для заказа - kyocera@kyocera-tools.ru

GROOVING & CUT-OFF INSERTS

GDM / GDMS / GDG

Classification of Usage
- ● : Light Interruption / 1st Choice
- ◔ : Light Interruption / 2nd Choice
- ● : Continuous / 1st Choice
- ○ : Continuous / 2nd Choice

		Cermet		MEGACOAT NANO (NEW)	MEGA COAT		Carbide	
P	Carbon Steel / Alloy Steel	●	○		●	◔		
M	Stainless Steel			●	◔	◔		
K	Cast Iron					●		
N	Non-ferrous Metals						●	
S	Titanium Alloy			●			◔	
H	Hard materials (≤40HRC)				○			
	Hard materials (≥40HRC)							

Insert (Right-handed Insert Shown)			Part Number		Dimensions (inch) W inch	W mm	W Tolerance	rε	M	L	H	Cermet TN620	Cermet TN90	MEGACOAT NANO PR1535	MEGA COAT PR1225	MEGA COAT PR1215	Carbide GW15	Ref. Page for Toolholder
Grooving & Traversing	General Purpose 2-edge		GDM	2420N-020GM	0.094	2.4	±0.0012	0.008	0.077	0.787	0.169	○	○	●	●	●		G19 ~ G24
				3020N-020GM	0.118	3.0		0.008	0.091	0.787	0.169	○	○	●	●	●		
				3020N-040GM	0.118	3.0		0.016	0.091	0.787	0.169	○	○	●	●	●		
				4020N-020GM	0.157	4.0		0.008	0.130	0.787	0.169	○	○	●	●	●		
				4020N-040GM	0.157	4.0		0.016	0.130	0.787	0.169	○	○	●	●	●		
				4020N-080GM	0.157	4.0		0.032	0.130	0.787	0.169	○	○	●	●	●		
				5020N-040GM	0.197	5.0	±0.0016	0.016	0.165	0.787	0.169	○	○	●	●	●		G20 ~ G24
				5020N-080GM	0.197	5.0		0.032	0.165	0.787	0.169	○	○	●	●	●		
				6020N-040GM	0.236	6.0		0.016	0.205	0.787	0.169	○	○	●	●	●		
				6020N-080GM	0.236	6.0		0.032	0.205	0.787	0.169	○	○	●	●	●		
				8030N-080GM	0.315	8.0	±0.0020	0.032	0.236	1.181	0.217			●	●	●		G20
	General Purpose 1-edge		GDMS	2220N-020GM	0.087	2.2	±0.0012	0.008	0.069	0.787	0.169	○	○	○	●	●		G19 ~ G24
				3020N-040GM	0.118	3.0		0.016	0.091	0.787	0.169	○	○	○	●	●		
				4020N-040GM	0.157	4.0		0.016	0.130	0.787	0.169	○	○	○	●	●		
				5020N-080GM	0.197	5.0	±0.0016	0.032	0.165	0.787	0.169	○	○	○	●	●		G20 ~ G24
				6020N-080GM	0.236	6.0		0.032	0.205	0.787	0.169	○	○	○	●	●		
	Low Feed 2-edge		GDM	2420N-020GL	0.094	2.4	±0.0012	0.008	0.077	0.787	0.169	○	○	●	●	●		G19 ~ G24
				3020N-020GL	0.118	3.0		0.008	0.091	0.787	0.169	○	○	●	●	●		
				3020N-040GL	0.118	3.0		0.016	0.091	0.787	0.169	○	○	●	●	●		
				4020N-020GL	0.157	4.0		0.008	0.130	0.787	0.169	○	○	●	●	●		
				4020N-040GL	0.157	4.0		0.016	0.130	0.787	0.169	○	○	●	●	●		
				5020N-040GL	0.197	5.0	±0.0016	0.016	0.165	0.787	0.169	○	○	●	●	●		G20 ~ G24
				6020N-040GL	0.236	6.0		0.016	0.205	0.787	0.169	○	○	●	●	●		
Grooving	Low Cutting Force 2-edge		GDG	2520N-020GS	0.098	2.5	±0.0008	0.008	0.079	0.787	0.169	○	○	●	●	●	●	G20 ~ G24
				3020N-020GS	0.118	3.0		0.008	0.091	0.787	0.169	○	○	●	●	●	●	
				3520N-020GS	0.138	3.5		0.008	0.110	0.787	0.169	○	○	●	●	●	●	
				4020N-040GS	0.157	4.0		0.016	0.130	0.787	0.169	○	○	●	●	●	●	
				5020N-040GS	0.197	5.0		0.016	0.165	0.787	0.169	○	○	●	●	●	●	G20 ~ G24
				6020N-040GS	0.236	6.0		0.016	0.205	0.787	0.169	○	○	●	●	●	●	
				8030N-040GS	0.315	8.0	±0.0008	0.016	0.236	1.181	0.217	○	○	●	●	●	●	G20
Full-R / Copying	2-edge		GDM	3020N-150R-CM	0.118	3.0	±0.0012	0.059	0.091	0.787	0.169	○	○	●	●	●		G19 ~ G24
				4020N-200R-CM	0.157	4.0		0.079	0.130	0.787	0.169	○	○	●	●	●		
				5020N-250R-CM	0.197	5.0	±0.0016	0.098	0.165	*0.827	0.169	○	○	●	●	●		G20 ~ G24
				6020N-300R-CM	0.236	6.0		0.120	0.205	*0.827	0.169	○	○	●	●	●		
Grooving & Cut-off	High Feed 2-edge		GDM	2020N-020PH	0.079	2.0	±0.0012	0.008	0.059	0.787	0.169			●	●	●		G19 ~ G24
				3020N-030PH	0.118	3.0		0.012	0.091	0.787	0.169			●	●	●		
				4020N-030PH	0.157	4.0		0.012	0.130	0.787	0.169			●	●	●		
	High Feed 1-edge		GDMS	2020N-020PH	0.079	2.0	±0.0012	0.008	0.059	0.787	0.169			○	●	●		
				3020N-030PH	0.118	3.0		0.012	0.091	0.787	0.169			○	●	●		
				4020N-030PH	0.157	4.0		0.012	0.130	0.787	0.169			○	●	●		

*GDM50/60-CM differes from other descriptions in length (L) to avoid interference of a toolholder with workpiece.

Recommended Cutting Conditions ➔ G27~G28

Insert Identification System

Tolerance	Width	Hand of Tool	Chipbreaker	
M : M-Class	**20** : 2mm	**N** : Neutral	**GM**: Grooving & Traversing	**CM**: Copying
G : G-Class	**30** : 3mm		**GL**: Low Feed	**PH** : High Feed
	40 : 4mm		**GS**: Low Cutting Force	**NB** : Without Chipbreaker

G D	M	S	30	20	N	-	040	GM
Series	No. of Edges		Insert Length				Corner-R (rε)	

No. of Edges	Insert Length	Corner-R (rε)
No Indication : 2-edge	**20** : 20mm	**020** : 0.2mm
S : 1-edge	**30** : 30mm	**040** : 0.4mm
		150R : 1.5mm (Full-R)

Inserts are sold in 10 piece boxes.

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● : U.S. Stock Standard
○ : World Express (Shipping: 7-10 Business Days)