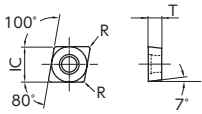
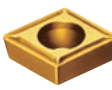
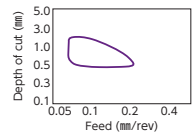
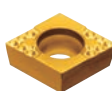
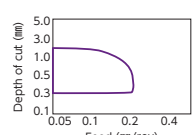

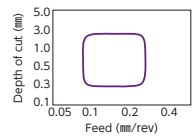
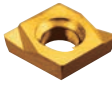
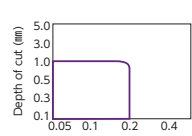
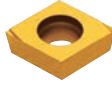
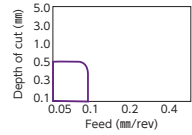


<80 degree Rhombic Positive type>

Item Number	IC	T	Relief angle
CC_0602	6.35	2.38	7°
CC_09T3	9.525	3.97	7°

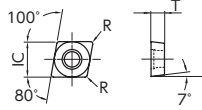
Shape	ISO Item Number	Inch Item Number	R	Carbide											Chip Control Range	For applicable holder, see pages:			
				PVD Coated							CVD Coated								
				ST4	ZM3	QM3	VM1	TM4	DT4	DM4	CP1	CP7	KM1						
				Steel	P	●	●	●	●	●	●	●	●	●	●	●	●	●	● : 1st Choice ● : 2nd choice
				Stainless Steel	M	●	●	●	●	●	●	●	●	●	●	●			
				Cast Iron	K	●	●	●	●	●	●	●	●	●	●	●	●		
				Non-Ferrous Material	N	●	●	●	●	●	●	●	●	●	●	●	●		
				Heat Resistant Alloy	S	●	●	●	●	●	●	●	●	●	●	●	●		
				Hardened Material	H	●	●	●	●	●	●	●	●	●	●	●	●		
 AM3	CCGT 060200 FN AM3		0.03						●	●									
	060202 FN AM3		0.2		●			●											
	060204 FN AM3		0.4		●														
	060201M FN AM3		*0.08	●		●			●	●									
	060202M FN AM3		*0.18	●		●			●	●									
	060204M FN AM3		*0.38	●		●			●	●									
	CCGT 09T300 FN AM3		0.03					●	●	●									
	09T302 FN AM3		0.2					●	●	●									
	09T304 FN AM3		0.4					●	●	●									
	09T301M FN AM3		*0.08	●	●	●	●	●	●	●									
	09T302M FN AM3		*0.18	●	●	●	●	●	●	●									
	09T304M FN AM3		*0.38	●	●	●	●	●	●	●									
 AZ7	CCGT 060200 AZ7		0.03			●												G23 K28	
	060201M AZ7		*0.08			●													
	060202M AZ7		*0.18				●												
	CCGT 09T300 AZ7		0.03		●	●		●	●										
	09T301M AZ7		*0.08		●	●		●	●										
	09T302M AZ7		*0.18		●	●		●	●										
 AZ8	CCMT 060202 ENA AZ8		0.2																
	060204 ENB AZ8		0.4																
	060208 ENB AZ8		0.8																
	CCMT 09T302 ENA AZ8		0.2																
	09T304 ENB AZ8		0.4																
 F1 R-hand shown	CCGT 060201 F _{R/L} F1		0.1	R		R		R											
	060202 F _{R/L} F1		0.2	R		R		R											
	060204 F _{R/L} F1		0.4	R		R		R											
	CCGT 09T302 F _{R/L} F1		0.2	R		R		R											
	09T304 F _{R/L} F1		0.4	R		R		R											
 KHG	CCET 0602005 F _{R/L} KHG		0.05				●												
	0602008 F _{R/L} KHG		0.08				●												
	0602018 F _{R/L} KHG		0.18					●											
	060202 F _{R/L} KHG		0.2					●											
	CCET 09T3005 F _{R/L} KHG		0.05				●	R											
	09T3008 F _{R/L} KHG		0.08				●	R											
	09T3018 F _{R/L} KHG		0.18				●	R											
09T302 F _{R/L} KHG		0.2				●	R												

*Inserts having 01M, 02M or 04M as the R code can be used for machining when the component drawing specifies that the radius is less than R=0.1, R=0.2 or R=0.4 respectively.

● : Standard stock ● : New standard stock ■ : Scheduled to be produced by order ★ : Standard stock (Specified)

<80 degree Rhombic Positive type>

Item Number	IC	T	Relief angle
CC_0602	6.35	2.38	7°
CC_09T3	9.525	3.97	7°



Material	P	M	K	N	S	H
Steel	●	●	●	●	●	●
Stainless Steel	●	●	●	●	●	●
Cast Iron	●	●	●	●	●	●
Non-Ferrous Material	●	●	●	●	●	●
Heat Resistant Alloy	●	●	●	●	●	●
Hardened Material	●	●	●	●	●	●

● : 1st Choice
● : 2nd choice

Shape	ISO Item Number	Inch Item Number	R	Carbide										Chip Control Range	For applicable holder, see pages:		
				PVD Coated						CVD Coated							
				ST4	ZM3	QM3	VM1	TM4	DT4	DM4	CP1	CP7	KM1				
	CCGT 060200	R/4 S	0.03	●	●	●	●	●	●	●	●						
	060201	R/4 S	0.1	●	●	●	●	●	●	●	●						
	060202	R/4 S	0.2	●	●	●	●	●	●	●	●						
	060201M	R/4 S	*0.08		R				R								
	060202M	R/4 S	*0.18		R				R								
	CCGT 09T300	R/4 S	0.03	R	●		R	R									
	09T301	R/4 S	0.1	●	R	●											
	09T302	R/4 S	0.2	R	R	●											
	09T304	R/4 S	0.4	R													
	09T301M	R/4 S	*0.08		R		R	R									
09T302M	R/4 S	*0.18		R		R	R										
09T304M	R/4 S	*0.38		R		R	R										
	CCGT 060200	R/4 U	0.03		R				R								
	060201	R/4 U	0.1	●				R									
	060202	R/4 U	0.2	●				R									
	CCGT 09T300	R/4 U1	0.03	●				R	R								
	09T301	R/4 U1	0.1	●				R	R								
	09T302	R/4 U1	0.2	●				R	R								
09T304	R/4 U1	0.4	●				R	R									
	CCGT 060201M	CL	*0.08	●	●	●	●	●	●	●	●					G23 K28	
	060202M	CL	*0.18	●	●	●	●	●	●	●	●						
	09T300	CL	0.03					●	●								
	09T301M	CL	*0.08	●	●	●	●	●	●	●	●						
	09T302M	CL	*0.18	●	●	●	●	●	●	●	●						
09T304M	CL	*0.38	●	●	●	●	●	●	●	●							
	CCGT 09T300	YL	0.03					●	●								
	09T301M	YL	0.08	●	●	●	●	●	●	●							
	09T302M	YL	0.18	●	●	●	●	●	●	●							
	09T304M	YL	0.38	●	●	●	●	●	●	●							
	09T308M	YL	0.78	●	●	●	●	●	●	●							
	CCGW 060200	FN	0.03	●													
	060201	FN	0.1	●													
	060200	H (M)	0.03									●					
	060201	H (M)	0.1									●					
	060202	H (M)	0.2									●					
	CCGW 09T300	FN	0.03	●													
	09T301	FN	0.1	●													
	09T300	H (M)	0.03									●					
	09T301	H (M)	0.1									●					
	09T302	H (M)	0.2									●					
	09T302M	P (M)	*0.18							●							
	09T30	V (M)	0.0					●									
09T301	P (M)	0.1					●										
09T302	P (M)	0.2					●										

* Inserts having 01M, 02M or 04M as the R code can be used for machining when the component drawing specifies that the radius is less than R=0.1, R=0.2 or R=0.4 respectively.
 ● : Standard stock ● : New standard stock ■ : Scheduled to be produced by order ★ : Standard stock (Specified)
 ※2 The specifications of CL chipbreaker are slightly different from the above dimensions, but it has no problem for machining.

<80 degree Rhombic Positive type>

Item Number	IC	T	Relief angle
CP_0401	4.76	1.59	11°
CP_0602	6.35	2.38	11°

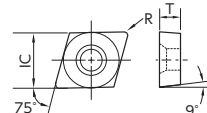
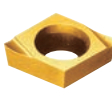
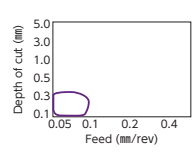
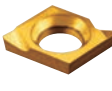
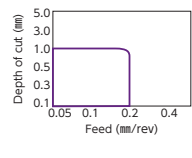
Item Number	IC	T	Relief angle
CP_0802	7.94	2.38	11°
CP_0903	9.525	3.18	11°

Shape	ISO Item Number	Inch Item Number	R	Carbide										Chip Control Range	For applicable holder, see pages:		
				PVD Coated						CVD Coated							
				ST4	ZM3	QM3	VM1	TM4	DT4	DM4	CP1	CP7	KM1				
				Steel	P	●	●	●	●	●	●	●	●	●	●	●	● : 1st Choice ● : 2nd choice
				Stainless Steel	M	●	●	●	●	●	●	●	●	●			
				Cast Iron	K	●	●	●	●	●	●	●	●	●			
				Non-Ferrous Material	N	●	●	●	●	●	●	●	●	●			
				Heat Resistant Alloy	S	●	●	●	●	●	●	●	●	●			
				Hardened Material	H	●	●	●	●	●	●	●	●	●			
 AM5	CPGH 060202 FN AM5	CPGP83Y-FN--AM5	0.2	●			●										
	CPGH 080202 FN AM5	CPGP03Y-FN--AM5	0.2	●			●										
	CPGH 090302 FN AM5	CPGM32Y-FN--AM5	0.2	●			●										
	090304 FN AM5	321-FN--AM5	0.4	●			●										
	090308 FN AM5	322-FN--AM5	0.8	●			●										
 A · A1 L-hand shown	CPGH 040102 F _{R/L} A1	CPGP62Y-F _{R/L} --A1	0.2	L			L										
	040104 F _{R/L} A1	621-F _{R/L} --A1	0.4	L			L										
	CPGH 060202 F _{R/L} A	CPGP83Y-F _{R/L} --A	0.2	L			L										
	060204 F _{R/L} A	831-F _{R/L} --A	0.4	L			L										
	CPGH 080202 F _{R/L} A	CPGP03Y-F _{R/L} --A	0.2	L			L										
 F1 R-hand shown	CPGH 040101 F _{R/L} F1		0.1	R			R										
	040102 F _{R/L} F1		0.2	R			R										
	040104 F _{R/L} F1		0.4	R			R										
	CPGH 060202 F _{R/L} F1		0.2	R			R										
	060204 F _{R/L} F1		0.4	R			R										
 S L-hand shown	CPGH 040101 _{R/L} S		0.1				L			L							
	040102 _{R/L} S		0.2				L			L							
	040104 _{R/L} S		0.4				L			L							
	CPGH 060202 _{R/L} S		0.2				L			L							
	060204 _{R/L} S		0.4				L			L							

● : Standard stock ● : New standard stock ■ : Scheduled to be produced by order ★ : Standard stock (Specified)

<75 degree Rhombic Positive type>

Item Number	IC	T	Relief angle
ER_T301	3.97	1.59	9°

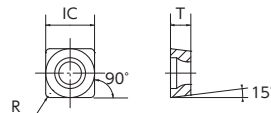

Shape	ISO Item Number	Inch Item Number	R	Carbide										Chip Control Range	For applicable holder, see pages:																																																																																										
				PVD Coated					CVD Coated																																																																																																
				ST4	ZM3	QM3	VM1	TM4	DT4	DM4	CP1	CP7	KM1																																																																																												
 <table border="1"> <tr><td>Steel</td><td>P</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>Stainless Steel</td><td>M</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>Cast Iron</td><td>K</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>Non-Ferrous Material</td><td>N</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>Heat Resistant Alloy</td><td>S</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>Hardened Material</td><td>H</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> </table>				Steel	P	●	●	●	●	●	●	●	●	●	●	●	●	●	Stainless Steel	M	●	●	●	●	●	●	●	●	●	●	●	●	●	Cast Iron	K	●	●	●	●	●	●	●	●	●	●	●	●	●	Non-Ferrous Material	N	●	●	●	●	●	●	●	●	●	●	●	●	●	Heat Resistant Alloy	S	●	●	●	●	●	●	●	●	●	●	●	●	●	Hardened Material	H	●	●	●	●	●	●	●	●	●	●	●	●	●	<p>● : 1st Choice ● : 2nd choice</p>											
Steel	P	●	●	●	●	●	●	●	●	●	●	●	●	●																																																																																											
Stainless Steel	M	●	●	●	●	●	●	●	●	●	●	●	●	●																																																																																											
Cast Iron	K	●	●	●	●	●	●	●	●	●	●	●	●	●																																																																																											
Non-Ferrous Material	N	●	●	●	●	●	●	●	●	●	●	●	●	●																																																																																											
Heat Resistant Alloy	S	●	●	●	●	●	●	●	●	●	●	●	●	●																																																																																											
Hardened Material	H	●	●	●	●	●	●	●	●	●	●	●	●	●																																																																																											
 A2 R-hand shown	ERGH T30102 F_{R/L} A2	ERGP52Y-F_{R/L}--A2	0.2	●			■	●										K27																																																																																							
	T30104 F_{R/L} A2	521-F_{R/L}--A2	0.4	L				●																																																																																																	
 F1 ※ R-hand shown	ERGH T30101 F_{R/L} F1	—	0.1	R		R		R										K27																																																																																							
	T30102 F_{R/L} F1	—	0.2	R		R		R																																																																																																	
	T30104 F_{R/L} F1	—	0.4	R		R		R																																																																																																	

※For F05, F1 and FG chipbreaker, right-hand inserts fit to right-hand toolholder.

● : Standard stock ● : New standard stock ■ : Scheduled to be produced by order ★ : Standard stock (Specified)

<90 degree Square Positive type>

Item Number	IC	T	Relief angle
SD_0602	6.35	2.38	15°

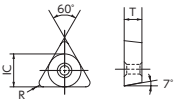

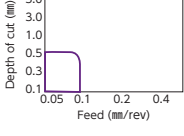

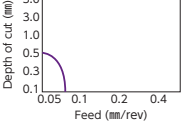

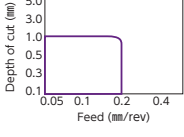
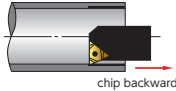

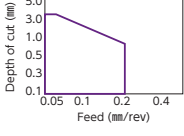

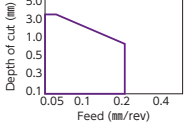


Shape	ISO Item Number	Inch Item Number	R	Carbide										Chip Control Range	For applicable holder, see pages:																																																																																										
				PVD Coated					CVD Coated																																																																																																
				ST4	ZM3	QM3	VM1	TM4	DT4	DM4	CP1	CP7	KM1																																																																																												
 <table border="1"> <tr><td>Steel</td><td>P</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>Stainless Steel</td><td>M</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>Cast Iron</td><td>K</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>Non-Ferrous Material</td><td>N</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>Heat Resistant Alloy</td><td>S</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>Hardened Material</td><td>H</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> </table>				Steel	P	●	●	●	●	●	●	●	●	●	●	●	●	●	Stainless Steel	M	●	●	●	●	●	●	●	●	●	●	●	●	●	Cast Iron	K	●	●	●	●	●	●	●	●	●	●	●	●	●	Non-Ferrous Material	N	●	●	●	●	●	●	●	●	●	●	●	●	●	Heat Resistant Alloy	S	●	●	●	●	●	●	●	●	●	●	●	●	●	Hardened Material	H	●	●	●	●	●	●	●	●	●	●	●	●	●	<p>● : 1st Choice ● : 2nd choice</p>											
Steel	P	●	●	●	●	●	●	●	●	●	●	●	●	●																																																																																											
Stainless Steel	M	●	●	●	●	●	●	●	●	●	●	●	●	●																																																																																											
Cast Iron	K	●	●	●	●	●	●	●	●	●	●	●	●	●																																																																																											
Non-Ferrous Material	N	●	●	●	●	●	●	●	●	●	●	●	●	●																																																																																											
Heat Resistant Alloy	S	●	●	●	●	●	●	●	●	●	●	●	●	●																																																																																											
Hardened Material	H	●	●	●	●	●	●	●	●	●	●	●	●	●																																																																																											
 without chipbreaker	SDEW 060202 FN		0.2	●																																																																																																					

● : Standard stock ● : New standard stock ■ : Scheduled to be produced by order ★ : Standard stock (Specified)

<60 degree Triangle Positive type>

Item Number	IC	T	Relief angle
TC_0601	3.97	1.59	7°
TC_06T1	3.97	1.98	7°

Item Number	IC	T	Relief angle
TC_0902	5.56	2.38	7°
TC_1102	6.35	2.38	7°

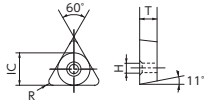

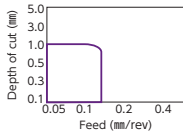
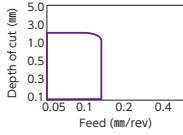

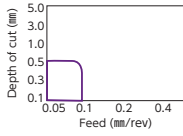

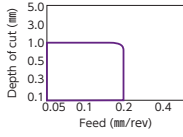
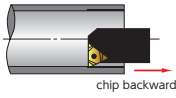

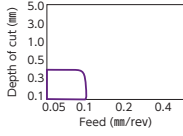
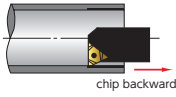
Shape	ISO Item Number	Inch Item Number	R	Carbide										Chip Control Range	For applicable holder, see pages:			
				PVD Coated						CVD Coated								
				ST4	ZM3	QM3	VM1	TM4	DT4	DM4	CP1	CP7	KM1					
				Steel	P	●	●	●	●	●	●	●	●	●	●	●	●	● : 1st Choice ● : 2nd choice
				Stainless Steel	M	●	●	●	●	●	●	●	●	●	●	●		
				Cast Iron	K	●	●	●	●	●	●	●	●	●	●	●		
				Non-Ferrous Material	N	●	●	●	●	●	●	●	●	●	●	●		
				Heat Resistant Alloy	S	●	●	●	●	●	●	●	●	●	●	●		
				Hardened Material	H	●	●	●	●	●	●	●	●	●	●	●		
	TCGH 060102 F _{R/L} K		0.2							L								
K L-hand shown	060104 F _{R/L} K		0.4							L								
	TCGH 060102 F _{R/L} B1	TCGP52Y-F _{R/L} -B1	0.2		L					L								
B1 L-hand shown	060104 F _{R/L} B1	521-F _{R/L} -B1	0.4		L					L								
	TCGH 060101 F _{R/L} F05	TCGP521CF _{R/L} -F05	0.1	R		R				R							 	
F05 ※ R-hand shown	060102 F _{R/L} F05	52Y-F _{R/L} -F05	0.2	R	●	R	■	●										
	060104 F _{R/L} F05	521-F _{R/L} -F05	0.4	R	R	R	■	R										
	TCGT 090201 R _L S		0.1		R		●											
S R-hand shown	090202 R _L S		0.2		R													
	TCGT 110201 R _L S		0.1		R		●											
	TCGT 090201 R _L U		0.1		R													
U R-hand shown	090202 R _L U		0.2		R													
	TCGW 06T108 FN		0.8			●												
without chipbreaker	TCGW 090200 FN		0.03			●												
	090201 FN		0.1			●												
	TCGW 110200 FN		0.03			●												
	110201 FN		0.1			●												

※For F05 chipbreaker, right-hand inserts fit to right-hand toolholder.

● : Standard stock ● : New standard stock ■ : Scheduled to be produced by order ★ : Standard stock (Specified)

<60 degree Triangle Positive type>

Item Number	IC	T	Relief angle
TP_0802	4.76	2.38	11°
TP_0902	5.56	2.38	11°
TP_1103	6.35	3.18	11°

Shape	ISO Item Number	Inch Item Number	R	Carbide										Chip Control Range	For applicable holder, see pages:		
				PVD Coated					CVD Coated								
				ST4	ZM3	QM3	VM1	TM4	DT4	DM4	CP1	CP7	KM1				
				Steel	P	●	●	●	●	●	●	●	●	●	●	●	● : 1st Choice ● : 2nd choice
				Stainless Steel	M	●	●	●	●	●	●	●	●	●	●		
				Cast Iron	K	●	●	●	●	●	●	●	●	●	●		
				Non-Ferrous Material	N	●	●	●	●	●	●	●	●	●	●		
				Heat Resistant Alloy	S	●	●	●	●	●	●	●	●	●	●		
				Hardened Material	H	●	●	●	●	●	●	●	●	●	●		
 B2 · B3 L-hand shown	TPGH 090202 F _{R/L} B2	TPGP73Y-F _{R/L} --B2	0.2		L				L								
	090204 F _{R/L} B2	731-F _{R/L} --B2	0.4		L				L								
	090208 F _{R/L} B2	732-F _{R/L} --B2	0.8		L				L								
	TPGH 080202 F _{R/L} B3	TPGP63Y-F _{R/L} --B3	0.2		L				L								
	080204 F _{R/L} B3	631-F _{R/L} --B3	0.4		L				L								
 K L-hand shown	TPGH 090202 F _{R/L} K		0.2						L								
	090204 F _{R/L} K		0.4						L								
	090208 F _{R/L} K		0.8						L								
 F1 ※ R-hand shown	TPGH 080202 F _{R/L} F1	TPGP63Y-F _{R/L} --F1	0.2		R			R	R						  chip backward		
	080204 F _{R/L} F1	631-F _{R/L} --F1	0.4		R			R	R								
	TPGH 090201 F _{R/L} F1	TPGP731CF _{R/L} --F1	0.1	R		R			R								
	090202 F _{R/L} F1	73Y-F _{R/L} --F1	0.2	R	R	R			R	R							
	090204 F _{R/L} F1	731-F _{R/L} --F1	0.4	R	R	R			R	R							
	090208 F _{R/L} F1	732-F _{R/L} --F1	0.8	R	R	R			R								
	TPGH 110302 F _{R/L} F1	TPGH22Y-F _{R/L} --F1	0.2	R	R	R			R	R							
110304 F _{R/L} F1	221-F _{R/L} --F1	0.4	R	R	R			R	R								
 FG ※ R-hand shown	TPGH 090202 F _{R/L} FG		0.2	R				R						  chip backward			
	090204 F _{R/L} FG		0.4	R				R									
	TPGH 110302 F _{R/L} FG		0.2	R				R									
	110304 F _{R/L} FG		0.4	R				R									

※For F1 and FG chipbreaker, right-hand inserts fit to right-hand toolholder. ● : Standard stock ● : New standard stock ■ : Scheduled to be produced by order ★ : Standard stock (Specified)

Tool List

LBM Series Minimum bore diameter 1.0mm~ 3.0mm

LBMA/LBMA-S

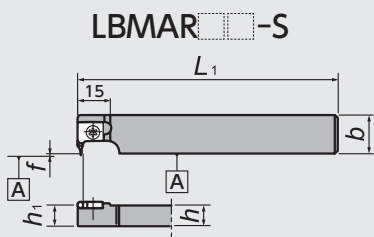


Figure-1

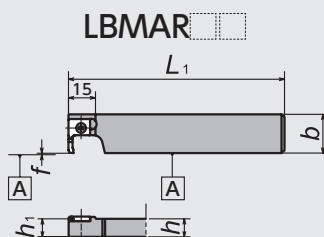


Figure-2

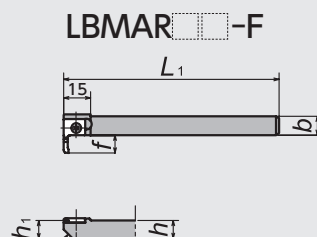


Figure-3

● Right-Hand style shown

CH-LBM

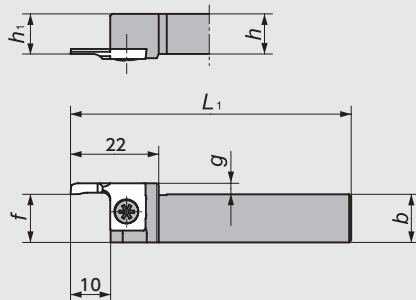
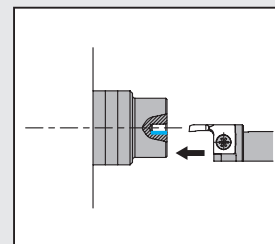


Figure-4



● Left-Hand style shown

DS-LBMB

(DS Holder)

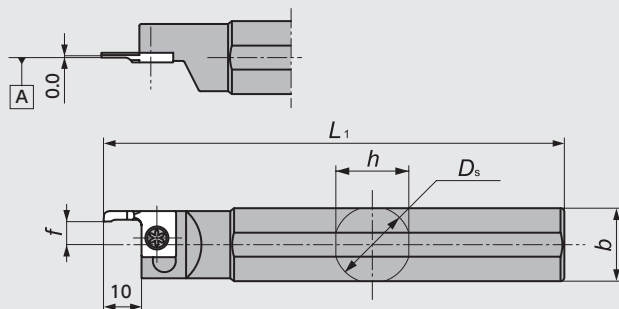
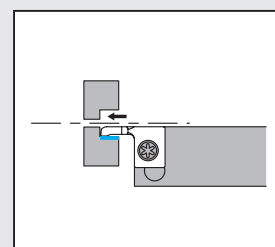


Figure-5



● Left-Hand style shown

LBM Series - Toolholders

Figure	Code No.	Item Number	Stock	Dimensions (mm)						Gage insert	Spare Parts	
				D_s	h	b	L_1	h_1	f		Clamp Screw	Wrench
1	5571435	LBMAR10SGX	●	—	10	18	85	10	0.0	Short Type K7	LRIS-4*10PW	CLR-15S (A)
	5486311	R10S	●	—	10		120	10				
	5486329	R12S	●	—	12		120	12				
2	5383476	LBMAR08	●	—	8	21.5	120	8	0.0 ※4	Short Type Long Type K7	LRIS-4*10	LLR-25S (B)
	5359849	R10	●	—	10			10				
	5362199	R12	●	—	12			12				
	5378278	R16	●	—	16			16				
3	5359831	LBMAR10-F	●	—	10	10.0	120	10	10.0※4	LRIS-4*12PW	CLR-15S (A)	
4	5659164	CH-LBML1012H	●	—	10	12	100※3	10	※1	LRIS-4*10PW	CLR-15S (A)	
	5659172	L1212H	●	—	12			12				
5	5359856	DS-LBMBL14F	●	14.000	13	13	80※3	—	※2	LRIS-4*10PW	CLR-15S (A)	
	5359914	L15H	●	15.875	15	15	100※3	—				
	5359906	L16X※5	●	16.000			95※3	—				
	5359898	L19	●	19.050	18	18	—	—				
	5359880	L20	●	20.000	19	19	—	—				
	5359872	L22※5	●	22.000	21	21	120※3	—				
	5483441	L25-MET	●	25.000	24	24	—	—				
	5393905	L25	●	25.400			150※3	—				

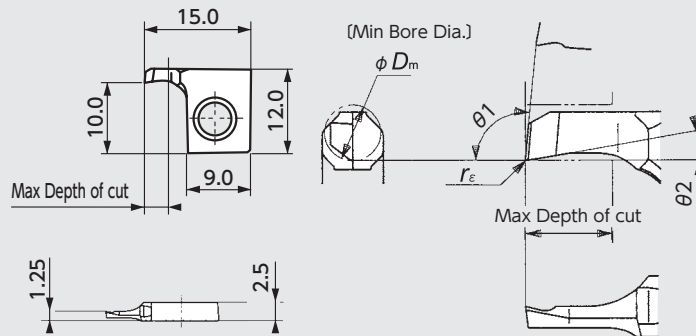
- ※1 With an insert having the min. machining diameter of $\phi 3 \rightarrow 12.75\text{mm}$ With an insert having any min. machining diameter than $\phi 3 \rightarrow 12.75\text{mm}$
- ※2 With an insert having the min. machining diameter of $\phi 3 \rightarrow 6.35\text{mm}$ With an insert having any min. machining diameter than $\phi 3 \rightarrow 6.75\text{mm}$
- ※3 With a short type insert mounted, the over all length(L_1) becomes reduced by approx. 4.0mm
- ※4 With a short type insert mounted, f dimension becomes reduced by approx. 4.0mm
- ※5 Compatible with 16mm / 22mm round shank DS Series holders. DS-Sleeve⇒

LBMD-S

Short type

Mirror finish

with chipbreaker



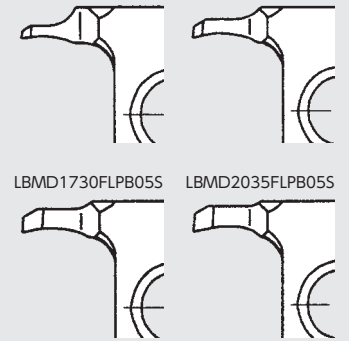
LBMD2335FLPB05S shown

LBMD1020FLPB05S

LBMD1430FLPB05S

LBMD1730FLPB05S

LBMD2035FLPB05S

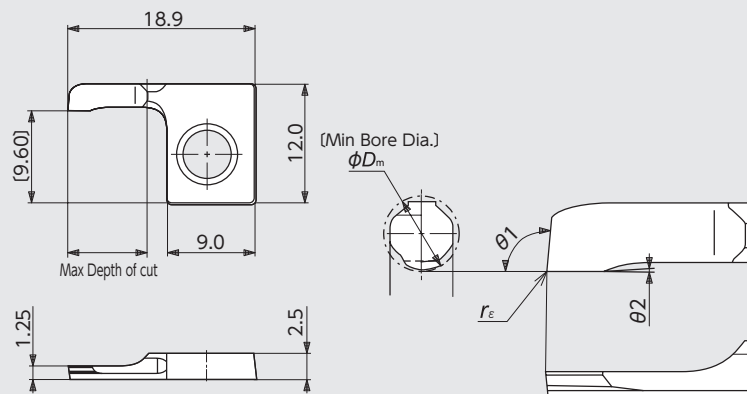


LBM

Long type

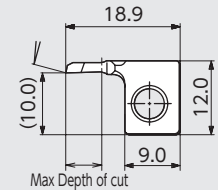
Mirror finish

without chipbreaker

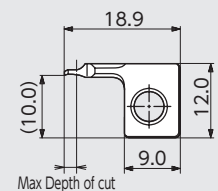


LBMC3080FLP05 shown

<Min. Bore Diameter 2.0mm>



<Min. Bore Diameter 1.0mm>



LBM Series - Inserts Mirror finish

Insert type	Item Number	Chip-breaker	Min Bore Dia. ϕD_m	Max. Depth of Cut	Dimensions (mm)			PVD Coated Carbide			
					$\theta 1$	$\theta 2$	r_ϵ	ZM3	Stock	VM1	Stock
Short type	LBMD1020FLVBS	Yes	$\phi 1.0$	2.0	95°	10°	0.00		5638150	●	
	1020FLPB05S						0.05		5486592	●	
	LBMD1430FLVBS		$\phi 1.4$	3.0			0.00		5529169	●	
	1430FLPB05S						0.05		5486600	●	
	LBMD1730FLVBS		$\phi 1.7$	3.0			0.00		5638143	●	
	1730FLPB05S						0.05		5486618	●	
	LBMD2035FLVBS		$\phi 2.0$	3.5			0.00		5638135	●	
	2035FLPB05S						0.05		5486626	●	
LBMD2335FLVBS	$\phi 2.3$	3.5	0.00		5638127	●					
2335FLPB05S			0.05		5486634	●					
Long type	LBMD1020FLVB	Yes	$\phi 1.0$	2.0	95°	10°	0.00		5433222	●	
	1020FLPB05						0.05		5433214	●	
	LBMD2060FLVB	No	$\phi 2.0$	6.0	105°		0.00		5421888	●	
	2060FLPB05						0.05		5421896	●	
	LBME2060FLV	Yes	$\phi 2.0$	6.0	105°		0.00		5421920	●	
	2060FLP05						0.05		5421938	●	
	2060FLVB	No	$\phi 2.0$	6.0	105°		0.00		5421904	●	
	2060FLPB05						0.05		5421912	●	
	LBMC3080FLV	Yes	$\phi 3.0$	8.0	95°	2°	0.00	5372834	●	5359799	●
	3080FLP05						0.05	5372826	●	5359807	●
	LBM3080FLVB	No	$\phi 3.0$	8.0	90°		0.00		5368030	●	
	3080FLPB05						0.05		5368048	●	
LBMC3080FLVB	Yes	$\phi 3.0$	8.0	95°		0.00	5372842	●	5359815	●	
3080FLPB05						0.05	5372859	●	5359823	●	

Tool List

STICK DUO - Sleeves for ID machining -

NBH Shank diameter ϕ 15.875 ~ 19.05

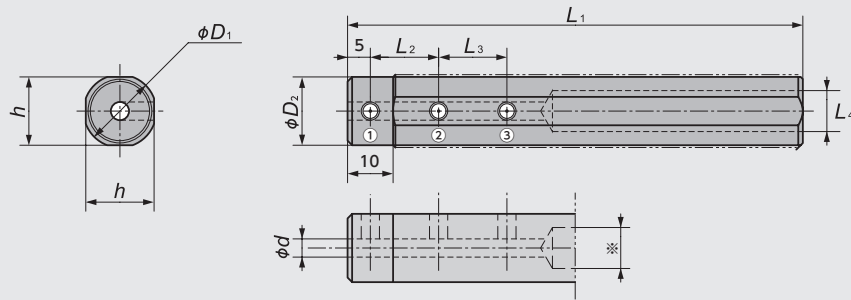


Figure-1

NBH Shank diameter ϕ 20.0 ~ 32.0

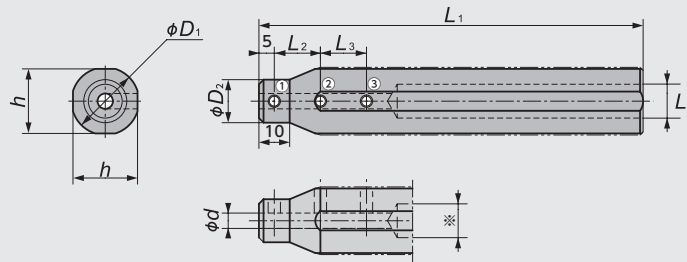


Figure-2

Figure	Code No.	Item Number	Stock	Dimensions (mm)								Clamp Screw			Wrench	
				ϕd	ϕD_1	ϕD_2	h	L_1	L_2	L_3	L_4	①	②	③		
1	5631403	NBH02015H	●	2.0	15.875	15	15	100	10	—	9.0	SS0406F	SS0406F	—	LW-2	
	5702915	02515H	●	2.5						10						—
	5631411	03015H	●	3.0												
	5586110	03515H	●	3.5					15	15						
	5586128	04015H	●	4.0							15	15				
	5585997	04515H	●	4.5									20	20		
	5585989	05015H	●	5.0					20	20						
	5585971	06015H	●	6.0							20	20				
	5585963	08015H	●	8.0					SS0403F	SS0403F			SS0403F			
	5631429	NBH02016H	●	2.0	16	15	15	100	10	—	9.0	SS0406F	SS0406F	—		
	5702899	02516H	●	2.5						10						—
	5631437	03016H	●	3.0												
	5586102	03516H	●	3.5					15	15						
	5586094	04016H	●	4.0							15	15				
	5586086	04516H	●	4.5									20	20		
5586078	05016H	●	5.0	20					20							
5586060	06016H	●	6.0							20	20					
5774195	07016H	●	7.0	SS0403F					SS0403F			SS0403F				
5586052	08016H	●	8.0	SS0403F	SS0403F	SS0403F										
5631445	NBH02019K	●	2.0	19.05	18	18	125	10	—	11.0	SS0408F	SS0408F	—			
5702907	02519K	●	2.5						10					—		
5631452	03019K	●	3.0												10	—
5586045	03519K	●	3.5					15	15							
5586037	04019K	●	4.0							15	15					
5586029	04519K	●	4.5									20	20			
5586011	05019K	●	5.0					20	20							
5586003	06019K	●	6.0							20	20					
5774203	07019K	●	7.0					SS0404F	SS0404F			SS0404F				
5586227	08019K	●	8.0					SS0403F	SS0403F	SS0403F						
5586219	10019K	●	10.0					SS0403F	SS0403F	SS0403F						

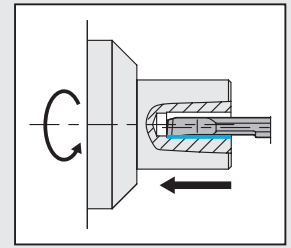
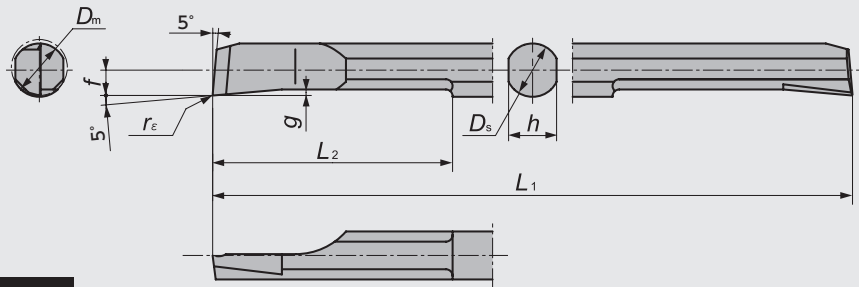
Figure	Code No.	Item Number	Stock	Dimensions (mm)								Clamp Screw			Wrench
				ϕd	ϕD_1	ϕD_2	h	L_1	L_2	L_3	L_4	①	②	③	
2	5631460	NBH02020K	●	2.0	20	11	19	125	15	15	11.0	SS0404F	SS0404F	SS0406F	LW-2
	5702881	02520K	●	2.5											
	5631478	03020K	●	3.0											
	5586201	03520K	●	3.5											
	5586185	04020K	●	4.0											
	5586177	04520K	●	4.5											
	5586169	05020K	●	5.0											
	5586151	06020K	●	6.0											
	5774211	07020K	●	7.0											
	5586144	08020K	●	8.0											
	5586136	10020K	●	10.0											
	5914742	12020K	●	12.0											
	5631486	NBH02022K	●	2.0	22	11	21	125	15	15	11.0	SS0404F	SS0406F	SS0406F	LW-2
	5702873	02522K	●	2.5											
	5631494	03022K	●	3.0											
	5586326	03522K	●	3.5											
	5586318	04022K	●	4.0											
	5586300	04522K	●	4.5											
	5586292	05022K	●	5.0											
	5586284	06022K	●	6.0											
	5774229	07022K	●	7.0											
	5586276	08022K	●	8.0											
	5586268	10022K	●	10.0											
	5631502	12022K	●	12.0											
	5631510	NBH02023K	●	2.0	23	11	21	125	15	15	11.0	SS0404F	SS0406F	SS0406F	LW-2
	5702857	02523K	●	2.5											
	5631528	03023K	●	3.0											
	5586250	03523K	●	3.5											
	5651336	04023K	●	4.0											
	5586243	04523K	●	4.5											
	5631536	05023K	●	5.0											
	5631544	06023K	●	6.0											
	5631551	08023K	●	8.0											
	5631569	10023K	●	10.0											
	5631577	12023K	●	12.0											
	5631585	NBH02025K-MET	●	2.0	25	11	24	125	15	15	11.0	SS0404F	SS0408F	SS0408F	LW-2
	5704283	02525K-MET	●	2.5											
	5631593	03025K-MET	●	3.0											
	5631601	03525K-MET	●	3.5											
	5651328	04025K-MET	●	4.0											
	5631619	04525K-MET	●	4.5											
	5631627	05025K-MET	●	5.0											
	5631635	06025K-MET	●	6.0											
	5774252	07025K-MET	●	7.0											
	5631643	08025K-MET	●	8.0											
	5631650	10025K-MET	●	10.0											
	5631668	12025K-MET	●	12.0											
	5631676	NBH02025K	●	2.0	25.4	11	24	125	15	15	11.0	SS0404F	SS0408F	SS0408F	LW-2
	5702865	02525K	●	2.5											
	5631684	03025K	●	3.0											
	5586235	03525K	●	3.5											
	5586383	04025K	●	4.0											
	5586375	04525K	●	4.5											
	5586367	05025K	●	5.0											
	5586359	06025K	●	6.0											
	5774260	07025K	●	7.0											
	5586342	08025K	●	8.0											
	5586334	10025K	●	10.0											
	5631692	12025K	●	12.0											
	5939475	NBH04532K	●	4.5	32.0	13	30	125	20.0	20.0	11.0	SS0404F	SS0408F	SS0408F	LW-2
	5939483	05032K	●	5.0											
	5939491	06032K	●	6.0											
	5939509	07032K	●	7.0											
	5939525	08032K	●	8.0											
	5939533	10032K	●	10.0											
	5939467	12032K	●	12.0											
	5939459	14032K	●	14.0											
	5939442	16032K	●	16.0											
											18.0				

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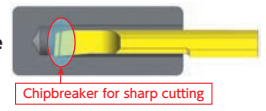
Tool List

Bars for STICK DUO

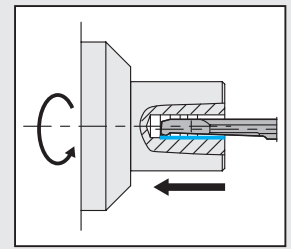
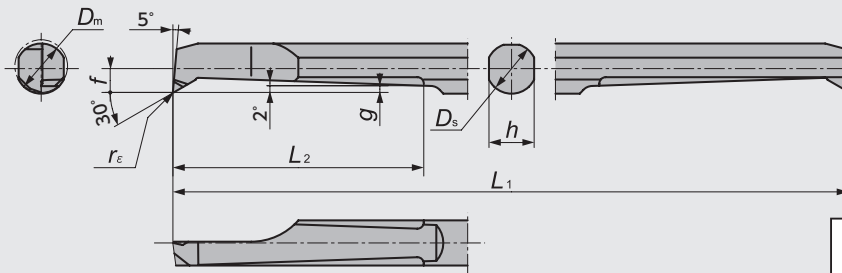
SBFS-S Chips can be evacuated forward



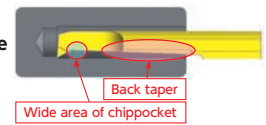
S.FS-S type



SBFB-F Evacuate chips backward

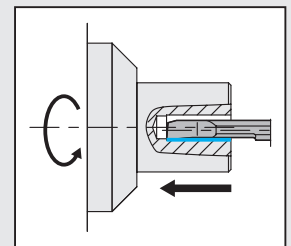
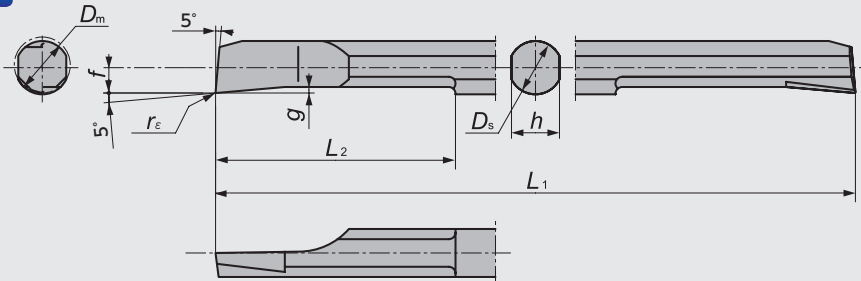


S.FB-F type



SBFS-H Flat type (without chipbreaker)

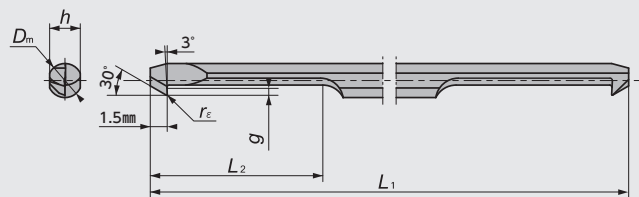
Mirror finish



SBB Series (ID Back Turning)

SBB (Minimum Bore Diameter 3.0mm)

Short type
two-sided



Long type
single-sided

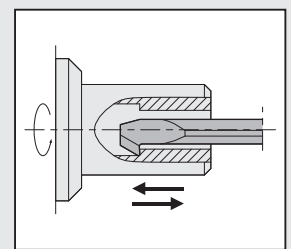
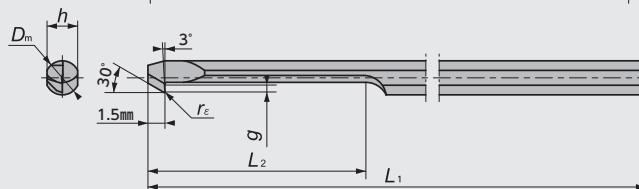

















Figure-4

Figure	Item Number	Min Bore Dia. (mm) D_m	Chip-breaker	Dimensions (mm)							PVD Coated Carbide			
				D_s	L_1	L_2	f	h	g	r_ϵ	DT4	Stock	ZM3	Stock
1	SBFS020R005S	2.2	Yes	2	50	10	0.9	1.8	0.25	0.05	5882907	●	5654975	●
	025R005S	2.7		2.5	50	12.5	1.15	2.3	0.30	0.05	5882881	●	5685995	●
	025R015S										0.15	5882873	●	5685987
	030R005S	3.2		3	50	15	1.4	2.7	0.40	0.05	5882865	●	5640891	●
	030R015S										0.15	5882857	●	5649165
	035R005S	3.7		3.5	60	17.5	1.65	3.2	0.40	0.05	5882840	●	5685888	●
	035R015S										0.15	5882832	●	5685979
	040R005S	4.2		4	60	20	1.9	3.6	0.45	0.05	5882824	●	5640867	●
	040R015S										0.15	5882816	●	5649140
	050R005S	5.2		5	70	25	2.4	4.5	0.50	0.05	5882808	●	5654983	●
	050R015S										0.15	5882790	●	5654991
	060R005S	6.2		6	80	30	2.9	5.4	0.60	0.05	5882782	●	5704861	●
060R015S	0.15		5882766								●	5704853	●	
2	SBFB020R005F	2.2	Yes	2	50	8	0.95	1.8	0.25	0.05	5882758	●	5658026	●
	025R005F	2.7		2.5	50	12.5	1.2	2.3	0.30	0.05	5882741	●	5685920	●
	025R015F										0.15	5882733	●	5685912
	030R005F	3.2		3	50	15	1.4	2.7	0.45	0.05	5882725	●	5640883	●
	030R015F										0.15	5882717	●	5649173
	035R005F	3.7		3.5	60	17.5	1.65	3.2	0.50	0.05	5882709	●	5685904	●
	035R015F										0.15	5882691	●	5685896
	040R005F	4.2		4	60	20	1.9	3.6	0.50	0.05	5882683	●	5640875	●
	040R015F										0.15	5882675	●	5649157
	050R005F	5.2		5	70	25	2.4	4.5	0.70	0.05	5882667	●	5655006	●
	050R015F										0.15	5882659	●	5655014
	060R005F	6.2		6	80	30	2.9	5.4	0.90	0.05	5882634	●	5704796	●
060R015F	0.15		5882626								●	5704812	●	
3	SBFS020R005H 	2.2	No	2	50	10	0.9	1.8	0.25	0.05			5674866	●
	025R005H 	2.7		2.5	50	12.5	1.15	2.3	0.30	0.05			5685961	●
	025R015H 										0.15			5685953
	030R005H 	3.2		3	50	15	1.4	2.7	0.40	0.05			5674874	●
	030R015H 										0.15			5674882
	035R005H 	3.7		3.5	60	17.5	1.65	3.2	0.40	0.05			5685946	●
	035R015H 										0.15			5685938
	040R005H 	4.2		4	60	20	1.9	3.6	0.45	0.05			5674890	●
	040R015H 										0.15			5674908
	050R005H 	5.2		5	70	25	2.4	4.5	0.50	0.05			5674924	●
	050R015H 										0.15			5674940
	060R005H 	6.2		6	80	30	2.9	5.4	0.60	0.05			5705207	●
060R015H 	0.15											5705199	●	
080R005H 	8.2	8	80	30	3.9	7.3	0.80	0.05			5705850	●		
080R015H 									0.15			5705843	●	
4 Short Type	SBB030RB005-S	3.0	Yes	3	50	15	1.3	2.7	0.50	0.05			5917067	●
	030RB010-S									0.1			5917042	●
	040RB005-S	4.0		4	60	18	1.8	3.6	0.80	0.05			5917414	●
	040RB015-S									0.15			5917372	●
4 Long Type	SBB030RB005	3.0	Yes	3	50	19	1.3	2.7	0.50	0.05			5917059	●
	030RB010									0.1			5917034	●
	040RB005	4.0		4	60	24	1.8	3.6	0.80	0.05			5917380	●
	040RB015									0.15			5917364	●

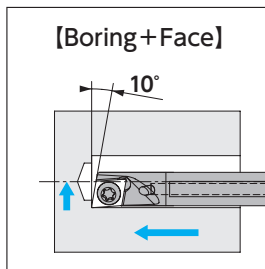
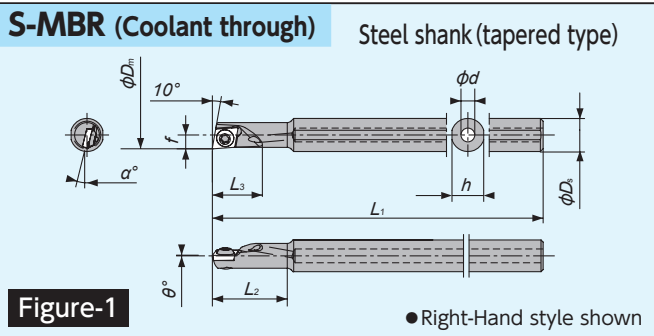
*Caution: Due to the tolerance, it might not fit into the holder which is made by other company.

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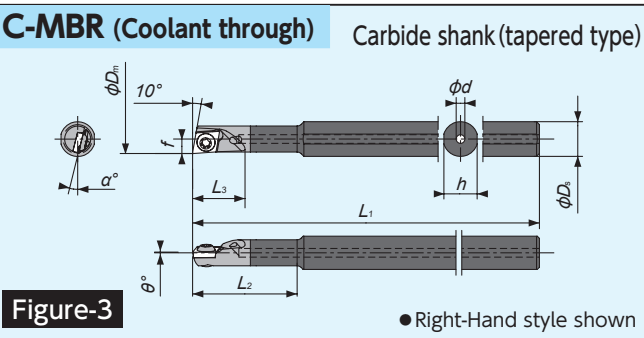
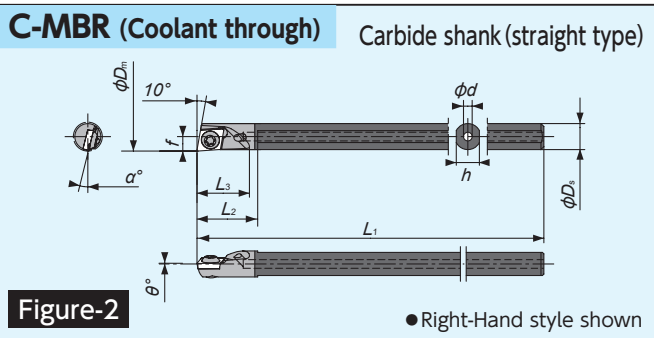
Tool List

Mogul Bar for 75° Diamond (MBL style)

Minimum Bore Diameter 5.0mm



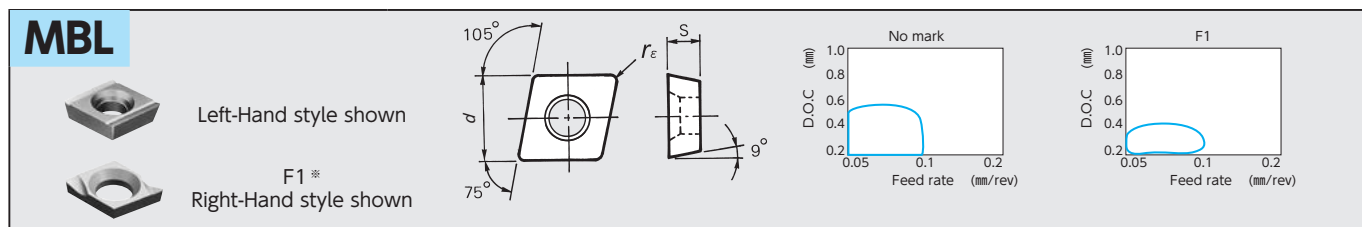
F1 chipbreakers evacuate chips BACKWARD (S-STUC style shown)



MBL style - Toolholders

Figure	Code No.	Item Number	Stock	Min Bore Dia. (mm) D_m	Dimensions (mm)								Std. corner radius (mm) r_ϵ	Gage insert	Spare Parts		
					ϕD_s	h	L_1	f	L_2	L_3	ϕd	θ			α	Clamp Screw	Wrench
1	5789888	S06F-MBRD05-OH	●	5.0	6.0	5.7				13.5		2.5			MBL	LR-5-2*3.5	CLR-13S
2	5789896	C045F-MBRD05-OH	●		4.5	4.0	80	2.5	-	9.0		1.5	0° - 13°	0.15			
3	5789904	C06F-MBRD05-OH	●		6.0	5.7											

MBL style - Insert



Item Number	Dimensions (mm)			PVD Coated Carbide							
	d	s	r_ϵ	ST4	Stock	ZM3	Stock	TM4	Stock	QM3	Stock
MBL005FL	3.6	1.0	0.05			5161252	●	5696018	●	5036884	●
MBL015FL			0.15			5161245	●	5696026	●	5168000	●
MBL005FRF1*	3.6	1.0	0.05	5038872	●			5789763	●	5036892	●
MBL015FRF1*			0.15	5038955	●			5789771	●	5933858	●

*F1 chipbreaker, right-hand inserts fit to right-hand toolholder
Note : F1 chipbreaker evacuates chips BACKWARD

Standard Bar for 75° Diamond (MBL style) Minimum Bore Diameter 5.0mm

C-MBR
Carbide shank (straight type)

Figure-1

● Right-Hand style shown

C-MBR
Carbide shank (tapered type)

Figure-2

● Right-Hand style shown

C-MSBR
Carbide shank (straight type)

Figure-3

● Right-Hand style shown

MBL style - Toolholders

Figure	Code No.	Item Number	Stock	Min Bore Dia. (mm) D_m	Max. shoulder height (mm) g	Dimensions (mm)*					Gage insert	Spare Parts	
						D_s	h	L_1	f	L_2		Clamp Screw	Wrench
1	5610175	C045F-MBR	●	5.0	—	4.5	4.0	80	2.5	—	MBL	LR-S-2 * 3.5	CLR-13S
2	5162706	C06F-MBR	●	5.0	—	6.0	5.5	80	2.5	18			
3	5161054	C04J-MSBR	●	5.7	1.0	4.0	3.5	110	3.2	—			
	5161047	C06J-MSBR	●	7.7		6.0	5.5		4.2	—			

* Std. corner radius $r_\epsilon = 0.15\text{mm}$

MBL style - Insert

MBL

Left-Hand style shown

Right-Hand style shown $F1^*$

Item Number	Dimensions (mm)			PVD Coated Carbide							
	d	s	r_ϵ	ST4	Stock	ZM3	Stock	TM4	Stock	QM3	Stock
MBL005FL	3.6	1.0	0.05			5161252	●	5696018	●	5036884	●
MBL015FL			0.15			5161245	●	5696026	●	5168000	●
MBL005FRF1*	3.6	1.0	0.05	5038872	●			5789763	●	5036892	●
MBL015FRF1*			0.15	5038955	●			5789771	●	5933858	●

※F1 chipbreaker, right-hand inserts fit to right-hand toolholder
Note : F1 chipbreaker evacuates chips BACKWARD

Mogul Bar for 75° Diamond (ERGP style)

Minimum Bore Diameter 6.0mm

S-SEXR (Coolant through)

Steel shank
(tapered type)

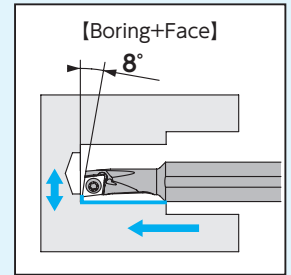
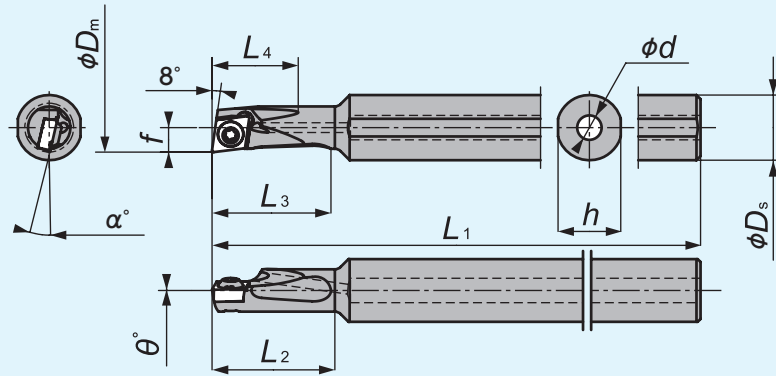


Figure-1

● Right-Hand style shown

C-SEXR (Coolant through)

Carbide shank
(straight type)

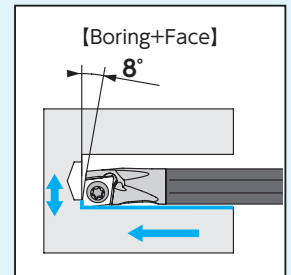
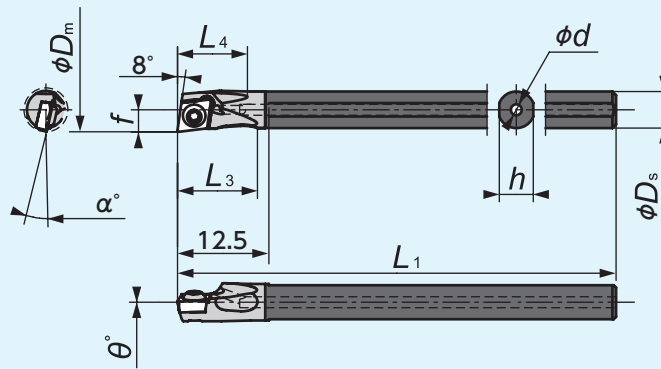


Figure-2

● Right-Hand style shown

C-SEXR (Coolant through)

Carbide shank
(tapered type)

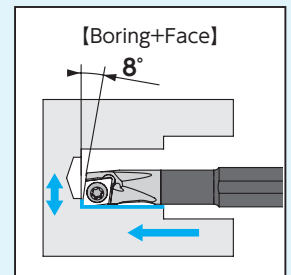
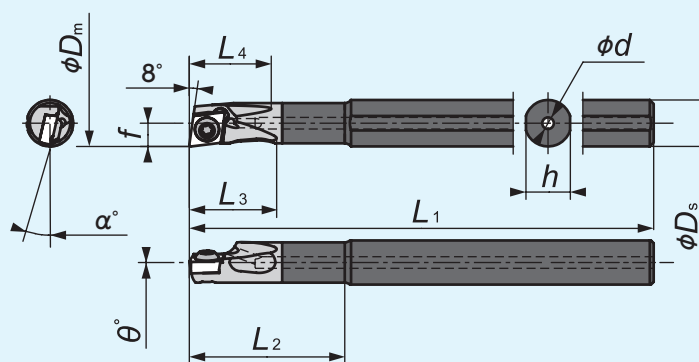


Figure-3

● Right-Hand style shown

Tool List

Mogul Bar for 80° Diamond (CC/CP style)

Minimum Bore Diameter 7.0mm

S-SCLP (C) (Coolant through)

Steel shank

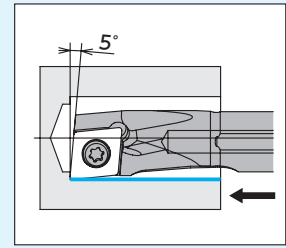
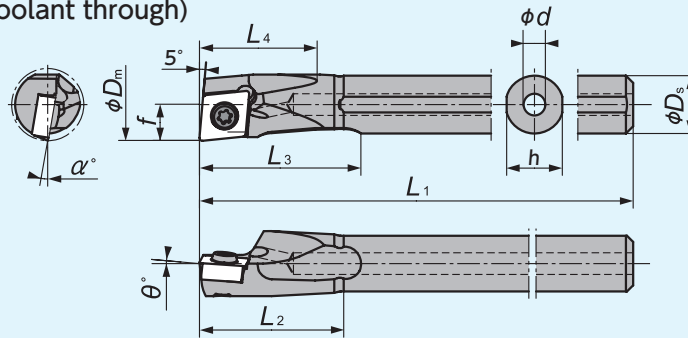


Figure-1

● Right-Hand style shown

C-SCLP (C) (Coolant through)

Carbide shank

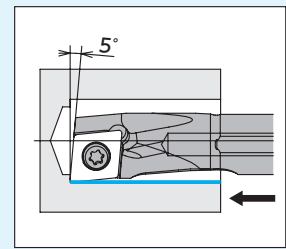
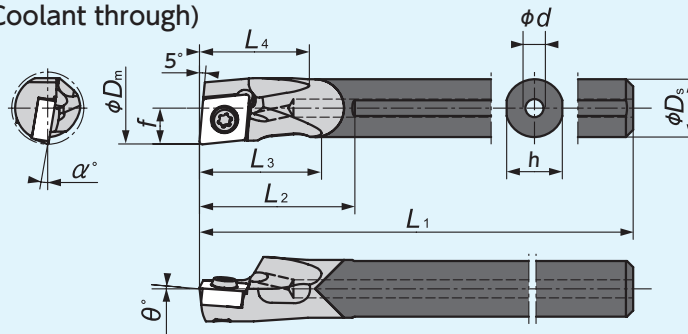


Figure-2

● Right-Hand style shown

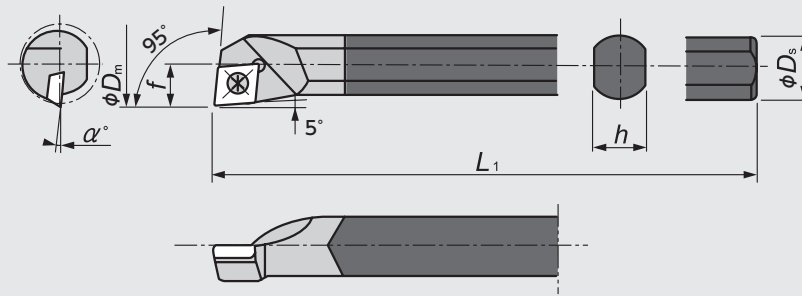
CC/CP style - Toolholders

Figure	Code No.		Item Number	Stock		Min Bore Dia. (mm) ϕD_m	Dimensions (mm)										Std. corner radius (mm)	Gage insert	Spare Parts	
	R	L		R	L		ϕD_s	h	L_1	f	L_2	L_3	L_4	ϕd	θ	α			Clamp Screw	Wrench
1	5770029		S06F-SCLP $\frac{R}{L}$ 04D07-OH	●		7.0	6.0	5.75	80	3.5	14	17	12	2.5		-9°	0.2	CPOO0401 E41	LR-S-2*3.7	CLR-13S (A)
	5770037		S07G-SCLP $\frac{R}{L}$ 04D08-OH	●		8.0	7.0	6.75	90	4.0	16	19.5	13.5	3.0	+5°	-7°				
	5770045		S08H-SCLP $\frac{R}{L}$ 06D10-OH	●		10.0	8.0	7.7	100	5.0	20	22	16	3.0		-10°	0.4	CPOO0602 E41	LR-S-2.5*6	CLR-15S (A)
	5770052		S08H-SCLC $\frac{R}{L}$ 06D10-OH	●		10.0	8.0	7.7	100	5.0	20	22	16	3.0		-13°	0.4	CCOO0602 E39~40	LRIS-2.5*5	CLR-15S (A)
	5770060		S10K-SCLC $\frac{R}{L}$ 06D12-OH	●		12.0	10.0	9.6	125	6.0	24	27.5	20	3.5		-11°				
	5770078		S12M-SCLC $\frac{R}{L}$ 06D14-OH	●		14.0	12.0	11.5	150	7.0	28	32.5	23	4.0	0°	-9°				
	5770086		S16Q-SCLC $\frac{R}{L}$ 09D18-OH	●		18.0	16.0	15.4	180	9.0	36	42.5	30	5.0		-10°		CCOO09T3 E39~40	LRIS-4*8	LLR-25S-20*6.5 (B)
2	5770136		C06H-SCLP $\frac{R}{L}$ 04D07-OH	●	●	7.0	6.0	5.75	100	3.5	15.5	11.5	12	2.0		-9°	0.2	CPOO0401 E41	LR-S-2*3.7	CLR-13S (A)
	5800495		C07J-SCLP $\frac{R}{L}$ 04D08-OH	●		8.0	7.0	6.75	110	4.0	17.5	13	13.5	2.0	+5°	-7°				
	5770169		C08K-SCLP $\frac{R}{L}$ 06D10-OH	●	●	10.0	8.0	7.7	125	5.0	21.5	16.5	15	2.5		-10°	0.4	CPOO0602 E41	LR-S-2.5*6	CLR-15S (A)
	5800503		C08K-SCLC $\frac{R}{L}$ 06D10-OH	●		10.0	8.0	7.7	125	5.0	21.5	16.5	15	2.5		-13°	0.4	CCOO0602 E39~40	LRIS-2.5*5	CLR-15S (A)
	5770185		C10M-SCLC $\frac{R}{L}$ 06D12-OH	●	●	12.0	10.0	9.6	150	6.0	25	20	19.5	2.5	0°	-11°				
	5770193		C12M-SCLC $\frac{R}{L}$ 06D14-OH	●		14.0	12.0	11.5	150	7.0	29	23.5	22.5	3.0		-9°				
	5800511		C12M-SCLC $\frac{R}{L}$ 06D14-OH	●		14.0	12.0	11.5	150	7.0	29	23.5	22.5	3.0		-9°				

Standard Bar for 80° Diamond (CP style) Minimum Bore Diameter 8.0mm



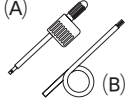

C-SCLP

Carbide shank



● Right-Hand style shown

CP style - Toolholders

Code No.	Item Number	Stock	Min Bore Dia. (mm) ϕD_m	Dimensions (mm)							Gage insert 	Spare Parts	
				ϕD_s	h	b	L_1	f	L_2	α		Clamp Screw 	Wrench (A)  (B) 
5853288	C06J-SCLPR-04-N	●	8.0	6.0	5.2		110	4.0		-6°	CP000401 E41	LR-S-2*4.4	CLR-13S (A)
5853296	C08K-SCLPR-06-N	●	10.0	8.0	7.0	—	125	5.0	—	-10°	CP000602 E41	LR-S-2.5*5.5	CLR-15S (A)
5853304	C10M-SCLPR-08-N	●	12.0	10.0	9.0		150	6.0		-6°	CPGH0802 E41	LR-S-3*6.2	RLR-20S (B)

Tool List

Mogul Bar for 60° Triangle (TC/TP style)

Minimum Bore Diameter 8.0mm

S-STUC (P) (Coolant through)

Steel shank

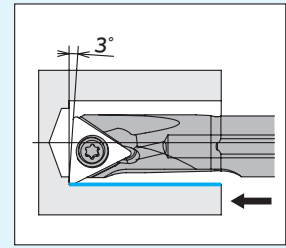
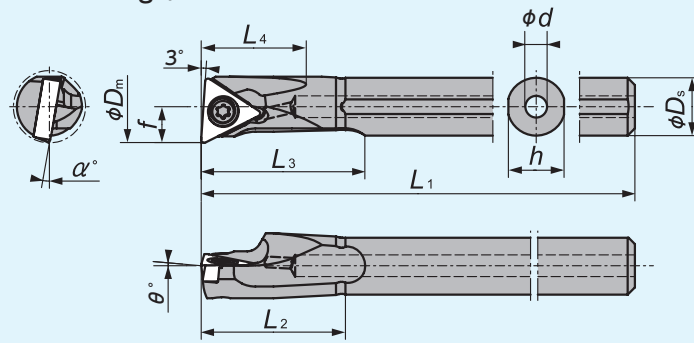


Figure-1

● Right-Hand style shown

C-STUC (P) (Coolant through)

Carbide shank

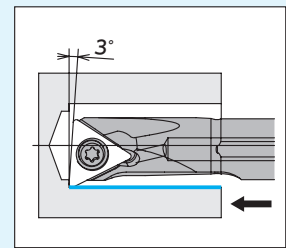
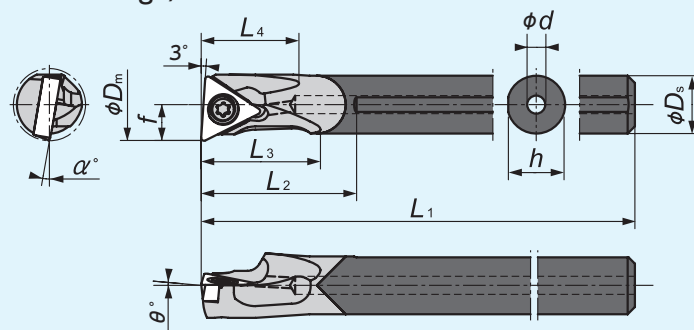


Figure-2

● Right-Hand style shown

TC/TP style - Toolholders

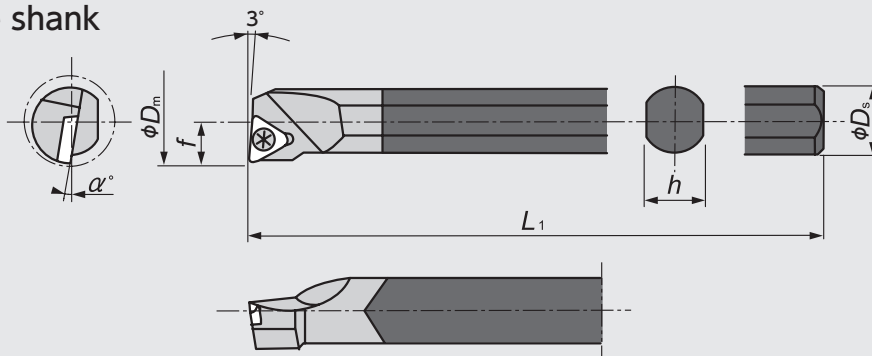
Figure	Code No.		Item Number	Stock		Min Bore Dia. (mm)	Dimensions (mm)										Std. corner radius (mm)	Gage insert	Spare Parts	
	R	L		R	L		ϕD_m	ϕD_s	h	L_1	f	L_2	L_3	L_4	ϕd	θ			α	Clamp Screw
1	5769971		S07G-STUC $\frac{1}{2}$ L06D08-OH	●		8.0	7.0	6.75	90	4.0	16.0	19.5	12.5	2.5	0°	-11°	0.2	TC \bigcirc 0601 E46	LR-S-2*4.4	CLR-13S (A)
	5769989		S08H-STUP $\frac{1}{2}$ L09D10-OH	●		10.0	8.0	7.7	100	5.0	20.0	22.5	14.5	3.0		-10°		TP \bigcirc 0902 E32~33.47	LR-S-2.5*4.8	CLR-15S (A)
	5769997		S10K-STUP $\frac{1}{2}$ L11D12-OH	●		12.0	10.0	9.6	125	6.0	24.0	27.5	18.5	3.5		-7.5°		TP \bigcirc 1103 E32~33.47	LR-S-3*5.8	RLR-20S (B)
	5770003		S12M-STUP $\frac{1}{2}$ L11D14-OH	●		14.0	12.0	11.5	150	7.0	28.0	32.5	22	4.0	+5°	-5°	0.4			
	5770011		S16Q-STUP $\frac{1}{2}$ L11D18-OH	●		18.0	16.0	15.4	180	9.0	32.0	42.5	28.5	5.0		-3°				
	5886817		S20Q-STUPR11D22-OH	●		22.0	20.0	19.4	180	11	40	46	38	5.0		-3°				
2	5770094 (R)		C07J-STUC $\frac{1}{2}$ L06D08-OH	●	●	8.0	7.0	6.75	110	4.0	17.5	13.0	12.5	2.0	0°	-11°	0.2	TC \bigcirc 0601 E46	LR-S-2*4.4	CLR-13S (A)
	5800529 (L)																			
	5770102 (R)		C08K-STUP $\frac{1}{2}$ L09D10-OH	●	●	10.0	8.0	7.7	125	5.0	21.5	16.5	14.5	2.5		-10°		TP \bigcirc 0902 E32~33.47	LR-S-2.5*4.8	CLR-15S (A)
	5800537 (L)																			
	5770110 (R)		C10M-STUP $\frac{1}{2}$ L11D12-OH	●	●	12.0	10.0	9.6	150	6.0	25.0	20.0	17.5	2.5	+5°	-7.5°	0.4	TP \bigcirc 1103 E32~33.47	LR-S-3*5.8	RLR-20S (B)
	5800545 (L)																			
	5770128		C12M-STUP $\frac{1}{2}$ L11D14-OH	●		14.0	12.0	11.5	150	7.0	29.0	23.0	21.5	3.0		-5°				
5821814		C16Q-STUP $\frac{1}{2}$ L11D18-OH	●		18.0	16.0	15.4	180	9.0	37.0	29.0	28.0	4.0		-3°					

Standard Bar for 60° Triangle (TC/TP style)

Minimum Bore Diameter 8.0mm

C-STUC(P)

Carbide shank



● Right-Hand style shown

TC/TP style - Toolholders

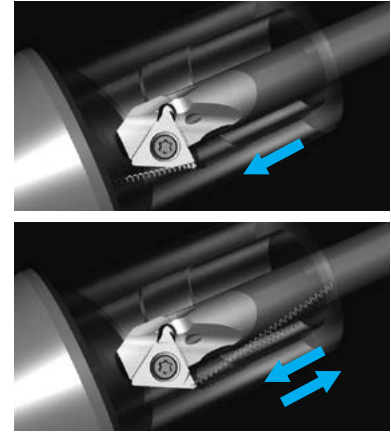
Code No.	Item Number	Stock	Min Bore Dia. (mm) ϕD_m	Dimensions (mm)*								Gage insert	Spare Parts	
				ϕD_s	h	b	L_1	f	L_2	g	α		Clamp Screw	Wrench
R		R												
5853247	C06J-STUCR-06-N	●	8.0	6.0	5.2		110	4.0			-10°	TC○○0601 E46	LR-S-2*3.7	CLR-13S
5853262	C08K-STUPR-08-N	●	10.0	8.0	7.0	—	125	5.0	—	—	-10°	TP○○0802 E47	LR-S-2*5.5	
5853270	C10M-STUPR-09-N	●	12.0	10.0	9.0		150	6.0			-7°	TP○○0902 E32~33 • 47	LR-S-2.5*6	CLR-15S

* Std. corner radius $r_e=0.2\text{mm}$

Anti vibration boring bar for internal backturning "C-STZP" type

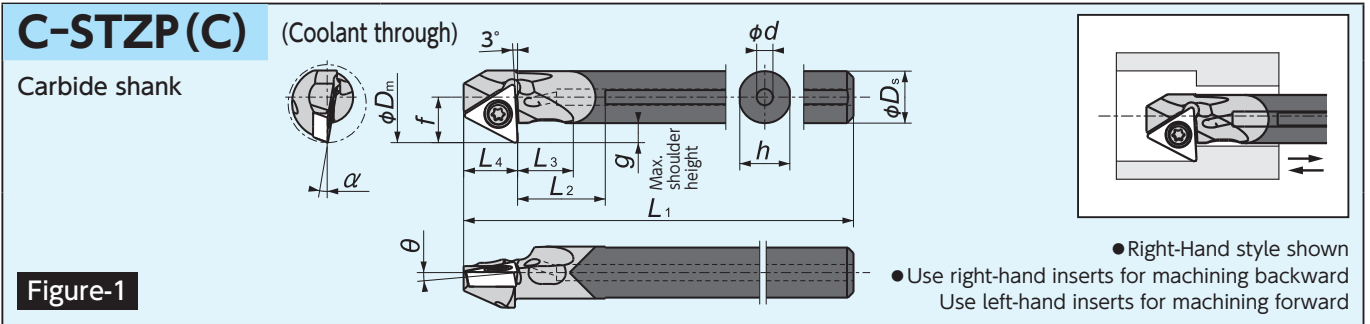
Prevent chattering with higher rigidity toolholder design
Higher rigidity toolholder offers max. machining length L/D ≤ 7

Both machining directions are available



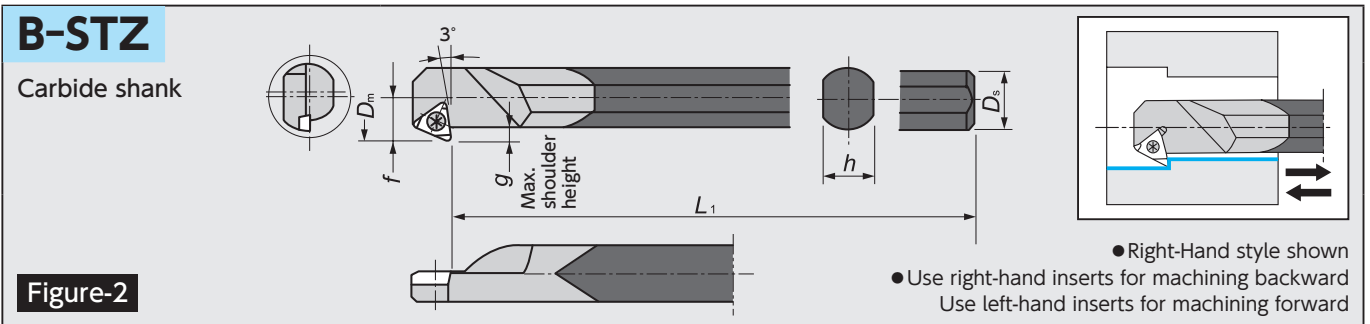
Mogul Bar for 60° Triangle (TC/TP style)

Minimum Bore Diameter 10.0mm



Standard Bar for 60° Triangle (TC/TP style)

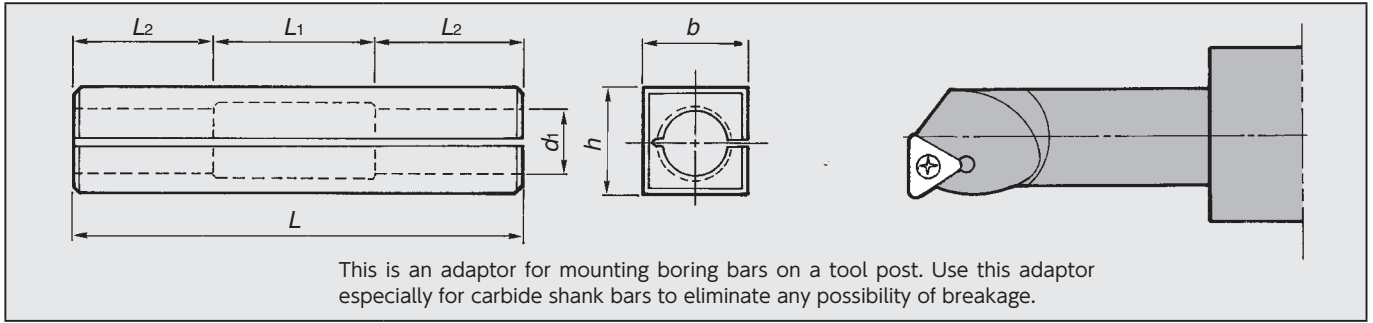
Minimum Bore Diameter 10.0mm



TC/TP style - Toolholders

Figure	Code No.	Item Number	Stock	Min Bore Dia. (mm) ϕD_m	Max. shoulder height (mm) g	Dimensions (mm)										Std. corner radius (mm)	Gage insert	Spare Parts	
						ϕD_5	h	L_1	f	L_2	L_3	L_4	ϕd	θ	α			Clamp Screw	Wrench
1	5842851	C06H-STZCR06D10-OH	●	10.0	2.5	6.0	5.8	100	5.5	10.5	6	6	2.0	0°	-10°	0.2	TC000601 E46	LR-S-2*4.4	CLR-13S
	5842869	C08K-STZPRO9D12-OH	●	12.0	3.0	8.0	7.7	125	7.0	13.5	8.5	8.3	2.5	+5°	-10°	0.4	TPO00902 E32~33*47	LR-S-2.5*4.8	CLR-15S
	5842877	C10M-STZPRO9D14-OH	●	14.0		10.0	9.6	150	8.0	18.5	12	8.3	2.5		-7°		TPO01103 E32~33*47	LR-S-3*5.8	RLR-20S
	5842885	C12N-STZPR11D175-OH	●	17.5	4.5	12.0	11.5	150	10.5	22	14.5	9.6	3.0	-5°	-	-	-	-	-
2	5852819	B06J-STZCR-06-N	●	10.0	2.5	6.0	5.2	110	5.5	-	-	-	-	-	-	0.2	TC000601 E46	LR-S-2*4.4	CLR-13S
	5852801	B12Q-STZPR-09-N	●	16.0	3.0	12.0	11.0	180	9.0	-	-	-	-	-	-	0.2	TPO00902 E32~33*47	LR-S-2.5*6.8	CLR-15S

Boring bar adaptors.



Code No.	Adaptor P/N	Stock	Dimensions (mm)						Applicable holder
			h_1	b	L	L_1	L_2	d_1	
5764204	S06-H	●	20	20	60	20	20	6	For shank of $\phi 6$
5580717	S08-H	●	20	20	60	20	20	8	For shank of $\phi 8$
5632286	S10-H	●	20	20	60	20	20	10	For shank of $\phi 10$
5758198	S12-H	●	25	25	70	20	25	12	For shank of $\phi 12$