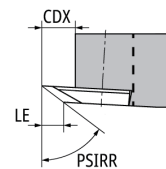
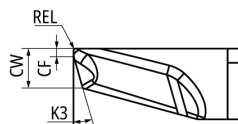
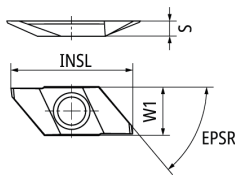


TBP.. series/Inserts Carbide

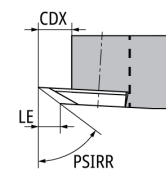
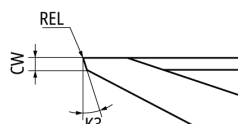
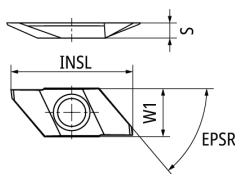
TBP-BM with BM-Chipbreaker



● Diagram shows right-hand tool

Item Number	Hand	Chip-breaker	LE	CDX	CF	CW	EPSR	INSL	K3	PSIRR	REL	S	W1	Carbide PVD						PCD
			mm	mm	mm	mm	°	mm	°	mm	°	mm	mm	DM4	ST4	TM4	VM1	ZM3	KM1	PD1
TBP72FR05-BM	R	Yes	3.5	5.3	0.3	1.4	50	20	16	72	0.05	2.5	8	●	●	●				
TBP72FR10M-BM	R	Yes	3.5	5.3	0.3	1.4	50	20	16	72	0.08	2.5	8	●	●	●				
TBP72FR20M-BM	R	Yes	3.5	5.3	0.3	1.4	50	20	16	72	0.18	2.5	8	●	●	●				

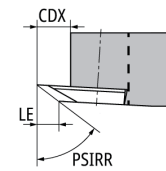
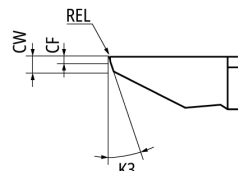
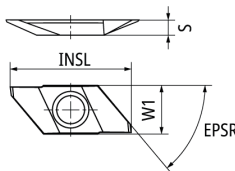
TBP with Chipbreaker



● Diagram shows right-hand tool

Item Number	Hand	Chip-breaker	LE	CDX	CF	CW	EPSR	INSL	K3	PSIRR	REL	S	W1	Carbide PVD						PCD
			mm	mm	mm	mm	°	mm	°	mm	°	mm	mm	DM4	ST4	TM4	VM1	ZM3	KM1	PD1
TBP55FR00	R	Yes	3	5.3	-	0.5	50	20	15	55	0	2.5	8				●	●		
TBP55FR10	R	Yes	3	5.3	-	0.5	50	20	15	55	0.1	2.5	8				●	●		
TBP60FR00	R	Yes	3.7	5.3	-	0.5	50	20	15	60	0	2.5	8			●	●	●		
TBP60FR10	R	Yes	3.7	5.3	-	0.5	50	20	15	60	0.1	2.5	8			●	●	●		
TBP60FR10M	R	Yes	3.7	5.3	-	0.5	50	20	15	60	0.08	2.5	8				●			
TBP60FR20	R	Yes	3.7	5.3	-	0.5	50	20	15	60	0.2	2.5	8			●				
TBP55FL00	L	Yes	3	5.3	-	0.5	50	20	15	55	0	2.5	8					●		
TBP55FL10	L	Yes	3	5.3	-	0.5	50	20	15	55	0.1	2.5	8					●		
TBP60FL00	L	Yes	3.7	5.3	-	0.5	50	20	15	60	0	2.5	8					●		
TBP60FL10	L	Yes	3.7	5.3	-	0.5	50	20	15	60	0.1	2.5	8					●		

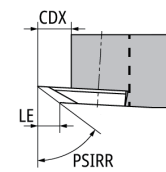
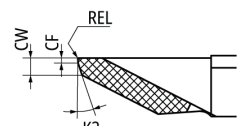
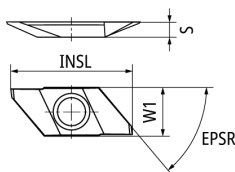
TBP-V without Chipbreaker



● Diagram shows right-hand tool

Item Number	Hand	Chip-breaker	LE	CDX	CF	CW	EPSR	INSL	K3	PSIRR	REL	S	W1	Carbide PVD						PCD
			mm	mm	mm	°	mm	°	mm	°	mm	mm	mm	DM4	ST4	TM4	VM1	ZM3	KM1	PD1
TBP60FRV	R	No	4.8	5.3	0.2	0.7	50	20	15	60	0	2.5	8				●	●	●	
TBP60FRV05	R	No	4.8	5.3	0.2	0.7	50	20	15	60	0.05	2.5	8				●	●	●	
TBP60FRV10	R	No	4.8	5.3	0.2	0.7	50	20	15	60	0.1	2.5	8				●	●	●	
TBP60FLV	L	No	4.8	5.3	0.2	0.7	50	20	15	60	0	2.5	8				●			

TBP-P PCD tipped

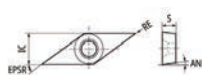


● Diagram shows right-hand tool

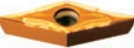
Item Number	Hand	Chip-breaker	LE	CDX	CF	CW	EPSR	INSL	K3	PSIRR	REL	S	W1	Carbide PVD						PCD
			mm	mm	mm	°	mm	°	mm	°	mm	mm	mm	DM4	ST4	TM4	VM1	ZM3	KM1	PD1
TBP60FRV00-P	R	No	4	5.3	0.2	0.7	50	20	15	60	0	2.5	8							●
TBP60FRV10-P	R	No	4	5.3	0.2	0.7	50	20	15	60	0.1	2.5	8							●

VC.. series/Inserts Carbide

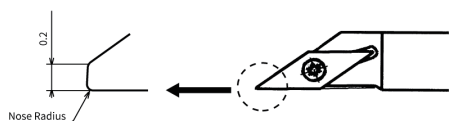
VC..



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	ST4	DM4	DT4	QM3	TM4	VM1	ZM3	CP1	CP7	KM1				
	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	-		●										
	VCGT110300MAZ7	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	-				●				●				
	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