



HY-PRO® CARB VGM

High Performance Variable Geometry End Mills

List VGM6

HY-PRO® CARB VGM6



SPEED FEED
1391

CARBIDE

EXO®

6 FLUTE

37°



SHANK
h6

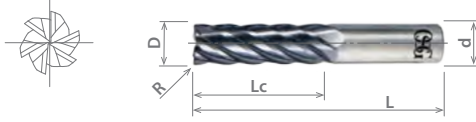
STUB

REG

LONG

EXTRA LONG

PACKED
1 PIECE



Cutting Diameter Tolerance	
1/4" ≤ D ≤ 1"	+0 / -0.0015"

ABOUT OSG

DRILLING

THREADING

MILLING

HOLDERS

INDEX

EDP Number	Dia.	Corner Radius	Length of Cut	Overall Length	Shank Dia.	L/D Ratio
		R (Inch)	Lc (Inch)	L (Inch)	d (Inch)	
VGM6-0001	1/4	-	0.375	2.000	0.250	1.5
VGM6-0002	1/4	0.020	0.375	2.000	0.250	1.5
VGM6-0003	1/4	0.030	0.375	2.000	0.250	1.5
VGM6-0004	1/4	0.060	0.375	2.000	0.250	1.5
VGM6-0005	1/4	-	0.500	2.500	0.250	2
VGM6-0006	1/4	0.020	0.500	2.500	0.250	2
VGM6-0007	1/4	0.030	0.500	2.500	0.250	2
VGM6-0008	1/4	0.060	0.500	2.500	0.250	2
VGM6-0009	1/4	-	0.750	2.500	0.250	3
VGM6-0010	1/4	0.020	0.750	2.500	0.250	3
VGM6-0011	1/4	0.030	0.750	2.500	0.250	3
VGM6-0012	1/4	0.060	0.750	2.500	0.250	3
VGM6-0013	1/4	-	1.000	3.000	0.250	4
VGM6-0014	1/4	0.020	1.000	3.000	0.250	4
VGM6-0015	1/4	0.030	1.000	3.000	0.250	4
VGM6-0016	1/4	0.060	1.000	3.000	0.250	4
VGM6-0017	1/4	-	1.250	3.000	0.250	5
VGM6-0018	1/4	0.020	1.250	3.000	0.250	5
VGM6-0019	1/4	0.030	1.250	3.000	0.250	5
VGM6-0020	1/4	0.060	1.250	3.000	0.250	5
VGM6-0021	1/4	-	1.500	3.000	0.250	6
VGM6-0022	1/4	0.020	1.500	3.000	0.250	6
VGM6-0023	1/4	0.030	1.500	3.000	0.250	6
VGM6-0024	1/4	0.060	1.500	3.000	0.250	6
VGM6-0025	5/16	-	0.469	2.000	0.313	1.5
VGM6-0026	5/16	0.020	0.469	2.000	0.313	1.5
VGM6-0027	5/16	0.030	0.469	2.000	0.313	1.5
VGM6-0028	5/16	0.060	0.469	2.000	0.313	1.5
VGM6-0029	5/16	-	0.625	2.500	0.313	2
VGM6-0030	5/16	0.020	0.625	2.500	0.313	2
VGM6-0031	5/16	0.030	0.625	2.500	0.313	2
VGM6-0032	5/16	0.060	0.625	2.500	0.313	2
VGM6-0033	5/16	-	0.938	3.000	0.313	3
VGM6-0034	5/16	0.020	0.938	3.000	0.313	3
VGM6-0035	5/16	0.030	0.938	3.000	0.313	3
VGM6-0036	5/16	0.060	0.938	3.000	0.313	3
VGM6-0037	5/16	-	1.250	3.000	0.313	4
VGM6-0038	5/16	0.020	1.250	3.000	0.313	4
VGM6-0039	5/16	0.030	1.250	3.000	0.313	4
VGM6-0040	5/16	0.060	1.250	3.000	0.313	4
VGM6-0041	3/8	-	0.563	2.000	0.375	1.5
VGM6-0042	3/8	0.020	0.563	2.000	0.375	1.5
VGM6-0043	3/8	0.030	0.563	2.000	0.375	1.5
VGM6-0044	3/8	0.060	0.563	2.000	0.375	1.5
VGM6-0045	3/8	0.090	0.563	2.000	0.375	1.5
VGM6-0046	3/8	-	0.750	2.500	0.375	2
VGM6-0047	3/8	0.020	0.750	2.500	0.375	2
VGM6-0048	3/8	0.030	0.750	2.500	0.375	2
VGM6-0049	3/8	0.060	0.750	2.500	0.375	2
VGM6-0050	3/8	0.090	0.750	2.500	0.375	2
VGM6-0051	3/8	-	1.125	3.000	0.375	3
VGM6-0052	3/8	0.020	1.125	3.000	0.375	3
VGM6-0053	3/8	0.030	1.125	3.000	0.375	3

EDP Number	Dia.	Corner Radius	Length of Cut	Overall Length	Shank Dia.	L/D Ratio
		R (Inch)	Lc (Inch)	L (Inch)	d (Inch)	
VGM6-0054	3/8	0.060	1.125	3.000	0.375	3
VGM6-0055	3/8	0.090	1.125	3.000	0.375	3
VGM6-0056	3/8	-	1.500	4.000	0.375	4
VGM6-0057	3/8	0.020	1.500	4.000	0.375	4
VGM6-0058	3/8	0.030	1.500	4.000	0.375	4
VGM6-0059	3/8	0.060	1.500	4.000	0.375	4
VGM6-0060	3/8	0.090	1.500	4.000	0.375	4
VGM6-0061	1/2	-	0.625	2.500	0.500	1.25
VGM6-0062	1/2	0.030	0.625	2.500	0.500	1.25
VGM6-0063	1/2	0.060	0.625	2.500	0.500	1.25
VGM6-0064	1/2	0.090	0.625	2.500	0.500	1.25
VGM6-0065	1/2	0.120	0.625	2.500	0.500	1.25
VGM6-0066	1/2	0.125	0.625	2.500	0.500	1.25
VGM6-0067	1/2	-	1.000	3.000	0.500	2
VGM6-0068	1/2	0.030	1.000	3.000	0.500	2
VGM6-0069	1/2	0.060	1.000	3.000	0.500	2
VGM6-0070	1/2	0.090	1.000	3.000	0.500	2
VGM6-0071	1/2	0.120	1.000	3.000	0.500	2
VGM6-0072	1/2	0.125	1.000	3.000	0.500	2
VGM6-0073	1/2	-	1.250	3.000	0.500	2.5
VGM6-0074	1/2	0.030	1.250	3.000	0.500	2.5
VGM6-0075	1/2	0.060	1.250	3.000	0.500	2.5
VGM6-0076	1/2	0.090	1.250	3.000	0.500	2.5
VGM6-0077	1/2	0.120	1.250	3.000	0.500	2.5
VGM6-0078	1/2	0.125	1.250	3.000	0.500	2.5
VGM6-0079	1/2	-	1.500	4.000	0.500	3
VGM6-0080	1/2	0.030	1.500	4.000	0.500	3
VGM6-0081	1/2	0.060	1.500	4.000	0.500	3
VGM6-0082	1/2	0.090	1.500	4.000	0.500	3
VGM6-0083	1/2	0.120	1.500	4.000	0.500	3
VGM6-0084	1/2	0.125	1.500	4.000	0.500	3
VGM6-0085	1/2	-	2.000	4.000	0.500	4
VGM6-0086	1/2	0.030	2.000	4.000	0.500	4
VGM6-0087	1/2	0.060	2.000	4.000	0.500	4
VGM6-0088	1/2	0.090	2.000	4.000	0.500	4
VGM6-0089	1/2	0.120	2.000	4.000	0.500	4
VGM6-0090	1/2	0.125	2.000	4.000	0.500	4
VGM6-0091	5/8	-	0.781	3.000	0.625	1.25
VGM6-0092	5/8	0.020	0.781	3.000	0.625	1.25
VGM6-0093	5/8	0.030	0.781	3.000	0.625	1.25
VGM6-0094	5/8	0.060	0.781	3.000	0.625	1.25
VGM6-0095	5/8	0.090	0.781	3.000	0.625	1.25
VGM6-0096	5/8	0.120	0.781	3.000	0.625	1.25
VGM6-0097	5/8	0.125	0.781	3.000	0.625	1.25
VGM6-0098	5/8	-	1.250	3.500	0.625	2
VGM6-0099	5/8	0.020	1.250	3.500	0.625	2
VGM6-0100	5/8	0.030	1.250	3.500	0.625	2
VGM6-0101	5/8	0.060	1.250	3.500	0.625	2
VGM6-0102	5/8	0.090	1.250	3.500	0.625	2
VGM6-0103	5/8	0.120	1.250	3.500	0.625	2
VGM6-0104	5/8	0.125	1.250	3.500	0.625	2
VGM6-0105	5/8	-	1.563	3.500	0.625	2.5
VGM6-0106	5/8	0.020	1.563	3.500	0.625	2.5

● Stocked ○ Available Upon Request; MOQ May Apply
▲ Globally Stocked



● Stocked ○ Available Upon Request; MOQ May Apply
▲ Globally Stocked





List VGM6 (Continued)



SPEED FEED
1391

CARBIDE

EXO®

6 FLUTE

37°



SHANK
h6

STUB

HY-PRO® CARB VGM6

LONG EXTRA LONG PACKED
1 PIECE

EDP Number	Dia.	Corner Radius		Length of Cut	Overall Length	Shank Dia.	L/D Ratio
		D (Fractional Size)	R (Inch)				
VGM6-0107	○	5/8	0.030	1.563	3.500	0.625	2.5
VGM6-0108	○	5/8	0.060	1.563	3.500	0.625	2.5
VGM6-0109	●	5/8	0.090	1.563	3.500	0.625	2.5
VGM6-0110	○	5/8	0.120	1.563	3.500	0.625	2.5
VGM6-0111	○	5/8	0.125	1.563	3.500	0.625	2.5
VGM6-0112	●	5/8	-	1.875	5.000	0.625	3
VGM6-0113	○	5/8	0.020	1.875	5.000	0.625	3
VGM6-0114	○	5/8	0.030	1.875	5.000	0.625	3
VGM6-0115	●	5/8	0.060	1.875	5.000	0.625	3
VGM6-0116	○	5/8	0.090	1.875	5.000	0.625	3
VGM6-0117	○	5/8	0.120	1.875	5.000	0.625	3
VGM6-0118	●	5/8	0.125	1.875	5.000	0.625	3
VGM6-0119	●	5/8	-	2.500	5.000	0.625	4
VGM6-0120	○	5/8	0.020	2.500	5.000	0.625	4
VGM6-0121	●	5/8	0.030	2.500	5.000	0.625	4
VGM6-0122	○	5/8	0.060	2.500	5.000	0.625	4
VGM6-0123	○	5/8	0.090	2.500	5.000	0.625	4
VGM6-0124	○	5/8	0.120	2.500	5.000	0.625	4
VGM6-0125	●	5/8	0.125	2.500	5.000	0.625	4
VGM6-0126	●	3/4	-	0.938	3.000	0.750	1.25
VGM6-0127	○	3/4	0.020	0.938	3.000	0.750	1.25
VGM6-0128	○	3/4	0.030	0.938	3.000	0.750	1.25
VGM6-0129	●	3/4	0.060	0.938	3.000	0.750	1.25
VGM6-0130	○	3/4	0.090	0.938	3.000	0.750	1.25
VGM6-0131	○	3/4	0.120	0.938	3.000	0.750	1.25
VGM6-0132	○	3/4	0.190	0.938	3.000	0.750	1.25
VGM6-0133	○	3/4	0.250	0.938	3.000	0.750	1.25
VGM6-0134	●	3/4	-	1.125	4.000	0.750	1.5
VGM6-0135	○	3/4	0.020	1.125	4.000	0.750	1.5
VGM6-0136	●	3/4	0.030	1.125	4.000	0.750	1.5
VGM6-0137	○	3/4	0.060	1.125	4.000	0.750	1.5
VGM6-0138	○	3/4	0.090	1.125	4.000	0.750	1.5
VGM6-0139	○	3/4	0.120	1.125	4.000	0.750	1.5
VGM6-0140	○	3/4	0.190	1.125	4.000	0.750	1.5
VGM6-0141	○	3/4	0.250	1.125	4.000	0.750	1.5
VGM6-0142	●	3/4	-	1.500	4.000	0.750	2
VGM6-0143	●	3/4	0.020	1.500	4.000	0.750	2
VGM6-0144	●	3/4	0.030	1.500	4.000	0.750	2
VGM6-0145	●	3/4	0.060	1.500	4.000	0.750	2
VGM6-0146	○	3/4	0.090	1.500	4.000	0.750	2

● Stocked ○ Available Upon Request; MOQ May Apply
▲ Globally Stocked



EDP Number	Dia.	Corner Radius		Length of Cut	Overall Length	Shank Dia.	L/D Ratio
		D (Fractional Size)	R (Inch)				
VGM6-0147	○	3/4	0.120	1.500	4.000	0.750	2
VGM6-0148	○	3/4	0.190	1.500	4.000	0.750	2
VGM6-0149	○	3/4	0.250	1.500	4.000	0.750	2
VGM6-0150	○	3/4	-	2.250	5.000	0.750	3
VGM6-0151	●	3/4	0.020	2.250	5.000	0.750	3
VGM6-0152	●	3/4	0.030	2.250	5.000	0.750	3
VGM6-0153	○	3/4	0.060	2.250	5.000	0.750	3
VGM6-0154	○	3/4	0.090	2.250	5.000	0.750	3
VGM6-0155	○	3/4	0.120	2.250	5.000	0.750	3
VGM6-0156	○	3/4	0.190	2.250	5.000	0.750	3
VGM6-0157	○	3/4	0.250	2.250	5.000	0.750	3
VGM6-0158	●	3/4	-	3.000	6.000	0.750	4
VGM6-0159	○	3/4	0.020	3.000	6.000	0.750	4
VGM6-0160	○	3/4	0.030	3.000	6.000	0.750	4
VGM6-0161	○	3/4	0.060	3.000	6.000	0.750	4
VGM6-0162	○	3/4	0.090	3.000	6.000	0.750	4
VGM6-0163	●	3/4	0.120	3.000	6.000	0.750	4
VGM6-0164	○	3/4	0.190	3.000	6.000	0.750	4
VGM6-0165	●	3/4	0.250	3.000	6.000	0.750	4
VGM6-0166	●	1	-	1.500	4.000	1.000	1.5
VGM6-0167	●	1	0.030	1.500	4.000	1.000	1.5
VGM6-0168	○	1	0.060	1.500	4.000	1.000	1.5
VGM6-0169	○	1	0.090	1.500	4.000	1.000	1.5
VGM6-0170	○	1	0.120	1.500	4.000	1.000	1.5
VGM6-0171	○	1	0.190	1.500	4.000	1.000	1.5
VGM6-0172	○	1	0.250	1.500	4.000	1.000	1.5
VGM6-0173	●	1	-	2.000	5.000	1.000	2
VGM6-0174	●	1	0.030	2.000	5.000	1.000	2
VGM6-0175	○	1	0.060	2.000	5.000	1.000	2
VGM6-0176	○	1	0.090	2.000	5.000	1.000	2
VGM6-0177	○	1	0.120	2.000	5.000	1.000	2
VGM6-0178	●	1	0.190	2.000	5.000	1.000	2
VGM6-0179	○	1	0.250	2.000	5.000	1.000	2
VGM6-0180	●	1	-	3.000	6.000	1.000	3
VGM6-0181	●	1	0.030	3.000	6.000	1.000	3
VGM6-0182	○	1	0.060	3.000	6.000	1.000	3
VGM6-0183	○	1	0.090	3.000	6.000	1.000	3
VGM6-0184	○	1	0.120	3.000	6.000	1.000	3
VGM6-0185	○	1	0.190	3.000	6.000	1.000	3
VGM6-0186	○	1	0.250	3.000	6.000	1.000	3

● Stocked ○ Available Upon Request; MOQ May Apply
▲ Globally Stocked



P					M			K	N		S		H					
Steel					Stainless Steel			Cast Iron	Non-Ferrous		HRSA		Hardened Steel					
Carbon Steel			Alloy Steel	Die Steel	300		400		Aluminum		Nickel Alloy	Titanium						
Low	Medium	High			300	400	17-4 PH		6061 7075	Casting			Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
○	○	○	○	○	○	○	○	○			○	○	○	○	○	○	○	○

○ Good ○ Best



ABOUT OSG

DRILLING

THREADING

MILLING

HOLDERS

INDEX