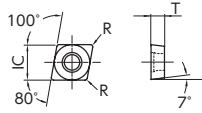


Item Number	IC	T	Relief angle
CC_0602	6.35	2.38	7°
CC_09T3	9.525	3.97	7°

### <80 degree Rhombic Positive type>



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								
	CCGT 060201M	CL	*0.08	●	●	●	●	●	●	●	●	●	●	●		G23 K28	
	060202M	CL	*0.18	●	●	●	●	●	●	●	●	●	●	●			
	09T300	CL	0.03				●	●									
	09T301M	CL	*0.08	●	●	●	●	●	●	●	●	●	●	●			
	09T302M	CL	*0.18	●	●	●	●	●	●	●	●	●	●	●			
	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.

## <55 degree Rhombic Positive type>

Item Number	IC	T	Relief angle
DC_0702	6.35	2.38	7°
DC_11T3	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	●	●	●	●	●	●	●	●	●	●	●	●	
 S R-hand shown	DCGT 070200	R/4 S	0.03	●	●	●	●	●	●	●	●	●	●	●	●	●		
	070201	R/4 S	0.1	●	●	●	●	●	●	●	●	●	●	●	●	●		
	070202	R/4 S	0.2	●	●	●	●	●	●	●	●	●	●	●	●	●		
	070204	R/4 S	0.4	●	●	●	●	●	●	●	●	●	●	●	●	●		
	070201M	R/4 S	*0.08	●	●	●	●	●	●	●	●	●	●	●	●	●		
	070202M	R/4 S	*0.18	●	●	●	●	●	●	●	●	●	●	●	●	●		
	DCGT 11T300	R/4 S	0.03	●	●	●	●	●	●	●	●	●	●	●	●	●		
	11T301	R/4 S	0.1	●	●	●	●	●	●	●	●	●	●	●	●	●		
	11T302	R/4 S	0.2	●	●	●	●	●	●	●	●	●	●	●	●	●		
	11T304	R/4 S	0.4	●	●	●	●	●	●	●	●	●	●	●	●	●		
 U · U1 R-hand shown	DCGT 070200	R/4 U	0.03	●	●	●	●	●	●	●	●	●	●	●	●	●		
	070201	R/4 U	0.1	●	●	●	●	●	●	●	●	●	●	●	●	●		
	070202	R/4 U	0.2	●	●	●	●	●	●	●	●	●	●	●	●	●		
	DCGT 11T300	R/4 U1	0.03	●	●	●	●	●	●	●	●	●	●	●	●	●		
	11T301	R/4 U1	0.1	●	●	●	●	●	●	●	●	●	●	●	●	●		
	11T302	R/4 U1	0.2	●	●	●	●	●	●	●	●	●	●	●	●	●		
 without chipbreaker	DCGW 070200	FN	0.03	●	●	●	●	●	●	●	●	●	●	●	●	●	G25 G27	
	070201	FN	0.1	●	●	●	●	●	●	●	●	●	●	●	●	●		
	070200	H (M)	0.03	●	●	●	●	●	●	●	●	●	●	●	●	●		
	070201	H (M)	0.1	●	●	●	●	●	●	●	●	●	●	●	●	●		
	070202	H (M)	0.2	●	●	●	●	●	●	●	●	●	●	●	●	●		
	07020	V (M)	0.0	●	●	●	●	●	●	●	●	●	●	●	●	●		
	DCGW 11T300	FN	0.03	●	●	●	●	●	●	●	●	●	●	●	●	●		
	11T301	FN	0.1	●	●	●	●	●	●	●	●	●	●	●	●	●		
	11T300	H (M)	0.03	●	●	●	●	●	●	●	●	●	●	●	●	●		
	11T301	H (M)	0.1	●	●	●	●	●	●	●	●	●	●	●	●	●		
 CL ※2	DCGT 070201M	CL	*0.08	●	●	●	●	●	●	●	●	●	●	●	●	●		
	070202M	CL	*0.18	●	●	●	●	●	●	●	●	●	●	●	●	●		
	070204M	CL	*0.38	●	●	●	●	●	●	●	●	●	●	●	●	●		
	DCGT 11T301M	CL	*0.08	●	●	●	●	●	●	●	●	●	●	●	●	●		
	11T302M	CL	*0.18	●	●	●	●	●	●	●	●	●	●	●	●	●		
	11T304M	CL	*0.38	●	●	●	●	●	●	●	●	●	●	●	●	●		
 YL	DCGT 070201M	YL	0.08	●	●	●	●	●	●	●	●	●	●	●	●	●		
	070202M	YL	0.18	●	●	●	●	●	●	●	●	●	●	●	●	●		
	070204M	YL	0.38	●	●	●	●	●	●	●	●	●	●	●	●	●		
	DCGT 11T300	YL	0.03	●	●	●	●	●	●	●	●	●	●	●	●	●		
	11T301M	YL	0.08	●	●	●	●	●	●	●	●	●	●	●	●	●		
	11T302M	YL	0.18	●	●	●	●	●	●	●	●	●	●	●	●	●		
	11T304M	YL	0.38	●	●	●	●	●	●	●	●	●	●	●	●	●		
	11T308M	YL	0.78	●	●	●	●	●	●	●	●	●	●	●	●	●		

\* 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.  
 ※2 The specifications of CL chipbreaker are slightly different from the above dimensions, but it has no problem for machining.

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

## <35 degree Rhombic Positive type>

Item Number	IC	T	Relief angle
<b>VB_1604</b>	9.525	4.76	5°

Item Number	IC	T	Relief angle
<b>VC_1103</b>	6.35	3.18	7°
<b>VC_1303</b>	7.94	3.18	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								
				<b>Steel</b> <b>Stainless Steel</b> <b>Cast Iron</b> <b>Non-Ferrous Material</b> <b>Heat Resistant Alloy</b> <b>Hardened Material</b>	<b>P</b> <b>M</b> <b>K</b> <b>N</b> <b>S</b> <b>H</b>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	● : 1st Choice ● : 2nd choice	
	<b>VBGT 160402 FN YL</b>		0.2	●						●											
	<b>160404 FN YL</b>		0.4	●						●											
	<b>160408 FN YL</b>		0.8	●						●											
	<b>VCET 1103008 R/2 UHG</b>		0.08				R														
	<b>VCGT 110300 AZ7</b>		0.03		●	●														<b>G29</b> <b>G31</b> <b>G56</b>	
	<b>110301M AZ7</b>		*0.08		●	●															
	<b>110302M AZ7</b>		*0.18		●	●															
	<b>110304M AZ7</b>		*0.38		●	●															
	<b>VCGT 110300 FN AM3</b>		0.03				●	●	●												
	<b>110301 FN AM3</b>		0.1		●	●															
	<b>110302 FN AM3</b>		0.2		●	●															
	<b>110301M FN AM3</b>		*0.08	●		●	●	●	●												
	<b>110302M FN AM3</b>		*0.18	●		●	●	●	●												
	<b>110304M FN AM3</b>		*0.38	●		●	●	●	●												
	<b>VCMT 110302 FN AM3</b>		0.2								●										
	<b>110304 FN AM3</b>		0.4								●										
	<b>VCGT 130300 F R/2 2M</b>		0.03								●									<b>G29</b> <b>G62</b>	
	<b>130301 F R/2 2M</b>		0.1								●										
	<b>VCGT 110300 R/2 U</b>		0.03		R		R														
	<b>110301 R/2 U</b>		0.1		R		R														
	<b>110302 R/2 U</b>		0.2		R		R														
	<b>110301M R/2 U</b>		*0.08							R											
	<b>110302M R/2 U</b>		*0.18							R											
	<b>VCGW 110300 H M</b>		0.03														●			<b>G29</b> <b>G31</b> <b>G56</b>	
	<b>110301 H M</b>		0.1														●				
	<b>110302 H M</b>		0.2														●				

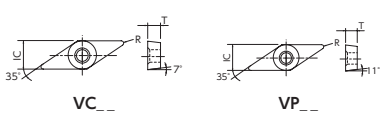





\*Inserts having 01M, 02M or 04M as the R code can be used for machining when the component drawing specifies that the radius is less than R=0.1, R=0.2 or R=0.4 respectively.

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

### <35 degree Rhombic Positive type>

Item Number	IC	T	Relief angle
VC_1102	6.35	2.38	7°
VC_1103	6.35	3.18	7°

Item Number	IC	T	Relief angle
VP_0802	4.76	2.38	11°
VP_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	●	●	●	●	●	●	●	●	●	●	●	●			
				Stainless Steel	M	●	●	●	●	●	●	●	●	●	●	●	●			
				Cast Iron	K	●	●	●	●	●	●	●	●	●	●	●	●			
				Non-Ferrous Material	N	●	●	●	●	●	●	●	●	●	●	●	●			
				Heat Resistant Alloy	S	●	●	●	●	●	●	●	●	●	●	●	●			
				Hardened Material	H	●	●	●	●	●	●	●	●	●	●	●	●			
 CL ※2	VCGT 110202M CL		*0.18			●			●	●	●									
	VCGT 110301M CL		*0.08	●		●			●	●	●									G29
	110302M CL		*0.18	●		●			●	●	●									
 YL	VCGT 110301M YL		0.08	●		●			●	●	●									G29
	110302M YL		0.18	●		●			●	●	●									G31
	110304M YL		0.38	●		●			●	●	●									G56
 KHG R-hand shown	VPET 0802005 $\frac{R}{L}$ KHG		0.05					●	R											
	0802008 $\frac{R}{L}$ KHG		0.08					●	R	R										
	0802018 $\frac{R}{L}$ KHG		0.18					●	R											
	080202 $\frac{R}{L}$ KHG		0.2					●	R											
	VPET 1103005 $\frac{R}{L}$ KHG		0.05					●	R											
	1103008 $\frac{R}{L}$ KHG		0.08					●	R											
	1103018 $\frac{R}{L}$ KHG		0.18					●	R											
110302 $\frac{R}{L}$ KHG		0.2					●	R												
 UHG R-hand shown	VPET 0802008 $\frac{R}{L}$ UHG		0.08																	G33
 AM3	VPGT 110300 FN AM3		0.03							●	●									
	110301M FN AM3		*0.08	●		●			●	●	●									
	110302M FN AM3		*0.18	●		●			●	●	●									

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 ※2 The specifications of CL chipbreaker are slightly different from the above dimensions, but it has no problem for machining.

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