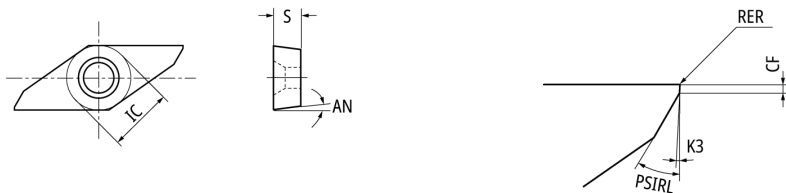


CSVF.. series/Inserts Carbide

CSVF-V

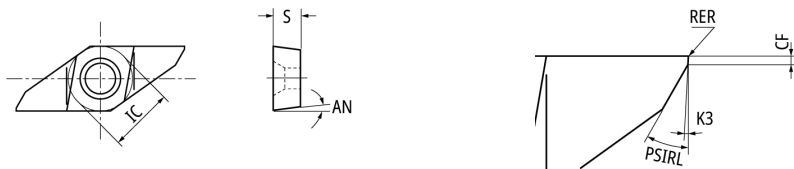


● Diagram shows right-hand tool
All angles shown are obtained when insert is set in the holder.



Item Number	Hand			APMX	EPSR	IC	S	AN	CF	K3	PSIRL	RER	Carbide		
				mm	°	mm	mm	°	mm	°	°	mm	DT4	PVD VM1	ZM3
CSVF11FRV	M	R	No	3	35	6.35	2.38	7	0.3	5	30	0		●	
CSVF11FRV-A	M	R	No	3	35	6.35	2.38	7	0.3	2	30	0		●	
CSVF11FRV-C	M	R	No	3	35	6.35	2.38	7	0.15	5	30	0		●	
CSVF11FRV-M	M	R	No	3	35	6.35	2.38	7	0.15	2	30	0	●	●	●
CSVF11FLV	M	L	No	3	35	6.35	2.38	7	0.3	5	30	0		●	
CSVF11FLV-M	M	L	No	3	35	6.35	2.38	7	0.15	2	30	0		●	

CSVF-VB

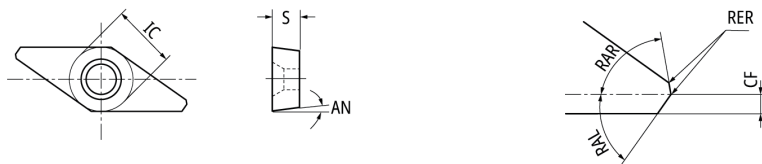


● Diagram shows right-hand tool
All angles shown are obtained when insert is set in the holder.



Item Number	Hand			APMX	EPSR	IC	S	AN	CF	K3	PSIRL	RER	Carbide		
				mm	°	mm	mm	°	mm	°	°	mm	DT4	PVD VM1	ZM3
CSVF11FRVB	M	R	Yes	3	35	6.35	2.38	7	0.3	5	30	0		●	
CSVF11FRVB-A	M	R	Yes	3	35	6.35	2.38	7	0.3	2	30	0		●	
CSVF11FRVB-C	M	R	Yes	3	35	6.35	2.38	7	0.15	5	30	0		●	
CSVF11FRVB-M	M	R	Yes	3	35	6.35	2.38	7	0.15	2	30	0	●	●	●
CSVF11FLVB	M	L	Yes	3	35	6.35	2.38	7	0.3	5	30	0		●	
CSVF11FLVB-M	M	L	Yes	3	35	6.35	2.38	7	0.15	2	30	0		●	

CSVF-VX For Profiling



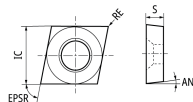
● Diagram shows left-hand tool
All angles shown are obtained when insert is set in the holder.



Item Number	Hand			APMX	EPSR	IC	S	AN	CF	RAL	RAR	RER	Carbide		
				mm	°	mm	mm	°	mm	mm	mm	mm	DT4	PVD VM1	ZM3
CSVF11FLVX	M	L	No	3	35	6.35	2.38	7	0.7	45	80	0		●	

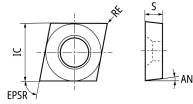
CC.. series/Inserts Carbide

CC..



Steel	○	●	●	●	●	●	●	●	●
Stainless Steel	●	○	○	○	●	○	●	●	●
Cast Iron								●	
Non-Ferrous Material						○		○	●
Heat Resistant Alloy		●	○	○					
Hardened Material		○	○	○					
Others (non-metallic)									●

Shape	Item Number	CECC	EPSR	IC	S	AN	RE	BS	Carbide											Uncoated
									PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	
									ST4	DM4	DT4	QM3	TM4	VM1	ZM3	CP1	CP7	KM1		
(ISO)	°	mm	mm	°	mm	mm	ST4	DM4	DT4	QM3	TM4	VM1	ZM3	CP1	CP7	KM1				
	CCGT09T300YL	Up-sharp edge	80	9.525	3.97	7	0.03	-												
	CCGT09T301MYL	Up-sharp edge	80	9.525	3.97	7	0.08	-	●	●	●	●	●							
	CCGT09T302MYL	Up-sharp edge	80	9.525	3.97	7	0.18	-	●	●	●	●	●							
	CCGT09T304MYL	Up-sharp edge	80	9.525	3.97	7	0.38	-	●	●	●	●	●							
	CCGT09T308MYL	Up-sharp edge	80	9.525	3.97	7	0.78	-	●	●	●	●	●							
	CCGT060201MCL	Up-sharp edge	80	6.35	2.38	7	0.08	-	●	●	●	●	●							
	CCGT060202MCL	Up-sharp edge	80	6.35	2.38	7	0.18	-	●	●	●	●	●							
	CCGT09T300CL	Up-sharp edge	80	9.525	3.97	7	0.03	-			●		●							
	CCGT09T301MCL	Up-sharp edge	80	9.525	3.97	7	0.08	-	●	●	●	●	●							
	CCGT09T302MCL	Up-sharp edge	80	9.525	3.97	7	0.18	-	●	●	●	●	●							
	CCGT09T304MCL	Up-sharp edge	80	9.525	3.97	7	0.38	-	●	●	●	●	●							
	CCGT060200FNAM3	Up-sharp edge	80	6.35	2.38	7	0.03	-			●		●	●						
	CCGT060201MFNAM3	Up-sharp edge	80	6.35	2.38	7	0.08	-	●			●	●	●						
	CCGT060202FNAM3	Up-sharp edge	80	6.35	2.38	7	0.2	-						●	●					
	CCGT060202MFNAM3	Up-sharp edge	80	6.35	2.38	7	0.18	-	●			●	●	●						
	CCGT060204FNAM3	Up-sharp edge	80	6.35	2.38	7	0.4	-							●					
	CCGT060204MFNAM3	Up-sharp edge	80	6.35	2.38	7	0.38	-	●			●	●	●						
	CCGT09T300FNAM3	Up-sharp edge	80	9.525	3.97	7	0.03	-			●		●	●						
	CCGT09T301MFNAM3	Up-sharp edge	80	9.525	3.97	7	0.08	-	●			●	●	●	●	●				
	CCGT09T302FNAM3	Up-sharp edge	80	9.525	3.97	7	0.2	-				●		●						
	CCGT09T302MFNAM3	Up-sharp edge	80	9.525	3.97	7	0.18	-	●			●	●	●	●	●				
	CCGT09T304FNAM3	Up-sharp edge	80	9.525	3.97	7	0.4	-				●		●						
	CCGT09T304MFNAM3	Up-sharp edge	80	9.525	3.97	7	0.38	-	●			●	●	●	●	●				
	CCMT060202FNAM3	Up-sharp edge	80	6.35	2.38	7	0.2	-		●										
	CCMT060204FNAM3	Up-sharp edge	80	6.35	2.38	7	0.4	-		●										
	CCMT09T302FNAM3	Up-sharp edge	80	9.525	3.97	7	0.2	-		●										
	CCMT09T304FNAM3	Up-sharp edge	80	9.525	3.97	7	0.4	-		●										
	CCMT09T308FNAM3	Up-sharp edge	80	9.525	3.97	7	0.8	-		●										
	CCGT060200AZ7	Up-sharp edge	80	6.35	2.38	7	0.03	-				●								
	CCGT060201MAZ7	Up-sharp edge	80	6.35	2.38	7	0.08	-				●								
	CCGT060202MAZ7	Up-sharp edge	80	6.35	2.38	7	0.18	-				●								
	CCGT09T300AZ7	Up-sharp edge	80	9.525	3.97	7	0.03	-			●	●	●		●					
	CCGT09T301MAZ7	Up-sharp edge	80	9.525	3.97	7	0.08	-			●	●	●		●					
	CCGT09T302MAZ7	Up-sharp edge	80	9.525	3.97	7	0.18	-			●	●	●		●					
	CCGT09T304MAZ7	Up-sharp edge	80	9.525	3.97	7	0.38	-			●	●	●		●					
	CCMT060202E002AZ8	E002	80	6.35	2.38	7	0.2	-									●			
	CCMT060204E004AZ8	E004	80	6.35	2.38	7	0.4	-									●			
	CCMT060208E004AZ8	E004	80	6.35	2.38	7	0.8	-									●			
	CCMT09T302E002AZ8	E002	80	6.35	2.38	7	0.2	-									●			
	CCMT09T304E004AZ8	E004	80	6.35	2.38	7	0.4	-									●			
	CCMT09T308E004AZ8	E004	80	6.35	2.38	7	0.8	-									●			
	CCGT060200RS	Up-sharp edge	80	6.35	2.38	7	0.03	-			●			●	●					
	CCGT060200LS	Up-sharp edge	80	6.35	2.38	7	0.03	-						●	●					
	CCGT060201MRS	Up-sharp edge	80	6.35	2.38	7	0.08	-			●	●								
	CCGT060201RS	Up-sharp edge	80	6.35	2.38	7	0.1	-						●	●					
	CCGT060201LS	Up-sharp edge	80	6.35	2.38	7	0.1	-						●	●					
	CCGT060202MRS	Up-sharp edge	80	6.35	2.38	7	0.18	-			●	●								
	CCGT060202RS	Up-sharp edge	80	6.35	2.38	7	0.2	-						●	●					
	CCGT060202LS	Up-sharp edge	80	6.35	2.38	7	0.2	-						●	●					
	CCGT060204RS	Up-sharp edge	80	6.35	2.38	7	0.4	-												
	CCGT09T300RS	Up-sharp edge	80	9.525	3.97	7	0.03	-			●		●	●	●					
	CCGT09T300LS	Up-sharp edge	80	9.525	3.97	7	0.03	-						●						
	CCGT09T301MRS	Up-sharp edge	80	9.525	3.97	7	0.08	-			●	●	●							
	CCGT09T301RS	Up-sharp edge	80	9.525	3.97	7	0.1	-				●		●	●					
	CCGT09T301LS	Up-sharp edge	80	9.525	3.97	7	0.1	-						●	●					
	CCGT09T302MRS	Up-sharp edge	80	9.525	3.97	7	0.18	-			●	●	●							
	CCGT09T302RS	Up-sharp edge	80	9.525	3.97	7	0.2	-				●		●	●					
	CCGT09T302LS	Up-sharp edge	80	9.525	3.97	7	0.2	-						●						

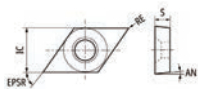


Steel	○	●	●	●	●	●	●	●	●
Stainless Steel	●	○	○	○	●	○	●	●	●
Cast Iron								●	
Non-Ferrous Material						○	○		●
Heat Resistant Alloy		●	○	○					
Hardened Material		○	○	○					
Others (non-metallic)									●

Shape	Item Number	CECC	EPSR	IC	S	AN	RE	BS	Carbide										Uncoated
									PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	
									ST4	DM4	DT4	QM3	TM4	VM1	ZM3	CP1	CP7	KM1	
	CCGT09T304MRS	Up-sharp edge	80	9.525	3.97	7	0.38	-			●	●	●						
	CCGT09T304RS	Up-sharp edge	80	9.525	3.97	7	0.4	-				●							
	CCGT060200RU	Up-sharp edge	80	6.35	2.38	7	0.03	-			●					●			
	CCGT060201RU	Up-sharp edge	80	6.35	2.38	7	0.1	-			●					●			
	CCGT060201LU	Up-sharp edge	80	6.35	2.38	7	0.1	-								●			
	CCGT060202RU	Up-sharp edge	80	6.35	2.38	7	0.2	-			●					●			
	CCGT060202LU	Up-sharp edge	80	6.35	2.38	7	0.2	-								●			
	CCGT09T300RU1	Up-sharp edge	80	9.525	3.97	7	0.03	-			●		●			●			
	CCGT09T300LU1	Up-sharp edge	80	9.525	3.97	7	0.03	-								●			
	CCGT09T301RU1	Up-sharp edge	80	9.525	3.97	7	0.1	-			●		●			●			
	CCGT09T301LU1	Up-sharp edge	80	9.525	3.97	7	0.1	-								●			
	CCGT09T302RU1	Up-sharp edge	80	9.525	3.97	7	0.2	-			●		●			●			
	CCGT09T302LU1	Up-sharp edge	80	9.525	3.97	7	0.2	-								●			
	CCGT09T304RU1	Up-sharp edge	80	9.525	3.97	7	0.4	-			●		●			●			
	CCGT09T304LU1	Up-sharp edge	80	9.525	3.97	7	0.4	-								●			
	CCET0602005RKHG	Up-sharp edge	80	6.35	2.38	7	0.05	-							●				
	CCET0602005LKHG	Up-sharp edge	80	6.35	2.38	7	0.05	-							●				
	CCET0602008RKHG	Up-sharp edge	80	6.35	2.38	7	0.08	-							●				
	CCET0602008LKHG	Up-sharp edge	80	6.35	2.38	7	0.08	-							●				
	CCET0602018RKHG	Up-sharp edge	80	6.35	2.38	7	0.18	-							●				
	CCET0602018LKHG	Up-sharp edge	80	6.35	2.38	7	0.18	-							●				
	CCET060202RKHG	Up-sharp edge	80	6.35	2.38	7	0.2	-							●				
	CCET060202LKHG	Up-sharp edge	80	6.35	2.38	7	0.2	-							●				
	CCET09T3005RKHG	Up-sharp edge	80	9.525	3.97	7	0.05	-					●	●					
	CCET09T3005LKHG	Up-sharp edge	80	9.525	3.97	7	0.05	-						●					
	CCET09T3008RKHG	Up-sharp edge	80	9.525	3.97	7	0.08	-					●	●					
	CCET09T3008LKHG	Up-sharp edge	80	9.525	3.97	7	0.08	-						●					
	CCET09T3018RKHG	Up-sharp edge	80	9.525	3.97	7	0.18	-					●	●					
	CCET09T3018LKHG	Up-sharp edge	80	9.525	3.97	7	0.18	-						●					
	CCET09T302RKHG	Up-sharp edge	80	9.525	3.97	7	0.2	-					●	●					
	CCET09T302LKHG	Up-sharp edge	80	9.525	3.97	7	0.2	-						●					
	CCGT060201FRF1	Up-sharp edge	80	6.35	2.38	7	0.1	-	●			●	●						
	CCGT060202FRF1	Up-sharp edge	80	6.35	2.38	7	0.2	-	●			●	●						
	CCGT060204FRF1	Up-sharp edge	80	6.35	2.38	7	0.4	-	●			●	●						
	CCGT09T302FRF1	Up-sharp edge	80	6.35	2.38	7	0.2	-	●			●	●						
	CCGT09T304FRF1	Up-sharp edge	80	6.35	2.38	7	0.4	-	●			●	●						
	CCGW09T30V	Up-sharp edge	80	9.525	3.97	7	0	-						●					
	CCGW09T300FN	Up-sharp edge	80	9.525	3.97	7	0.03	-							●				
	CCGW09T300H	Up-sharp edge	80	9.525	3.97	7	0.03	-										●	
	CCGW09T301FN	Up-sharp edge	80	9.525	3.97	7	0.1	-							●				
	CCGW09T301H	Up-sharp edge	80	9.525	3.97	7	0.1	-										●	
	CCGW09T301P	Up-sharp edge	80	9.525	3.97	7	0.1	-						●					
	CCGW09T302H	Up-sharp edge	80	9.525	3.97	7	0.2	-										●	
	CCGW09T302MP	Up-sharp edge	80	9.525	3.97	7	0.18	-			●								
	CCGW09T302P	Up-sharp edge	80	9.525	3.97	7	0.2	-						●					

DC.. series/Inserts Carbide

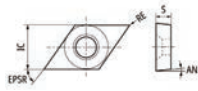
DC..



Steel	○	●	●	●	●	●	●	●	●
Stainless Steel	●	○	○	○	●	○	●	●	●
Cast Iron								●	
Non-Ferrous Material						○		○	●
Heat Resistant Alloy		●	○	○					
Hardened Material		○	○	○					
Others (non-metallic)									●

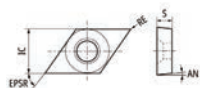
Front Turning

Shape	Item Number	CECC	EPSR	IC	S	AN	RE	BS	Carbide											Uncoated
									PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	
									ST4	DM4	DT4	QM3	TM4	VM1	ZM3	CP1	CP7	KM1		
(ISO)	°	mm	mm	°	mm	mm	ST4	DM4	DT4	QM3	TM4	VM1	ZM3	CP1	CP7	KM1				
	DCGT11T301MRTMV	Up-sharp edge	55	9.525	3.97	7	0.08	-	●	●					●					
	DCGT11T301MRTMV2	Up-sharp edge	55	9.525	3.97	7	0.08	-	●	●					●					
	DCGT11T302MRTMV	Up-sharp edge	55	9.525	3.97	7	0.18	-	●	●					●					
	DCGT11T302MRTMV2	Up-sharp edge	55	9.525	3.97	7	0.18	-	●	●					●					
	DCGT11T304MRTMV	Up-sharp edge	55	9.525	3.97	7	0.38	-	●	●					●					
	DCGT11T304MRTMV2	Up-sharp edge	55	9.525	3.97	7	0.38	-	●	●					●					
	DCGT070201MYL	Up-sharp edge	55	6.35	2.38	7	0.08	-		●			●							
	DCGT070202MYL	Up-sharp edge	55	6.35	2.38	7	0.18	-		●			●							
	DCGT070204MYL	Up-sharp edge	55	6.35	2.38	7	0.38	-		■			■							
	DCGT11T300YL	Up-sharp edge	55	9.525	3.97	7	0.03	-				●			●					
	DCGT11T301MYL	Up-sharp edge	55	9.525	3.97	7	0.08	-		●	●	●	●	●						
	DCGT11T302MYL	Up-sharp edge	55	9.525	3.97	7	0.18	-		●	●	●	●	●						
	DCGT11T304MYL	Up-sharp edge	55	9.525	3.97	7	0.38	-		●	●	●	●	●						
	DCGT11T308MYL	Up-sharp edge	55	9.525	3.97	7	0.78	-		●	●	●	●	●						
	DCGT070201MCL	Up-sharp edge	55	6.35	2.38	7	0.08	-		●	●	●	●	●						
	DCGT070202MCL	Up-sharp edge	55	6.35	2.38	7	0.18	-		●	●	●	●	●						
	DCGT070204MCL	Up-sharp edge	55	6.35	2.38	7	0.38	-		●	●	●	●	●						
	DCGT11T301MCL	Up-sharp edge	55	9.525	3.97	7	0.08	-		●	●	●	●	●						
	DCGT11T302MCL	Up-sharp edge	55	9.525	3.97	7	0.18	-		●	●	●	●	●						
	DCGT11T304MCL	Up-sharp edge	55	9.525	3.97	7	0.38	-		●	●	●	●	●						
	DCGT070201FNAM3	Up-sharp edge	55	6.35	2.38	7	0.1	-							●		●			
	DCGT070202FNAM3	Up-sharp edge	55	6.35	2.38	7	0.2	-							●		●			
	DCGT070204FNAM3	Up-sharp edge	55	6.35	2.38	7	0.4	-							●		●			
	DCGT070200FNAM3	Up-sharp edge	55	6.35	2.38	7	0.03	-				●			●		●			
	DCGT070201MFNAM3	Up-sharp edge	55	6.35	2.38	7	0.08	-		●		●	●	●						
	DCGT070202MFNAM3	Up-sharp edge	55	6.35	2.38	7	0.18	-		●		●	●	●						
	DCGT070204MFNAM3	Up-sharp edge	55	6.35	2.38	7	0.38	-		●		●	●	●						
	DCGT11T300FNAM3	Up-sharp edge	55	9.525	3.97	7	0.03	-				●			●		●			
	DCGT11T301MFNAM3	Up-sharp edge	55	9.525	3.97	7	0.08	-		●		●	●	●	●		●			
	DCGT11T302FNAM3	Up-sharp edge	55	9.525	3.97	7	0.2	-					●		●		●			
	DCGT11T302MFNAM3	Up-sharp edge	55	9.525	3.97	7	0.18	-		●		●	●	●	●		●			
	DCGT11T304FNAM3	Up-sharp edge	55	9.525	3.97	7	0.4	-				●			●		●			
	DCGT11T304MFNAM3	Up-sharp edge	55	9.525	3.97	7	0.38	-		●		●	●	●	●		●			
	DCMT070202FNAM3	Up-sharp edge	55	6.35	2.38	7	0.2	-				●								
	DCMT070204FNAM3	Up-sharp edge	55	6.35	2.38	7	0.4	-				●								
	DCMT11T302FNAM3	Up-sharp edge	55	9.525	3.97	7	0.2	-				●								
DCMT11T304FNAM3	Up-sharp edge	55	9.525	3.97	7	0.4	-				●									
DCMT11T308FNAM3	Up-sharp edge	55	9.525	3.97	7	0.8	-				●									
	DCGT070201MAMX	Up-sharp edge	55	6.35	2.38	7	0.08	-			●	●			●					
	DCGT070202MAMX	Up-sharp edge	55	6.35	2.38	7	0.18	-			●	●			●					
	DCGT070204MAMX	Up-sharp edge	55	6.35	2.38	7	0.38	-			●	●			●					
	DCGT11T301MAMX	Up-sharp edge	55	9.525	3.97	7	0.08	-			●	●			●					
	DCGT11T302MAMX	Up-sharp edge	55	9.525	3.97	7	0.18	-			●	●			●					
	DCGT11T304MAMX	Up-sharp edge	55	9.525	3.97	7	0.38	-			●	●			●					
	DCGT070200AZ7	Up-sharp edge	55	6.35	2.38	7	0.03	-					●							
	DCGT070201MAZ7	Up-sharp edge	55	6.35	2.38	7	0.08	-					●							
	DCGT070202MAZ7	Up-sharp edge	55	6.35	2.38	7	0.18	-					●							
	DCGT11T300AZ7	Up-sharp edge	55	9.525	3.97	7	0.03	-				●	●	●			●			
	DCGT11T301MAZ7	Up-sharp edge	55	9.525	3.97	7	0.08	-				●	●	●			●			
	DCGT11T302MAZ7	Up-sharp edge	55	9.525	3.97	7	0.18	-				●	●	●			●			
	DCGT11T304MAZ7	Up-sharp edge	55	9.525	3.97	7	0.38	-				●	●	●			●			
	DCGT11T308AZ7	Up-sharp edge	55	9.525	3.97	7	0.8	-				●	●			●				
	DCMT11T304E004AZ8	E004	55	9.525	3.97	7	0.4	-									●			
	DCMT11T308E004AZ8	E004	55	9.525	3.97	7	0.8	-									●			



Steel	○	●	●	●	●	●	●	●	●
Stainless Steel	●	○	○	○	●	○	●	●	●
Cast Iron								●	
Non-Ferrous Material						○	○		●
Heat Resistant Alloy		●	○	○					
Hardened Material		○	○	○					
Others (non-metallic)									●

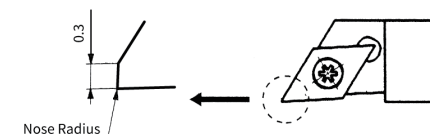
Shape	Item Number	CECC	EPSR	IC	S	AN	RE	BS	Carbide										Uncoated
									PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	CVD	CVD	
									ST4	DM4	DT4	QM3	TM4	VM1	ZM3	CP1	CP7	KM1	
	(ISO)		°	mm	mm	°	mm	mm											
	DCGT070200RS	Up-sharp edge	55	6.35	2.38	7	0.03	-			●			●	●				
	DCGT070200LS	Up-sharp edge	55	6.35	2.38	7	0.03	-						●	●				
	DCGT070201MRS	Up-sharp edge	55	6.35	2.38	7	0.08	-			●	●							
	DCGT070201RS	Up-sharp edge	55	6.35	2.38	7	0.1	-						●	●				
	DCGT070201LS	Up-sharp edge	55	6.35	2.38	7	0.1	-						●	●				
	DCGT070202MRS	Up-sharp edge	55	6.35	2.38	7	0.18	-			●	●							
	DCGT070202RS	Up-sharp edge	55	6.35	2.38	7	0.2	-						●	●				
	DCGT070202LS	Up-sharp edge	55	6.35	2.38	7	0.2	-						●	●				
	DCGT070204RS	Up-sharp edge	55	6.35	2.38	7	0.4	-						●					
	DCGT11T300RS	Up-sharp edge	55	9.525	3.97	7	0.03	-			●		●	●	●				
	DCGT11T300LS	Up-sharp edge	55	9.525	3.97	7	0.03	-						●					
	DCGT11T301MRS	Up-sharp edge	55	9.525	3.97	7	0.08	-			●	●	●						
	DCGT11T301RS	Up-sharp edge	55	9.525	3.97	7	0.1	-				●		●	●				
	DCGT11T301LS	Up-sharp edge	55	9.525	3.97	7	0.1	-						●					
	DCGT11T302MRS	Up-sharp edge	55	9.525	3.97	7	0.18	-			●	●	●						
	DCGT11T302RS	Up-sharp edge	55	9.525	3.97	7	0.2	-				●		●	●				
	DCGT11T302LS	Up-sharp edge	55	9.525	3.97	7	0.2	-						●					
	DCGT11T304MRS	Up-sharp edge	55	9.525	3.97	7	0.38	-			●	●	●						
	DCGT11T304RS	Up-sharp edge	55	9.525	3.97	7	0.4	-				●							
	DCGT070200RU	Up-sharp edge	55	6.35	2.38	7	0.03	-						●	●				
	DCGT070201RU	Up-sharp edge	55	6.35	2.38	7	0.1	-						●	●				
	DCGT070202RU	Up-sharp edge	55	6.35	2.38	7	0.2	-						●	●				
	DCGT070202LU	Up-sharp edge	55	6.35	2.38	7	0.2	-							●				
	DCGT11T300RU1	Up-sharp edge	55	9.525	3.97	7	0.03	-			●		●	●	●				
	DCGT11T300LU1	Up-sharp edge	55	9.525	3.97	7	0.03	-							●				
	DCGT11T301RU1	Up-sharp edge	55	9.525	3.97	7	0.1	-			●		●	●	●				
	DCGT11T301LU1	Up-sharp edge	55	9.525	3.97	7	0.1	-							●				
	DCGT11T302RU1	Up-sharp edge	55	9.525	3.97	7	0.2	-			●		●	●	●				
	DCGT11T302LU1	Up-sharp edge	55	9.525	3.97	7	0.2	-							●				
	DCGT11T304RU1	Up-sharp edge	55	9.525	3.97	7	0.4	-			●		●	●	●				
	DCGT11T304LU1	Up-sharp edge	55	9.525	3.97	7	0.4	-							●				
	DCET0702005RKHG	Up-sharp edge	55	6.35	2.38	7	0.05	-						●					
	DCET0702005LKHG	Up-sharp edge	55	6.35	2.38	7	0.05	-						●					
	DCET0702008RKHG	Up-sharp edge	55	6.35	2.38	7	0.08	-						●					
	DCET0702008LKHG	Up-sharp edge	55	6.35	2.38	7	0.08	-						●					
	DCET0702018RKHG	Up-sharp edge	55	6.35	2.38	7	0.18	-						●					
	DCET0702018LKHG	Up-sharp edge	55	6.35	2.38	7	0.18	-						●					
	DCET070202RKHG	Up-sharp edge	55	6.35	2.38	7	0.2	-						●					
	DCET070202LKHG	Up-sharp edge	55	6.35	2.38	7	0.2	-						●					
	DCET11T3005RKHG	Up-sharp edge	55	9.525	3.97	7	0.05	-					●	●					
	DCET11T3005LKHG	Up-sharp edge	55	9.525	3.97	7	0.05	-						●					
	DCET11T3008RKHG	Up-sharp edge	55	9.525	3.97	7	0.08	-					●	●					
	DCET11T3008LKHG	Up-sharp edge	55	9.525	3.97	7	0.08	-						●					
	DCET11T3018RKHG	Up-sharp edge	55	9.525	3.97	7	0.18	-					●	●					
	DCET11T3018LKHG	Up-sharp edge	55	9.525	3.97	7	0.18	-						●					
	DCET11T302RKHG	Up-sharp edge	55	9.525	3.97	7	0.2	-					●	●					
	DCET11T302LKHG	Up-sharp edge	55	9.525	3.97	7	0.2	-						●					
	DCET0702008RUHG	Up-sharp edge	55	6.35	2.38	7	0.08	-						●					
	DCET11T3008RUHG	Up-sharp edge	55	9.525	3.97	7	0.08	-						●					
	DCET11T301MRAT	Up-sharp edge	55	9.525	3.97	7	0.08	-						●					
	DCET11T302MRAT	Up-sharp edge	55	9.525	3.97	7	0.18	-						●					
	DCGT11T3005AM3-WP	Up-sharp edge	55	9.525	3.97	7	0.05	(0.3)		●	●	●							
	DCGT11T3015AM3-WP	Up-sharp edge	55	9.525	3.97	7	0.15	(0.3)		●	●	●							
	DCGT0702005RS-WP	Up-sharp edge	55	6.35	2.38	7	0.05	(0.3)				●		●	●				
	DCGT0702005LS-WP	Up-sharp edge	55	6.35	2.38	7	0.05	(0.3)							●				
	DCGT0702015RS-WP	Up-sharp edge	55	6.35	2.38	7	0.15	(0.3)				●			●				
	DCGT0702015LS-WP	Up-sharp edge	55	6.35	2.38	7	0.15	(0.3)							●				
	DCGT11T3005RS-WP	Up-sharp edge	55	9.525	3.97	7	0.05	(0.3)				●		●	●				
	DCGT11T3015RS-WP	Up-sharp edge	55	9.525	3.97	7	0.15	(0.3)				●			●				



Steel	○	●	●	●	●	●	●	●	●
Stainless Steel	●	○	○	○	●	○	●	●	●
Cast Iron								●	
Non-Ferrous Material						○	○		●
Heat Resistant Alloy		●	○	○					
Hardened Material		○	○	○					
Others (non-metallic)									●

Shape	Item Number	CECC	EPSR	IC	S	AN	RE	BS	Carbide										Uncoated
									PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	CVD	CVD	
									ST4	DM4	DT4	QM3	TM4	VM1	ZM3	CP1	CP7	KM1	
	(ISO)		°	mm	mm	°	mm	mm											
	DCGT0702005RU-WP	Up-sharp edge	55	6.35	2.38	7	0.05	(0.3)				●		●	●				
	DCGT0702015RU-WP	Up-sharp edge	55	6.35	2.38	7	0.15	(0.3)				●			●				
	DCGT11T3005RU1-WP	Up-sharp edge	55	9.525	3.97	7	0.05	(0.3)				●		●	●				
	DCGT11T3015RU1-WP	Up-sharp edge	55	9.525	3.97	7	0.15	(0.3)				●			●				
	DCGW07020V	Up-sharp edge	55	6.35	2.38	7	0	-						●					
	DCGW070200FN	Up-sharp edge	55	6.35	2.38	7	0.03	-							●				
	DCGW070200H	Up-sharp edge	55	6.35	2.38	7	0.03	-										●	
	DCGW070201FN	Up-sharp edge	55	6.35	2.38	7	0.1	-							●				
	DCGW070201H	Up-sharp edge	55	6.35	2.38	7	0.1	-										●	
	DCGW070202H	Up-sharp edge	55	6.35	2.38	7	0.2	-										●	
	DCGW11T30V	Up-sharp edge	55	9.525	3.97	7	0	-						●					
	DCGW11T300FN	Up-sharp edge	55	9.525	3.97	7	0.03	-							●				
	DCGW11T300H	Up-sharp edge	55	9.525	3.97	7	0.03	-										●	
	DCGW11T301FN	Up-sharp edge	55	9.525	3.97	7	0.1	-							●				
	DCGW11T301H	Up-sharp edge	55	9.525	3.97	7	0.1	-										●	
	DCGW11T302H	Up-sharp edge	55	9.525	3.97	7	0.2	-										●	
	DCGW0702005RH-WP	Up-sharp edge	55	6.35	2.38	7	0.05	(0.3)											●
	DCGW11T3005RH-WP	Up-sharp edge	55	9.525	3.97	7	0.05	(0.3)											●

Features of DC.T-WP insert



NTK WP style inserts have a wiper facet design.

The insert has a 0.3mm flat on the cutting edge when the insert is set into the toolholder.

The flat on the cutting edge ensures a superior surface when feed rates are increased.

WP style inserts can be used in toolholders: SDJC, CH-SDUL and DS-SDUL.

VC.. series/Inserts Carbide

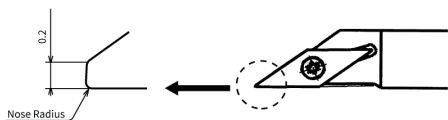
VC..



Steel	○	●	●	●	●	●	●	●	●
Stainless Steel	●	○	○	○	●	○	●	●	●
Cast Iron								●	
Non-Ferrous Material						○		○	●
Heat Resistant Alloy		●	○	○					
Hardened Material		○	○	○					
Others (non-metallic)									●

Shape	Item Number	CECC	EPSR	IC	S	AN	RE	BS	Carbide											Uncoated
									PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	
									ST4	DM4	DT4	QM3	TM4	VM1	ZM3	CP1	CP7	KM1		
(ISO)	°	mm	mm	°	mm	mm														
	VCGT110301MYL	Up-sharp edge	35	6.35	3.18	7	0.08	-	●	●	●	●	●							
	VCGT110302MYL	Up-sharp edge	35	6.35	3.18	7	0.18	-	●	●	●	●	●							
	VCGT110304MYL	Up-sharp edge	35	6.35	3.18	7	0.38	-	●	●	●	●	●							
	VCGT110202MCL	Up-sharp edge	35	6.35	2.38	7	0.18	-		●	●	●	●	●						
	VCGT110301MCL	Up-sharp edge	35	6.35	3.18	7	0.08	-	●	●	●	●	●							
	VCGT110302MCL	Up-sharp edge	35	6.35	3.18	7	0.18	-	●	●	●	●	●							
	VCGT110300FNAM3	Up-sharp edge	35	6.35	3.18	7	0.03	-			●		●	●						
	VCGT110301MFNAM3	Up-sharp edge	35	6.35	3.18	7	0.08	-	●		●	●	●	●	●					
	VCGT110301FNAM3	Up-sharp edge	35	6.35	3.18	7	0.1	-							●	●				
	VCGT110302MFNAM3	Up-sharp edge	35	6.35	3.18	7	0.18	-	●		●	●	●	●	●					
	VCGT110302FNAM3	Up-sharp edge	35	6.35	3.18	7	0.2	-							●	●				
	VCGT110304MFNAM3	Up-sharp edge	35	6.35	3.18	7	0.38	-	●		●	●	●	●	●					
	VCMT110302FNAM3	Up-sharp edge	35	6.35	3.18	7	0.2	-		●										
	VCMT110304FNAM3	Up-sharp edge	35	6.35	3.18	7	0.4	-		●										
	VCGT110300AZ7	Up-sharp edge	35	6.35	3.18	7	0.03	-				●				●				
	VCGT110301MAZ7	Up-sharp edge	35	6.35	3.18	7	0.08	-				●				●				
	VCGT110302MAZ7	Up-sharp edge	35	6.35	3.18	7	0.18	-				●				●				
	VCGT110304MAZ7	Up-sharp edge	35	6.35	3.18	7	0.38	-				●				●				
	VCGT130300FR2M	Up-sharp edge	35	7.94	3.18	7	-	-		●										
	VCGT130300FL2M	Up-sharp edge	35	7.94	3.18	7	-	-		●										
	VCGT130301FR2M	Up-sharp edge	35	7.94	3.18	7	-	-		●										
	VCGT130301FL2M	Up-sharp edge	35	7.94	3.18	7	-	-		●										
	VCGT110300RU	Up-sharp edge	35	6.35	3.18	7	0.03	-						●	●					
	VCGT110301MRU	Up-sharp edge	35	6.35	3.18	7	0.08	-			●									
	VCGT110301RU	Up-sharp edge	35	6.35	3.18	7	0.1	-						●	●					
	VCGT110302MRU	Up-sharp edge	35	6.35	3.18	7	0.18	-			●									
	VCGT110302RU	Up-sharp edge	35	6.35	3.18	7	0.2	-						●	●					
	VCET1103008RUHG	Up-sharp edge	35	6.35	3.18	7	0.08	-						●						
	VCGT1103005RU-WP	Up-sharp edge	35	6.35	3.18	7	0.05	(0.2)						●	●					
	VCGT110301RU-WP	Up-sharp edge	35	6.35	3.18	7	0.1	(0.2)						●	●					
	VCGT1103005RSX-WP	Ⓜ	Up-sharp edge	35	6.35	3.18	7	0.05	(0.2)						●	●				
	VCGT110301RSX-WP	Ⓜ	Up-sharp edge	35	6.35	3.18	7	0.1	(0.2)						●	●				
	VCGW110300H	Up-sharp edge	35	6.35	3.18	7	0.03	-												●
	VCGW110301H	Ⓜ	Up-sharp edge	35	6.35	3.18	7	0.1	-											●
	VCGW110302H	Ⓜ	Up-sharp edge	35	6.35	3.18	7	0.2	-											●

Features of VCGT-WP insert



NTK WP style inserts have a wiper facet design.

The insert has a 0.2mm flat on the cutting edge when the insert is set into the toolholder.

The flat on the cutting edge ensures a superior surface when feed rates are increased.

WP style inserts can be used in toolholders: SVAC

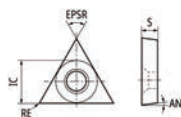
VP..



Shape	Item Number	CECC	EPSR	IC	S	AN	RE	BS	Carbide											KM1 Uncoated
									PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	
									ST4	DM4	DT4	QM3	TM4	VM1	ZM3	CP1	CP7			
(ISO)	°	mm	mm	°	mm	mm	ST4	DM4	DT4	QM3	TM4	VM1	ZM3	CP1	CP7					
	VPET0802005LKHG	Up-sharp edge	35	4.76	2.38	11	0.05	-								●				
	VPET0802008RKHG	Up-sharp edge	35	4.76	2.38	11	0.08	-		●			●	●						
	VPET0802008LKHG	Up-sharp edge	35	4.76	2.38	11	0.08	-						●						
	VPET0802018RKHG	Up-sharp edge	35	4.76	2.38	11	0.18	-					●	●						
	VPET0802018LKHG	Up-sharp edge	35	4.76	2.38	11	0.18	-						●						
	VPET080202RKHG	Up-sharp edge	35	4.76	2.38	11	0.2	-					●	●						
	VPET080202LKHG	Up-sharp edge	35	4.76	2.38	11	0.2	-						●						
	VPET1103005RKHG	Up-sharp edge	35	6.35	3.18	11	0.05	-					●	●						
	VPET1103005LKHG	Up-sharp edge	35	6.35	3.18	11	0.05	-						●						
	VPET1103008RKHG	Up-sharp edge	35	6.35	3.18	11	0.08	-					●	●						
	VPET1103008LKHG	Up-sharp edge	35	6.35	3.18	11	0.08	-						●						
	VPET1103018RKHG	Up-sharp edge	35	6.35	3.18	11	0.18	-					●	●						
	VPET1103018LKHG	Up-sharp edge	35	6.35	3.18	11	0.18	-						●						
VPET110302RKHG	Up-sharp edge	35	6.35	3.18	11	0.2	-					●	●							
VPET110302LKHG	Up-sharp edge	35	6.35	3.18	11	0.2	-						●							
	VPET0802008LUHG	Up-sharp edge	35	4.76	2.38	11	0.08	-			●									
	VPET0802008RUHG	Up-sharp edge	35	4.76	2.38	11	0.08	-			●									
	VPGT110300FNAM3	Up-sharp edge	35	6.35	3.18	11	0.03	-			●			●						
	VPGT110301MFNAM3	Up-sharp edge	35	6.35	3.18	11	0.08	-	●		●	●	●							
	VPGT110302MFNAM3	Up-sharp edge	35	6.35	3.18	11	0.18	-	●		●	●	●							

TC.. series/Inserts Carbide

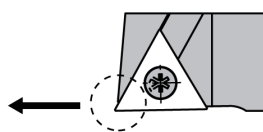
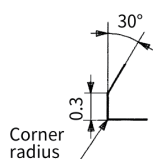
TC..



Steel	○	●	●	●	●	●	●	●	●
Stainless Steel	●	○	○	○	●	○	●	●	●
Cast Iron								●	
Non-Ferrous Material						○		○	●
Heat Resistant Alloy		●	○	○					
Hardened Material		○	○	○					
Others (non-metallic)									●

Shape	Item Number	CECC	EPSR	IC	S	AN	RE	BS	Carbide											Uncoated
									PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	CVD	CVD		
									ST4	DM4	DT4	QM3	TM4	VM1	ZM3	CP1	CP7	KM1		
(ISO)	°	mm	mm	°	mm	mm														
	TCGT090201RS	Up-sharp edge	60	5.56	2.38	7	0.1	-							●	●				
	TCGT090201LS	Up-sharp edge	60	5.56	2.38	7	0.1	-							●					
	TCGT090202RS	Up-sharp edge	60	5.56	2.38	7	0.2	-								●				
	TCGT110201RS	Up-sharp edge	60	6.35	2.38	7	0.1	-							●	●				
	TCGT110201LS	Up-sharp edge	60	6.35	2.38	7	0.1	-							●					
	TCGT090201RU	Up-sharp edge	60	5.56	2.38	7	0.1	-								●				
	TCGT090202RU	Up-sharp edge	60	5.56	2.38	7	0.2	-								●				
	TCGT0902005RS-WP	Up-sharp edge	60	5.56	2.38	7	0.05	(0.3)								●				
	TCGT0902005LS-WP	Up-sharp edge	60	5.56	2.38	7	0.05	(0.3)								●				
	TCGT0902015RS-WP	Up-sharp edge	60	5.56	2.38	7	0.15	(0.3)								●				
	TCGT0902015LS-WP	Up-sharp edge	60	5.56	2.38	7	0.15	(0.3)								●				
	TCGT1102005RS-WP	Up-sharp edge	60	6.35	2.38	7	0.05	(0.3)								●				
	TCGT1102015RS-WP	Up-sharp edge	60	6.35	2.38	7	0.15	(0.3)								●				
	TCGT0902005RU-WP	Up-sharp edge	60	5.56	2.38	7	0.05	(0.3)								●				
	TCGT0902015RU-WP	Up-sharp edge	60	5.56	2.38	7	0.15	(0.3)								●				
	TCGT1102005RU1-WP	Up-sharp edge	60	6.35	2.38	7	0.05	(0.3)								●				
	TCGT1102015RU1-WP	Up-sharp edge	60	6.35	2.38	7	0.15	(0.3)								●				
	TCGW090200FN	Up-sharp edge	60	5.56	2.38	7	0.03	-								●				
	TCGW090201FN	Up-sharp edge	60	5.56	2.38	7	0.1	-								●				
	TCGW110200FN	Up-sharp edge	60	6.35	2.38	7	0.03	-								●				
	TCGW110201FN	Up-sharp edge	60	6.35	2.38	7	0.1	-								●				

Features of TCGT-WP insert



NTK WP style inserts have a wiper facet design.

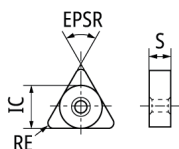
The insert has a 0.3mm flat on the cutting edge when the insert is set into the toolholder.

The flat on the cutting edge ensures a superior surface when feed rates are increased.

WP style inserts can be used in toolholders: STAC

TN.. series/Inserts Carbide

TN..

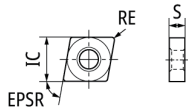


Steel	○	●	●	●	●	●	●	●	●
Stainless Steel	●	○	○	○	●	○	●	●	●
Cast Iron								●	
Non-Ferrous Material						○	○		●
Heat Resistant Alloy		●	○	○					
Hardened Material		○	○	○					
Others (non-metallic)									●

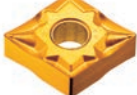
Shape	Item Number	CECC	EPSR	IC	S	AN	RE	BS	Carbide											Uncoated
									PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	
									ST4	DM4	DT4	QM3	TM4	VM1	ZM3	CP1	CP7	KM1		
(ISO)	°	mm	mm	°	mm	mm	ST4	DM4	DT4	QM3	TM4	VM1	ZM3	CP1	CP7	KM1				
	TNGG160401MFNUL	Up-sharp edge	60	9.525	4.76	-	0.1	-	●	●		●	●							
	TNGG160402MFNUL	Up-sharp edge	60	9.525	4.76	-	0.2	-	●	●		●	●							
	TNGG160404MFNUL	Up-sharp edge	60	9.525	4.76	-	0.4	-	●	●		●	●							
	TNGG160408MFNUL	Up-sharp edge	60	9.525	4.76	-	0.8	-	●	●		●	●							
	TNGG160402FNZP	Up-sharp edge	60	9.525	4.76	-	0.2	-		●		●	●	●	●					
	TNGG160404FNZP	Up-sharp edge	60	9.525	4.76	-	0.4	-		●		●	●	●	●					
	TNGG160408FNZP	Up-sharp edge	60	9.525	4.76	-	0.8	-		●		●		●	●					
	TNMG160408G	-	60	9.525	4.76	-	0.8	-								●				
	TNMG160412G	-	60	9.525	4.76	-	1.2	-								●				
	TNMG160404T00525Z5	T00525	60	9.525	4.76	-	0.4	-		●		●								
	TNMG160408T00525Z5	T00525	60	9.525	4.76	-	0.8	-		●		●								
	TNEG160402FLD1	Up-sharp edge	60	9.525	4.76	-	0.2	-					●							
	TNEG160402FRD1	Up-sharp edge	60	9.525	4.76	-	0.2	-					●							
	TNEG160404FLD1	Up-sharp edge	60	9.525	4.76	-	0.4	-					●							
	TNEG160404FRD1	Up-sharp edge	60	9.525	4.76	-	0.4	-					●							
	TNEG160408FLD1	Up-sharp edge	60	9.525	4.76	-	0.8	-					●							
	TNEG160408FRD1	Up-sharp edge	60	9.525	4.76	-	0.8	-					●							
	TNGG160401FRU2	Up-sharp edge	60	9.525	4.76	-	0.1	-						●	●					
	TNGG160402FLU2	Up-sharp edge	60	9.525	4.76	-	0.2	-		●					●					
	TNGG160402FRU2	Up-sharp edge	60	9.525	4.76	-	0.2	-		●					●					
	TNGG160404FLU2	Up-sharp edge	60	9.525	4.76	-	0.4	-		●					●					
	TNGG160404FRU2	Up-sharp edge	60	9.525	4.76	-	0.4	-		●					●					
	TNGG160408FLU2	Up-sharp edge	60	9.525	4.76	-	0.8	-							●					
	TNGG160408FRU2	Up-sharp edge	60	9.525	4.76	-	0.8	-							●					
	TNGG160402FRC	Up-sharp edge	60	9.525	4.76	-	0.2	-								●				
	TNGG160401FRDA	Up-sharp edge	60	9.525	4.76	-	0.1	-						●	●					

CN.. series/Inserts Carbide

CN..

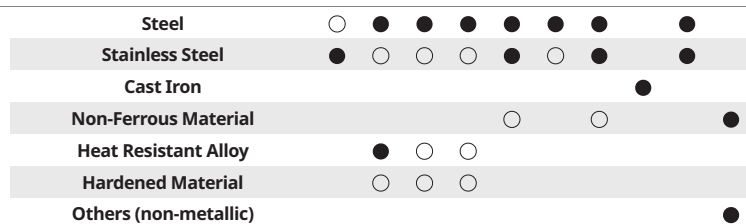


Steel	○	●	●	●	●	●	●	●	●
Stainless Steel	●	○	○	○	●	○	●	●	●
Cast Iron								●	
Non-Ferrous Material						○		○	●
Heat Resistant Alloy		●	○	○					
Hardened Material		○	○	○					
Others (non-metallic)									●

Shape	Item Number	CECC	EPSR	IC	S	AN	RE	BS	Carbide											Uncoated
									PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	
									ST4	DM4	DT4	QM3	TM4	VM1	ZM3	CP1	CP7	KM1		
(ISO)	°	mm	mm	°	mm	mm														
	CNGG120404FNUL	Up-sharp edge	80	12.7	4.76	-	0.4	-		●		●	●							
	CNGG120408FNUL	Up-sharp edge	80	12.7	4.76	-	0.8	-		●		●	●							
	CNGG120404FNZP	Up-sharp edge	80	12.7	4.76	-	0.4	-		●		●				●				
	CNGG120408FNZP	Up-sharp edge	80	12.7	4.76	-	0.8	-		●		●				●				
	CNMG120408T00525Z5	T00525	80	12.7	4.76	-	0.8	-		●		●								
	CNMG120408G	-	80	12.7	4.76	-	0.8	-										●		
	CNMG120412G	-	80	12.7	4.76	-	1.2	-										●		
	CNMG120416G	-	80	12.7	4.76	-	1.6	-										●		

Front Turning
Q

DN..



Front Turning

DNGA

