

# HY-PRO® CARB VGM5-NIK

High Performance Variable Geometry Nicked End Mills

## List VGM5-NIK

HY-PRO® CARB VGM5-NIK



<b>NEW</b>	<b>SPEED FEED</b> 32	<b>CARBIDE</b>	<b>EXO</b>	<b>5 FLUTE</b>	<b>40°</b>			<b>SHANK</b> h6	<b>STUB</b>
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<b>REG</b>	<b>LONG</b>	<b>EXTRA LONG</b>	<b>PACKED</b> 1 PIECE
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Cutting Diameter Tolerance	
1/8" ≤ D ≤ 1"	+0 / -0.0015"

EDP Number	Diameter	Corner Radius	Length of Cut	Overall Length	Shank Diameter	L/D Ratio	
							D (Fractional Size)
VGM5-2007	●	1/8	-	0.375	1.500	0.125	3
VGM5-2008	●	1/8	0.010	0.375	1.500	0.125	3
VGM5-2009	●	1/8	-	0.500	2.250	0.125	4
VGM5-2010	●	1/8	0.010	0.500	2.250	0.125	4
VGM5-2012	○	1/8	0.030	0.500	2.250	0.125	4
VGM5-2013	○	1/8	-	0.625	2.250	0.125	5
VGM5-2014	○	1/8	0.010	0.625	2.250	0.125	5
VGM5-2015	○	1/8	-	0.750	2.250	0.125	6
VGM5-2016	○	1/8	0.010	0.750	2.250	0.125	6
VGM5-2018	○	1/8	0.030	0.750	2.250	0.125	6
VGM5-2031	●	3/16	-	0.563	2.250	0.188	3
VGM5-2032	○	3/16	0.010	0.563	2.250	0.188	3
VGM5-2034	○	3/16	0.030	0.563	2.250	0.188	3
VGM5-2035	●	3/16	-	0.750	2.250	0.188	4
VGM5-2036	○	3/16	0.010	0.750	2.250	0.188	4
VGM5-2037	○	3/16	0.030	0.750	2.250	0.188	4
VGM5-2038	●	3/16	-	0.938	2.250	0.188	5
VGM5-2039	○	3/16	0.010	0.938	2.250	0.188	5
VGM5-2057	●	1/4	-	0.750	2.500	0.250	3
VGM5-2058	○	1/4	0.010	0.750	2.500	0.250	3
VGM5-2060	○	1/4	0.020	0.750	2.500	0.250	3
VGM5-2061	●	1/4	0.030	0.750	2.500	0.250	3
VGM5-2062	○	1/4	0.060	0.750	2.500	0.250	3
VGM5-2063	●	1/4	-	1.000	3.000	0.250	4
VGM5-2064	○	1/4	0.010	1.000	3.000	0.250	4
VGM5-2066	○	1/4	0.020	1.000	3.000	0.250	4
VGM5-2067	○	1/4	0.030	1.000	3.000	0.250	4
VGM5-2068	○	1/4	0.060	1.000	3.000	0.250	4
VGM5-2069	○	1/4	-	1.250	3.000	0.250	5
VGM5-2070	○	1/4	0.020	1.250	3.000	0.250	5
VGM5-2071	○	1/4	-	1.500	3.000	0.250	6
VGM5-2072	○	1/4	0.020	1.500	3.000	0.250	6
VGM5-2089	●	5/16	-	0.938	3.000	0.313	3
VGM5-2090	○	5/16	0.020	0.938	3.000	0.313	3
VGM5-2091	○	5/16	0.030	0.938	3.000	0.313	3
VGM5-2092	○	5/16	0.060	0.938	3.000	0.313	3
VGM5-2093	○	5/16	-	1.250	3.000	0.313	4
VGM5-2094	○	5/16	0.020	1.250	3.000	0.313	4
VGM5-2102	●	3/8	-	0.750	2.500	0.375	2
VGM5-2103	○	3/8	0.010	0.750	2.500	0.375	2
VGM5-2104	○	3/8	0.020	0.750	2.500	0.375	2
VGM5-2105	●	3/8	0.030	0.750	2.500	0.375	2
VGM5-2106	○	3/8	0.060	0.750	2.500	0.375	2
VGM5-2108	●	3/8	-	1.125	3.000	0.375	3
VGM5-2109	●	3/8	0.010	1.125	3.000	0.375	3
VGM5-2111	○	3/8	0.020	1.125	3.000	0.375	3
VGM5-2112	●	3/8	0.030	1.125	3.000	0.375	3
VGM5-2113	○	3/8	0.060	1.125	3.000	0.375	3
VGM5-2115	●	3/8	-	1.500	4.000	0.375	4
VGM5-2116	○	3/8	0.010	1.500	4.000	0.375	4

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



CONTINUED ▶

P					M			K	N		S		H			
Steel					Stainless Steel			Cast Iron	Non-Ferrous		HRSA		Hardened Steel			
Carbon Steel			Alloy Steel	Die Steel	300	400	17-4 PH		Aluminum		Nickel Alloy	Titanium				
Low	Medium	High							6061	Casting			Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC
1010	1035	1045	1065	4140	4340											
○	○	○	○	○	○	○	○	○		○	○	○	○	○	○	○

○ Good ○ Best



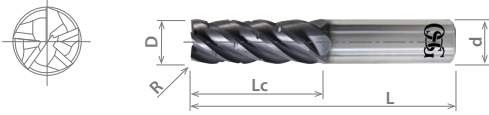
# HY-PRO® CARB VGM5-NIK

High Performance Variable Geometry Nicked End Mills

## List VGM5-NIK (Cont.)

HY-PRO® CARB VGM5-NIK

<b>NEW</b>	<b>SPEED FEED</b> 32	<b>CARBIDE</b>	<b>EXO®</b>	<b>5 FLUTE</b>	<b>40°</b>					<b>SHANK</b> h6	<b>STUB</b>
							<b>REG</b>	<b>LONG</b>	<b>EXTRA LONG</b>	<b>PACKED</b>	<b>1 PIECE</b>



Cutting Diameter Tolerance	
1/8" ≤ D ≤ 1"	+0 / -0.0015"

EDP Number		Diameter	Corner Radius	Length of Cut	Overall Length	Shank Diameter	L/D Ratio
		D (Fractional Size)	R (Inch)	Lc (Inch)	L (Inch)	d (Inch)	
VGM5-2117	○	3/8	0.020	1.500	4.000	0.375	4
VGM5-2118	○	3/8	0.030	1.500	4.000	0.375	4
VGM5-2119	○	3/8	0.060	1.500	4.000	0.375	4
VGM5-2130	●	1/2	-	1.000	3.000	0.500	2
VGM5-2131	●	1/2	0.010	1.000	3.000	0.500	2
VGM5-2133	●	1/2	0.020	1.000	3.000	0.500	2
VGM5-2134	●	1/2	0.030	1.000	3.000	0.500	2
VGM5-2135	○	1/2	0.060	1.000	3.000	0.500	2
VGM5-2139	●	1/2	-	1.250	3.000	0.500	2.5
VGM5-2140	●	1/2	0.010	1.250	3.000	0.500	2.5
VGM5-2142	●	1/2	0.020	1.250	3.000	0.500	2.5
VGM5-2143	●	1/2	0.030	1.250	3.000	0.500	2.5
VGM5-2144	●	1/2	0.060	1.250	3.000	0.500	2.5
VGM5-2148	●	1/2	-	1.500	4.000	0.500	3
VGM5-2149	○	1/2	0.010	1.500	4.000	0.500	3
VGM5-2150	●	1/2	0.030	1.500	4.000	0.500	3
VGM5-2151	○	1/2	0.060	1.500	4.000	0.500	3
VGM5-2155	●	1/2	-	2.000	4.000	0.500	4
VGM5-2156	○	1/2	0.010	2.000	4.000	0.500	4
VGM5-2157	●	1/2	0.030	2.000	4.000	0.500	4
VGM5-2158	○	1/2	0.060	2.000	4.000	0.500	4
VGM5-2160	○	1/2	-	2.500	5.000	0.500	5
VGM5-2161	●	1/2	0.010	2.500	5.000	0.500	5
VGM5-2162	○	1/2	0.030	2.500	5.000	0.500	5
VGM5-2163	○	1/2	0.060	2.500	5.000	0.500	5
VGM5-2165	●	5/8	-	0.781	3.000	0.625	1.25
VGM5-2166	●	5/8	0.020	0.781	3.000	0.625	1.25
VGM5-2167	○	5/8	0.030	0.781	3.000	0.625	1.25
VGM5-2168	○	5/8	0.060	0.781	3.000	0.625	1.25
VGM5-2171	○	5/8	-	0.938	3.000	0.625	1.5
VGM5-2172	○	5/8	0.020	0.938	3.000	0.625	1.5
VGM5-2173	○	5/8	0.030	0.938	3.000	0.625	1.5
VGM5-2174	○	5/8	0.060	0.938	3.000	0.625	1.5
VGM5-2177	●	5/8	-	1.250	3.500	0.625	2
VGM5-2178	○	5/8	0.020	1.250	3.500	0.625	2
VGM5-2179	●	5/8	0.030	1.250	3.500	0.625	2
VGM5-2180	○	5/8	0.060	1.250	3.500	0.625	2
VGM5-2183	●	5/8	-	1.563	3.500	0.625	2.5
VGM5-2184	○	5/8	0.020	1.563	3.500	0.625	2.5
VGM5-2185	○	5/8	0.030	1.563	3.500	0.625	2.5
VGM5-2186	○	5/8	0.060	1.563	3.500	0.625	2.5
VGM5-2189	●	5/8	-	1.875	5.000	0.625	3
VGM5-2190	○	5/8	0.020	1.875	5.000	0.625	3
VGM5-2191	●	5/8	0.030	1.875	5.000	0.625	3
VGM5-2192	○	5/8	0.060	1.875	5.000	0.625	3
VGM5-2195	○	5/8	-	2.500	5.000	0.625	4
VGM5-2196	●	5/8	0.020	2.500	5.000	0.625	4
VGM5-2197	●	5/8	0.030	2.500	5.000	0.625	4
VGM5-2198	○	5/8	0.060	2.500	5.000	0.625	4
VGM5-2201	○	3/4	-	0.938	3.000	0.750	1.25
VGM5-2202	●	3/4	0.020	0.938	3.000	0.750	1.25
VGM5-2203	●	3/4	0.030	0.938	3.000	0.750	1.25
VGM5-2204	○	3/4	0.060	0.938	3.000	0.750	1.25
VGM5-2209	○	3/4	-	1.125	4.000	0.750	1.5
VGM5-2210	○	3/4	0.020	1.125	4.000	0.750	1.5
VGM5-2211	○	3/4	0.030	1.125	4.000	0.750	1.5
VGM5-2212	○	3/4	0.060	1.125	4.000	0.750	1.5
VGM5-2217	●	3/4	-	1.500	4.000	0.750	2
VGM5-2218	○	3/4	0.020	1.500	4.000	0.750	2
VGM5-2219	●	3/4	0.030	1.500	4.000	0.750	2

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## List VGM5-NIK (Cont.)

HY-PRO® CARB VGM5-NIK

NEW	SPEED FEED 32	CARBIDE	EXO®	5 FLUTE	40°					SHANK h6	STUB		
										REG	LONG	EXTRA LONG	PACKED 1 PIECE

EDP Number		Diameter	Corner Radius	Length of Cut	Overall Length	Shank Diameter	L/D Ratio
		D (Fractional Size)	R (Inch)	Lc (Inch)	L (Inch)	d (Inch)	
VGM5-2220	●	3/4	0.060	1.500	4.000	0.750	2
VGM5-2225	●	3/4	-	2.250	5.000	0.750	3
VGM5-2226	○	3/4	0.020	2.250	5.000	0.750	3
VGM5-2227	●	3/4	0.030	2.250	5.000	0.750	3
VGM5-2228	○	3/4	0.060	2.250	5.000	0.750	3
VGM5-2233	●	3/4	-	3.000	6.000	0.750	4
VGM5-2234	○	3/4	0.020	3.000	6.000	0.750	4
VGM5-2235	○	3/4	0.030	3.000	6.000	0.750	4
VGM5-2236	○	3/4	0.060	3.000	6.000	0.750	4
VGM5-2241	●	3/4	-	3.750	7.000	0.750	5
VGM5-2242	○	3/4	0.020	3.750	7.000	0.750	5
VGM5-2243	●	3/4	0.030	3.750	7.000	0.750	5
VGM5-2244	○	3/4	0.060	3.750	7.000	0.750	5
VGM5-2249	○	1	-	1.250	4.000	1.000	1.25
VGM5-2250	○	1	0.030	1.250	4.000	1.000	1.25
VGM5-2251	○	1	0.060	1.250	4.000	1.000	1.25
VGM5-2256	○	1	-	2.000	5.000	1.000	2
VGM5-2257	○	1	0.030	2.000	5.000	1.000	2
VGM5-2258	○	1	0.060	2.000	5.000	1.000	2
VGM5-2263	●	1	-	3.000	6.000	1.000	3
VGM5-2264	○	1	0.030	3.000	6.000	1.000	3
VGM5-2265	○	1	0.060	3.000	6.000	1.000	3
VGM5-2270	○	1	-	4.000	7.000	1.000	4
VGM5-2271	○	1	0.030	4.000	7.000	1.000	4
VGM5-2272	○	1	0.060	4.000	7.000	1.000	4

● 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					Aluminum		Nickel Alloy	Titanium					
Low	Medium	High			300	400	17-4 PH	6061	Casting	Inconel			6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
1010	1035	1065	4140	4340	○	○	○	○			○	○	○	○	○	○	○
1018	1045				○	○	○	○									

○ Good ○ Best

