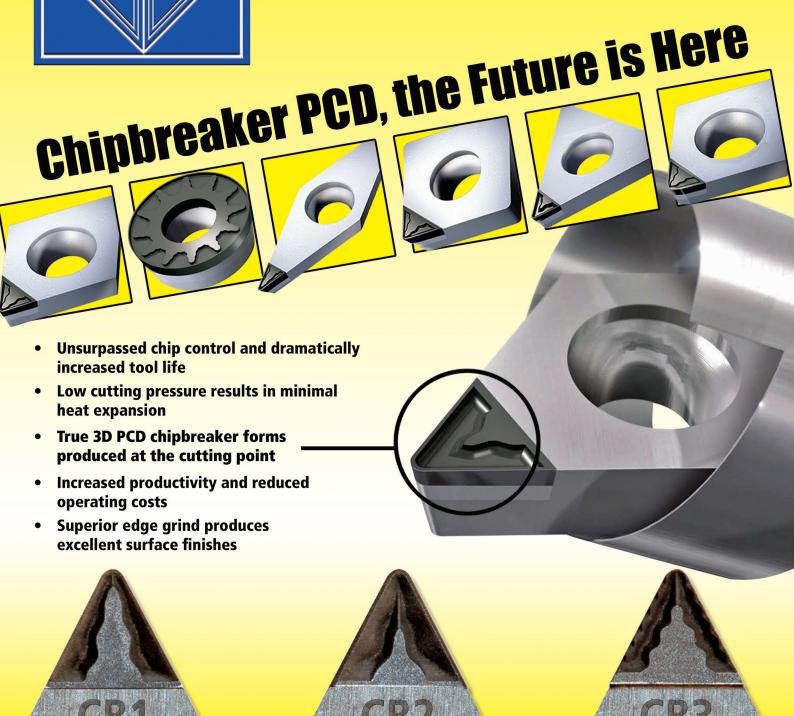


PCD Diamond

Optimized for Speed



Super Saver Pricing

BECKER PCD / TFC Technical Information

BECKER Designation	ISO Designation	Description	Application
Diamond Grad	des		
TFC	PD	Solid polycrystalline CVD-diamond without binder and without carbide reinforcement, perfect cutting edge sharpness and cutting edges without any microdamage. No cutting pressure and smallest tolerances. Highest wear resistance and very high thermal conductivity (HSC and HPC), higher toughness.	From super-finishing to semi- finishing of all non-ferrous metals and non-ferrous composites with high content of abrasive reinforcement or silicon.
PDC	DP Compound	Polycrystalline diamond (compound cutting material), carbide reinforced diamond of fine grit size, good cutting edge sharpness and low cutting pressure allowing for minor tolerances. Lower wear resistance at higher toughness.	Finishing of all non-ferrous metals and non-metallics with low content of abrasive reinforcement or silicon.
PDC-S	DP Compound	Polycrystalline diamond (compound cutting material), carbide reinforced diamond of coarse grit size, good edge sharpness and low cutting pressure allowing for minor tolerances. Ideal for milling. Lower wear resistance at higher toughness.	Finishing and milling of all non- ferrous and non-metallics with medium content of abrasive reinforcement or silicon.
PDC-CU-S	DP Compound	Solid polycrystalline diamond (compound cutting material) without carbide reinforcement, coarse grit size, good cutting edge sharpness and low cutting pressure allowing for minor tolerances. Well suited for milling tools with high depth of cut. High wear resistance at higher toughness due to large diamond volume.	Finishing and milling of all non- ferrous metals and non-metallics with high content of abrasive reinforcement or silicon.

Chipbreaker Designation	Application	Radius	D.O.C. (ap) Min Max.	FEED (ipr) Min Max.
Chipbreaker C	Cutting Information			
		.004"	.002"012"	.0008"002"
	AND CONTRACTOR OF THE CONTRACT	.008"	.0025"016"	.0011"003"
CB1	Medium to finish machining with low cutting forces for low burr, high tolerance, high surface quality.	.016"	.004"032"	.003"006"
	buil, high tolerance, high surface quanty.	.031"	.006"040"	.003"008"
		.047"	.012"060"	.0045"010"
General purpose machining. Strong, sharp cutting edge for high depths of cut and feed rates producing good surface	.004"			
	.008"	.020"032"	.003"005"	
	.016"	.024"060"	.003"008"	
	high depths of cut and feed rates producing good surface quality.	.031"	.028"060"	.006"012"
		.047"	.032"080"	.008"016"
		.004"	-	-
	Comi Doughing to youghing Coverted adaptor superior ship	.008"	-	-
CB3	Semi-Roughing to roughing. Serrated edge for superior chip control at high feeds and depths of cut.	.016"	.040"120"	.008"014"
	common at might recast and departs of each	.031"	.040"120"	.008"014"
		.047"	.040"120"	.008"014"

Speed Information	TFC (Vc : SFM)	PDC (Vc : SFM)	PDC-S (Vc : SFM)	PDC-CU-S (Vc : SFM)
Materials				
Non-ferrous metals, aluminum alloys without silicon	1600 - 15000	1300 - 8000	1300 - 8000	1300 - 8000
Non-ferrous metals, aluminum alloys with less than 12% silicon	1300 - 11000	1300 - 6500	1950 - 6500	1950 - 6500
Non-ferrous metals, aluminum alloys with more than 12 % silicon	1300 - 6000		1300 - 4800	1300 - 4800
Brass, bronze, copper, copper alloys, precious metals	1300 - 7000	975 - 5800	975 - 5500	975 - 5500
Non-metallics, pure plastics without reinforcements	1300 - 6000	975 - 3900		
Non-metallics, plastics with reinforcements	650 - 4500		650 - 3000	650 - 3000



BECKER DIAMOND TOOLS of Germany introduces revolutionary 3D PCD chipbreaking technology for the machining of non-ferrous materials. Through the use of advanced proprietary technology, true 3D PCD chipbreaker forms are produced at the cutting point of the PCD segment. The performance results of this dramatic innovation, which is available in roughing and finishing forms, are unsurpassed chip control and dramatically increased tool life. The higher shear angles integrated within the chipbreaker produces lower cutting pressures and less heat expansion of the workpiece.

The by-product of this machining dynamic is precise dimensional accuracy, eliminating the need for secondary operations while both increasing productivity and reducing operating costs. The controlled short chips coming off the workpiece allow for uninterrupted production runs and practically eliminates costly maintenance stoppages traditionally required when clearing machines of long uncontrolled swarf.

CCGT-CB1 Positive	Neutral (with Chip Control)								TFC	PDC	PDC-S	PDC-CU-S
		Designation	d	d¹	s	-1	PDC I ¹	TFC I ¹	r	PD		DP	
		CCGT-21.50.5-CB1					.134	.094	.008	\$86.00	\$ 65 .00		
	S	CCGT-21.51-CB1	.250	.110	.094	.254	.126	.087	.016	\$86.00	\$ 65 .00		
		CCGT-21.52-CB1					.118	.079	.031	\$95.00	\$ 71 ^{.00}		
		CCGT-32.50.5-CB1					.177		.008		\$67 ^{.00}		
	8.71	CCGT-32.51-CB1	.375	.173	.156	.382	.169	.087	.016	\$89.00	\$ 67 ^{.00}		
	7 1	CCGT-32.52-CB1					.161		.031		\$ 72 ^{.00}		
		CCGT-431-CB1	.500	.217	.187	.508	.169		.016		\$ 68 .00		
		CCGT-432-CB1	.500	.211	.101	.506	.161		.031		\$ 74 .00		

CCGT-CB2 Positive	Neutral (with Chip Control)								TFC	PDC	PDC-S	PDC-CU-S
		Designation	d	d¹	s	-1	PDC I ¹	TFC I ¹	r	PD		DP	
		CCGT-21.50.5-CB2					.134	.094	.008	\$86.00	\$ 65 .00	\$65 ^{.00}	
	c	CCGT-21.51-CB2	.250	.110	.094	.254	.126	.087	.016	\$86.00		\$ 65 .00	
		CCGT-21.52-CB2					.118	.079	.031	\$95.00	\$ 71 ^{.00}	\$ 71 ^{.00}	
		CCGT-32.50.5-CB2					.177	.094	.008	\$89.00		\$ 67 ^{.00}	
	8.7	CCGT-32.51-CB2	.375	.173	.156	.382	.169	.087	.016	\$89.00		\$67 ^{.00}	
		CCGT-32.52-CB2					.161	.079	.031	\$96.00	\$ 72 .00	\$ 72 ^{.00}	
		CCGT-431-CB2	.500	.217	.187	.508	.169	.087	.016	\$92.00		\$ 68 .00	
		CCGT-432-CB2	.500	.211	.101	.508	.161	.079	.031	\$99.00	\$ 74 .00	\$ 74 .00	

CCGT-CB3 Positive	Designation d d¹ s I PDC I² TFC I² r CCGT-21.51-CB3 .250 .110 .094 .254 .126 .01											PDC-S	PDC-CU-S
	s	Designation	d	d¹	s	1	PDC I1	TFC I ¹	r	PD		DP	
	9 0	CCGT-21.51-CB3	.250	.110	.094	.254	.126		.016				\$68 ^{.00}
	8.71-	CCGT-32.51-CB3	275	172	150	202	.169		.016				\$ 72 ^{.00}
	o. 1 →	CCGT-32.52-CB3	.375	5 .173	3 .156	.382	.161		.031				\$72.00

CCGT-GS-CB1 Pos	T-GS-CB1 Positive Neutral (with Chip Control) Designation d d¹ s l l¹ CCGT-21.51L-GS-CB1 .254											PDC-CU-S
	^ -	Designation	d	d¹	s	1	l ₁	r	PD		DP	
		CCGT-21.51L-GS-CB1					254	016			\$99.00	
	() 5	CCGT-21.51R-GS-CB1	.250	.110	.094		.254	.016			\$99.00	
***************************************	8.7	CCGT-21.52L-GS-CB1	.230	.110	.094		254	021			\$99.00	
	CCGT-21.52R-GS-CB1										\$99.00	

CCGT-GS-CB2 Pos	sitive Neutral (whole edge		TFC	PDC	PDC-S	PDC-CU-S						
	^ -	Designation	d	d¹	s	ı	Įι	r	PD		DP	
	88 - 5	CCGT-21.52L-GS-CB2	250	110	004		254	016			\$99.00	
TABLES	8.7	CCGT-21.52R-GS-CB2	.250	.110	.094		.254	.016			\$99.00	
	~ ~ - -	CCGT-32.51L-GS-CB2	.375	.173	.156		.382	.016	\$ 119 ^{.00}		\$ 109 ^{.00}	

Right hand shown

CNGA-CB3 Negativ											PDC	PDC-S	PDC-CU-S
	8 -1 S I-	Designation	d	d¹	s	ı	PDC I ¹	TFC I ¹	r	PD		DP	
		CNGA-432-CB3	.500	.202	.187	.508	.236		.031				\$ 82 ^{.00}
Section 1	8.7	CNGA-433-CB3	.500	.202	.101	.506	.224		.047				\$ 82 ^{.00}

CPGT-CB1 Positive	Designation d d ¹ s PDC 1 TFC 1											PDC-S	PDC-CU-S
		Designation	d	d¹	s	ı	PDC I ¹	TFC I ¹	r	PD		DP	
	S	CPGT-1.81.50.5-CB1	210	005	004	22	.094		.008		\$ 63 .00		
		CPGT-1.81.51-CB1	.219	.085	.094	.22	.087		.016		\$63.00		
	80.71	CPGT-21.50.5-CB1	250	110	.094	254	.134	.094	.008	\$86.00	\$ 65 .00		
		CPGT-21.51-CB1	.250	.110	.094	.254	.126	.087	.016	\$86.00	\$ 65 .00		

CPGT-CB2 Positive	T-CB2 Positive Neutral (with Chip Control) Designation d d¹ s l PDC l² TFC l² CPGT-21.50.5-CB2 .134 .094												PDC-CU-S
		Designation	d	d¹	s	-1	PDC I ¹	TFC I ¹	r	PD		DP	
	5	CPGT-21.50.5-CB2	250	110	004	254	.134	.094	.008	\$ 86 .00	\$65 ^{.00}	\$65 ^{.00}	
	57	CPGT-21.51-CB2	.250	.110	.094	.254	.126	.087	.016	\$86.00	\$65 ^{.00}	\$ 65 .00	

DCGT-CB1 Positive	Neutral (with Chip Control)								TFC	PDC	PDC-S	PDC-CU-S
		Designation	d	d¹	s	1	PDC I ¹	TFC I ¹	r	PD		DP	
		DCGT-21.50-CB1					.150		.004		\$ 68 .00	\$ 68 .00	
		DCGT-21.50.5-CB1	.250	.110	.094	.305	.146	.102	.008	\$88.00	\$ 68 .00	\$ 68 .00	\$69 ^{.00}
	3, 1 n + 1	DCGT-21.51-CB1	.250 .11	.110	.094	.303	.134	.091	.016	\$88.00	\$ 68 .00	\$ 68 .00	\$ 69 ^{.00}
		DCGT-21.52-CB1					.118	.079	.031	\$ 95 .00	\$ 75 ^{.00}		
		DCGT-32.50-CB1					.189		.004		\$ 72 ^{.00}	\$ 72 ^{.00}	
		DCGT-32.50.5-CB1	275	.173	.156	.457	.185	.102	.008	\$89.00	\$ 72 ^{.00}	\$ 72 ^{.00}	
		DCGT-32.51-CB1	.375	.113	.130	.437	.169	.091	.016	\$89.00	\$ 72 ^{.00}	\$ 72 ^{.00}	\$ 75 .00
		DCGT-32.52-CB1					.157	.079	.031	\$ 96 .00	\$ 81 .00	\$ 81 .00	\$ 81 .00

DCGT-CB2 Positive	Neutral (with Chip Control)								TFC	PDC	PDC-S	PDC-CU-S
	Trouble (mail only control	Designation	d	d¹	s		PDC I ¹	TFC I ¹	r	PD		DP	
		DCGT-21.50-CB2					.150		.004			\$68.00	
		DCGT-21.50.5-CB2					.146	.102	.008	\$88.00	\$68 ^{.00}	\$68.00	\$69 ^{.00}
	5	DCGT-21.51-CB2	.250	.110	.094	.305	.134	.091	.016	\$88.00	\$68.00	\$68.00	\$69.00
		DCGT-21.52-CB2					.118	.079	.031	\$95.00	00	\$75.00	- 00
	53.	DCGT-32.50-CB2					.189		.004			\$72.00	
		DCGT-32.50.5-CB2	1				.185	.102	.008	\$89.00	\$72.00	\$72.00	
		DCGT-32.51-CB2	.375	.173	.156	.457	.169	.091	.016	\$89.00	\$72.00	\$72.00	\$ 75 .00
		DCGT-32.52-CB2	1				.157	.079	.031	\$96.00	\$81.00	\$81.00	\$81.00
													-
DCGT-CB3 Positive	Neutral (with Chip Control))								TFC	PDC	PDC-S	PDC-CU-S
		Designation	d	d¹	s	1	PDC I ¹	TFC I ¹	r	PD		DP	
		DCGT-21.51-CB3	.250	.110	.094	.305	.134		.016				\$ 68 .00
	3.	DCGT-32.51-CB3		4=0	4=0	4	.169		.016				\$ 72 ^{.00}
		DCGT-32.52-CB3	.375	.173	.156	.457	.157		.031				\$81.00
		•	•										
DPGT-CB2 Positive	Neutral (with Chip Control))								TFC	PDC	PDC-S	PDC-CU-S
	S	Designation	d	d¹	s	1	PDC I1	TFC I ¹	r	PD		DP	
	D	DPGT-32.51-CB2	.375	.173	.156	.457	.169		.016		\$ 73 .00		
RCGT-CB2 Fullface	(with Chip Control)									TFC	PDC	PDC-S	PDC-CU-S
		Designation	d	d¹	s	1	PDC	TFC	r	PD		DP	
	5	RCGT-0602MO-VM-CB2	.236	.110	.094		FULL					\$166 ^{.00}	
		RCGT-10T3M0-VM-CB2	.394	.173	.156		FULL					\$218 ^{.00}	
SCGT-CB1 Positive	Neutral (with Chip Control)									TFC	PDC	PDC-S	PDC-CU-S
		Designation	d	d¹	s	ı	PDC I ¹	TFC I ¹	r	PD		DP	
46/	8	SCGT-32.51-CB1	. 275	173	.156	375	.173	.110	.016	\$96.00	\$ 81 .00		
	P. 1	SCGT-32.52-CB1	.575	.175	.130	.575	.169	.102	.031	\$96.00	\$ 81 .00		
SCGT-CB2 Positive	Neutral (with Chip Control)									TFC	PDC	PDC-S	PDC-CU-S
		Designation	d	d¹	s	1	PDC I ¹	TFC I ¹	r	PD		DP	
6	5	SCGT-32.51-CB2	.375	.173	.156	.375	.173	.110	.016	\$96.00		\$ 81 .00	
	8. 11	SCGT-32.52-CB2		.110	.100	.515	.169	.102	.031	\$96 ^{.00}		\$ 81 .00	

SCGT-CB3 Positive	Neutral (with Chip Control)									TFC	PDC	PDC-S	PDC-CU-S
		Designation	d	d¹	s	-1	PDC I ¹	TFC I ¹	r	PD		DP	
6	5	SCGT-32.51-CB3	275	470		275	.173		.016				\$ 81 .00
	8. p _	SCGT-32.52-CB3	.375	.173	.156	.375	.169		.031				\$ 81 .00

TCGT-CB1 Positive	Neutral (with Chip Control)	1								TFC	PDC	PDC-S	PDC-CU-S
		Designation	d	d¹	s	-1	PDC I ¹	TFC I ¹	r	PD		DP	
	→ ₁ S →−	TCGT-1.81.50.5-CB1	.219	.098	.094	.378	.146	.102	.008	\$85.00	\$65 ^{.00}		
		TCGT-1.81.51-CB1	.219	.096	.094	.310	.134	.091	.016	\$85.00	\$ 65 ^{.00}		
		TCGT-21.50.5-CB1	.250	.110	.094	.433	.146	.102	.008	\$88.00	\$ 68 .00		
	8, 1	TCGT-21.51-CB1	.230	.110	.094	.433	.134	.091	.016	\$88.00	\$ 68 ^{.00}		
		TCGT-32.51-CB1	.375	.173	.156	.650	.181	.091	.016	\$89.00	\$ 71 ^{.00}		
		TCGT-32.52-CB1	.373	.173	.130	.000	.165	.079	.031	\$ 96 .00	\$ 79 ^{.00}		

TCGT-CB2 Positive	Neutral (with Chip Control)	1		TCGT-CB2 Positive Neutral (with Chip Control)									
		Designation	d	d¹	s	1	PDC I ¹	TFC I ¹	r	PD		DP	
	S ₋	TCGT-1.81.50.5-CB2	210	000	004	270	.146	.102	.008	\$85.00		\$65 ^{.00}	
6		TCGT-1.81.51-CB2	.219	.098	.094	.378	.134	.091	.016	\$85.00	\$ 65 .00	\$65 ^{.00}	
		TCGT-21.50.5-CB2	.250	110	004	422	.146	.102	.008	\$88.00		\$68.00	
	8,5-11	TCGT-21.51-CB2	.250	.110	.094	.433	.134	.091	.016	\$88.00	\$ 68 .00	\$ 68 .00	
		TCGT-32.51-CB2	275	172	150	CEO	.181	.091	.016	\$89.00		\$ 71 ^{.00}	
		TCGT-32.52-CB2	.375	.173	.156	.650	.165	.079	.031	\$96.00	\$ 79 .00	\$79.00	

TCGT-CB3 Positive	TCGT-CB3 Positive Neutral (with Chip Control)										PDC	PDC-S	PDC-CU-S
	5	Designation	d	d¹	s	ı	PDC I ¹	TFC I ¹	r	PD		DP	
6		TCGT-21.51-CB3	.250	.110	.094	.433	.134		.016				\$ 68 .00
	8	TCGT-32.52-CB3	.375	.173	.156	.650	.165		.031				\$ 79 ^{.00}

VE	VBGT-CB1 Positive Neutral (with Chip Control)										TFC	PDC	PDC-S	PDC-CU-S
			Designation	d	d¹	s	ı	PDC I ¹	TFC I ¹	r	PD		DP	
	6	0 15	VBGT-330.5-CB1					.232	.118	.008	\$109.00	\$95.00		\$98.00
		in in	VBGT-331-CB1	.375	.173	.187	GE 4	.217	.118	.016	\$ 110 ^{.00}	\$ 96 .00	\$96.00	
4		1	VBGT-332-CB1	.313	.173	.101	.654	.197	.118	.031	\$ 123 .00	\$ 106 .00	\$ 106 .00	
			VBGT-333-CB1					.173	.118	.047	\$ 130 ^{.00}	\$ 117 ^{.00}	\$ 117 ^{.00}	

FC PDC	PDC-S PDC-CU-S
PD	DP
)9.00	\$95.00
10.00	\$96.00 \$99.00
23.00	\$105 ^{.00} \$105 ^{.00}
29.00	\$ 117 ^{.00}
(PD 09.00 10.00 23.00 29.00

VBGT-CB3 Positive N	eutral (with Chip Control)									TFC	PDC	PDC-S	PDC-CU-S
	- o s -	Designation	d	d¹	s	1	PDC I ¹	TFC I ¹	r	PD		DP	
		VBGT-331-CB3	.375	.173	.187	.654	.217		.016				\$99.00
VCGT-CB1 Positive N	eutral (with Chip Control)									TFC	PDC	PDC-S	PDC-CU-S
		Designation	d	d¹	s	1	PDC I ¹	TFC I ¹	r	PD		DP	
		VCGT-220-CB1					.213	.118	.004	\$ 106 .00	\$89.00		
	.6 \ +5 +	VCGT-220.5-CB1	.250	.114	.125	.437	.181	.118	.008	\$ 106 .00	\$92.00	\$92.00	
6/		VCGT-221-CB1	ĺ				.154	.118	.016	\$ 106 .00	\$92.00	\$92.00	
1		VCGT-330.5-CB1					.232	.118	.008	\$ 109 ^{.00}	\$95.00		
	\ \	VCGT-331-CB1	075	470	407	054	.217	.118	.016	\$ 109 .00	\$96.00	\$96.00	
		VCGT-332-CB1	.375	.173	.187	.654	.197	.118	.031	\$ 123 .00	\$ 106 .00	\$ 106 .00	
		VCGT-333-CB1					.177	.118	.047	\$ 129 ^{.00}	\$ 117 ^{.00}	\$ 117 ^{.00}	
VCGT-CB2 Positive N	eutral (with Chip Control)									TFC	PDC	PDC-S	PDC-CU-S
		Designation	d	d¹	s	- 1	PDC I1	TFC I ¹	r	PD		DP	
		VCGT-220.5-CB2	050	444	405	407	.181	.118	.008	\$ 106 .00		\$92.00	\$ 95 .00
	-5-	VCGT-221-CB2	.250	.114	.125	.437	.154	.118	.016	\$ 106 .00	\$92.00	\$92.00	\$95.00
60/		VCGT-330.5-CB2					.232	.118	.008	\$109 ^{.00}		\$95.00	\$99.00
	W. 19-11	VCGT-331-CB2	275	470	407	054	.217	.118	.016	\$109 ^{.00}	\$96.00	\$96.00	\$99.00
		VCGT-332-CB2	.375	.173	.187	.654	.197	.118	.031	\$ 123 .00		\$ 106 .00	
		VCGT-333-CB2					.177	.118	.047	\$ 129 ^{.00}		\$ 117 ^{.00}	
VCGT-CB3 Positive N	eutral (with Chip Control)		^							TFC	PDC	PDC-S	PDC-CU-S
	- s s -	Designation	d	d¹	s	ı	PDC I ¹	TFC I ¹	r	PD		DP	
		VCGT-221-CB3	.250	.114	.125	.437	.154		.016				\$99.00
	W	VCGT-331-CB3	.375	.173	.187	.654	.217		.016				\$ 102 ^{.00}
VNGA-CB3 Negative	(with Chip Control)									TFC	PDC	PDC-S	PDC-CU-S
		Designation	d	d¹	s	ı	PDC I1	TFC I ¹	r	PD		DP	
6	5 1	VNGA-332-CB3	.375	.150	.187	.654	.193		.031				\$96 ^{.00}

Pricing in red only available while stock remains

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