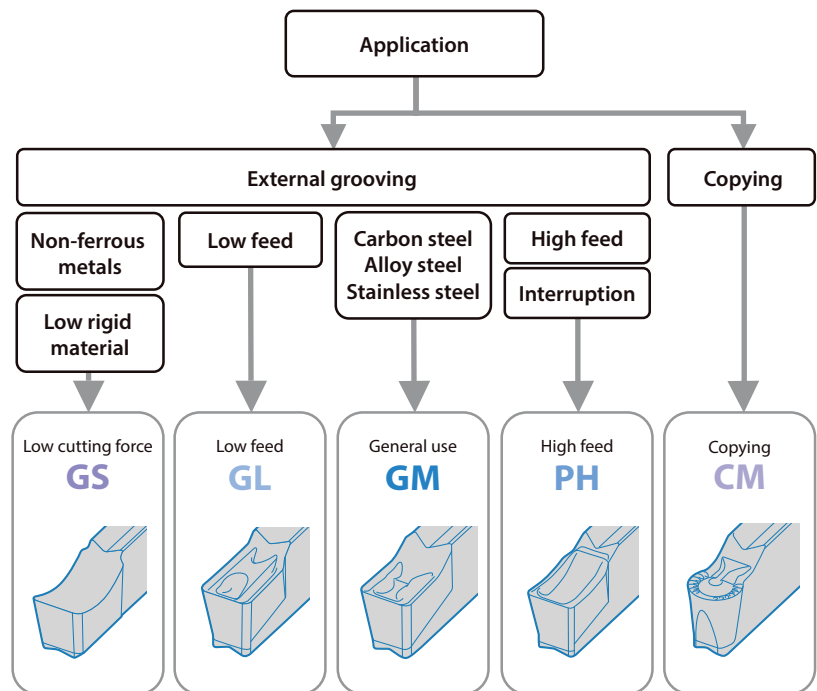
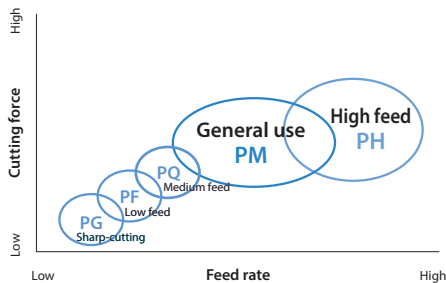
Application maps

Chipbreaker selection (external)

External grooving and traversing



Cut-Off



Comparison of chip control (In-house evaluation)

Cutting conditions: $V_c = 150 \text{ m/min}$, $f = 0.15 \text{ mm/rev}$ Workpiece : 15CrMo4

Better chip control than competitors

Reduces damage of cutting edge caused by crushing chips

GM chipbreaker



Competitor A

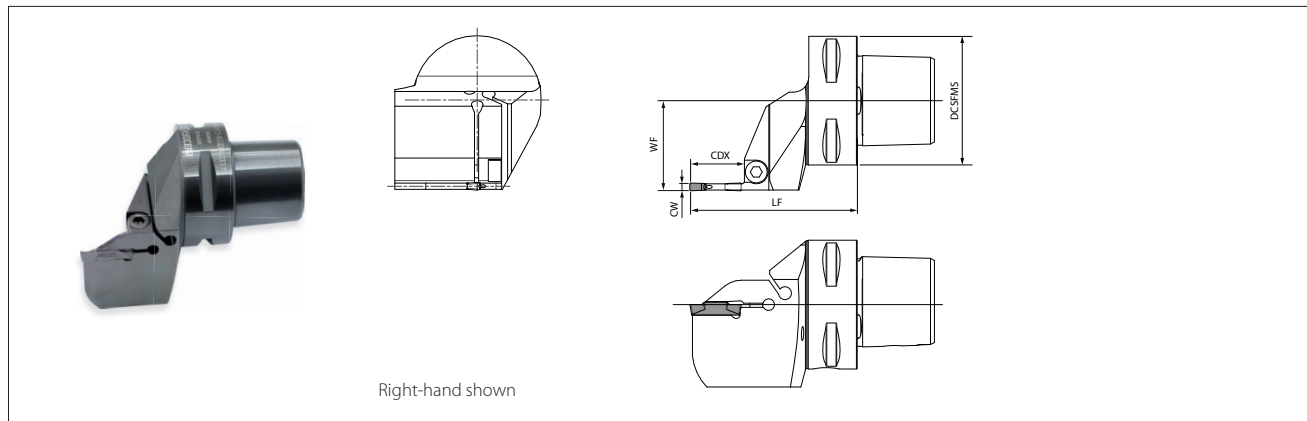


Competitor B



For more information, see the brochure about KGD

KGD-PSC (Grooving/Cut-off toolholder)



Toolholder dimensions

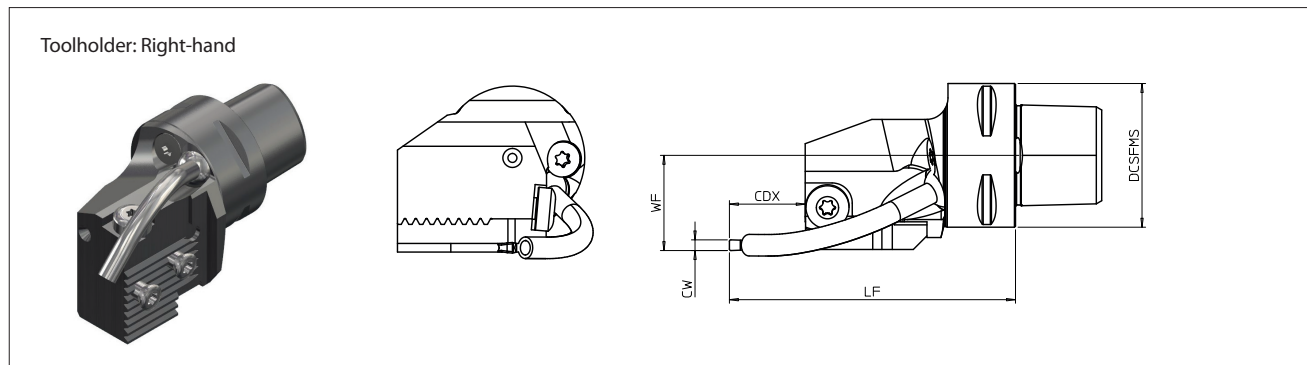
Groove width CW (mm)	Available grooving depth (mm)	Description	Avail- ability		Size	Dimensions (mm)					Width W (mm)		Spare part	Applicable inserts				
			R	L		DCSFMS	LF	WF	CDX	Top coolant	MIN	MAX	Clamp bolt					
																		
2	17	KUA-KPC4-KGD%/-2T17	●	●	C4	40	60	27	17	●	2.0	3.0		GDM type GDG type				
		KUA-KPC5-KGD%/-2T17	●	●	C5	50	60	35	17	●								
3	20	KUA-KPC4-KGD%/-3T20	●	●	C4	40	65	27	20	●	3.0	4.0						
		KUA-KPC5-KGD%/-3T20	●	●	C5	50	65	35	20	●								
		KUA-KPC6-KGD%/-3T20	●	●	C6	60	65	45	20	●								
4	25	KUA-KPC4-KGDR-4T25	●		C4	40	70	27	25	●	4.0	5.0				GDM type GDG type		
		KUA-KPC5-KGDR-4T25	●		C5	50	70	35	25	●								
		KUA-KPC6-KGDR-4T25	●		C6	60	70	45	25	●								
5	25	KUA-KPC4-KGDR-ST25	●		C4	40	70	27	25	●	5.0	6.0						GDM type GDG type
		KUA-KPC5-KGDR-ST25	●		C5	50	70	35	25	●								
		KUA-KPC6-KGDR-ST25	●		C6	60	70	45	25	●								

The recommended clamping torque is 6.5 Nm and the maximum coolant supply pressure is 80 bar.

CDX dimension shows available grooving depth (When CDX dimension is 20 mm or more, maximum grooving depth with 2 corners is 18 mm).

● : Available

KGD-PSC Blade type



Toolholder dimensions

Groove width CW (mm)	Available grooving depth (mm)	Blade description	Toolholder description	Availability		Size	Dimensions (mm)			
				R	L		DCSFMS	LF	WF	Coolant
2	17	KGD%/ -2T17-C	KUA-KPC4-KGD%/ -BL-CT	●	●	C4	40	77	27	●
3	10	KGD%/ -3T10-C		●	●	C4		70		●
3	20	KGD%/ -3T20-C		●	●	C4		80		●
4	10	KGD%/ -4T10-C		●	●	C4		70		●
4	20	KGD%/ -4T20-C		●	●	C4		80		●
4	25	KGD%/ -4T25-C		●	●	C4		85		●
5	10	KGD%/ -5T10-C		●	●	C4		70		●
5	25	KGD%/ -5T25-C		●	●	C4		85		●

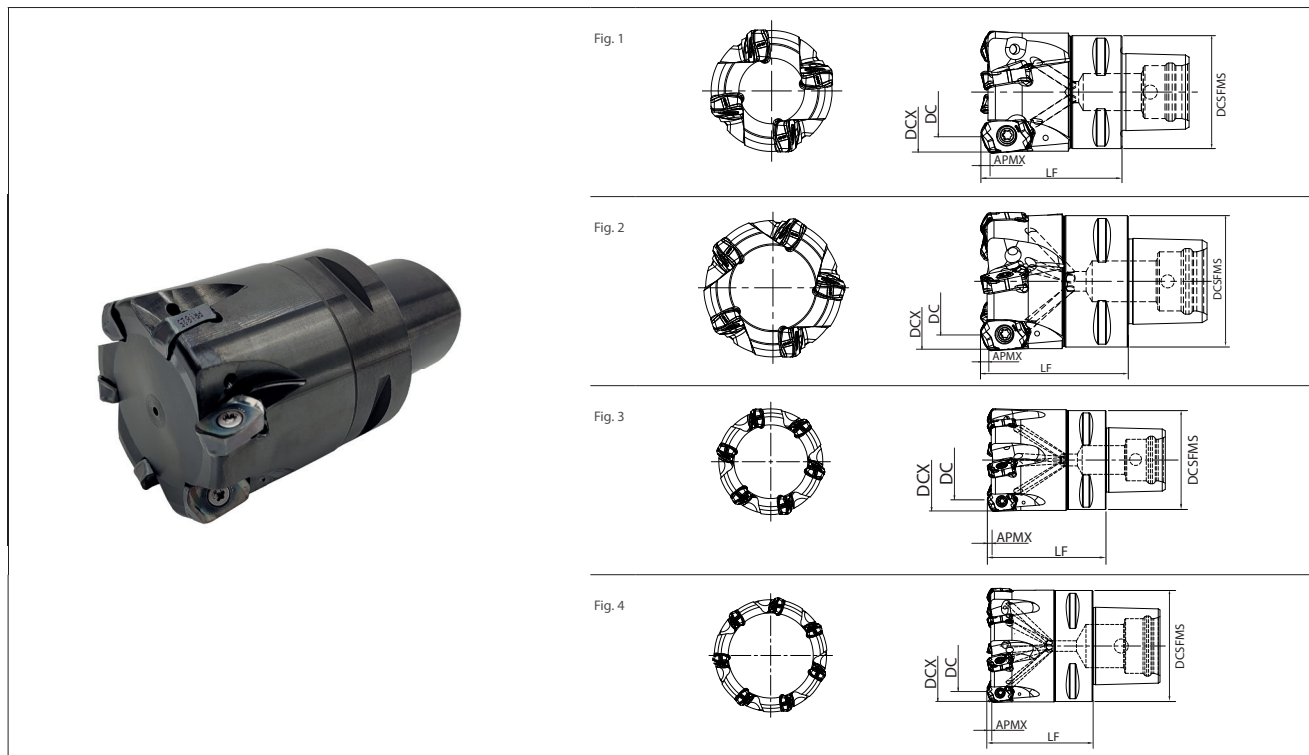
● : Available

MFH



The MFH series is a highly efficiency high feed cutter with convex cutting edge design to reduce chatter for increased chip evacuation. Large line-up from Ø8 to 160 mm to cover a wide application range for multiple metal working processes.

MFH Boost

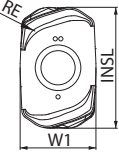


Toolholder dimensions

Description	Availability	No. of inserts	Size	Dimensions (mm)					Drawing	A.R.	Coolant hole
				DCX	DC	DCSFMS	LF	APMX			
MFH 36-04-4T-C3-KUA	●	4	C3	ø36	ø25	ø32	40	2.5	Fig. 1	-10°	Yes
MFH 44-04-5T-C4-KUA	●	5	C4	ø44	ø33	ø40	45		Fig. 2		
MFH 54-04-6T-C5-KUA	●	6	C5	ø54	ø43	ø50	60		Fig. 3		
MFH 66-04-7T-C6-KUA	●	7	C6	ø66	ø55	ø63			Fig. 4		

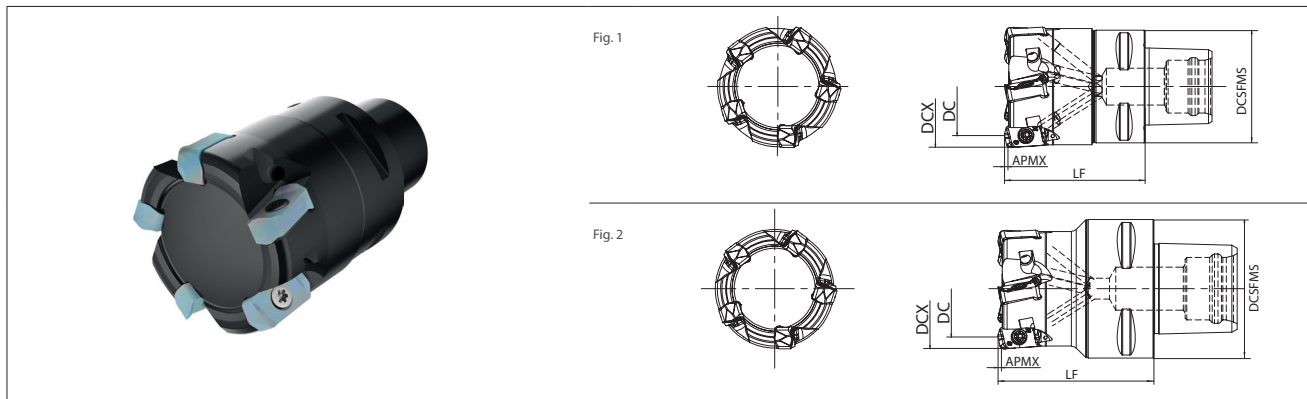
● : Available

Applicable inserts

Shape	Description	Dimensions (mm)					MEGACOAT NANO			CVD Coating	MEGACOAT NANO EX		
		W1	S	D1	INSL	RE	PR1510	PR1525	PR1535	CA6535	PR1810	PR1825	PR1835
 4-edge, Double-sided insert	 LOMU 040410ER-GM	9.1	4.4	4.1	14.5	1.0	●	●	●	●	●	●	●

● : Available

MFH Mini

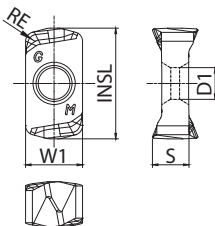
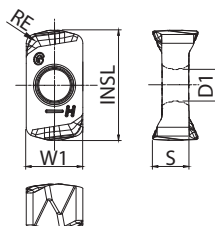


Toolholder dimensions

Description	Availability	No. of inserts	Size	Dimensions (mm)					Drawing	A.R.	Coolant hole
				DCX	DC	DCSFMS	LF	APMX			
MFH 36-03-5T-C3-KUA	●	5	C3	ø36	ø28	ø32	40	1	Fig. 1	—10°	Yes
MFH 36-03-5T-C4-KUA	●	5	C4			ø40	45		Fig. 2		
MFH 42-03-6T-C4-KUA	●	6	C4	ø42	ø34	ø40	45		-		
MFH 42-03-6T-C5-KUA	●	6	C5			ø50	50				
MFH 52-03-8T-C5-KUA	●	8	C5	ø52	ø44	ø50	55				
MFH 52-03-8T-C6-KUA	●	8	C6			ø63	60				
MFH 66-03-10T-C5-KUA	●	10	C5	ø66	ø58	ø50	55				
MFH 66-03-10T-C6-KUA	●	10	C6			ø63	60				

● : Available

Applicable inserts

Insert		Description	Dimensions (mm)					MEGACOAT NANO			MEGACOAT HARD	CVD coated carbide	MEGACOAT NANO EX		
			W1	S	D1	INSL	RE	PR1510	PR1525	PR1535	PR015S	CA6535	PR1810	PR1825	PR1835
		LOGU030310ER-GM	6.2	3.96	3.45	11.9	1.0	●	●	●	—	●	●	●	●
General purpose															
		LOGU030310ER-GH	6.2	3.96	3.45	11.9	1.0	●	●	●	●	—	●	●	●
Tough edge															

● : Available

Polygon taper shank

with high rigidity and high precision.

