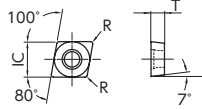


<80 degree Rhombic Positive type>

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

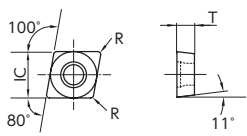

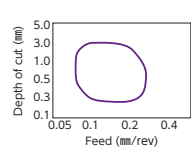

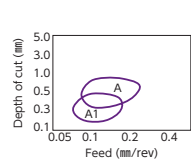

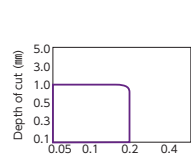

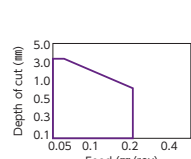
Shape	ISO Item Number	Inch Item Number	R	Carbide										Chip Control Range	For applicable holder, see pages:		
				PVD Coated						CVD Coated							
				ST4	ZM3	QM3	VM1	TM4	DT4	DM4	CP1	CP7	KM1				
	CCGT 060200	R/4 S	0.03	●	●	●	●	●	●	●	●						
	060201	R/4 S	0.1	●	●	●	●	●	●	●	●						
	060202	R/4 S	0.2	●	●	●	●	●	●	●	●						
	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°

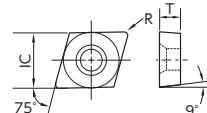

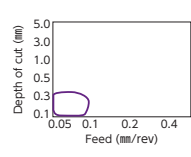

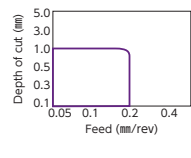
Item Number	IC	T	Relief angle
CP_0802	7.94	2.38	11°
CP_0903	9.525	3.18	11°

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°

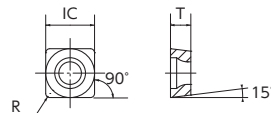

Shape	ISO Item Number	Inch Item Number	R	Carbide										Chip Control Range	For applicable holder, see pages:																																																																																				
				PVD Coated							CVD Coated																																																																																								
				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></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></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></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></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></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></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	●	●	●	●	●	●	●	●	●	●	●	●																																																																																						
	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			●																																																																																												
	ERGH T30101 F^R/_L F1	—	0.1	R		R		R																																																																																											
	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°

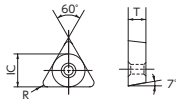
Shape	ISO Item Number	Inch Item Number	R	Carbide										Chip Control Range	For applicable holder, see pages:																																																																																				
				PVD Coated							CVD Coated																																																																																								
				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></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></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></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></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></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></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	●	●	●	●	●	●	●	●	●	●	●	●																																																																																						
	SDEW 060202 FN		0.2	●																																																																																															

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

<60 degree Triangle Positive type>


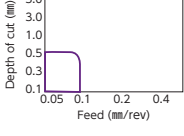

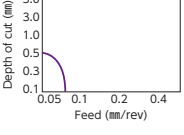

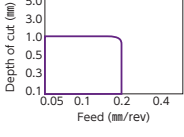
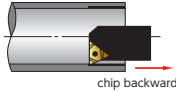

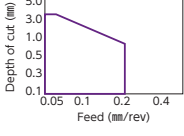

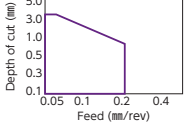

Item Number	IC	T	Relief angle
TC_0601	3.97	1.59	7°
TC_06T1	3.97	1.98	7°

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



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

● : 1st Choice
● : 2nd choice

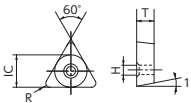

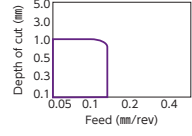
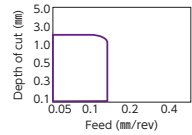

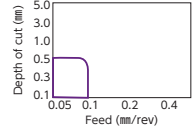

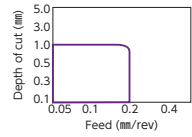
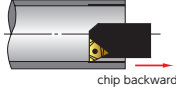

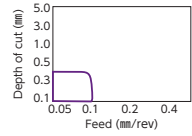
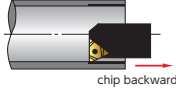
Shape	ISO Item Number	Inch Item Number	R	Carbide										Chip Control Range	For applicable holder, see pages:			
				PVD Coated							CVD Coated							
				ST4	ZM3	QM3	VM1	TM4	DT4	DM4	CP1	CP7	KM1					
 K L-hand shown	TCGH 060102 F _{R/L} K		0.2															
	060104 F _{R/L} K		0.4															
 B1 L-hand shown	TCGH 060102 F _{R/L} B1	TCGP52Y-F _{R/L} -B1	0.2		L				L									K30 K31 K32
	060104 F _{R/L} B1	521-F _{R/L} -B1	0.4		L				L									
 F05 ※ R-hand shown	TCGH 060101 F _{R/L} F05	TCGP521CF _{R/L} -F05	0.1	R		R			R								 	
	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										
 S R-hand shown	TCGT 090201 R _L S		0.1		R		●											
	090202 R _L S		0.2		R													
	TCGT 110201 R _L S		0.1		R		●											
 U R-hand shown	TCGT 090201 R _L U		0.1		R													G36
	090202 R _L U		0.2		R													
 without chipbreaker	TCGW 06T108 FN		0.8		●												—	
	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						 		
	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 _{R/L} FG		0.2	R				R						 			
	090204 _{R/L} FG		0.4	R				R									
	TPGH 110302 _{R/L} FG		0.2	R				R									
	110304 _{R/L} FG		0.4	R				R									

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

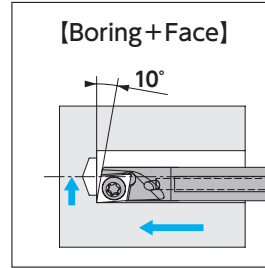
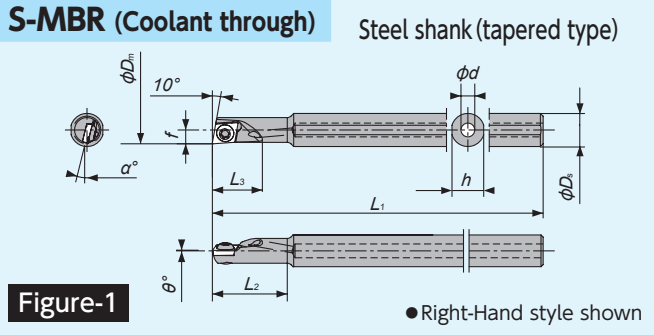
● : Standard stock ● : New standard stock ■ : Scheduled to be produced by order ★ : Standard stock (Specified)

New Products
Tool Materials / Selection Guide
BIDEMCS, PCD, Micrograin Carbide, PVD Coated Carbide, CBN and Ceramics
Insert Item List
General Turning Toolholders
Unique Swiss Tooling
Grooving / Side Turning
Threading
Shaper
ID Tooling
Application Introduction
Endmills
Rotating Tools
Information
Index

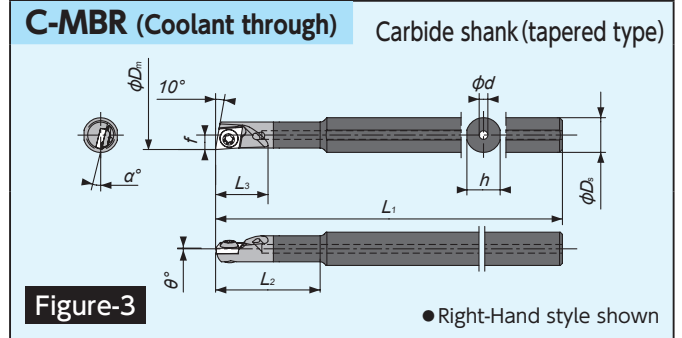
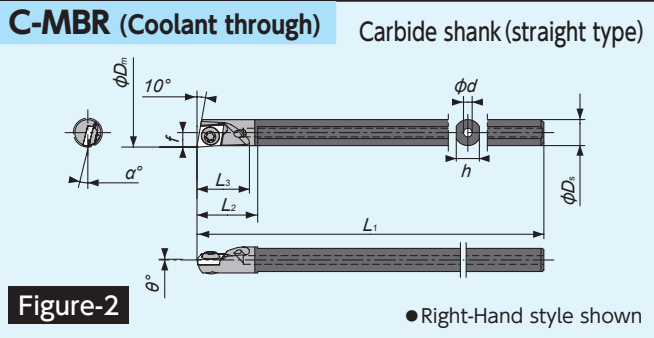
Tool List

Mogul Bar for 75° Diamond (MBL style)

Minimum Bore Diameter 5.0mm



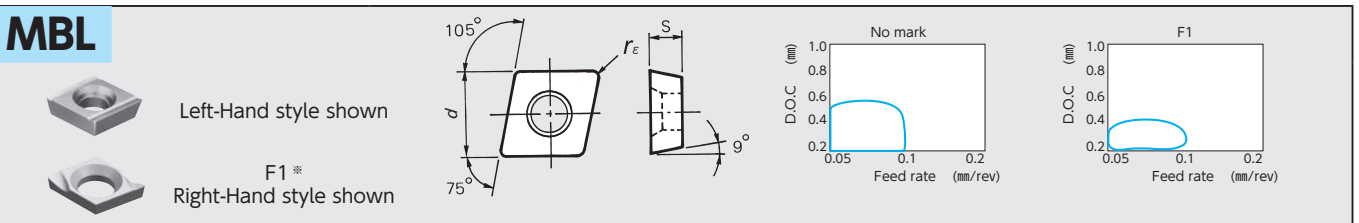
F1 chipbreakers evacuates chips BACKWARD (S-STUC style shown)



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)

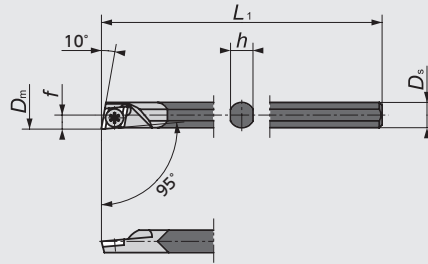
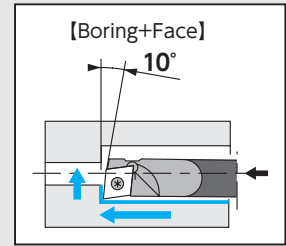


Figure-1



● Right-Hand style shown

C-MBR

Carbide shank (tapered type)

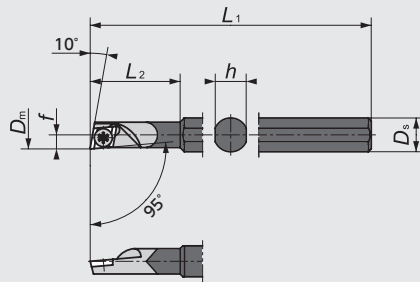
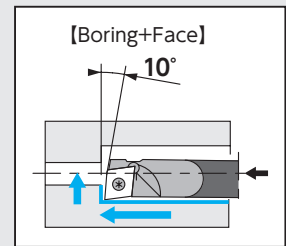


Figure-2



● Right-Hand style shown

C-MSBR

Carbide shank (straight type)

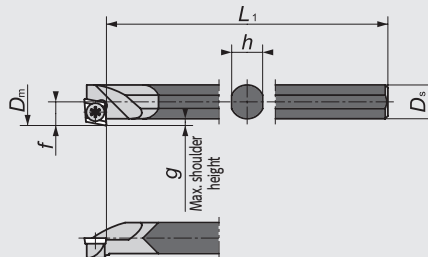
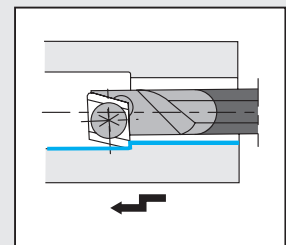


Figure-3



● Right-Hand style shown

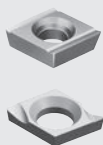
MBL style - Toolholders

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

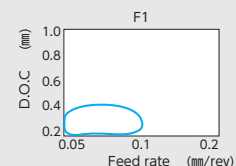
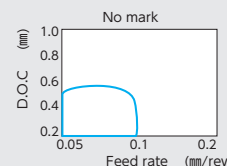
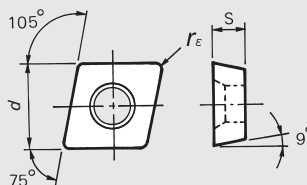
MBL



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)

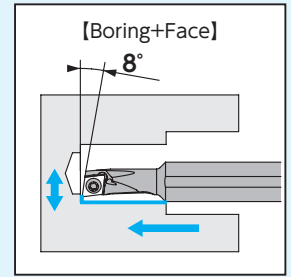
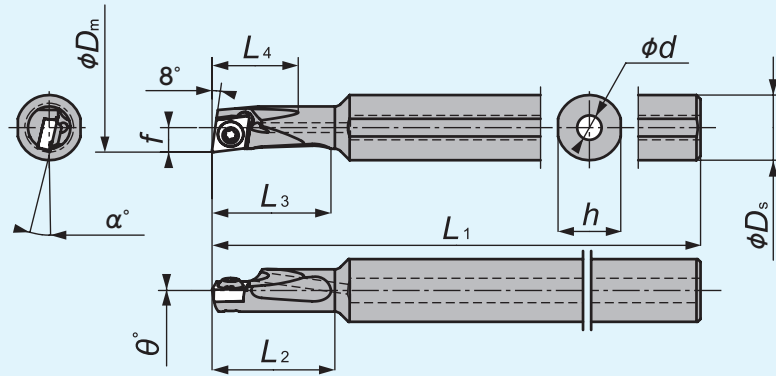


Figure-1

● Right-Hand style shown

C-SEXR (Coolant through)

Carbide shank
(straight type)

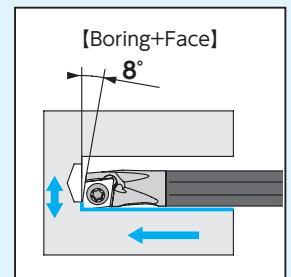
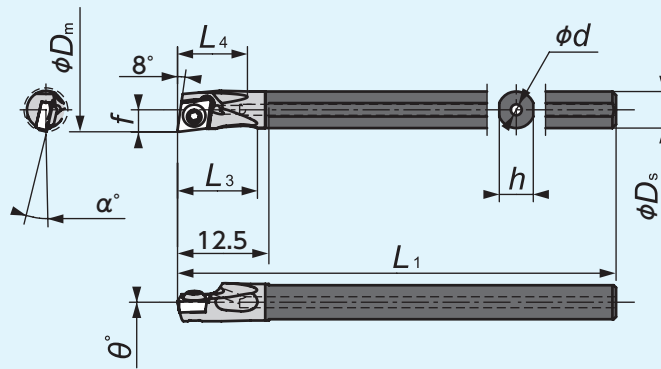


Figure-2

● Right-Hand style shown

C-SEXR (Coolant through)

Carbide shank
(tapered type)

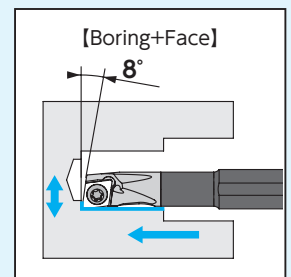
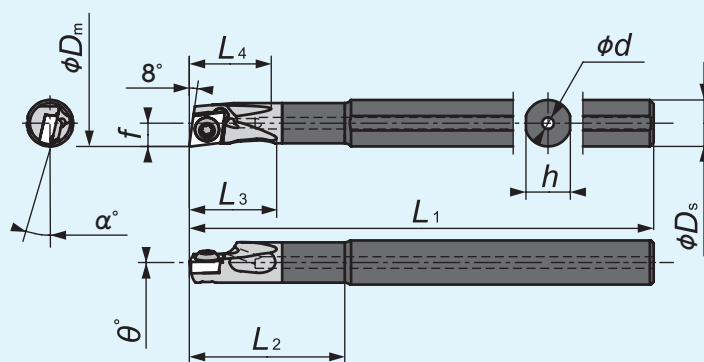


Figure-3

● Right-Hand style shown

ERGP 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										
	R	L		R	L		ϕD_s	h	L_1	f	L_2	L_3	L_4	ϕd	θ	α			Clamp Screw	Wrench									
1	5789912		S08G-SEXR $\frac{R}{L}$ T3D06-OH	●		6.0	8.0	7.7					15	15		3.0													
2	5789920		C05G-SEXR $\frac{R}{L}$ T3D06-OH	●			5.0	4.0		90	3.0					10		0°	-13°	0.2	ERGHT301	LR-S-2*3.7	CLR-13S						
3	5789938 5800487		C06G-SEXR $\frac{R}{L}$ T3D06-OH	●	●		6.0	5.7							11		1.5												

ERGP style - Insert

ERGH

A2^{※1} Right-Hand style shown
 F1^{※2} Right-Hand style shown

Dimensions: ϕd , s , r_ϵ , 90°
 Graphs: D.O.C. (mm) vs. Feed rate (mm/rev) for A2 R-hand, A2 L-hand, and F1.

ISO Item Number	Item Number	Dimensions (mm)			PVD Coated Carbide																											
		ϕd	s	r_ϵ	ST4				ZM3				TM4				QM3															
					R	Stock	L	Stock	R	Stock	L	Stock	R	Stock	L	Stock	R	Stock	L	Stock												
ERGHT30102F $\frac{R}{L}$ A2	ERGP52Y-F $\frac{R}{L}$ --A2	3.97	1.6	0.2						5899158	●	5889670	●	5696034	●	5696059	●															
T30104F $\frac{R}{L}$ A2	521-F $\frac{R}{L}$ --A2			0.4																												
ERGHT30101F $\frac{R}{L}$ F1	—	3.97	1.6	0.1	5038971	●																	5036868	●								
T30102F $\frac{R}{L}$ F1	—			0.2	5039003	●																			5012703	●						
T30104F $\frac{R}{L}$ F1	—			0.4	5039011	●																				5036876	●					

※1 A2chipbreaker. Control chips at light feed and light depth of cut
 ※2 F1 chipbreaker, right-hand inserts fit to right-hand toolholder
 F1 chipbreaker evacuates chips BACKWARD

Tool List

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

Minimum Bore Diameter 7.0mm

S-SCLP (C) (Coolant through)

Steel shank

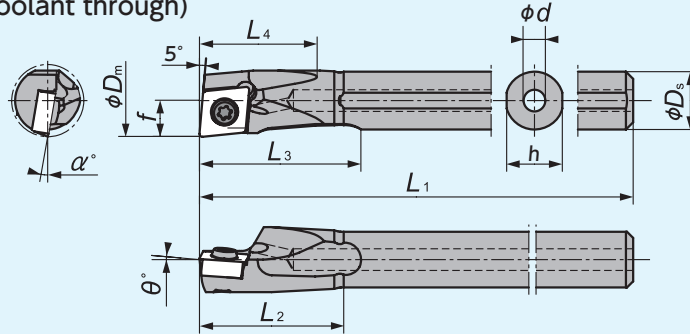


Figure-1

● Right-Hand style shown

C-SCLP (C) (Coolant through)

Carbide shank

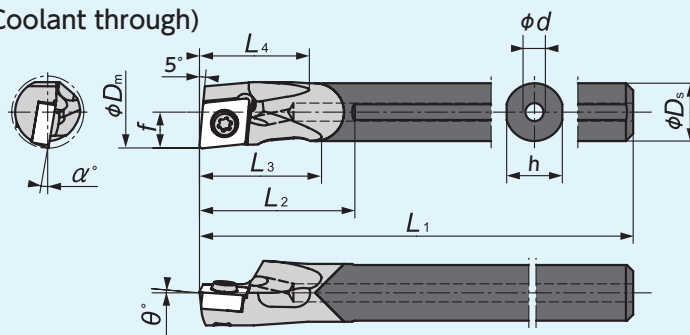


Figure-2

● Right-Hand style shown

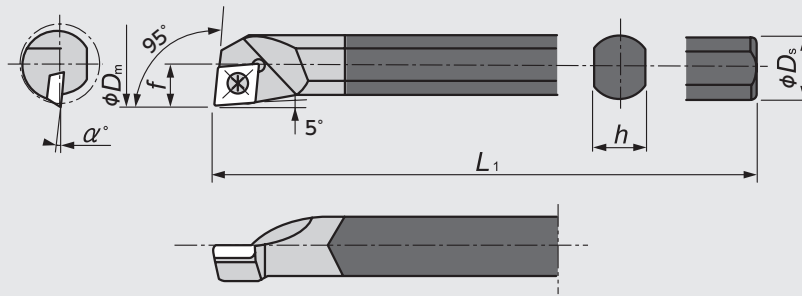
CC/CP style - Toolholders

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



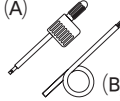

C-SCLP

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

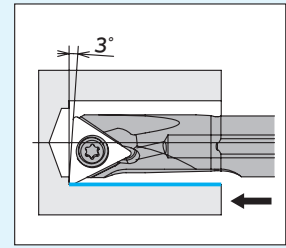
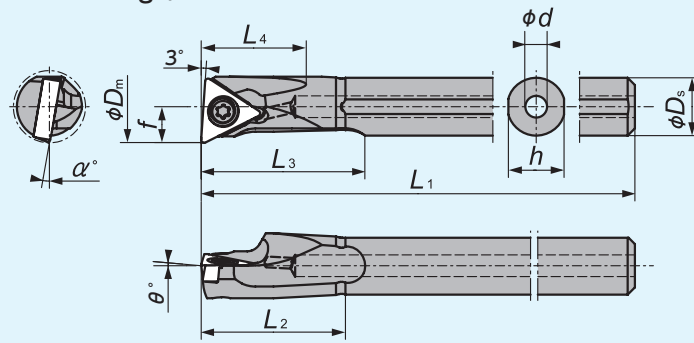


Figure-1

● Right-Hand style shown

C-STUC (P) (Coolant through)

Carbide shank

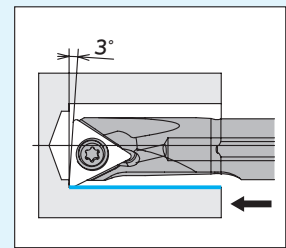
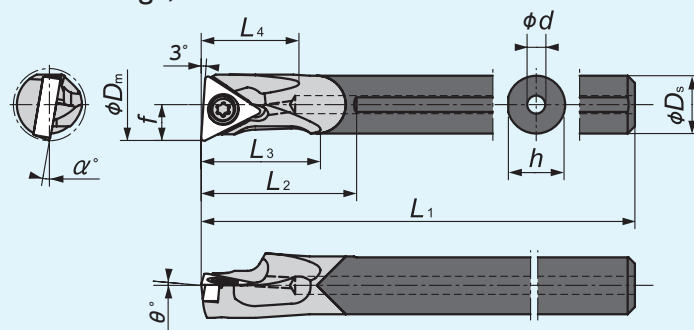


Figure-2

● Right-Hand style shown

TC/TP style - Toolholders

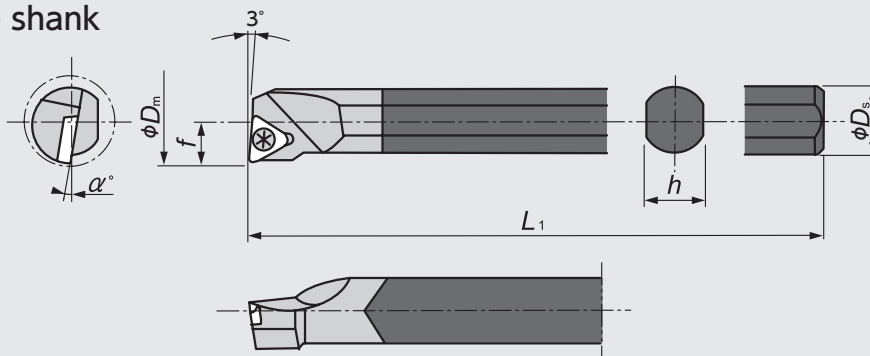
Figure	Code No.		Item Number	Stock		Min Bore Dia. (mm)	Dimensions (mm)										Std. corner radius (mm)	Gage insert	Spare Parts	
	R	L		R	L		ϕD_m	ϕD_s	h	L_1	f	L_2	L_3	L_4	ϕd	θ			α	Clamp Screw
1	5769971		S07G-STUC $\frac{1}{2}$ L06D08-OH	●		8.0	7.0	6.75	90	4.0	16.0	19.5	12.5	2.5	0°	-11°	0.2	TC \bigcirc 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 $r_e=0.2\text{mm}$