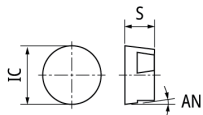


Steel
Stainless Steel
Cast Iron
Non-Ferrous Material
Heat Resistant Alloy
Hardened Material
Others (non-metallic)

Shape	Item Number	CECC	EPSR	IC	S	AN	RE	D1	D2	INSL	S1	W1	BIDEMICS				NTK CeramiX	Alumina Ceramics							Silicon Nitride Ceramics						Whisker Ceramics					
													PVD	PVD				PVD																		
													(ISO)	°	mm	mm	°	mm	mm	mm	mm	mm	mm	120	JP2	JX1	JX3	450	HC1	HW2	HC2	HC4	HC6	HC7	ZC7	PVD
	RCGX060400T00520	T00520	120	6.35	4.76	7	-	-	-	-	-	-																					●	●		
	RCGX060400T00820	T00820	120	6.35	4.76	7	-	-	-	-	-	-		●	●																					
	RCGX060400T02020	T02020	120	6.35	4.76	7	-	-	-	-	-	-											★											★		
	RCGX060600P07015	P07015	120	6.35	6.35	7	-	-	-	-	-	-																						★		
	RCGX060700T00520	T00520	120	6.35	7.94	7	-	-	-	-	-	-																						●		
	RCGX090700E004	E004	120	9.525	7.94	7	-	-	-	-	-	-		●	●																					
	RCGX090700K20015	K20015	120	9.525	7.94	7	-	-	-	-	-	-											★											★		
	RCGX090700P07015	P07015	120	9.525	7.86	7	-	-	-	-	-	-							●																	
	RCGX090700T00520	T00520	120	9.525	7.94	7	-	-	-	-	-	-												●					●					●		
	RCGX090700T00525	T00525	120	9.525	7.86	7	-	-	-	-	-	-																	●					●		
	RCGX090700T00820	T00820	120	9.525	7.94	7	-	-	-	-	-	-		●	●																				●	
	RCGX090700T01020	T01020	120	9.525	7.94	7	-	-	-	-	-	-																							●	
	RCGX120700E004	E004	120	12.7	7.94	7	-	-	-	-	-	-		●	●																				●	
	RCGX120700K20015	K20015	120	12.7	7.94	7	-	-	-	-	-	-											★												★	
	RCGX120700P15015	P15015	120	12.7	7.94	7	-	-	-	-	-	-								●																
	RCGX120700T00520	T00520	120	12.7	7.94	7	-	-	-	-	-	-												●					●					●		
	RCGX120700T00525	T00525	120	12.7	7.94	7	-	-	-	-	-	-																	●							
	RCGX120700T00820	T00820	120	12.7	7.94	7	-	-	-	-	-	-		●	●																				●	
	RCGX120700T01020	T01020	120	12.7	7.94	7	-	-	-	-	-	-																							●	
	RCGX120700Z01520	Z01520	120	12.7	7.94	7	-	-	-	-	-	-																							●	



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	D1	D2	INSL	S1	W1	BIDEMICS				NTK CeramiX	Alumina Ceramics							Silicon Nitride Ceramics						Whisker Ceramics																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
													PVD	PVD	PVD	PVD		PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD	PVD

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

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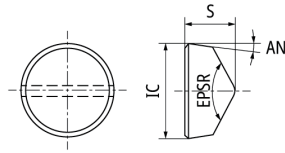
Turning Insert

D

	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	D1	D2	INSL	S1	W1	BIDEMICS				NTK CeramiX	Alumina Ceramics							Silicon Nitride Ceramics						Whisker Ceramics						
													PVD	PVD	JX1	JX3		PVD	PVD	HC1	HW2	HC2	HC4	HC6	HC7	ZC7	SX3	SX5	SX7	SX9	SX6	SP9	CVD	WA1	WA5		
(ISO)	°	mm	mm	°	mm	mm	mm	mm	mm	mm	mm	mm	120	JP2	JX1	JX3	450	HC1	HW2	HC2	HC4	HC6	HC7	ZC7	SX3	SX5	SX7	SX9	SX6	SP9	CVD	WA1	WA5				
	RPGN060200T00520	T00520	-	6.35	2.38	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-		
	RPGN090300T00520	T00520	-	9.525	3.18	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-		
	RPGN120400E004	E004	-	12.7	4.76	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-		
	RPGN120400EM02X	EM02X	-	12.7	4.76	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	RPGN120400T00520	T00520	-	12.7	4.76	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	
	RPGN120400T00525	T00525	-	12.7	4.76	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	RPGN120400T00820	T00820	-	12.7	4.76	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	
	RPGN120400T01020	T01020	-	12.7	4.76	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●

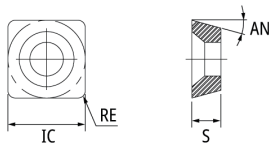
RPGX



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	D1	D2	INSL	S1	W1	BIDEMICS				NTK CeramiX	Alumina Ceramics							Silicon Nitride Ceramics					Whisker Ceramics																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
													PVD	PVD				PVD	HC1	HW2	HC2	HC4	HC6	HC7	ZC7	SX3	SX5	SX7	SX9	SX6	SP9	CVD	WA1	WA5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	(ISO)	°	mm	mm	°	mm	mm	mm	mm	mm	mm	mm	mm	120	JP2	JX1	JX3	450	HC1	HW2	HC2	HC4	HC6	HC7	ZC7	SX3	SX5	SX7	SX9	SX6	SP9	CVD	WA1	WA5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	RPGX060400T00520	T00520	120	6.35	4.76	11	-	-	-	-	-	-																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

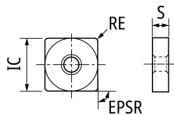
SDCW



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

Shape	Item Number		EPSR	IC	S	AN	RE	D1	D2	INSL	S1	W1	BIDEMICS				NTK Ceramix	Alumina Ceramics				Silicon Nitride Ceramics				Whisker Ceramics									
		CECC											PVD	PVD		PVD																			
	(ISO)		°	mm	mm	°	mm	mm	mm	mm	mm	mm	120	JP2	JX1	JX3	450	HC1	HW2	HC2	HC4	HC6	HC7	ZC7	SX3	SX5	SX7	SX9	SX6	SP9	CVD	WA1	WA5		
	SDCW120408T01020	T01020	90	12.7	4.76	15	0.8	5.5	-	-	-	-																							

SNGA



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	D1	D2	INSL	S1	W1	BIDEMICS				NTK Ceramix	Alumina Ceramics				Silicon Nitride Ceramics					Whisker Ceramics						
													PVD	PVD	JX1	JX3		PVD	HC1	HW2	HC2	HC4	HC6	HC7	ZC7	SX3	SX5	SX7	SX9	SX6	SP9	WA1	WA5
(ISO)	°	mm	mm	°	mm	mm	mm	mm	mm	mm	mm	120	JP2	JP2	JP2	JP2	450	HC1	HW2	HC2	HC4	HC6	HC7	ZC7	SX3	SX5	SX7	SX9	SX6	SP9	WA1	WA5	

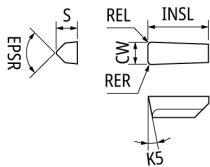
	SNGA120408S02025	S02025	90	12.7	4.76	-	0.8	-	-	-	-	-																				
	SNGA120408T01025	T01025	90	12.7	4.76	-	0.8	-	-	-	-	-																				
	SNGA120408T02020	T02020	90	12.7	4.76	-	0.8	-	-	-	-	-																				
	SNGA120412S02025	S02025	90	12.7	4.76	-	1.2	-	-	-	-	-																				
	SNGA120412T01025	T01025	90	12.7	4.76	-	1.2	-	-	-	-	-																				
	SNGA120412T02020	T02020	90	12.7	4.76	-	1.2	-	-	-	-	-																				
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OD Grooving

SCRUM DUO BLADE

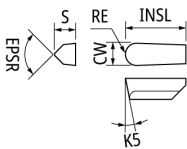
VGW.. series/Inserts BIDEMICS / Ceramics

VGW



Item Number	CECC	Hand	Chip-breaker	CW	EPSR	INSL	K5	REL	RER	S	BIDEMICS		Whisker Ceramics	
				mm	°	mm	°	mm	mm	mm	JX1	JX3	WA1	WA5
VGW4125-1E004	E004	N	No	3.18	90	12.7	11	0.4	0.4	4.51	●	●		
VGW4125-2E004	E004	N	No	3.18	90	12.7	11	0.8	0.8	4.51	●	●		
VGW4125-2EX0001	EX0001	N	No	3.18	90	12.7	11	0.8	0.8	4.51			●	●
VGW4156-1E004	E004	N	No	3.96	90	12.7	11	0.4	0.4	4.51	●	●		
VGW4156-2E004	E004	N	No	3.96	90	12.7	11	0.8	0.8	4.51	●	●		
VGW4156-2EX0001	EX0001	N	No	3.96	90	12.7	11	0.8	0.8	4.51			●	●
VGW4187-1E004	E004	N	No	4.75	90	12.7	11	0.4	0.4	4.51	●	●		
VGW4187-2E004	E004	N	No	4.75	90	12.7	11	0.8	0.8	4.51	●	●		
VGW4187-2EX0001	EX0001	N	No	4.75	90	12.7	11	0.8	0.8	4.51			●	●
VGW6250-1E004	E004	N	No	6.35	90	19.05	11	0.4	0.4	6.05	●	●		
VGW6250-2E004	E004	N	No	6.35	90	19.05	11	0.8	0.8	6.05	●	●		
VGW6250-2EX0001	EX0001	N	No	6.35	90	19.05	11	0.8	0.8	6.05			●	●
VGW6250-3E004	E004	N	No	6.35	90	19.05	11	1.2	1.2	6.05	●	●		
VGW6281-4E004	E004	N	No	7.137	90	19.05	11	1.6	1.6	6.05				
VGW6281-4T00520	T00520	N	No	7.137	90	19.05	11	1.6	1.6	6.05				
VGW8375-2EX0001	EX0001	N	No	9.525	90	25.4	11	0.8	0.8	8.31			●	●

VGW-R Full Radius style



Item Number	CECC	Hand	Chip-breaker	CW	EPSR	INSL	K5	RE	S	BIDEMICS		Whisker Ceramics	
				mm	°	mm	°	mm	mm	JX1	JX3	WA1	WA5
VGW4125-RE004	E004	N	No	3.18	90	12.7	11	1.59	4.51	●	●		
VGW4125-REX0001	EX0001	N	No	3.18	90	12.7	11	1.59	4.51			●	●
VGW4156-RE004	E004	N	No	3.96	90	12.7	11	1.98	4.51	●	●		
VGW4156-REX0001	EX0001	N	No	3.96	90	12.7	11	1.98	4.51			●	●
VGW4187-RE004	E004	N	No	4.75	90	12.7	11	2.375	4.51	●	●		
VGW4187-REX0001	EX0001	N	No	4.75	90	12.7	11	2.375	4.51			●	●
VGW6250-REX0001	EX0001	N	No	6.35	90	19.05	11	3.175	6.05			●	●
VGW6281-REX0001	EX0001	N	No	7.137	90	19.05	11	3.569	6.05				
VGW8344-REX0001	EX0001	N	No	8.738	90	25.4	11	4.369	8.31				
VGW8375-REX0001	EX0001	N	No	9.525	90	25.4	11	4.763	8.31				●