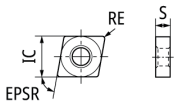


Steel																
Stainless Steel																
Cast Iron																
Non-Ferrous Material																
Heat Resistant Alloy																
Hardened Material																
Others (non-metallic)																

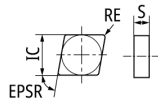
Shape	Item Number	CECC	EPSR	IC	S	AN	RE	D1	D2	INSL	S1	W1	BIDEMICS			NTK CeramiX	Alumina Ceramics							Silicon Nitride Ceramics					Whisker Ceramics				
													PVD	PVD	JX3		PVD	HC1	HW2	HC2	HC4	HC6	HC7	ZC7	SX3	SX5	SX7	SX9	SX6	SP9	CVD	WA1	WA5
(ISO)	°	mm	mm	°	mm	mm	mm	mm	mm	mm	mm	mm	120	JP2	JX1	450	HC1	HW2	HC2	HC4	HC6	HC7	ZC7	SX3	SX5	SX7	SX9	SX6	SP9	WA1	WA5		
	CDH1207P07010	P07010	-	12.7	6.35	6	-	3.18	-	-	-	-																					
	CDH1909P15015	P15015	-	19.05	9.52	6	-	6.35	-	-	-	-																					

Turning Insert



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

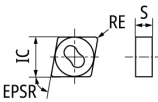
Shape	Item Number	CECC	EPSR	IC	S	AN	RE	D1	D2	INSL	S1	W1	BIDEMICS				NTK CeramiX	Alumina Ceramics							Silicon Nitride Ceramics					Whisker Ceramics			
													PVD	PVD	JX1	JX3		PVD	HC1	HW2	HC2	HC4	HC6	HC7	ZC7	SX3	SX5	SX7	SX9	SX6	CVD	SP9	WA1
																	120																
	(ISO)		°	mm	mm	°	mm	mm	mm	mm	mm	mm	120	JP2	450	HC1	HW2	HC2	HC4	HC6	HC7	ZC7	SX3	SX5	SX7	SX9	SX6	SP9	WA1	WA5			
	CNGA120404BQE004	E004	80	12.7	4.76	-	0.4	-	-	-	-	-																					
	CNGA120404BQT00520	T00520	80	12.7	4.76	-	0.4	-	-	-	-	-																					
	CNGA120404S02025	S02025	80	12.7	4.76	-	0.4	-	-	-	-	-																					
	CNGA120404T01025	T01025	80	12.7	4.76	-	0.4	-	-	-	-	-																					
	CNGA120404X01015	X01015	80	12.7	4.76	-	0.4	-	-	-	-	-																					
	CNGA120404X01015-10	X01015	80	12.7	4.76	-	0.4	-	-	-	-	-																					
	CNGA120404Z02025	Z02025	80	12.7	4.76	-	0.4	-	-	-	-	-																					
	CNGA120408BQE004	E004	80	12.7	4.76	-	0.8	-	-	-	-	-																					
	CNGA120408BQT00520	T00520	80	12.7	4.76	-	0.8	-	-	-	-	-																					
	CNGA120408S02025	S02025	80	12.7	4.76	-	0.8	-	-	-	-	-																					
	CNGA120408T00520	T00520	80	12.7	4.76	-	0.8	-	-	-	-	-																					
	CNGA120408T01020	T01020	80	12.7	4.76	-	0.8	-	-	-	-	-																					
	CNGA120408T01025	T01025	80	12.7	4.76	-	0.8	-	-	-	-	-																					
	CNGA120408T02020	T02020	80	12.7	4.76	-	0.8	-	-	-	-	-																					
	CNGA120408T02025	T02025	80	12.7	4.76	-	0.8	-	-	-	-	-																					
	CNGA120408X01015	X01015	80	12.7	4.76	-	0.8	-	-	-	-	-																					
	CNGA120408X01015-10	X01015	80	12.7	4.76	-	0.8	-	-	-	-	-																					
	CNGA120408Z02025	Z02025	80	12.7	4.76	-	0.8	-	-	-	-	-																					
	CNGA120412BQE004	E004	80	12.7	4.76	-	1.2	-	-	-	-	-																					
	CNGA120412BQT00520	T00520	80	12.7	4.76	-	1.2	-	-	-	-	-																					
	CNGA120412S02025	S02025	80	12.7	4.76	-	1.2	-	-	-	-	-																					
	CNGA120412T00520	T00520	80	12.7	4.76	-	1.2	-	-	-	-	-																					
	CNGA120412T01020	T01020	80	12.7	4.76	-	1.2	-	-	-	-	-																					
	CNGA120412T01025	T01025	80	12.7	4.76	-	1.2	-	-	-	-	-																					
	CNGA120412T02020	T02020	80	12.7	4.76	-	1.2	-	-	-	-	-																					
	CNGA120412T02025	T02025	80	12.7	4.76	-	1.2	-	-	-	-	-																					
	CNGA120412X01015	X01015	80	12.7	4.76	-	1.2	-	-	-	-	-																					
	CNGA120412X01015-10	X01015	80	12.7	4.76	-	1.2	-	-	-	-	-																					
	CNGA120416T00520	T00520	80	12.7	4.76	-	1.6	-	-	-	-	-																					
	CNGA120416T01020	T01020	80	12.7	4.76	-	1.6	-	-	-	-	-																					
	CNGA120416T02020	T02020	80	12.7	4.76	-	1.6	-	-	-	-	-																					
	CNGA120416T02025	T02025	80	12.7	4.76	-	1.6	-	-	-	-	-																					



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

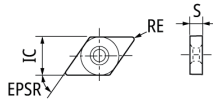
Shape	Item Number	CECC	EPSR	IC	S	AN	RE	D1	D2	INSL	S1	W1	BIDEMICS				NTK CeramiX	Alumina Ceramics					Silicon Nitride Ceramics						Whisker Ceramics			
													PVD	PVD	PVD	PVD		HC1	HW2	HC2	HC4	HC6	HC7	ZC7	SX3	SX5	SX7	SX9	SX6	CVD	WA1	WA5
	(ISO)		°	mm	mm	°	mm	mm	mm	mm	mm	mm																				
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	CNGN120408S02025	S02025	80	12.7	4.76	-	0.8	-	-	-	-	-																				
	CNGN120408T00520	T00520	80	12.7	4.76	-	0.8	-	-	-	-	-																				
	CNGN120408T00820	T00820	80	12.7	4.76	-	0.8	-	-	-	-	-																				
	CNGN120408T01020	T01020	80	12.7	4.76	-	0.8	-	-	-	-	-																				
	CNGN120408T01025	T01025	80	12.7	4.76	-	0.8	-	-	-	-	-																				
	CNGN120408T02020	T02020	80	12.7	4.76	-	0.8	-	-	-	-	-																				
	CNGN120408T02025	T02025	80	12.7	4.76	-	0.8	-	-	-	-	-																				
	CNGN120408Z02025	Z02025	80	12.7	4.76	-	0.8	-	-	-	-	-																				
	CNGN120412S02025	S02025	80	12.7	4.76	-	1.2	-	-	-	-	-																				
	CNGN120412T00520	T00520	80	12.7	4.76	-	1.2	-	-	-	-	-																				
	CNGN120412T00820	T00820	80	12.7	4.76	-	1.2	-	-	-	-	-																				
	CNGN120412T01020	T01020	80	12.7	4.76	-	1.2	-	-	-	-	-																				
	CNGN120412T01025	T01025	80	12.7	4.76	-	1.2	-	-	-	-	-																				
	CNGN120412T02020	T02020	80	12.7	4.76	-	1.2	-	-	-	-	-																				
	CNGN120412T02025	T02025	80	12.7	4.76	-	1.2	-	-	-	-	-																				
	CNGN120412Z02025	Z02025	80	12.7	4.76	-	1.2	-	-	-	-	-																				
	CNGN120416T00520	T00520	80	12.7	4.76	-	1.6	-	-	-	-	-																				
	CNGN120416T01020	T01020	80	12.7	4.76	-	1.6	-	-	-	-	-																				
	CNGN120416T02020	T02020	80	12.7	4.76	-	1.6	-	-	-	-	-																				
	CNGN120416T02025	T02025	80	12.7	4.76	-	1.6	-	-	-	-	-																				
	CNGN120420T01025	T01025	80	12.7	4.76	-	2	-	-	-	-	-																				
	CNGN120708T00520	T00520	80	12.7	7.94	-	0.8	-	-	-	-	-																				
	CNGN120708T02025	T02025	80	12.7	7.94	-	0.8	-	-	-	-	-																				
	CNGN120712T02025	T02025	80	12.7	7.94	-	1.2	-	-	-	-	-																				
	CNGN160716T00520	T00520	80	15.875	7.94	-	1.6	-	-	-	-	-																				

CNGX



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	CVD	WA1	WA5
	(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		
	CNGX120712T02025	T02025	80	12.7	7.94	-	1.2	-	-	-	-	-																					●		
	CNGX120716T02025	T02025	80	12.7	7.94	-	1.6	-	-	-	-	-																					●		



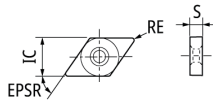
Steel	
Stainless Steel	
Cast Iron	
Non-Ferrous Material	
Heat Resistant Alloy	
Hardened Material	
Others (non-metallic)	

Shape	Item Number	CECC	EPSR	IC	S	AN	RE	D1	D2	INSL	S1	W1	BIDEMICS				NTK	CeramiX	Alumina Ceramics							Silicon Nitride Ceramics					Whisker Ceramics																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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Turning Insert

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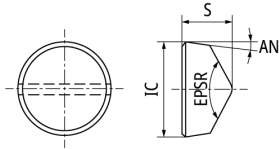
DNGG-AG with chipbreaker



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	CVD	WA1	WA5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
(ISO)	°	mm	mm	°	mm	mm	mm	mm	mm	mm	mm	120	JP2	JP2	450	HC1	HW2	HC2	HC4	HC6	HC7	ZC7	SX3	SX5	SX7	SX9	SX6	SP9	CVD	WA1	WA5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	DNGG150408Z01030AG	Z01030	55	12.7	4.76	-	0.8	-	-	-	-	-																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

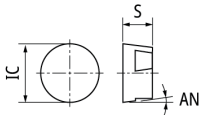
RCGX



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

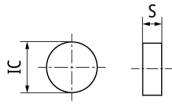
Shape	Item Number	CECC	EPSR	IC	S	AN	RE	D1	D2	INSL	S1	W1	BIDEMICS				NTK CeramIX	Alumina Ceramics							Silicon Nitride Ceramics						Whisker Ceramics		
													PVD	PVD	JX1	JX3		PVD	HC1	HW2	HC2	HC4	HC6	HC7	ZC7	SX3	SX5	SX7	SX9	SX6	SP9	WA1	WA5
(ISO)	°	mm	mm	°	mm	mm	mm	mm	mm	mm	mm	120	JP2	JX1	JX3	450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

RCGY



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	CVD	WA1
	(ISO)	°	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	WA1	WA5	
		RCGY090603T00525	T00525	-	9.525	6.35	7	-	-	-	-	-	-																				
	RCGY120603T00525	T00525	-	12.7	6.35	7	-	-	-	-	-	-																					●



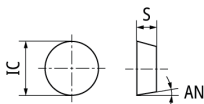
Steel
Stainless Steel
Cast Iron
Non-Ferrous Material
Heat Resistant Alloy
Hardened Material
Others (non-metallic)

Shape	Item Number	EPSR	IC	S	AN	RE	D1	D2	INSL	S1	W1	BIDEMICS	NTK Ceramix	Alumina Ceramics	Silicon Nitride Ceramics	Whisker Ceramics
	CECC															
	(ISO)	°	mm	mm	°	mm	mm	mm	mm	mm	mm	120 PVD	450 PVD	HC1	SX3	SP9
	RNGN120400S02025	S02025	-	12.7	4.76	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN120400T00520	T00520	-	12.7	4.76	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN120400T00525	T00525	-	12.7	4.76	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN120400T00820	T00820	-	12.7	4.76	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN120400T01020	T01020	-	12.7	4.76	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN120400T01025	T01025	-	12.7	4.76	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN120400T02020	T02020	-	12.7	4.76	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN120400T02025	T02025	-	12.7	4.76	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN120400Z02025	Z02025	-	12.7	4.76	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN120700E002	E002	-	12.7	7.94	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN120700E004	E004	-	12.7	7.94	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN120700E007	E007	-	12.7	7.94	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN120700K20015	K20015	-	12.7	7.94	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN120700S02025	S02025	-	12.7	7.94	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN120700T00520	T00520	-	12.7	7.94	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN120700T00525	T00525	-	12.7	7.94	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN120700T00820	T00820	-	12.7	7.94	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN120700T01020	T01020	-	12.7	7.94	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN120700T02025	T02025	-	12.7	7.94	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN120700Z01520	Z01520	-	12.7	7.94	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN120700Z02025	Z02025	-	12.7	7.94	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN150700T00520	T00520	-	15.875	7.94	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN150700T00525	T00525	-	15.875	7.94	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN150700T00820	T00820	-	15.875	7.94	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN190700K20015	K20015	-	19.05	7.94	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN190700T00520	T00520	-	19.05	7.94	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN190700T00525	T00525	-	19.05	7.94	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN190700T00820	T00820	-	19.05	7.94	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN190700T01020	T01020	-	19.05	7.94	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN250700T00520	T00520	-	25.4	7.94	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RNGN250700T00820	T00820	-	25.4	7.94	-	-	-	-	-	-	JP2	450	HC1	SX3	SP9

Turning Insert

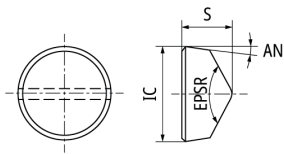
D

RPGN



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

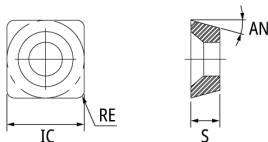
Shape	Item Number	EPSR	IC	S	AN	RE	D1	D2	INSL	S1	W1	BIDEMICS	NTK Ceramix	Alumina Ceramics	Silicon Nitride Ceramics	Whisker Ceramics
	CECC															
	(ISO)	°	mm	mm	°	mm	mm	mm	mm	mm	mm	120 PVD	450 PVD	HC1	SX3	SP9
	RPGN060200T00520	T00520	-	6.35	2.38	11	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RPGN090300T00520	T00520	-	9.525	3.18	11	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RPGN120400E004	E004	-	12.7	4.76	11	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RPGN120400EM02X	EM02X	-	12.7	4.76	11	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RPGN120400T00520	T00520	-	12.7	4.76	11	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RPGN120400T00525	T00525	-	12.7	4.76	11	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RPGN120400T00820	T00820	-	12.7	4.76	11	-	-	-	-	-	JP2	450	HC1	SX3	SP9
	RPGN120400T01020	T01020	-	12.7	4.76	11	-	-	-	-	-	JP2	450	HC1	SX3	SP9

RPGX

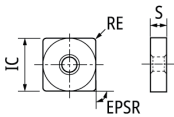
Material	Steel	Stainless Steel	Cast Iron	Non-Ferrous	Heat Resistant Alloy	Hardened Material	Others (non-metallic)
Steel	●	●	●	●	○	○	○
Stainless Steel	○	○	○	○	●	●	○
Cast Iron	○	○	○	○	●	●	○
Non-Ferrous	○	○	○	○	●	●	○
Heat Resistant Alloy	○	○	○	○	●	●	○
Hardened Material	○	○	○	○	●	●	○
Others (non-metallic)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

[illegible]

SDCW

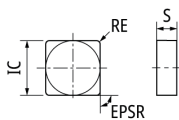


Material	Steel	Stainless Steel	Cast Iron	Non-Ferrous	Heat Resistant Alloy	Hardened Material	Others (non-metallic)
Steel	●	●	●	●	○	○	○
Stainless Steel	○	○	○	○	●	●	○
Cast Iron	○	○	○	○	●	●	○
Non-Ferrous	○	○	○	○	●	●	○
Heat Resistant Alloy	○	○	○	○	●	●	○
Hardened Material	○	○	○	○	●	●	○
Others (non-metallic)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

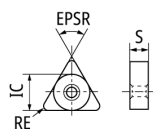
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	Steel
Stainless Steel	
Cast Iron	
Non-Ferrous Material	
Heat Resistant Alloy	
Hardened Material	
Others (non-metallic)	

[illegible]

[illegible][illegible]

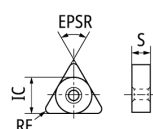
Turning Insert

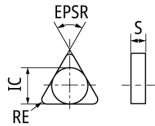
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Turning Insert

D

■ TNGG-AG with chipbreaker

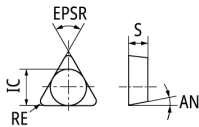
[illegible][illegible]



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	PVD	SX3	SX5	SX7	SX9	SX6	SP9	WA1	WA5
	(ISO)		°	mm	mm	°	mm	mm	mm	mm	mm	mm	120	JP2	JP2	JX1	JX3	450	HC1	HW2	HC2	HC4	HC6	HC7	PVD	SX3	SX5	SX7	SX9	SX6	SP9	WA1	WA5
	TNGN110308T00525	T00525	60	6.35	3.18	-	0.8	-	-	-	-	-										●											
	TNGN160304T01025	T01025	60	9.525	3.18	-	0.4	-	-	-	-	-										●											
	TNGN160404T01025	T01025	60	9.525	4.76	-	0.4	-	-	-	-	-										●											
	TNGN160404Z02025	Z02025	60	9.525	4.76	-	0.4	-	-	-	-	-											●										
	TNGN160408S02025	S02025	60	9.525	4.76	-	0.8	-	-	-	-	-													●								
	TNGN160408T00820	T00820	60	9.525	4.76	-	0.8	-	-	-	-	-																					
	TNGN160408T01020	T01020	60	9.525	4.76	-	0.8	-	-	-	-	-																			●	●	
	TNGN160408T01025	T01025	60	9.525	4.76	-	0.8	-	-	-	-	-							●		●		●		●							●	●
	TNGN160408T02020	T02020	60	9.525	4.76	-	0.8	-	-	-	-	-																		●			
	TNGN160408T02025	T02025	60	9.525	4.76	-	0.8	-	-	-	-	-																	●				
	TNGN160408Z02025	Z02025	60	9.525	4.76	-	0.8	-	-	-	-	-											●										
	TNGN160412S02025	S02025	60	9.525	4.76	-	1.2	-	-	-	-	-													●								
	TNGN160412T00820	T00820	60	9.525	4.76	-	1.2	-	-	-	-	-																					
	TNGN160412T01020	T01020	60	9.525	4.76	-	1.2	-	-	-	-	-																				●	
	TNGN160412T01025	T01025	60	9.525	4.76	-	1.2	-	-	-	-	-							●		●		●		●							●	
	TNGN160412T02020	T02020	60	9.525	4.76	-	1.2	-	-	-	-	-																			●		
	TNGN160412T02025	T02025	60	9.525	4.76	-	1.2	-	-	-	-	-																		●			
	TNGN160412Z02025	Z02025	60	9.525	4.76	-	1.2	-	-	-	-	-											●										
	TNGN160416T01020	T01020	60	9.525	4.76	-	1.6	-	-	-	-	-																				●	
	TNGN160416T01025	T01025	60	9.525	4.76	-	1.6	-	-	-	-	-							●	●	●											●	
	TNGN160416T02020	T02020	60	9.525	4.76	-	1.6	-	-	-	-	-																				●	
	TNGN160416T02025	T02025	60	9.525	4.76	-	1.6	-	-	-	-	-																					
	TNGN160420T01025	T01025	60	9.525	4.76	-	2	-	-	-	-	-							●		●												
	TNGN160420T02020	T02020	60	9.525	4.76	-	2	-	-	-	-	-																				●	
	TNGN160708T02025	T02025	60	9.525	7.94	-	0.8	-	-	-	-	-										●											
	TNGN160712T02025	T02025	60	9.525	7.94	-	1.2	-	-	-	-	-										●											
	TNGN220416T00520	T00520	60	12.7	4.76	-	1.6	-	-	-	-	-																					●
	TNGN220716T00520	T00520	60	12.7	7.94	-	1.6	-	-	-	-	-																					●

TPGN



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	PVD	SX3	SX5	SX7	SX9	SX6	SP9	WA1	WA5
	(ISO)		°	mm	mm	°	mm	mm	mm	mm	mm	mm	120	JP2	JP2	JX1	JX3	450	HC1	HW2	HC2	HC4	HC6	HC7	PVD	SX3	SX5	SX7	SX9	SX6	SP9	WA1	WA5
	TPGN090204T00525	T00525	60	5.56	2.38	11	0.4	-	-	-	-	-										●											
	TPGN090208T00525	T00525	60	5.56	2.38	11	0.8	-	-	-	-	-										●											
	TPGN110304T00525	T00525	60	6.35	3.18	11	0.4	-	-	-	-	-										●											
	TPGN110304T01025	T01025	60	6.35	3.18	11	0.4	-	-	-	-	-													●								
	TPGN110308T00525	T00525	60	6.35	3.18	11	0.8	-	-	-	-	-										●											
	TPGN110308T01025	T01025	60	6.35	3.18	11	0.8	-	-	-	-	-													●								
	TPGN160304T01025	T01025	60	9.525	3.18	11	0.4	-	-	-	-	-										●			●								
	TPGN160304Z01025	Z01025	60	9.525	3.18	11	0.4	-	-	-	-	-											●										
	TPGN160308T01025	T01025	60	9.525	3.18	11	0.8	-	-	-	-	-										●		●	●								
	TPGN160308Z01025	Z01025	60	9.525	3.18	11	0.8	-	-	-	-	-											●										
	TPGN160312T01025	T01025	60	9.525	3.18	11	1.2	-	-	-	-	-								●													