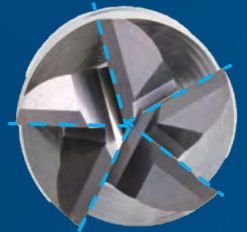




# HY-PRO® CARB VGM End Mill Series

## Target End Markets

Job Shop • General Machining



## VGM: High-Performance Variable Geometry End Mills

OSG's HY-PRO® CARB VGM is a high-performance variable geometry end mill series. Its variable index and unique flute geometry enable the reduction of vibration and chatter, promoting smooth and stable cutting with low cutting forces. With the addition of OSG proprietary multi-layer EXO coating, higher wear and heat resistance is achieved to prolong tool life.

## Stable Performance in Stainless Steel

### Work Material

304 Stainless Steel

### Milling Method

Side Milling

### Cutting Speed

250 SFM (1,910 RPM)

### Feed

33.4 IPM (0.0035 IPT)

### Depth of Cut

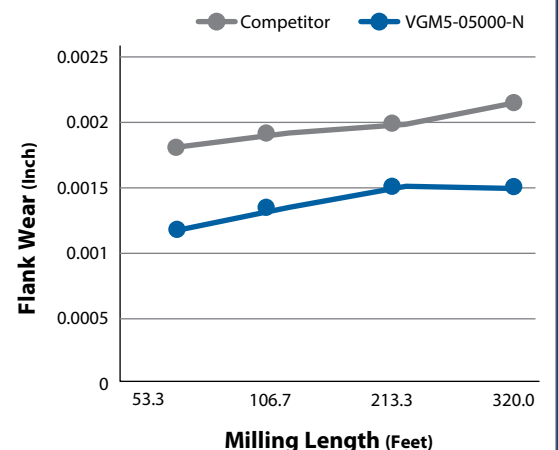
Aa=1.2", Ar=0.05"

### Coolant

Water-Soluble

### Machine

Vertical Machining Center (CAT50)



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**INDUSTRIAL SUPPLIES**  
*an MSC Company*



# HY-PRO® CARB VGM End Mill Series



|         |                  |         |         |         |  |  |             |                   |
|---------|------------------|---------|---------|---------|--|--|-------------|-------------------|
| CARBIDE | EXO <sup>®</sup> | 5 FLUTE | 6 FLUTE | 7 FLUTE |  |  | SHANK<br>h6 | PACKED<br>1 PIECE |
|---------|------------------|---------|---------|---------|--|--|-------------|-------------------|

## Features & Benefits

- 1 **Variable Index** reduces vibration during machining.
- 2 **Unique Flute Geometry** maintains excellent cutting edge sharpness and tool rigidity.
- 3 **EXO Coating** provides longer tool life through exceptional wear and heat resistance.
- 4 **Chipbreaker (-NIK)** creates small manageable chips.

## List Numbers

## Size Range

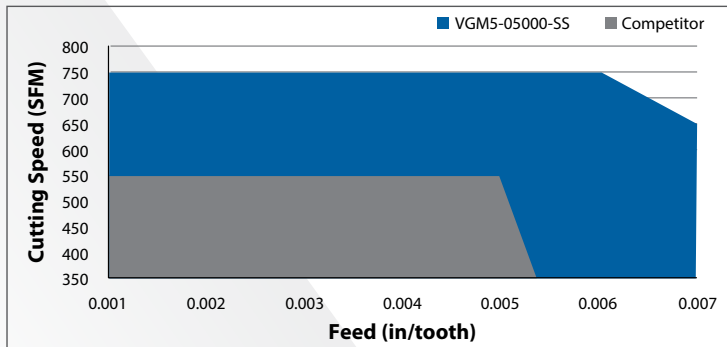
|                                         |         |
|-----------------------------------------|---------|
| VGM5 - HY-PRO® CARB VGM5 (Inch)         | 1/8"-1" |
| VGM5-NIK - HY-PRO® CARB VGM5-NIK (Inch) | 1/8"-1" |
| VGM5-LN - HY-PRO® CARB VGM5-NIK (Inch)  | 1/8"-1" |
| VGM6 - HY-PRO® CARB VGM6 (Inch)         | 1/4"-1" |
| VGM7 - HY-PRO® CARB VGM7 (Inch)         | 1/4"-1" |
| VGM7-NIK - HY-PRO® CARB VGM7-NIK (Inch) | 1/4"-1" |

| MSC Item Number          | OSG Item Number | Brand        | List Name | OSG List Number | Units | Product Name        |
|--------------------------|-----------------|--------------|-----------|-----------------|-------|---------------------|
| <a href="#">13850698</a> | VGM5-0031       | HY-PRO® CARB | VGM5      | VGM5            | Inch  | VGM5-01875-R        |
| <a href="#">13852439</a> | VGM5-0102       | HY-PRO® CARB | VGM5      | VGM5            | Inch  | VGM5-03750-M        |
| <a href="#">13852512</a> | VGM5-0108       | HY-PRO® CARB | VGM5      | VGM5            | Inch  | VGM5-03750-R        |
| <a href="#">13844881</a> | VGM5-0125       | HY-PRO® CARB | VGM5      | VGM5            | Inch  | VGM5-05000CR0.03-SS |
| <a href="#">13844659</a> | VGM5-0150       | HY-PRO® CARB | VGM5      | VGM5            | Inch  | VGM5-05000CR0.03-R  |
| <a href="#">13851555</a> | VGM5-0155       | HY-PRO® CARB | VGM5      | VGM5            | Inch  | VGM5-05000-L        |
| <a href="#">13847827</a> | VGM5-0161       | HY-PRO® CARB | VGM5      | VGM5            | Inch  | VGM5-05000CR0.01-XL |
| <a href="#">13851282</a> | VGM5-0256       | HY-PRO® CARB | VGM5      | VGM5            | Inch  | VGM5-010000-M       |
| <a href="#">13848312</a> | VGM6-0062       | HY-PRO® CARB | VGM6      | VGM6            | Inch  | VGM6-05000CR0.03-SS |
| <a href="#">13850656</a> | VGM7-0078       | HY-PRO® CARB | VGM7      | VGM7            | Inch  | VGM7-06250-N        |

Full offering available on [mscdirect.com/osg](http://mscdirect.com/osg)

## Stable Performance in a Wide Range of Conditions

### 1045 Medium Carbon Steel



### Tool Size

1/2"

### Milling Method

Side Milling

### Depth of Cut

Aa=0.625", Ar=0.15"

### Coolant

Water-Soluble

### Machine

VMC (CAT50)



## Target End Markets

Job Shop  
General Machining

## Materials

Steel • Stainless Steel • Cast Iron • Titanium  
Inconel • Hardened Steel up to 45HRC

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