

BUY 3, GET 3

**ARCH<sup>®</sup>**  
Cutting Tools

## ON THE FULL PATRIOT HP<sup>®</sup> 976 CARBIDE END MILL PRODUCT OFFERING

**~~\$61~~ FOR 6\***

5-Flute, 1/8 x 1/2,  
Standard Length  
(976-000-138)



**~~\$114~~ FOR 6\***

5-Flute, 1/4 x 3/4,  
Standard Length  
(976-000-294)



**~~\$185~~ FOR 6\***

5-Flute, 5/16 x 1-1/8,  
Standard Length  
(976-000-387)



\*Price shown on the promotional document is for (6) of the same item number, rounded up to the nearest whole dollar amount. Actual list pricing is shown per item number within this document.

Final pricing will vary depending on the item numbers selected, shipping and handling, taxes, and other applicable fees. This promotion can be applied to mixed item number orders, however, the (3) highest priced item numbers on the order will be used to calculate the final promotional cost, and the (3) lowest priced items numbers will be "free." Offer valid until September 30, 2025, or while supplies last.



[www.ahbinc.com](http://www.ahbinc.com) | 800-991-4225 | [customerservice@ahbinc.com](mailto:customerservice@ahbinc.com)



## Advanced proprietary geometries and coatings that optimize tool life, finish, and metal removal rates

Originally optimized to tackle difficult to machine applications such as in Titanium & pre-hardened steels, this High-Performance End Mill has excelled in a wide array of exotic, alloyed and ferrous part materials. The Patriot family of high-performance end mills is designed with advanced proprietary geometry. There is a thin film coating that consistently delivers increased tool life, superior part finish and aggressive metal removal rates. This is all accomplished within a machining environment that generates extreme working temperatures.

### Features

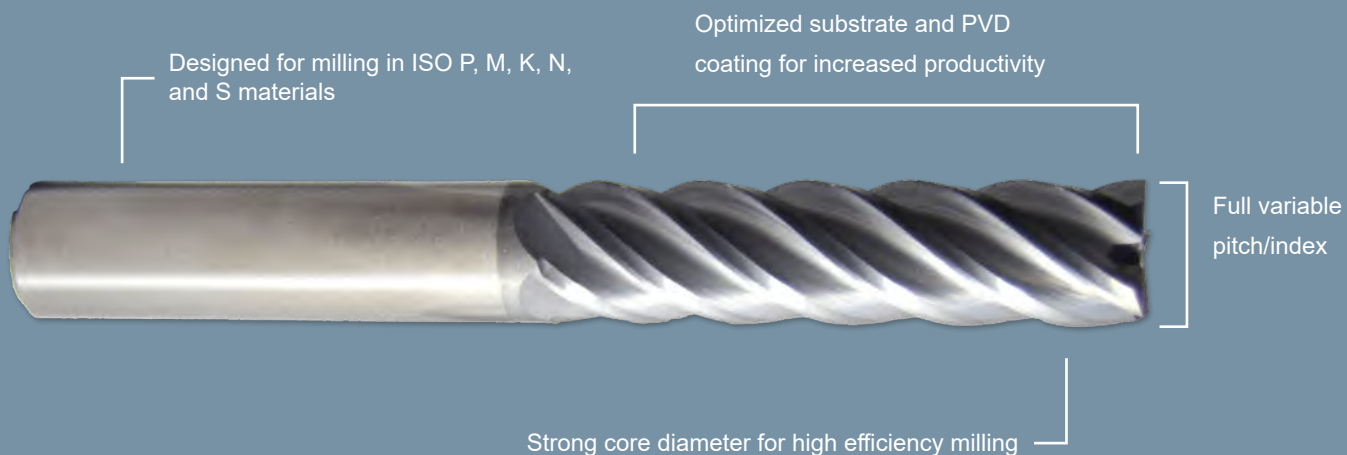
- Variable pitch / index
- Advanced, proprietary geometry
- Optimized substrate
- PVD coating
- Strong core diameter

### Benefits

- Process security
- Superior metal removal rates
- Chatter reduction
- Smooth surface finish
- Cycle time reductions
- Cost savings

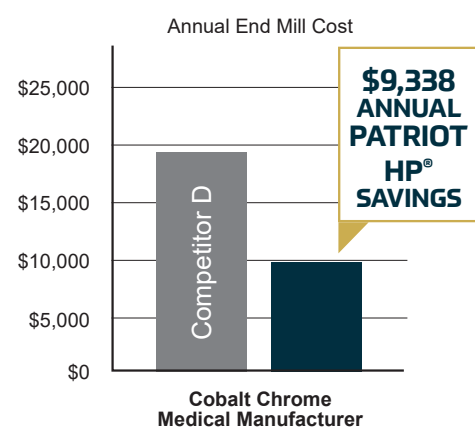
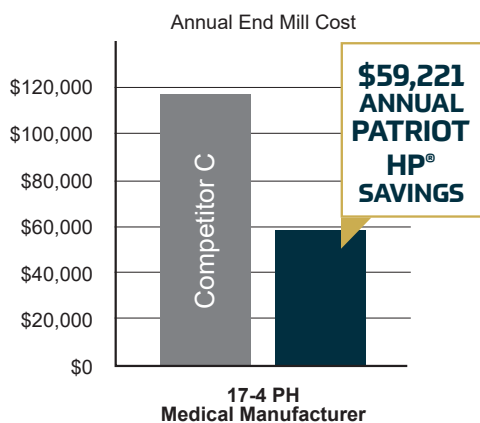
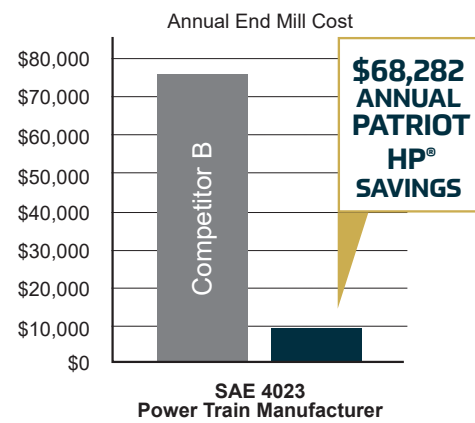
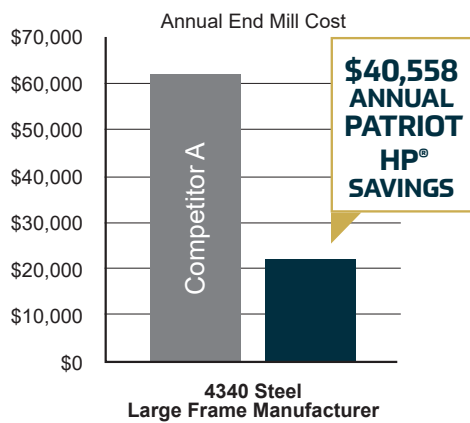
### Applications

- Slotting (100% Ae)
- Roughing (>40% Ae)
- Helical interpolation and ramping
- Finish profiling
- Trochoidal milling / HEM (<40% Ae)



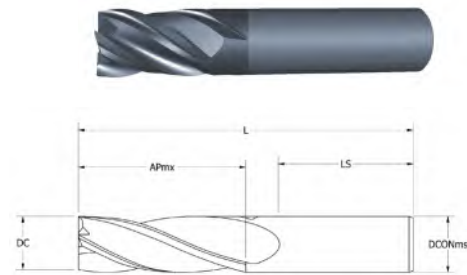
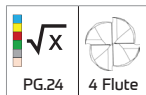
## Specifications

|                |                                  |
|----------------|----------------------------------|
| Diameter       | 0.125 to 1.000"                  |
| Radius         | Square, Corner, Ball Nose        |
| Flute count    | 4, 5, 7                          |
| Overall length | Standard, Stub, Long, Extra Long |



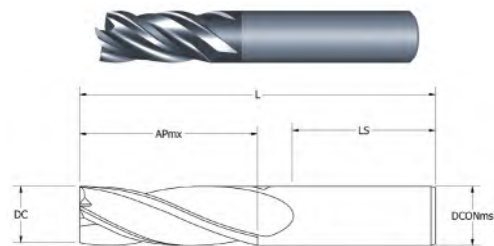
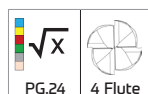
Proprietary to ARCH Cutting Tools

**4-FLUTE, STUB LENGTH,  
SQUARE END, VARIABLE HELIX**



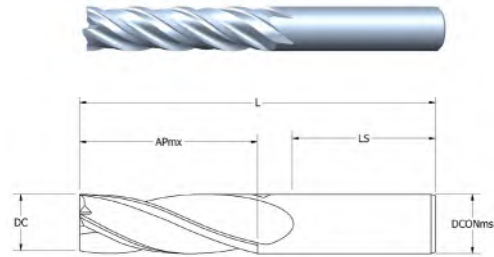
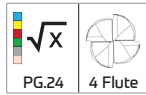
| DC<br>[in.] | DCONms<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|---------------|-------------|------------|-------------|----------|
| 0.1250      | 0.1250          | 0.2500        | 0.8750      | 1.5000     | 976-000-001 | \$17.42  |
| 0.1875      | 0.1875          | 0.3750        | 1.2500      | 2.0000     | 976-000-002 | \$27.32  |
| 0.2500      | 0.2500          | 0.5000        | 1.1250      | 2.0000     | 976-000-003 | \$30.45  |
| 0.3125      | 0.3125          | 0.5000        | 1.1250      | 2.0000     | 976-000-004 | \$41.96  |
| 0.3750      | 0.3750          | 0.6250        | 1.0000      | 2.0000     | 976-000-005 | \$46.45  |
| 0.4375      | 0.4375          | 0.6250        | 1.5000      | 2.5000     | 976-000-006 | \$63.75  |
| 0.5000      | 0.5000          | 0.7500        | 1.3750      | 2.5000     | 976-000-007 | \$72.12  |
| 0.6250      | 0.6250          | 0.7500        | 1.8750      | 3.0000     | 976-000-008 | \$116.16 |
| 0.7500      | 0.7500          | 1.0000        | 1.6250      | 3.0000     | 976-000-009 | \$168.56 |

**4-FLUTE, STANDARD LENGTH,  
SQUARE END, VARIABLE HELIX**



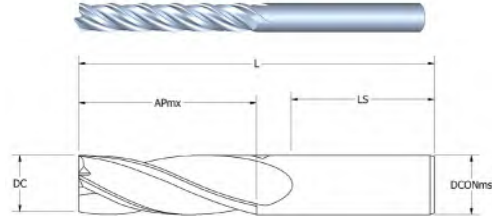
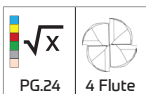
| DC<br>[in.] | DCONms<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|---------------|-------------|------------|-------------|----------|
| 0.1250      | 0.1250          | 0.5000        | 0.6250      | 1.5000     | 976-000-010 | \$18.18  |
| 0.1875      | 0.1875          | 0.6250        | 1.0000      | 2.0000     | 976-000-011 | \$27.78  |
| 0.2500      | 0.2500          | 0.7500        | 1.3750      | 2.5000     | 976-000-012 | \$31.88  |
| 0.2500      | 0.2500          | 1.0000        | 1.1250      | 2.5000     | 976-000-013 | \$32.46  |
| 0.2500      | 0.2500          | 1.2500        | 0.8750      | 2.5000     | 976-000-014 | \$33.14  |
| 0.3125      | 0.3125          | 0.8125        | 1.3125      | 2.5000     | 976-000-015 | \$45.41  |
| 0.3750      | 0.3750          | 0.8750        | 1.2500      | 2.5000     | 976-000-016 | \$51.82  |
| 0.3750      | 0.3750          | 1.0000        | 1.1250      | 2.5000     | 976-000-017 | \$52.63  |
| 0.3750      | 0.3750          | 1.2500        | 0.8750      | 2.5000     | 976-000-018 | \$53.78  |
| 0.4375      | 0.4375          | 1.0000        | 1.3750      | 2.7500     | 976-000-019 | \$67.54  |
| 0.5000      | 0.5000          | 1.0000        | 1.6250      | 3.0000     | 976-000-020 | \$75.34  |
| 0.5000      | 0.5000          | 1.2500        | 1.3750      | 3.0000     | 976-000-021 | \$76.94  |
| 0.5000      | 0.5000          | 1.5000        | 1.1250      | 3.0000     | 976-000-022 | \$80.32  |
| 0.5000      | 0.5000          | 1.5000        | 1.6250      | 3.5000     | 976-000-023 | \$92.94  |
| 0.5000      | 0.5000          | 1.7500        | 1.3750      | 3.5000     | 976-000-024 | \$96.67  |
| 0.6250      | 0.6250          | 1.5000        | 1.6250      | 3.5000     | 976-000-025 | \$123.96 |
| 0.6250      | 0.6250          | 1.7500        | 1.3750      | 3.5000     | 976-000-026 | \$127.28 |
| 0.7500      | 0.7500          | 1.7500        | 1.8750      | 4.0000     | 976-000-027 | \$200.54 |
| 1.0000      | 1.0000          | 1.7500        | 1.8750      | 4.0000     | 976-000-028 | \$321.71 |

**4-FLUTE. LONG LENGTH,  
SQUARE END, VARIABLE HELIX**



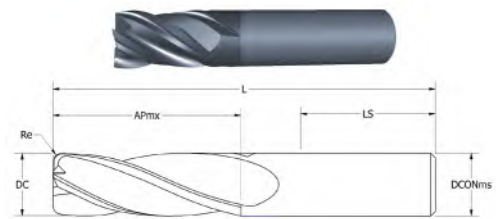
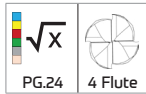
| DC<br>[in.] | DCONms<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|---------------|-------------|------------|-------------|----------|
| 0.1250      | 0.1250          | 0.7500        | 1.3750      | 2.5000     | 976-000-029 | \$28.48  |
| 0.1875      | 0.1875          | 0.7500        | 1.3750      | 2.5000     | 976-000-030 | \$32.33  |
| 0.2500      | 0.2500          | 1.1250        | 1.5000      | 3.0000     | 976-000-031 | \$37.04  |
| 0.3125      | 0.3125          | 1.1250        | 1.5000      | 3.0000     | 976-000-032 | \$52.35  |
| 0.3750      | 0.3750          | 1.2500        | 1.3750      | 3.0000     | 976-000-033 | \$70.86  |
| 0.4375      | 0.4375          | 2.0000        | 1.6250      | 4.0000     | 976-000-034 | \$88.97  |
| 0.5000      | 0.5000          | 2.0000        | 1.6250      | 4.0000     | 976-000-035 | \$113.63 |
| 0.6250      | 0.6250          | 2.2500        | 2.3750      | 5.0000     | 976-000-036 | \$204.79 |
| 0.7500      | 0.7500          | 2.2500        | 2.3750      | 5.0000     | 976-000-037 | \$231.28 |
| 1.0000      | 1.0000          | 2.2500        | 2.3750      | 5.0000     | 976-000-038 | \$362.14 |

**4-FLUTE, X-LONG LENGTH,  
SQUARE END, VARIABLE HELIX**



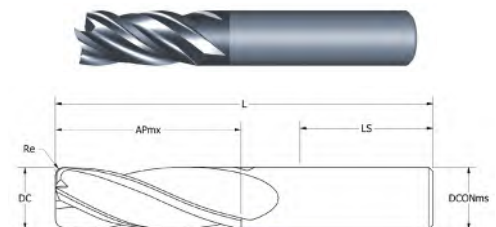
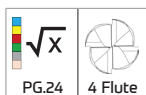
| DC<br>[in.] | DCONms<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|---------------|-------------|------------|-------------|----------|
| 0.1250      | 0.1250          | 1.0000        | 1.6250      | 3.0000     | 976-000-039 | \$37.85  |
| 0.1875      | 0.1875          | 1.1250        | 1.5000      | 3.0000     | 976-000-040 | \$42.32  |
| 0.2500      | 0.2500          | 1.5000        | 2.1250      | 4.0000     | 976-000-041 | \$47.82  |
| 0.3125      | 0.3125          | 1.6250        | 2.0000      | 4.0000     | 976-000-042 | \$66.85  |
| 0.3750      | 0.3750          | 2.0000        | 1.6250      | 4.0000     | 976-000-043 | \$84.28  |
| 0.4375      | 0.4375          | 3.0000        | 2.6250      | 6.0000     | 976-000-044 | \$139.19 |
| 0.5000      | 0.5000          | 3.0000        | 2.6250      | 6.0000     | 976-000-045 | \$155.83 |
| 0.6250      | 0.6250          | 3.0000        | 2.6250      | 6.0000     | 976-000-046 | \$219.35 |
| 0.7500      | 0.7500          | 3.0000        | 2.6250      | 6.0000     | 976-000-047 | \$260.51 |
| 1.0000      | 1.0000          | 3.0000        | 2.6250      | 6.0000     | 976-000-048 | \$426.52 |

**4-FLUTE, STUB LENGTH,  
CORNER RADIUS, VARIABLE HELIX**



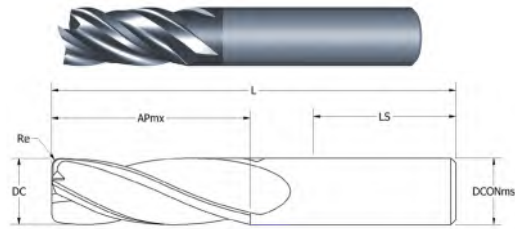
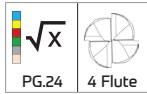
| DC<br>[in.] | DCONms<br>[in.] | RE<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|-------------|---------------|-------------|------------|-------------|----------|
| 0.1250      | 0.1250          | 0.0100      | 0.2500        | 0.8750      | 1.5000     | 976-000-128 | \$18.42  |
| 0.1875      | 0.1875          | 0.0100      | 0.3750        | 1.2500      | 2.0000     | 976-000-129 | \$28.37  |
| 0.2500      | 0.2500          | 0.0200      | 0.5000        | 1.1250      | 2.0000     | 976-000-130 | \$32.12  |
| 0.3125      | 0.3125          | 0.0200      | 0.5000        | 1.1250      | 2.0000     | 976-000-131 | \$43.63  |
| 0.3750      | 0.3750          | 0.0200      | 0.6250        | 1.0000      | 2.0000     | 976-000-132 | \$48.51  |
| 0.4375      | 0.4375          | 0.0300      | 0.6250        | 1.5000      | 2.5000     | 976-000-133 | \$66.52  |
| 0.5000      | 0.5000          | 0.0300      | 0.7500        | 1.3750      | 2.5000     | 976-000-134 | \$74.76  |
| 0.6250      | 0.6250          | 0.0400      | 0.7500        | 1.8750      | 3.0000     | 976-000-135 | \$121.89 |
| 0.7500      | 0.7500          | 0.0400      | 1.0000        | 1.6250      | 3.0000     | 976-000-136 | \$178.07 |

**4-FLUTE, STANDARD LENGTH,  
CORNER RADIUS, VARIABLE HELIX**



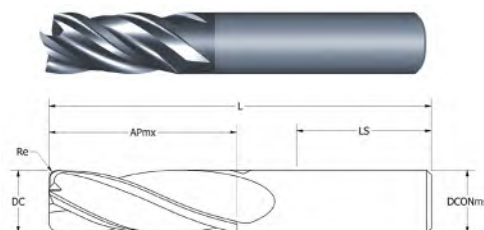
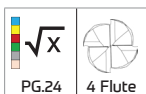
| DC<br>[in.] | DCONms<br>[in.] | RE<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price   |
|-------------|-----------------|-------------|---------------|-------------|------------|-------------|---------|
| 0.1250      | 0.1250          | 0.0100      | 0.5000        | 0.6250      | 1.5000     | 976-000-137 | \$19.74 |
| 0.1250      | 0.1250          | 0.0150      | 0.5000        | 0.6250      | 1.5000     | 976-000-138 | \$20.27 |
| 0.1250      | 0.1250          | 0.0200      | 0.5000        | 0.6250      | 1.5000     | 976-000-139 | \$20.73 |
| 0.1875      | 0.1875          | 0.0100      | 0.6250        | 1.0000      | 2.0000     | 976-000-140 | \$29.40 |
| 0.1875      | 0.1875          | 0.0150      | 0.6250        | 1.0000      | 2.0000     | 976-000-141 | \$29.76 |
| 0.1875      | 0.1875          | 0.0200      | 0.6250        | 1.0000      | 2.0000     | 976-000-142 | \$29.99 |
| 0.1875      | 0.1875          | 0.0300      | 0.6250        | 1.0000      | 2.0000     | 976-000-143 | \$30.12 |
| 0.2500      | 0.2500          | 0.0100      | 0.7500        | 1.3750      | 2.5000     | 976-000-144 | \$33.60 |
| 0.2500      | 0.2500          | 0.0150      | 0.7500        | 1.3750      | 2.5000     | 976-000-145 | \$33.94 |
| 0.2500      | 0.2500          | 0.0200      | 0.7500        | 1.3750      | 2.5000     | 976-000-146 | \$34.16 |
| 0.2500      | 0.2500          | 0.0300      | 0.7500        | 1.3750      | 2.5000     | 976-000-147 | \$34.40 |
| 0.2500      | 0.2500          | 0.0600      | 0.7500        | 1.3750      | 2.5000     | 976-000-148 | \$35.32 |
| 0.2500      | 0.2500          | 0.0100      | 1.0000        | 1.1250      | 2.5000     | 976-000-149 | \$34.29 |
| 0.2500      | 0.2500          | 0.0150      | 1.0000        | 1.1250      | 2.5000     | 976-000-150 | \$34.63 |
| 0.2500      | 0.2500          | 0.0200      | 1.0000        | 1.1250      | 2.5000     | 976-000-151 | \$35.09 |
| 0.2500      | 0.2500          | 0.0300      | 1.0000        | 1.1250      | 2.5000     | 976-000-152 | \$35.43 |
| 0.2500      | 0.2500          | 0.0600      | 1.0000        | 1.1250      | 2.5000     | 976-000-153 | \$36.69 |
| 0.2500      | 0.2500          | 0.0100      | 1.2500        | 0.8750      | 2.5000     | 976-000-154 | \$37.04 |
| 0.2500      | 0.2500          | 0.0150      | 1.2500        | 0.8750      | 2.5000     | 976-000-155 | \$37.50 |
| 0.2500      | 0.2500          | 0.0200      | 1.2500        | 0.8750      | 2.5000     | 976-000-156 | \$37.84 |
| 0.2500      | 0.2500          | 0.0300      | 1.2500        | 0.8750      | 2.5000     | 976-000-157 | \$38.29 |
| 0.2500      | 0.2500          | 0.0600      | 1.2500        | 0.8750      | 2.5000     | 976-000-158 | \$38.88 |
| 0.3125      | 0.3125          | 0.0100      | 0.8125        | 1.3125      | 2.5000     | 976-000-159 | \$47.36 |
| 0.3125      | 0.3125          | 0.0150      | 0.8125        | 1.3125      | 2.5000     | 976-000-160 | \$47.69 |
| 0.3125      | 0.3125          | 0.0200      | 0.8125        | 1.3125      | 2.5000     | 976-000-161 | \$48.05 |

**4-FLUTE, STANDARD LENGTH,  
CORNER RADIUS, VARIABLE HELIX**



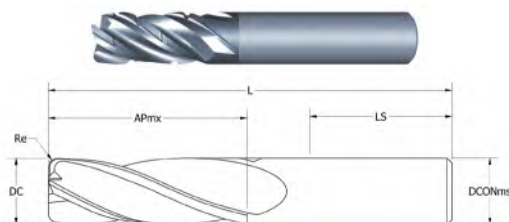
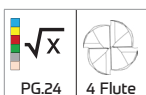
| DC<br>[in.] | DCONms<br>[in.] | RE<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|-------------|---------------|-------------|------------|-------------|----------|
| 0.3125      | 0.3125          | 0.0300      | 0.8125        | 1.3125      | 2.5000     | 976-000-162 | \$48.28  |
| 0.3125      | 0.3125          | 0.0600      | 0.8125        | 1.3125      | 2.5000     | 976-000-163 | \$49.08  |
| 0.3750      | 0.3750          | 0.0100      | 0.8750        | 1.2500      | 2.5000     | 976-000-164 | \$55.04  |
| 0.3750      | 0.3750          | 0.0150      | 0.8750        | 1.2500      | 2.5000     | 976-000-165 | \$55.27  |
| 0.3750      | 0.3750          | 0.0200      | 0.8750        | 1.2500      | 2.5000     | 976-000-166 | \$55.95  |
| 0.3750      | 0.3750          | 0.0300      | 0.8750        | 1.2500      | 2.5000     | 976-000-167 | \$56.31  |
| 0.3750      | 0.3750          | 0.0600      | 0.8750        | 1.2500      | 2.5000     | 976-000-168 | \$56.87  |
| 0.3750      | 0.3750          | 0.0100      | 1.0000        | 1.1250      | 2.5000     | 976-000-169 | \$56.08  |
| 0.3750      | 0.3750          | 0.0150      | 1.0000        | 1.1250      | 2.5000     | 976-000-170 | \$56.64  |
| 0.3750      | 0.3750          | 0.0200      | 1.0000        | 1.1250      | 2.5000     | 976-000-171 | \$57.10  |
| 0.3750      | 0.3750          | 0.0300      | 1.0000        | 1.1250      | 2.5000     | 976-000-172 | \$57.68  |
| 0.3750      | 0.3750          | 0.0600      | 1.0000        | 1.1250      | 2.5000     | 976-000-173 | \$58.02  |
| 0.3750      | 0.3750          | 0.0100      | 1.2500        | 0.8750      | 2.5000     | 976-000-174 | \$57.36  |
| 0.3750      | 0.3750          | 0.0150      | 1.2500        | 0.8750      | 2.5000     | 976-000-175 | \$57.79  |
| 0.3750      | 0.3750          | 0.0200      | 1.2500        | 0.8750      | 2.5000     | 976-000-176 | \$58.36  |
| 0.3750      | 0.3750          | 0.0300      | 1.2500        | 0.8750      | 2.5000     | 976-000-177 | \$58.82  |
| 0.3750      | 0.3750          | 0.0600      | 1.2500        | 0.8750      | 2.5000     | 976-000-178 | \$59.39  |
| 0.4375      | 0.4375          | 0.0150      | 1.0000        | 1.3750      | 2.7500     | 976-000-179 | \$71.44  |
| 0.4375      | 0.4375          | 0.0200      | 1.0000        | 1.3750      | 2.7500     | 976-000-180 | \$71.78  |
| 0.4375      | 0.4375          | 0.0300      | 1.0000        | 1.3750      | 2.7500     | 976-000-181 | \$72.12  |
| 0.4375      | 0.4375          | 0.0600      | 1.0000        | 1.3750      | 2.7500     | 976-000-182 | \$72.24  |
| 0.5000      | 0.5000          | 0.0100      | 1.0000        | 1.6250      | 3.0000     | 976-000-183 | \$72.47  |
| 0.5000      | 0.5000          | 0.0150      | 1.0000        | 1.6250      | 3.0000     | 976-000-184 | \$73.15  |
| 0.5000      | 0.5000          | 0.0300      | 1.0000        | 1.6250      | 3.0000     | 976-000-185 | \$73.43  |
| 0.5000      | 0.5000          | 0.0600      | 1.0000        | 1.6250      | 3.0000     | 976-000-186 | \$73.74  |
| 0.5000      | 0.5000          | 0.0900      | 1.0000        | 1.6250      | 3.0000     | 976-000-187 | \$74.42  |
| 0.5000      | 0.5000          | 0.1200      | 1.0000        | 1.6250      | 3.0000     | 976-000-188 | \$74.55  |
| 0.5000      | 0.5000          | 0.0100      | 1.2500        | 1.3750      | 3.0000     | 976-000-189 | \$82.10  |
| 0.5000      | 0.5000          | 0.0150      | 1.2500        | 1.3750      | 3.0000     | 976-000-190 | \$82.45  |
| 0.5000      | 0.5000          | 0.0300      | 1.2500        | 1.3750      | 3.0000     | 976-000-191 | \$82.78  |
| 0.5000      | 0.5000          | 0.0600      | 1.2500        | 1.3750      | 3.0000     | 976-000-192 | \$83.47  |
| 0.5000      | 0.5000          | 0.0900      | 1.2500        | 1.3750      | 3.0000     | 976-000-193 | \$83.93  |
| 0.5000      | 0.5000          | 0.1200      | 1.2500        | 1.3750      | 3.0000     | 976-000-194 | \$84.39  |
| 0.5000      | 0.5000          | 0.0100      | 1.5000        | 1.1250      | 3.0000     | 976-000-195 | \$84.97  |
| 0.5000      | 0.5000          | 0.0150      | 1.5000        | 1.1250      | 3.0000     | 976-000-196 | \$85.54  |
| 0.5000      | 0.5000          | 0.0300      | 1.5000        | 1.1250      | 3.0000     | 976-000-197 | \$85.77  |
| 0.5000      | 0.5000          | 0.0600      | 1.5000        | 1.1250      | 3.0000     | 976-000-198 | \$86.11  |
| 0.5000      | 0.5000          | 0.0900      | 1.5000        | 1.1250      | 3.0000     | 976-000-199 | \$86.46  |
| 0.5000      | 0.5000          | 0.1200      | 1.5000        | 1.1250      | 3.0000     | 976-000-200 | \$84.97  |
| 0.5000      | 0.5000          | 0.0100      | 1.5000        | 1.6250      | 3.5000     | 976-000-201 | \$97.48  |
| 0.5000      | 0.5000          | 0.0150      | 1.5000        | 1.6250      | 3.5000     | 976-000-202 | \$97.92  |
| 0.5000      | 0.5000          | 0.0300      | 1.5000        | 1.6250      | 3.5000     | 976-000-203 | \$98.50  |
| 0.5000      | 0.5000          | 0.0600      | 1.5000        | 1.6250      | 3.5000     | 976-000-204 | \$98.84  |
| 0.5000      | 0.5000          | 0.0900      | 1.5000        | 1.6250      | 3.5000     | 976-000-205 | \$99.64  |
| 0.5000      | 0.5000          | 0.1200      | 1.5000        | 1.6250      | 3.5000     | 976-000-206 | \$100.10 |
| 0.5000      | 0.5000          | 0.0100      | 1.7500        | 1.3750      | 3.5000     | 976-000-207 | \$101.94 |
| 0.5000      | 0.5000          | 0.0150      | 1.7500        | 1.3750      | 3.5000     | 976-000-208 | \$103.43 |

4-FLUTE, STANDARD LENGTH,  
CORNER RADIUS, VARIABLE HELIX



| DC<br>[in.] | DCONms<br>[in.] | RE<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|-------------|---------------|-------------|------------|-------------|----------|
| 0.5000      | 0.5000          | 0.0300      | 1.7500        | 1.3750      | 3.5000     | 976-000-209 | \$103.89 |
| 0.5000      | 0.5000          | 0.0600      | 1.7500        | 1.3750      | 3.5000     | 976-000-210 | \$104.23 |
| 0.5000      | 0.5000          | 0.0900      | 1.7500        | 1.3750      | 3.5000     | 976-000-211 | \$104.57 |
| 0.5000      | 0.5000          | 0.1200      | 1.7500        | 1.3750      | 3.5000     | 976-000-212 | \$105.26 |
| 0.6250      | 0.6250          | 0.0300      | 1.5000        | 1.6250      | 3.5000     | 976-000-213 | \$130.25 |
| 0.6250      | 0.6250          | 0.0400      | 1.5000        | 1.6250      | 3.5000     | 976-000-214 | \$130.60 |
| 0.6250      | 0.6250          | 0.0600      | 1.5000        | 1.6250      | 3.5000     | 976-000-215 | \$130.95 |
| 0.6250      | 0.6250          | 0.0900      | 1.5000        | 1.6250      | 3.5000     | 976-000-216 | \$131.40 |
| 0.6250      | 0.6250          | 0.1200      | 1.5000        | 1.6250      | 3.5000     | 976-000-217 | \$131.75 |
| 0.6250      | 0.6250          | 0.0300      | 1.7500        | 1.3750      | 3.5000     | 976-000-218 | \$133.36 |
| 0.6250      | 0.6250          | 0.0400      | 1.7500        | 1.3750      | 3.5000     | 976-000-219 | \$134.05 |
| 0.6250      | 0.6250          | 0.0600      | 1.7500        | 1.3750      | 3.5000     | 976-000-220 | \$134.50 |
| 0.6250      | 0.6250          | 0.0900      | 1.7500        | 1.3750      | 3.5000     | 976-000-221 | \$134.84 |
| 0.6250      | 0.6250          | 0.1200      | 1.7500        | 1.3750      | 3.5000     | 976-000-222 | \$135.19 |
| 0.7500      | 0.7500          | 0.0300      | 1.7500        | 1.8750      | 4.0000     | 976-000-223 | \$205.59 |
| 0.7500      | 0.7500          | 0.0400      | 1.7500        | 1.8750      | 4.0000     | 976-000-224 | \$206.16 |
| 0.7500      | 0.7500          | 0.0600      | 1.7500        | 1.8750      | 4.0000     | 976-000-225 | \$207.99 |
| 0.7500      | 0.7500          | 0.0900      | 1.7500        | 1.8750      | 4.0000     | 976-000-226 | \$208.57 |
| 0.7500      | 0.7500          | 0.1200      | 1.7500        | 1.8750      | 4.0000     | 976-000-227 | \$209.03 |
| 1.0000      | 1.0000          | 0.0300      | 1.7500        | 1.8750      | 4.0000     | 976-000-228 | \$339.43 |
| 1.0000      | 1.0000          | 0.0400      | 1.7500        | 1.8750      | 4.0000     | 976-000-229 | \$339.77 |
| 1.0000      | 1.0000          | 0.0600      | 1.7500        | 1.8750      | 4.0000     | 976-000-230 | \$340.22 |
| 1.0000      | 1.0000          | 0.0900      | 1.7500        | 1.8750      | 4.0000     | 976-000-231 | \$340.57 |
| 1.0000      | 1.0000          | 0.1200      | 1.7500        | 1.8750      | 4.0000     | 976-000-232 | \$341.02 |

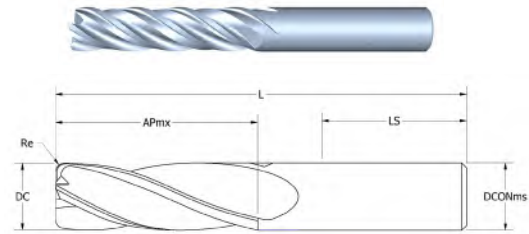
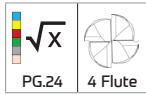
4-FLUTE, STANDARD LENGTH,  
CORNER RADIUS, ROUGHING/CHIP BREAKER



| DC<br>[in.] | DCONms<br>[in.] | RE<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|-------------|---------------|-------------|------------|-------------|----------|
| 0.2500      | 0.2500          | 0.0200      | 0.7500        | 1.3750      | 2.5000     | 976-000-529 | \$56.08  |
| 0.3750      | 0.3750          | 0.0200      | 0.8750        | 1.2500      | 2.5000     | 976-000-530 | \$80.27  |
| 0.5000      | 0.5000          | 0.0300      | 1.0000        | 1.6250      | 3.0000     | 976-000-531 | \$105.84 |
| 0.6250      | 0.6250          | 0.0400      | 1.5000        | 1.6250      | 3.5000     | 976-000-532 | \$170.97 |
| 0.7500      | 0.7500          | 0.0400      | 1.7500        | 1.8750      | 4.0000     | 976-000-533 | \$252.25 |
| 1.0000      | 1.0000          | 0.0400      | 1.7500        | 1.8750      | 4.0000     | 976-000-534 | \$386.10 |

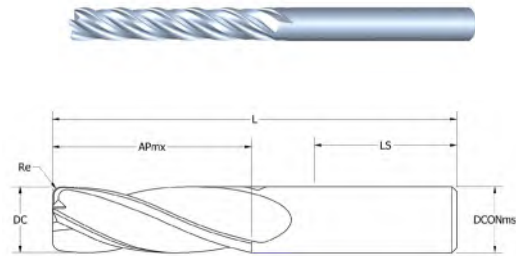
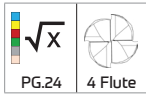


**4-FLUTE, LONG LENGTH,  
CORNER RADIUS, VARIABLE HELIX**

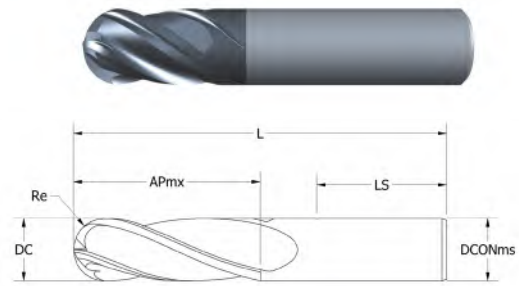
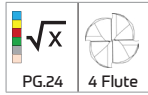


| DC<br>[in.] | DCONms<br>[in.] | RE<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|-------------|---------------|-------------|------------|-------------|----------|
| 0.1250      | 0.1250          | 0.0150      | 0.7500        | 1.3750      | 2.5000     | 976-000-233 | \$31.14  |
| 0.1250      | 0.1250          | 0.0300      | 0.7500        | 1.3750      | 2.5000     | 976-000-234 | \$31.49  |
| 0.1875      | 0.1875          | 0.0150      | 0.7500        | 1.3750      | 2.5000     | 976-000-235 | \$35.32  |
| 0.1875      | 0.1875          | 0.0300      | 0.7500        | 1.3750      | 2.5000     | 976-000-236 | \$35.78  |
| 0.2500      | 0.2500          | 0.0150      | 1.1250        | 1.5000      | 3.0000     | 976-000-237 | \$40.20  |
| 0.2500      | 0.2500          | 0.0300      | 1.1250        | 1.5000      | 3.0000     | 976-000-238 | \$41.17  |
| 0.3125      | 0.3125          | 0.0150      | 1.1250        | 1.5000      | 3.0000     | 976-000-239 | \$55.72  |
| 0.3125      | 0.3125          | 0.0300      | 1.1250        | 1.5000      | 3.0000     | 976-000-240 | \$56.18  |
| 0.3750      | 0.3750          | 0.0300      | 1.2500        | 1.3750      | 3.0000     | 976-000-241 | \$77.17  |
| 0.3750      | 0.3750          | 0.0600      | 1.2500        | 1.3750      | 3.0000     | 976-000-242 | \$77.86  |
| 0.4375      | 0.4375          | 0.0300      | 2.0000        | 1.6250      | 4.0000     | 976-000-243 | \$95.40  |
| 0.4375      | 0.4375          | 0.0600      | 2.0000        | 1.6250      | 4.0000     | 976-000-244 | \$96.21  |
| 0.5000      | 0.5000          | 0.0300      | 2.0000        | 1.6250      | 4.0000     | 976-000-245 | \$121.20 |
| 0.5000      | 0.5000          | 0.0600      | 2.0000        | 1.6250      | 4.0000     | 976-000-246 | \$121.66 |
| 0.6250      | 0.6250          | 0.0300      | 2.2500        | 2.3750      | 5.0000     | 976-000-247 | \$205.93 |
| 0.6250      | 0.6250          | 0.0600      | 2.2500        | 2.3750      | 5.0000     | 976-000-248 | \$207.30 |
| 0.7500      | 0.7500          | 0.0300      | 2.2500        | 2.3750      | 5.0000     | 976-000-249 | \$246.52 |
| 0.7500      | 0.7500          | 0.0600      | 2.2500        | 2.3750      | 5.0000     | 976-000-250 | \$246.98 |
| 1.0000      | 1.0000          | 0.0300      | 2.2500        | 2.3750      | 5.0000     | 976-000-251 | \$380.42 |
| 1.0000      | 1.0000          | 0.0600      | 2.2500        | 2.3750      | 5.0000     | 976-000-252 | \$380.87 |

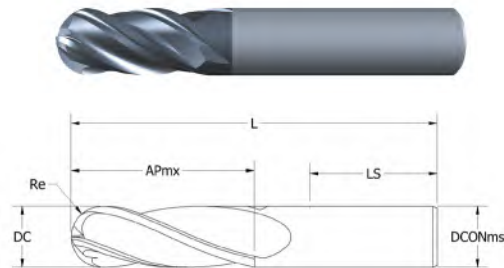
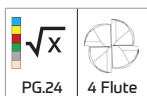
4-FLUTE, X LONG LENGTH,  
CORNER RADIUS, VARIABLE HELIX



| DC<br>[in.] | DCONms<br>[in.] | RE<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|-------------|---------------|-------------|------------|-------------|----------|
| 0.1250      | 0.1250          | 0.0150      | 1.0000        | 1.6250      | 3.0000     | 976-000-253 | \$41.30  |
| 0.1250      | 0.1250          | 0.0300      | 1.0000        | 1.6250      | 3.0000     | 976-000-255 | \$41.74  |
| 0.1875      | 0.1875          | 0.0150      | 1.1250        | 1.5000      | 3.0000     | 976-000-256 | \$44.95  |
| 0.1875      | 0.1875          | 0.0300      | 1.1250        | 1.5000      | 3.0000     | 976-000-257 | \$45.64  |
| 0.2500      | 0.2500          | 0.0150      | 1.5000        | 2.1250      | 4.0000     | 976-000-258 | \$51.49  |
| 0.2500      | 0.2500          | 0.0300      | 1.5000        | 2.1250      | 4.0000     | 976-000-259 | \$51.72  |
| 0.3125      | 0.3125          | 0.0300      | 1.6250        | 2.0000      | 4.0000     | 976-000-260 | \$71.44  |
| 0.3125      | 0.3125          | 0.0600      | 1.6250        | 2.0000      | 4.0000     | 976-000-262 | \$72.01  |
| 0.3750      | 0.3750          | 0.0300      | 2.0000        | 1.6250      | 4.0000     | 976-000-263 | \$92.08  |
| 0.3750      | 0.3750          | 0.0600      | 2.0000        | 1.6250      | 4.0000     | 976-000-264 | \$92.77  |
| 0.4375      | 0.4375          | 0.0300      | 3.0000        | 2.6250      | 6.0000     | 976-000-265 | \$148.60 |
| 0.4375      | 0.4375          | 0.0600      | 3.0000        | 2.6250      | 6.0000     | 976-000-267 | \$149.06 |
| 0.5000      | 0.5000          | 0.0300      | 3.0000        | 2.6250      | 6.0000     | 976-000-268 | \$163.85 |
| 0.5000      | 0.5000          | 0.0600      | 3.0000        | 2.6250      | 6.0000     | 976-000-269 | \$164.31 |
| 0.6250      | 0.6250          | 0.0300      | 3.0000        | 2.6250      | 6.0000     | 976-000-270 | \$230.82 |
| 0.6250      | 0.6250          | 0.0600      | 3.0000        | 2.6250      | 6.0000     | 976-000-271 | \$231.50 |
| 0.7500      | 0.7500          | 0.0300      | 3.0000        | 2.6250      | 6.0000     | 976-000-272 | \$272.54 |
| 0.7500      | 0.7500          | 0.0600      | 3.0000        | 2.6250      | 6.0000     | 976-000-273 | \$277.76 |
| 1.0000      | 1.0000          | 0.0300      | 3.0000        | 2.6250      | 6.0000     | 976-000-274 | \$456.39 |
| 1.0000      | 1.0000          | 0.0600      | 3.0000        | 2.6250      | 6.0000     | 976-000-275 | \$456.62 |

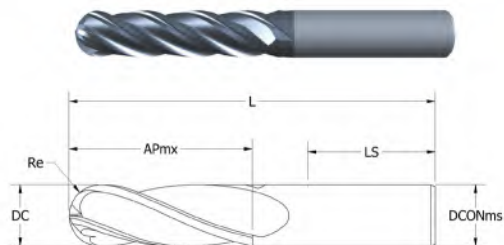
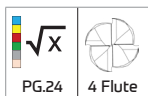
**4-FLUTE, STUB LENGTH,  
BALL END, VARIABLE HELIX**


| DC<br>[in.] | DCONms<br>[in.] | RE<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|-------------|---------------|-------------|------------|-------------|----------|
| 0.1250      | 0.1250          | 0.0625      | 0.2500        | 0.8750      | 1.5000     | 976-000-488 | \$22.81  |
| 0.1875      | 0.1875          | 0.0938      | 0.3750        | 1.2500      | 2.0000     | 976-000-489 | \$31.14  |
| 0.2500      | 0.2500          | 0.1250      | 0.5000        | 1.1250      | 2.0000     | 976-000-490 | \$35.78  |
| 0.3125      | 0.3125          | 0.1563      | 0.5000        | 1.1250      | 2.0000     | 976-000-491 | \$48.85  |
| 0.3750      | 0.3750          | 0.1875      | 0.6250        | 1.0000      | 2.0000     | 976-000-492 | \$54.24  |
| 0.4375      | 0.4375          | 0.2188      | 0.6250        | 1.5000      | 2.5000     | 976-000-493 | \$68.00  |
| 0.5000      | 0.5000          | 0.2500      | 0.7500        | 1.3750      | 2.5000     | 976-000-494 | \$77.51  |
| 0.6250      | 0.6250          | 0.3125      | 0.7500        | 1.8750      | 3.0000     | 976-000-495 | \$149.29 |
| 0.7500      | 0.7500          | 0.3750      | 1.0000        | 1.6250      | 3.0000     | 976-000-496 | \$195.50 |

**4-FLUTE, STANDARD LENGTH,  
BALL END, VARIABLE HELIX**


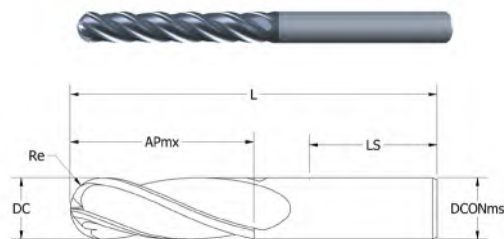
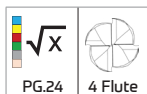
| DC<br>[in.] | DCONms<br>[in.] | RE<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|-------------|---------------|-------------|------------|-------------|----------|
| 0.1250      | 0.1250          | 0.0625      | 0.5000        | 0.6250      | 1.5000     | 976-000-497 | \$28.14  |
| 0.1875      | 0.1875          | 0.0938      | 0.6250        | 1.0000      | 2.0000     | 976-000-498 | \$33.02  |
| 0.2500      | 0.2500          | 0.1250      | 0.7500        | 1.3750      | 2.5000     | 976-000-499 | \$41.17  |
| 0.3125      | 0.3125          | 0.1563      | 0.8125        | 1.3125      | 2.5000     | 976-000-500 | \$51.95  |
| 0.3750      | 0.3750          | 0.1875      | 0.8750        | 1.2500      | 2.5000     | 976-000-501 | \$60.31  |
| 0.3750      | 0.3750          | 0.1875      | 1.0000        | 1.1250      | 2.5000     | 976-000-502 | \$62.61  |
| 0.4375      | 0.4375          | 0.2188      | 1.0000        | 1.3750      | 2.7500     | 976-000-503 | \$80.29  |
| 0.5000      | 0.5000          | 0.2500      | 1.0000        | 1.6250      | 3.0000     | 976-000-504 | \$89.78  |
| 0.5000      | 0.5000          | 0.2500      | 1.2500        | 1.3750      | 3.0000     | 976-000-505 | \$91.96  |
| 0.6250      | 0.6250          | 0.3125      | 1.5000        | 1.6250      | 3.5000     | 976-000-506 | \$160.07 |
| 0.7500      | 0.7500          | 0.3750      | 1.7500        | 1.8750      | 4.0000     | 976-000-507 | \$216.70 |
| 1.0000      | 1.0000          | 0.5000      | 1.7500        | 1.8750      | 4.0000     | 976-000-508 | \$398.14 |

**4-FLUTE, LONG LENGTH,  
BALL END, VARIABLE HELIX**



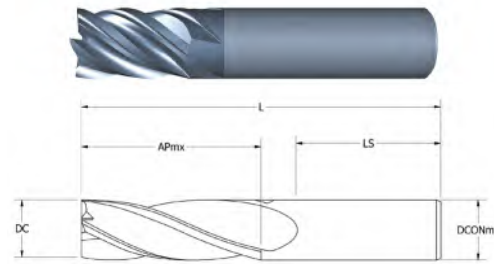
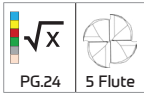
| DC<br>[in.] | DCONms<br>[in.] | RE<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|-------------|---------------|-------------|------------|-------------|----------|
| 0.1250      | 0.1250          | 0.0625      | 0.7500        | 1.3750      | 2.5000     | 976-000-509 | \$34.06  |
| 0.1875      | 0.1875          | 0.0938      | 0.7500        | 1.3750      | 2.5000     | 976-000-510 | \$38.75  |
| 0.2500      | 0.2500          | 0.1250      | 1.1250        | 1.5000      | 3.0000     | 976-000-511 | \$44.26  |
| 0.3125      | 0.3125          | 0.1563      | 1.1250        | 1.5000      | 3.0000     | 976-000-512 | \$59.98  |
| 0.3750      | 0.3750          | 0.1875      | 1.2500        | 1.3750      | 3.0000     | 976-000-513 | \$79.80  |
| 0.4375      | 0.4375          | 0.2188      | 2.0000        | 1.6250      | 4.0000     | 976-000-514 | \$99.87  |
| 0.5000      | 0.5000          | 0.2500      | 2.0000        | 1.6250      | 4.0000     | 976-000-515 | \$122.80 |
| 0.6250      | 0.6250          | 0.3125      | 2.2500        | 2.3750      | 5.0000     | 976-000-516 | \$212.80 |
| 0.7500      | 0.7500          | 0.3750      | 2.2500        | 2.3750      | 5.0000     | 976-000-517 | \$257.98 |
| 1.0000      | 1.0000          | 0.5000      | 2.2500        | 2.3750      | 5.0000     | 976-000-518 | \$424.25 |

**4-FLUTE, X LONG LENGTH,  
BALL END VARIABLE HELIX**



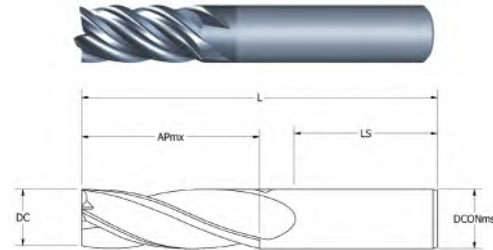
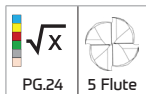
| DC<br>[in.] | DCONms<br>[in.] | RE<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|-------------|---------------|-------------|------------|-------------|----------|
| 0.1250      | 0.1250          | 0.0625      | 1.0000        | 1.6250      | 3.0000     | 976-000-519 | \$43.60  |
| 0.1875      | 0.1875          | 0.0938      | 1.1250        | 1.5000      | 3.0000     | 976-000-520 | \$47.92  |
| 0.2500      | 0.2500          | 0.1250      | 1.5000        | 2.1250      | 4.0000     | 976-000-521 | \$60.66  |
| 0.3125      | 0.3125          | 0.1563      | 1.6250        | 2.0000      | 4.0000     | 976-000-522 | \$75.57  |
| 0.3750      | 0.3750          | 0.1875      | 1.7500        | 1.8750      | 4.0000     | 976-000-523 | \$87.04  |
| 0.4375      | 0.4375          | 0.2188      | 3.0000        | 2.6250      | 6.0000     | 976-000-524 | \$152.04 |
| 0.5000      | 0.5000          | 0.2500      | 3.0000        | 2.6250      | 6.0000     | 976-000-525 | \$187.47 |
| 0.6250      | 0.6250          | 0.3125      | 3.0000        | 2.6250      | 6.0000     | 976-000-526 | \$236.32 |
| 0.7500      | 0.7500          | 0.3750      | 3.0000        | 2.6250      | 6.0000     | 976-000-527 | \$299.23 |
| 1.0000      | 1.0000          | 0.5000      | 3.0000        | 2.6250      | 6.0000     | 976-000-528 | \$476.94 |

**5-FLUTE, STUB LENGTH,  
SQUARE END**



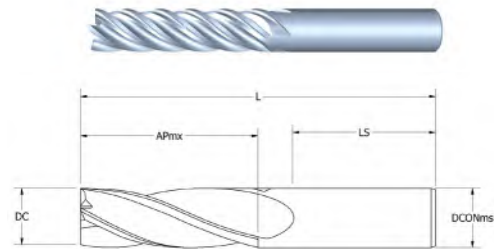
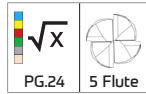
| DC<br>[in.] | DCONms<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|---------------|-------------|------------|-------------|----------|
| 0.1250      | 0.1250          | 0.2500        | 0.8750      | 1.5000     | 976-000-049 | \$20.37  |
| 0.1875      | 0.1875          | 0.3750        | 1.2500      | 2.0000     | 976-000-050 | \$31.14  |
| 0.2500      | 0.2500          | 0.5000        | 1.1250      | 2.0000     | 976-000-051 | \$33.94  |
| 0.3125      | 0.3125          | 0.5000        | 1.1250      | 2.0000     | 976-000-052 | \$45.64  |
| 0.3750      | 0.3750          | 0.6250        | 1.0000      | 2.0000     | 976-000-053 | \$53.55  |
| 0.4375      | 0.4375          | 0.6250        | 1.5000      | 2.5000     | 976-000-054 | \$72.12  |
| 0.5000      | 0.5000          | 0.7500        | 1.3750      | 2.5000     | 976-000-055 | \$79.92  |
| 0.6250      | 0.6250          | 0.7500        | 1.8750      | 3.0000     | 976-000-056 | \$124.06 |
| 0.7500      | 0.7500          | 1.0000        | 1.6250      | 3.0000     | 976-000-057 | \$181.05 |

**5-FLUTE, STANDARD LENGTH,  
SQUARE END**



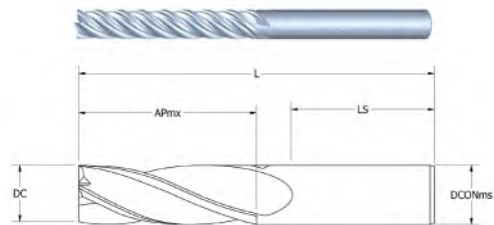
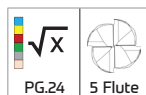
| DC<br>[in.] | DCONms<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|---------------|-------------|------------|-------------|----------|
| 0.1250      | 0.1250          | 0.5000        | 0.6250      | 1.5000     | 976-000-058 | \$21.42  |
| 0.1875      | 0.1875          | 0.6250        | 1.0000      | 2.0000     | 976-000-059 | \$32.46  |
| 0.2500      | 0.2500          | 0.7500        | 1.3750      | 2.5000     | 976-000-060 | \$35.78  |
| 0.2500      | 0.2500          | 1.0000        | 1.1250      | 2.5000     | 976-000-061 | \$36.46  |
| 0.2500      | 0.2500          | 1.2500        | 0.8750      | 2.5000     | 976-000-062 | \$36.69  |
| 0.3125      | 0.3125          | 0.8125        | 1.3125      | 2.5000     | 976-000-063 | \$50.11  |
| 0.3750      | 0.3750          | 0.8750        | 1.2500      | 2.5000     | 976-000-064 | \$60.83  |
| 0.3750      | 0.3750          | 1.0000        | 1.1250      | 2.5000     | 976-000-065 | \$61.00  |
| 0.3750      | 0.3750          | 1.2500        | 0.8750      | 2.5000     | 976-000-066 | \$61.45  |
| 0.4375      | 0.4375          | 1.0000        | 1.3750      | 2.7500     | 976-000-067 | \$75.44  |
| 0.5000      | 0.5000          | 1.0000        | 1.6250      | 3.0000     | 976-000-068 | \$87.15  |
| 0.5000      | 0.5000          | 1.2500        | 1.3750      | 3.0000     | 976-000-069 | \$91.50  |
| 0.5000      | 0.5000          | 1.5000        | 1.1250      | 3.0000     | 976-000-070 | \$94.14  |
| 0.5000      | 0.5000          | 1.5000        | 1.6250      | 3.5000     | 976-000-071 | \$103.89 |
| 0.5000      | 0.5000          | 1.7500        | 1.3750      | 3.5000     | 976-000-072 | \$107.79 |
| 0.6250      | 0.6250          | 1.5000        | 1.6250      | 3.5000     | 976-000-073 | \$135.99 |
| 0.6250      | 0.6250          | 1.7500        | 1.3750      | 3.5000     | 976-000-074 | \$137.02 |
| 0.7500      | 0.7500          | 1.7500        | 1.8750      | 4.0000     | 976-000-075 | \$213.62 |
| 1.0000      | 1.0000          | 1.7500        | 1.8750      | 4.0000     | 976-000-076 | \$346.35 |

**5-FLUTE, LONG LENGTH,  
SQUARE END**



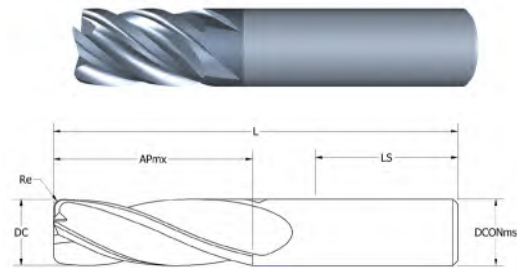
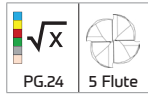
| DC<br>[in.] | DCONms<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|---------------|-------------|------------|-------------|----------|
| 0.1250      | 0.1250          | 0.7500        | 1.3750      | 2.5000     | 976-000-077 | \$30.80  |
| 0.1875      | 0.1875          | 0.7500        | 1.3750      | 2.5000     | 976-000-078 | \$35.83  |
| 0.2500      | 0.2500          | 1.1250        | 1.5000      | 3.0000     | 976-000-079 | \$41.17  |
| 0.3125      | 0.3125          | 1.1250        | 1.5000      | 3.0000     | 976-000-080 | \$56.87  |
| 0.3750      | 0.3750          | 1.2500        | 1.3750      | 3.0000     | 976-000-081 | \$79.01  |
| 0.4375      | 0.4375          | 2.0000        | 1.6250      | 4.0000     | 976-000-082 | \$98.14  |
| 0.5000      | 0.5000          | 2.0000        | 1.6250      | 4.0000     | 976-000-083 | \$126.02 |
| 0.6250      | 0.6250          | 2.2500        | 2.3750      | 5.0000     | 976-000-084 | \$212.80 |
| 0.7500      | 0.7500          | 2.2500        | 2.3750      | 5.0000     | 976-000-085 | \$253.40 |
| 1.0000      | 1.0000          | 2.2500        | 2.3750      | 5.0000     | 976-000-086 | \$398.59 |

**5-FLUTE, X LONG LENGTH,  
SQUARE END**



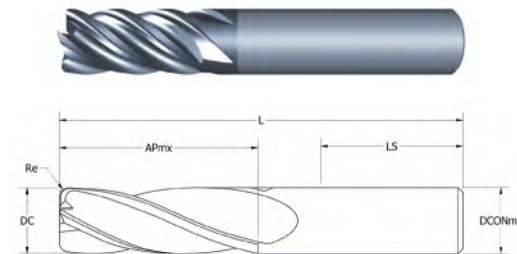
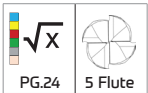
| DC<br>[in.] | DCONms<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|---------------|-------------|------------|-------------|----------|
| 0.1250      | 0.1250          | 1.0000        | 1.6250      | 3.0000     | 976-000-087 | \$42.48  |
| 0.1875      | 0.1875          | 1.1250        | 1.5000      | 3.0000     | 976-000-088 | \$46.09  |
| 0.2500      | 0.2500          | 1.5000        | 2.1250      | 4.0000     | 976-000-089 | \$53.09  |
| 0.3125      | 0.3125          | 1.6250        | 2.0000      | 4.0000     | 976-000-090 | \$73.51  |
| 0.3750      | 0.3750          | 2.0000        | 1.6250      | 4.0000     | 976-000-091 | \$93.56  |
| 0.4375      | 0.4375          | 3.0000        | 2.6250      | 6.0000     | 976-000-092 | \$155.02 |
| 0.5000      | 0.5000          | 3.0000        | 2.6250      | 6.0000     | 976-000-093 | \$169.59 |
| 0.6250      | 0.6250          | 3.0000        | 2.6250      | 6.0000     | 976-000-094 | \$236.32 |
| 0.7500      | 0.7500          | 3.0000        | 2.6250      | 6.0000     | 976-000-095 | \$283.90 |
| 1.0000      | 1.0000          | 3.0000        | 2.6250      | 6.0000     | 976-000-096 | \$459.91 |

**5-FLUTE, STUB LENGTH,  
CORNER RADIUS**



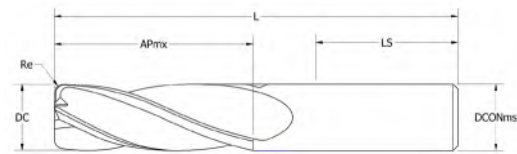
| DC<br>[in.] | DCONms<br>[in.] | RE<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|-------------|---------------|-------------|------------|-------------|----------|
| 0.1250      | 0.1250          | 0.0100      | 0.2500        | 0.8750      | 1.5000     | 976-000-276 | \$22.05  |
| 0.1875      | 0.1875          | 0.0100      | 0.3750        | 1.2500      | 2.0000     | 976-000-277 | \$32.33  |
| 0.2500      | 0.2500          | 0.0200      | 0.5000        | 1.1250      | 2.0000     | 976-000-278 | \$37.27  |
| 0.3125      | 0.3125          | 0.0200      | 0.5000        | 1.1250      | 2.0000     | 976-000-279 | \$47.13  |
| 0.3750      | 0.3750          | 0.0200      | 0.6250        | 1.0000      | 2.0000     | 976-000-280 | \$56.18  |
| 0.4375      | 0.4375          | 0.0300      | 0.6250        | 1.5000      | 2.5000     | 976-000-281 | \$76.60  |
| 0.5000      | 0.5000          | 0.0300      | 0.7500        | 1.3750      | 2.5000     | 976-000-282 | \$85.77  |
| 0.6250      | 0.6250          | 0.0400      | 0.7500        | 1.8750      | 3.0000     | 976-000-283 | \$132.20 |
| 0.7500      | 0.7500          | 0.0400      | 1.0000        | 1.6250      | 3.0000     | 976-000-284 | \$186.33 |

**5-FLUTE, STANDARD LENGTH,  
CORNER RADIUS**



| DC<br>[in.] | DCONms<br>[in.] | RE<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price   |
|-------------|-----------------|-------------|---------------|-------------|------------|-------------|---------|
| 0.1250      | 0.1250          | 0.0100      | 0.5000        | 0.6250      | 1.5000     | 976-000-285 | \$22.92 |
| 0.1250      | 0.1250          | 0.0150      | 0.5000        | 0.6250      | 1.5000     | 976-000-286 | \$23.28 |
| 0.1250      | 0.1250          | 0.0200      | 0.5000        | 0.6250      | 1.5000     | 976-000-287 | \$23.85 |
| 0.1875      | 0.1875          | 0.0100      | 0.6250        | 1.0000      | 2.0000     | 976-000-288 | \$33.31 |
| 0.1875      | 0.1875          | 0.0150      | 0.6250        | 1.0000      | 2.0000     | 976-000-289 | \$34.57 |
| 0.1875      | 0.1875          | 0.0200      | 0.6250        | 1.0000      | 2.0000     | 976-000-290 | \$34.98 |
| 0.1875      | 0.1875          | 0.0300      | 0.6250        | 1.0000      | 2.0000     | 976-000-291 | \$35.43 |
| 0.2500      | 0.2500          | 0.0100      | 0.7500        | 1.3750      | 2.5000     | 976-000-292 | \$35.78 |
| 0.2500      | 0.2500          | 0.0150      | 0.7500        | 1.3750      | 2.5000     | 976-000-293 | \$36.46 |
| 0.2500      | 0.2500          | 0.0200      | 0.7500        | 1.3750      | 2.5000     | 976-000-294 | \$38.06 |
| 0.2500      | 0.2500          | 0.0300      | 0.7500        | 1.3750      | 2.5000     | 976-000-295 | \$38.52 |
| 0.2500      | 0.2500          | 0.0600      | 0.7500        | 1.3750      | 2.5000     | 976-000-296 | \$38.88 |
| 0.2500      | 0.2500          | 0.0100      | 1.0000        | 1.1250      | 2.5000     | 976-000-297 | \$39.22 |
| 0.2500      | 0.2500          | 0.0150      | 1.0000        | 1.1250      | 2.5000     | 976-000-298 | \$39.68 |
| 0.2500      | 0.2500          | 0.0200      | 1.0000        | 1.1250      | 2.5000     | 976-000-299 | \$40.02 |
| 0.2500      | 0.2500          | 0.0300      | 1.0000        | 1.1250      | 2.5000     | 976-000-300 | \$40.36 |
| 0.2500      | 0.2500          | 0.0600      | 1.0000        | 1.1250      | 2.5000     | 976-000-301 | \$40.82 |
| 0.2500      | 0.2500          | 0.0100      | 1.2500        | 0.8750      | 2.5000     | 976-000-302 | \$41.17 |
| 0.2500      | 0.2500          | 0.0150      | 1.2500        | 0.8750      | 2.5000     | 976-000-303 | \$41.51 |
| 0.2500      | 0.2500          | 0.0200      | 1.2500        | 0.8750      | 2.5000     | 976-000-304 | \$41.96 |
| 0.2500      | 0.2500          | 0.0300      | 1.2500        | 0.8750      | 2.5000     | 976-000-305 | \$42.32 |
| 0.2500      | 0.2500          | 0.0600      | 1.2500        | 0.8750      | 2.5000     | 976-000-306 | \$42.65 |

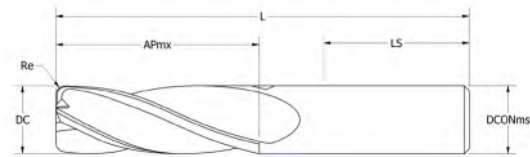
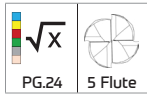
**5-FLUTE, STANDARD LENGTH,  
CORNER RADIUS**



| DC<br>[in.] | DCONms<br>[in.] | RE<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price   |
|-------------|-----------------|-------------|---------------|-------------|------------|-------------|---------|
| 0.3125      | 0.3125          | 0.0100      | 0.8125        | 1.3125      | 2.5000     | 976-000-307 | \$52.76 |
| 0.3125      | 0.3125          | 0.0150      | 0.8125        | 1.3125      | 2.5000     | 976-000-308 | \$53.21 |
| 0.3125      | 0.3125          | 0.0200      | 0.8125        | 1.3125      | 2.5000     | 976-000-309 | \$53.44 |
| 0.3125      | 0.3125          | 0.0300      | 0.8125        | 1.3125      | 2.5000     | 976-000-310 | \$53.78 |
| 0.3125      | 0.3125          | 0.0600      | 0.8125        | 1.3125      | 2.5000     | 976-000-311 | \$54.12 |
| 0.3750      | 0.3750          | 0.0100      | 0.8750        | 1.2500      | 2.5000     | 976-000-312 | \$64.21 |
| 0.3750      | 0.3750          | 0.0150      | 0.8750        | 1.2500      | 2.5000     | 976-000-313 | \$64.67 |
| 0.3750      | 0.3750          | 0.0200      | 0.8750        | 1.2500      | 2.5000     | 976-000-314 | \$65.12 |
| 0.3750      | 0.3750          | 0.0300      | 0.8750        | 1.2500      | 2.5000     | 976-000-315 | \$65.48 |
| 0.3750      | 0.3750          | 0.0600      | 0.8750        | 1.2500      | 2.5000     | 976-000-316 | \$65.81 |
| 0.3750      | 0.3750          | 0.0100      | 1.0000        | 1.1250      | 2.5000     | 976-000-317 | \$66.27 |
| 0.3750      | 0.3750          | 0.0150      | 1.0000        | 1.1250      | 2.5000     | 976-000-318 | \$66.62 |
| 0.3750      | 0.3750          | 0.0200      | 1.0000        | 1.1250      | 2.5000     | 976-000-319 | \$66.97 |
| 0.3750      | 0.3750          | 0.0300      | 1.0000        | 1.1250      | 2.5000     | 976-000-320 | \$67.19 |
| 0.3750      | 0.3750          | 0.0600      | 1.0000        | 1.1250      | 2.5000     | 976-000-321 | \$67.54 |
| 0.3750      | 0.3750          | 0.0100      | 1.2500        | 0.8750      | 2.5000     | 976-000-322 | \$67.88 |
| 0.3750      | 0.3750          | 0.0150      | 1.2500        | 0.8750      | 2.5000     | 976-000-323 | \$68.11 |
| 0.3750      | 0.3750          | 0.0200      | 1.2500        | 0.8750      | 2.5000     | 976-000-324 | \$68.34 |
| 0.3750      | 0.3750          | 0.0300      | 1.2500        | 0.8750      | 2.5000     | 976-000-325 | \$68.69 |
| 0.3750      | 0.3750          | 0.0600      | 1.2500        | 0.8750      | 2.5000     | 976-000-326 | \$69.02 |
| 0.4375      | 0.4375          | 0.0150      | 1.0000        | 1.3750      | 2.7500     | 976-000-327 | \$79.01 |
| 0.4375      | 0.4375          | 0.0200      | 1.0000        | 1.3750      | 2.7500     | 976-000-328 | \$79.34 |
| 0.4375      | 0.4375          | 0.0300      | 1.0000        | 1.3750      | 2.7500     | 976-000-329 | \$79.57 |
| 0.4375      | 0.4375          | 0.0600      | 1.0000        | 1.3750      | 2.7500     | 976-000-330 | \$79.80 |
| 0.5000      | 0.5000          | 0.0100      | 1.0000        | 1.6250      | 3.0000     | 976-000-331 | \$91.50 |
| 0.5000      | 0.5000          | 0.0150      | 1.0000        | 1.6250      | 3.0000     | 976-000-332 | \$91.85 |
| 0.5000      | 0.5000          | 0.0300      | 1.0000        | 1.6250      | 3.0000     | 976-000-333 | \$92.19 |
| 0.5000      | 0.5000          | 0.0600      | 1.0000        | 1.6250      | 3.0000     | 976-000-334 | \$92.41 |
| 0.5000      | 0.5000          | 0.0900      | 1.0000        | 1.6250      | 3.0000     | 976-000-335 | \$92.77 |
| 0.5000      | 0.5000          | 0.1200      | 1.0000        | 1.6250      | 3.0000     | 976-000-336 | \$93.23 |
| 0.5000      | 0.5000          | 0.0100      | 1.2500        | 1.3750      | 3.0000     | 976-000-337 | \$94.37 |
| 0.5000      | 0.5000          | 0.0150      | 1.2500        | 1.3750      | 3.0000     | 976-000-338 | \$94.71 |
| 0.5000      | 0.5000          | 0.0300      | 1.2500        | 1.3750      | 3.0000     | 976-000-339 | \$95.06 |
| 0.5000      | 0.5000          | 0.0600      | 1.2500        | 1.3750      | 3.0000     | 976-000-340 | \$95.40 |
| 0.5000      | 0.5000          | 0.0900      | 1.2500        | 1.3750      | 3.0000     | 976-000-341 | \$95.63 |
| 0.5000      | 0.5000          | 0.1200      | 1.2500        | 1.3750      | 3.0000     | 976-000-342 | \$95.86 |
| 0.5000      | 0.5000          | 0.0100      | 1.5000        | 1.1250      | 3.0000     | 976-000-343 | \$97.35 |
| 0.5000      | 0.5000          | 0.0150      | 1.5000        | 1.1250      | 3.0000     | 976-000-344 | \$97.69 |
| 0.5000      | 0.5000          | 0.0300      | 1.5000        | 1.1250      | 3.0000     | 976-000-345 | \$97.92 |
| 0.5000      | 0.5000          | 0.0600      | 1.5000        | 1.1250      | 3.0000     | 976-000-346 | \$98.14 |
| 0.5000      | 0.5000          | 0.0900      | 1.5000        | 1.1250      | 3.0000     | 976-000-347 | \$98.50 |
| 0.5000      | 0.5000          | 0.1200      | 1.5000        | 1.1250      | 3.0000     | 976-000-348 | \$98.84 |

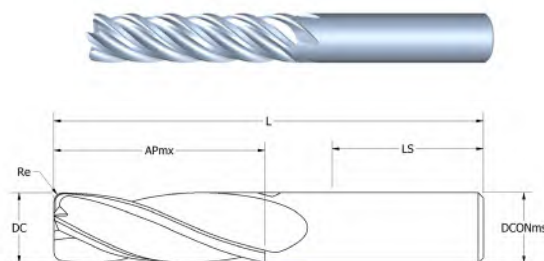
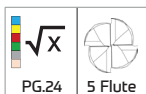


**5-FLUTE, STANDARD LENGTH,  
CORNER RADIUS**



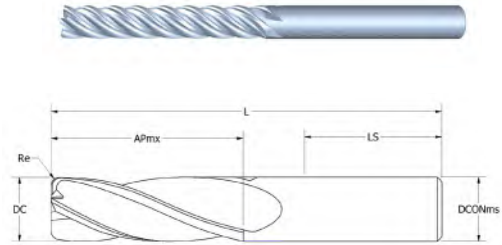
| DC<br>[in.] | DCONms<br>[in.] | RE<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|-------------|---------------|-------------|------------|-------------|----------|
| 0.5000      | 0.5000          | 0.0100      | 1.5000        | 1.6250      | 3.5000     | 976-000-349 | \$107.79 |
| 0.5000      | 0.5000          | 0.0150      | 1.5000        | 1.6250      | 3.5000     | 976-000-350 | \$108.01 |
| 0.5000      | 0.5000          | 0.0300      | 1.5000        | 1.6250      | 3.5000     | 976-000-351 | \$108.24 |
| 0.5000      | 0.5000          | 0.0600      | 1.5000        | 1.6250      | 3.5000     | 976-000-352 | \$108.47 |
| 0.5000      | 0.5000          | 0.0900      | 1.5000        | 1.6250      | 3.5000     | 976-000-353 | \$108.70 |
| 0.5000      | 0.5000          | 0.1200      | 1.5000        | 1.6250      | 3.5000     | 976-000-354 | \$109.16 |
| 0.5000      | 0.5000          | 0.0100      | 1.7500        | 1.3750      | 3.5000     | 976-000-355 | \$111.57 |
| 0.5000      | 0.5000          | 0.0150      | 1.7500        | 1.3750      | 3.5000     | 976-000-356 | \$111.90 |
| 0.5000      | 0.5000          | 0.0300      | 1.7500        | 1.3750      | 3.5000     | 976-000-357 | \$112.13 |
| 0.5000      | 0.5000          | 0.0600      | 1.7500        | 1.3750      | 3.5000     | 976-000-358 | \$112.49 |
| 0.5000      | 0.5000          | 0.0900      | 1.7500        | 1.3750      | 3.5000     | 976-000-359 | \$112.83 |
| 0.5000      | 0.5000          | 0.1200      | 1.7500        | 1.3750      | 3.5000     | 976-000-360 | \$113.06 |
| 0.6250      | 0.6250          | 0.0300      | 1.5000        | 1.6250      | 3.5000     | 976-000-361 | \$140.23 |
| 0.6250      | 0.6250          | 0.0400      | 1.5000        | 1.6250      | 3.5000     | 976-000-362 | \$141.72 |
| 0.6250      | 0.6250          | 0.0600      | 1.5000        | 1.6250      | 3.5000     | 976-000-363 | \$142.07 |
| 0.6250      | 0.6250          | 0.0900      | 1.5000        | 1.6250      | 3.5000     | 976-000-364 | \$142.41 |
| 0.6250      | 0.6250          | 0.1200      | 1.5000        | 1.6250      | 3.5000     | 976-000-365 | \$142.64 |
| 0.6250      | 0.6250          | 0.0300      | 1.7500        | 1.8750      | 4.0000     | 976-000-366 | \$142.86 |
| 0.6250      | 0.6250          | 0.0400      | 1.7500        | 1.8750      | 4.0000     | 976-000-367 | \$143.22 |
| 0.6250      | 0.6250          | 0.0600      | 1.7500        | 1.8750      | 4.0000     | 976-000-368 | \$143.68 |
| 0.6250      | 0.6250          | 0.0900      | 1.7500        | 1.8750      | 4.0000     | 976-000-369 | \$144.01 |
| 0.6250      | 0.6250          | 0.1200      | 1.7500        | 1.8750      | 4.0000     | 976-000-370 | \$144.36 |
| 0.7500      | 0.7500          | 0.0300      | 1.7500        | 1.8750      | 4.0000     | 976-000-371 | \$218.43 |
| 0.7500      | 0.7500          | 0.0400      | 1.7500        | 1.8750      | 4.0000     | 976-000-372 | \$219.00 |
| 0.7500      | 0.7500          | 0.0600      | 1.7500        | 1.8750      | 4.0000     | 976-000-373 | \$219.23 |
| 0.7500      | 0.7500          | 0.0900      | 1.7500        | 1.8750      | 4.0000     | 976-000-374 | \$219.46 |
| 0.7500      | 0.7500          | 0.1200      | 1.7500        | 1.8750      | 4.0000     | 976-000-375 | \$219.69 |
| 1.0000      | 1.0000          | 0.0300      | 1.7500        | 1.8750      | 4.0000     | 976-000-376 | \$364.06 |
| 1.0000      | 1.0000          | 0.0400      | 1.7500        | 1.8750      | 4.0000     | 976-000-377 | \$364.41 |
| 1.0000      | 1.0000          | 0.0600      | 1.7500        | 1.8750      | 4.0000     | 976-000-378 | \$364.74 |
| 1.0000      | 1.0000          | 0.0900      | 1.7500        | 1.8750      | 4.0000     | 976-000-379 | \$364.97 |
| 1.0000      | 1.0000          | 0.1200      | 1.7500        | 1.8750      | 4.0000     | 976-000-380 | \$365.20 |

5-FLUTE, LONG LENGTH,  
CORNER RADIUS



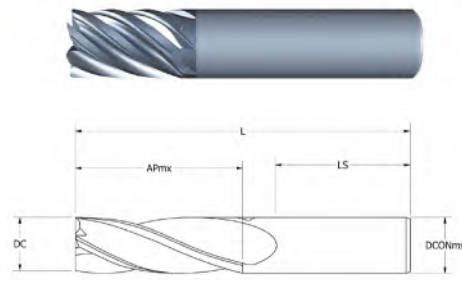
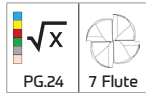
| DC<br>[in.] | DCONms<br>[in.] | RE<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|-------------|---------------|-------------|------------|-------------|----------|
| 0.1250      | 0.1250          | 0.0150      | 0.7500        | 1.3750      | 2.5000     | 976-000-381 | \$34.06  |
| 0.1250      | 0.1250          | 0.0300      | 0.7500        | 1.3750      | 2.5000     | 976-000-382 | \$34.40  |
| 0.1875      | 0.1875          | 0.0150      | 0.7500        | 1.3750      | 2.5000     | 976-000-383 | \$39.68  |
| 0.1875      | 0.1875          | 0.0300      | 0.7500        | 1.3750      | 2.5000     | 976-000-384 | \$39.90  |
| 0.2500      | 0.2500          | 0.0150      | 1.1250        | 1.5000      | 3.0000     | 976-000-385 | \$44.77  |
| 0.2500      | 0.2500          | 0.0300      | 1.1250        | 1.5000      | 3.0000     | 976-000-386 | \$45.18  |
| 0.3125      | 0.3125          | 0.0150      | 1.1250        | 1.5000      | 3.0000     | 976-000-387 | \$61.81  |
| 0.3125      | 0.3125          | 0.0300      | 1.1250        | 1.5000      | 3.0000     | 976-000-388 | \$61.97  |
| 0.3750      | 0.3750          | 0.0300      | 1.2500        | 1.3750      | 3.0000     | 976-000-389 | \$85.88  |
| 0.3750      | 0.3750          | 0.0600      | 1.2500        | 1.3750      | 3.0000     | 976-000-390 | \$86.23  |
| 0.4375      | 0.4375          | 0.0300      | 2.0000        | 1.6250      | 4.0000     | 976-000-391 | \$107.67 |
| 0.4375      | 0.4375          | 0.0600      | 2.0000        | 1.6250      | 4.0000     | 976-000-392 | \$108.01 |
| 0.5000      | 0.5000          | 0.0300      | 2.0000        | 1.6250      | 4.0000     | 976-000-393 | \$136.33 |
| 0.5000      | 0.5000          | 0.0600      | 2.0000        | 1.6250      | 4.0000     | 976-000-394 | \$136.68 |
| 0.6250      | 0.6250          | 0.0300      | 2.2500        | 2.3750      | 5.0000     | 976-000-395 | \$224.28 |
| 0.6250      | 0.6250          | 0.0600      | 2.2500        | 2.3750      | 5.0000     | 976-000-396 | \$227.38 |
| 0.7500      | 0.7500          | 0.0300      | 2.2500        | 2.3750      | 5.0000     | 976-000-397 | \$268.22 |
| 0.7500      | 0.7500          | 0.0600      | 2.2500        | 2.3750      | 5.0000     | 976-000-398 | \$268.45 |
| 1.0000      | 1.0000          | 0.0300      | 2.2500        | 2.3750      | 5.0000     | 976-000-399 | \$425.73 |
| 1.0000      | 1.0000          | 0.0600      | 2.2500        | 2.3750      | 5.0000     | 976-000-400 | \$426.07 |

**5-FLUTE, X LONG LENGTH,  
CORNER RADIUS**



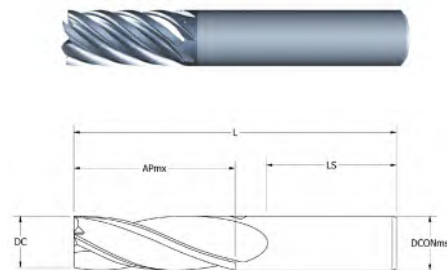
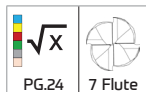
| DC<br>[in.] | DCONms<br>[in.] | RE<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|-------------|---------------|-------------|------------|-------------|----------|
| 0.1250      | 0.1250          | 0.0150      | 1.0000        | 1.3750      | 3.0000     | 976-000-401 | \$45.88  |
| 0.1250      | 0.1250          | 0.0300      | 1.0000        | 1.3750      | 3.0000     | 976-000-403 | \$46.32  |
| 0.1875      | 0.1875          | 0.0150      | 1.1250        | 1.3750      | 3.0000     | 976-000-404 | \$49.19  |
| 0.1875      | 0.1875          | 0.0300      | 1.1250        | 1.3750      | 3.0000     | 976-000-405 | \$49.42  |
| 0.2500      | 0.2500          | 0.0150      | 1.5000        | 1.5000      | 4.0000     | 976-000-406 | \$57.10  |
| 0.2500      | 0.2500          | 0.0300      | 1.5000        | 1.5000      | 4.0000     | 976-000-407 | \$57.45  |
| 0.3125      | 0.3125          | 0.0300      | 1.6250        | 1.5000      | 4.0000     | 976-000-408 | \$77.97  |
| 0.3125      | 0.3125          | 0.0600      | 1.6250        | 1.5000      | 4.0000     | 976-000-410 | \$78.20  |
| 0.3750      | 0.3750          | 0.0300      | 2.0000        | 1.3750      | 6.0000     | 976-000-411 | \$102.40 |
| 0.3750      | 0.3750          | 0.0600      | 2.0000        | 1.3750      | 6.0000     | 976-000-412 | \$102.73 |
| 0.4375      | 0.4375          | 0.0300      | 3.0000        | 1.6250      | 6.0000     | 976-000-413 | \$161.21 |
| 0.4375      | 0.4375          | 0.0600      | 3.0000        | 1.6250      | 6.0000     | 976-000-415 | \$161.56 |
| 0.5000      | 0.5000          | 0.0300      | 3.0000        | 1.6250      | 6.0000     | 976-000-416 | \$177.27 |
| 0.5000      | 0.5000          | 0.0600      | 3.0000        | 1.6250      | 6.0000     | 976-000-417 | \$177.61 |
| 0.6250      | 0.6250          | 0.0300      | 3.0000        | 2.3750      | 6.0000     | 976-000-418 | \$252.71 |
| 0.6250      | 0.6250          | 0.0600      | 3.0000        | 2.3750      | 6.0000     | 976-000-419 | \$252.94 |
| 0.7500      | 0.7500          | 0.0300      | 3.0000        | 2.3750      | 6.0000     | 976-000-420 | \$302.41 |
| 0.7500      | 0.7500          | 0.0600      | 3.0000        | 2.3750      | 6.0000     | 976-000-421 | \$416.31 |
| 1.0000      | 1.0000          | 0.0300      | 3.0000        | 2.3750      | 6.0000     | 976-000-422 | \$491.47 |
| 1.0000      | 1.0000          | 0.0600      | 3.0000        | 2.3750      | 6.0000     | 976-000-423 | \$491.70 |

## 7-FLUTE, STUB LENGTH, SQUARE END



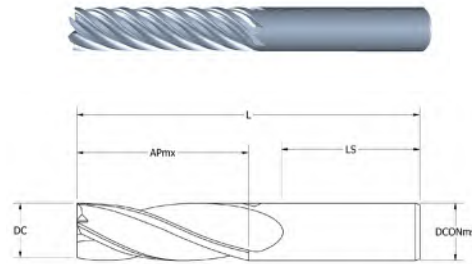
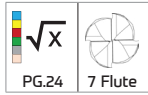
| DC<br>[in.] | DCONms<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|---------------|-------------|------------|-------------|----------|
| 0.1875      | 0.1875          | 0.3750        | 2.1250      | 2.0000     | 976-000-097 | \$39.68  |
| 0.2500      | 0.2500          | 0.5000        | 1.1250      | 2.0000     | 976-000-098 | \$42.32  |
| 0.3125      | 0.3125          | 0.5000        | 1.1250      | 2.0000     | 976-000-099 | \$56.53  |
| 0.3750      | 0.3750          | 0.6250        | 1.0000      | 2.0000     | 976-000-100 | \$64.44  |
| 0.4375      | 0.4375          | 0.6250        | 1.5000      | 2.5000     | 976-000-101 | \$84.05  |
| 0.5000      | 0.5000          | 0.7500        | 1.3750      | 2.5000     | 976-000-102 | \$94.71  |
| 0.6250      | 0.6250          | 0.7500        | 1.8750      | 3.0000     | 976-000-103 | \$145.62 |
| 0.7500      | 0.7500          | 1.0000        | 1.6250      | 3.0000     | 976-000-104 | \$197.57 |

## 7-FLUTE, STANDARD LENGTH, SQUARE END



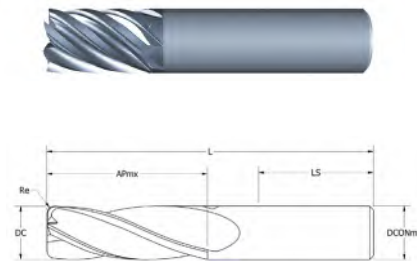
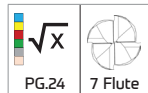
| DC<br>[in.] | DCONms<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|---------------|-------------|------------|-------------|----------|
| 0.1875      | 0.1875          | 0.6250        | 1.0000      | 2.0000     | 976-000-105 | \$40.48  |
| 0.2500      | 0.2500          | 0.7500        | 1.3750      | 2.5000     | 976-000-106 | \$45.29  |
| 0.2500      | 0.2500          | 1.0000        | 1.1250      | 2.5000     | 976-000-107 | \$48.05  |
| 0.3125      | 0.3125          | 0.8125        | 1.3125      | 2.5000     | 976-000-108 | \$61.94  |
| 0.3750      | 0.3750          | 0.8750        | 1.2500      | 2.5000     | 976-000-109 | \$72.58  |
| 0.3750      | 0.3750          | 1.0000        | 1.1250      | 2.5000     | 976-000-110 | \$74.76  |
| 0.4375      | 0.4375          | 1.0000        | 1.3750      | 2.7500     | 976-000-111 | \$88.97  |
| 0.5000      | 0.5000          | 1.0000        | 1.6250      | 3.0000     | 976-000-112 | \$103.89 |
| 0.5000      | 0.5000          | 1.2500        | 1.3750      | 3.0000     | 976-000-113 | \$107.21 |
| 0.5000      | 0.5000          | 1.5000        | 1.6250      | 3.5000     | 976-000-114 | \$124.52 |
| 0.5000      | 0.5000          | 1.7500        | 1.3750      | 3.5000     | 976-000-115 | \$128.77 |
| 0.6250      | 0.6250          | 1.5000        | 1.6250      | 3.5000     | 976-000-116 | \$156.75 |
| 0.7500      | 0.7500          | 1.7500        | 1.8750      | 4.0000     | 976-000-117 | \$237.81 |
| 1.0000      | 1.0000          | 1.7500        | 1.8750      | 4.0000     | 976-000-118 | \$370.54 |

**7-FLUTE, LONG LENGTH,  
SQUARE END**



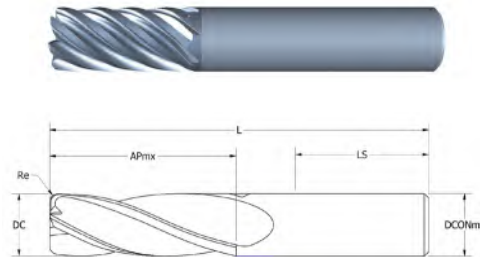
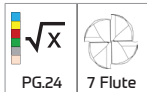
| DC<br>[in.] | DCONms<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|---------------|-------------|------------|-------------|----------|
| 0.1875      | 0.1875          | 0.7500        | 1.3750      | 2.5000     | 976-000-119 | \$51.82  |
| 0.2500      | 0.2500          | 1.1250        | 1.5000      | 3.0000     | 976-000-120 | \$59.05  |
| 0.3125      | 0.3125          | 1.1250        | 1.5000      | 3.0000     | 976-000-121 | \$78.20  |
| 0.3750      | 0.3750          | 1.2500        | 1.3750      | 3.0000     | 976-000-122 | \$91.73  |
| 0.4375      | 0.4375          | 2.0000        | 1.6250      | 4.0000     | 976-000-123 | \$117.30 |
| 0.5000      | 0.5000          | 2.0000        | 1.6250      | 4.0000     | 976-000-124 | \$143.22 |
| 0.6250      | 0.6250          | 2.2500        | 2.3750      | 5.0000     | 976-000-125 | \$240.84 |
| 0.7500      | 0.7500          | 2.2500        | 2.3750      | 5.0000     | 976-000-126 | \$274.02 |
| 1.0000      | 1.0000          | 2.2500        | 2.3750      | 5.0000     | 976-000-127 | \$421.64 |

**7-FLUTE, STUB LENGTH,  
CORNER RADIUS**



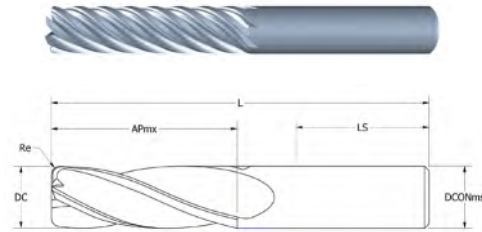
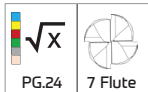
| DC<br>[in.] | DCONms<br>[in.] | RE<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|-------------|---------------|-------------|------------|-------------|----------|
| 0.1875      | 0.1875          | 0.0100      | 0.3750        | 1.2500      | 2.0000     | 976-000-424 | \$43.69  |
| 0.2500      | 0.2500          | 0.0200      | 0.5000        | 1.1250      | 2.0000     | 976-000-425 | \$47.59  |
| 0.3125      | 0.3125          | 0.0200      | 0.5000        | 1.1250      | 2.0000     | 976-000-426 | \$61.92  |
| 0.3750      | 0.3750          | 0.0200      | 0.6250        | 1.0000      | 2.0000     | 976-000-427 | \$75.57  |
| 0.4375      | 0.4375          | 0.0300      | 0.6250        | 1.5000      | 2.5000     | 976-000-428 | \$96.34  |
| 0.5000      | 0.5000          | 0.0300      | 0.7500        | 1.3750      | 2.5000     | 976-000-429 | \$107.32 |
| 0.6250      | 0.6250          | 0.0400      | 0.7500        | 1.8750      | 3.0000     | 976-000-430 | \$162.71 |
| 0.7500      | 0.7500          | 0.0400      | 1.0000        | 1.6250      | 3.0000     | 976-000-431 | \$219.02 |

7-FLUTE, STANDARD LENGTH,  
CORNER RADIUS



| DC<br>[in.] | DCONms<br>[in.] | RE<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|-------------|---------------|-------------|------------|-------------|----------|
| 0.1875      | 0.1875          | 0.0150      | 0.6250        | 1.0000      | 2.0000     | 976-000-432 | \$44.74  |
| 0.1875      | 0.1875          | 0.0300      | 0.6250        | 1.0000      | 2.0000     | 976-000-433 | \$44.95  |
| 0.2500      | 0.2500          | 0.0150      | 0.7500        | 1.3750      | 2.5000     | 976-000-434 | \$50.68  |
| 0.2500      | 0.2500          | 0.0300      | 0.7500        | 1.3750      | 2.5000     | 976-000-435 | \$50.35  |
| 0.2500      | 0.2500          | 0.0150      | 1.0000        | 1.1250      | 2.5000     | 976-000-436 | \$53.78  |
| 0.2500      | 0.2500          | 0.0300      | 1.0000        | 1.1250      | 2.5000     | 976-000-437 | \$54.01  |
| 0.3125      | 0.3125          | 0.0150      | 0.8125        | 1.3125      | 2.5000     | 976-000-438 | \$67.19  |
| 0.3125      | 0.3125          | 0.0300      | 0.8125        | 1.3125      | 2.5000     | 976-000-439 | \$67.54  |
| 0.3750      | 0.3750          | 0.0150      | 0.8750        | 1.2500      | 2.5000     | 976-000-440 | \$83.77  |
| 0.3750      | 0.3750          | 0.0300      | 0.8750        | 1.2500      | 2.5000     | 976-000-441 | \$84.39  |
| 0.3750      | 0.3750          | 0.0600      | 0.8750        | 1.2500      | 2.5000     | 976-000-442 | \$84.74  |
| 0.3750      | 0.3750          | 0.0150      | 1.0000        | 1.1250      | 2.5000     | 976-000-443 | \$86.68  |
| 0.3750      | 0.3750          | 0.0300      | 1.0000        | 1.1250      | 2.5000     | 976-000-444 | \$86.91  |
| 0.3750      | 0.3750          | 0.0600      | 1.0000        | 1.1250      | 2.5000     | 976-000-445 | \$87.19  |
| 0.4375      | 0.4375          | 0.0150      | 1.0000        | 1.3750      | 2.7500     | 976-000-446 | \$99.87  |
| 0.4375      | 0.4375          | 0.0300      | 1.0000        | 1.3750      | 2.7500     | 976-000-447 | \$100.21 |
| 0.4375      | 0.4375          | 0.0600      | 1.0000        | 1.3750      | 2.7500     | 976-000-448 | \$100.44 |
| 0.5000      | 0.5000          | 0.0150      | 1.0000        | 1.6250      | 3.0000     | 976-000-449 | \$116.84 |
| 0.5000      | 0.5000          | 0.0300      | 1.0000        | 1.6250      | 3.0000     | 976-000-450 | \$117.30 |
| 0.5000      | 0.5000          | 0.0600      | 1.0000        | 1.6250      | 3.0000     | 976-000-451 | \$117.64 |
| 0.5000      | 0.5000          | 0.0150      | 1.2500        | 1.3750      | 3.0000     | 976-000-452 | \$119.93 |
| 0.5000      | 0.5000          | 0.0300      | 1.2500        | 1.3750      | 3.0000     | 976-000-453 | \$120.29 |
| 0.5000      | 0.5000          | 0.0600      | 1.2500        | 1.3750      | 3.0000     | 976-000-454 | \$120.62 |
| 0.5000      | 0.5000          | 0.0150      | 1.5000        | 1.1250      | 3.0000     | 976-000-455 | \$137.59 |
| 0.5000      | 0.5000          | 0.0300      | 1.5000        | 1.1250      | 3.0000     | 976-000-456 | \$138.96 |
| 0.5000      | 0.5000          | 0.0600      | 1.5000        | 1.1250      | 3.0000     | 976-000-457 | \$139.19 |
| 0.5000      | 0.5000          | 0.0150      | 1.7500        | 1.3750      | 3.5000     | 976-000-458 | \$139.42 |
| 0.5000      | 0.5000          | 0.0300      | 1.7500        | 1.3750      | 3.5000     | 976-000-459 | \$139.80 |
| 0.5000      | 0.5000          | 0.0600      | 1.7500        | 1.3750      | 3.5000     | 976-000-460 | \$139.89 |
| 0.6250      | 0.6250          | 0.0300      | 1.5000        | 1.6250      | 3.5000     | 976-000-461 | \$174.97 |
| 0.6250      | 0.6250          | 0.0600      | 1.5000        | 1.6250      | 3.5000     | 976-000-462 | \$175.32 |
| 0.6250      | 0.6250          | 0.0900      | 1.5000        | 1.6250      | 3.5000     | 976-000-463 | \$175.66 |
| 0.7500      | 0.7500          | 0.0300      | 1.7500        | 1.8750      | 4.0000     | 976-000-464 | \$258.21 |
| 0.7500      | 0.7500          | 0.0600      | 1.7500        | 1.8750      | 4.0000     | 976-000-465 | \$258.44 |
| 0.7500      | 0.7500          | 0.0900      | 1.7500        | 1.8750      | 4.0000     | 976-000-466 | \$258.67 |
| 1.0000      | 1.0000          | 0.0300      | 1.7500        | 1.8750      | 4.0000     | 976-000-467 | \$410.97 |
| 1.0000      | 1.0000          | 0.0600      | 1.7500        | 1.8750      | 4.0000     | 976-000-468 | \$411.31 |
| 1.0000      | 1.0000          | 0.0900      | 1.7500        | 1.8750      | 4.0000     | 976-000-469 | \$411.54 |

**7-FLUTE, LONG LENGTH,  
CORNER RADIUS**



| DC<br>[in.] | DCONms<br>[in.] | RE<br>[in.] | APmx<br>[in.] | LS<br>[in.] | L<br>[in.] | PRODUCT #   | Price    |
|-------------|-----------------|-------------|---------------|-------------|------------|-------------|----------|
| 0.1875      | 0.1875          | 0.0150      | 0.7500        | 1.3750      | 2.5000     | 976-000-470 | \$56.87  |
| 0.1875      | 0.1875          | 0.0300      | 0.7500        | 1.3750      | 2.5000     | 976-000-471 | \$57.34  |
| 0.2500      | 0.2500          | 0.0150      | 1.1250        | 1.5000      | 3.0000     | 976-000-472 | \$64.11  |
| 0.2500      | 0.2500          | 0.0300      | 1.1250        | 1.5000      | 3.0000     | 976-000-473 | \$64.44  |
| 0.3125      | 0.3125          | 0.0150      | 1.1250        | 1.5000      | 3.0000     | 976-000-474 | \$85.54  |
| 0.3125      | 0.3125          | 0.0300      | 1.1250        | 1.5000      | 3.0000     | 976-000-475 | \$85.88  |
| 0.3750      | 0.3750          | 0.0300      | 1.2500        | 1.3750      | 3.0000     | 976-000-476 | \$104.69 |
| 0.3750      | 0.3750          | 0.0600      | 1.2500        | 1.3750      | 3.0000     | 976-000-477 | \$105.03 |
| 0.4375      | 0.4375          | 0.0300      | 2.0000        | 1.6250      | 4.0000     | 976-000-478 | \$129.11 |
| 0.4375      | 0.4375          | 0.0600      | 2.0000        | 1.6250      | 4.0000     | 976-000-479 | \$129.46 |
| 0.5000      | 0.5000          | 0.0300      | 2.0000        | 1.6250      | 4.0000     | 976-000-480 | \$155.94 |
| 0.5000      | 0.5000          | 0.0600      | 2.0000        | 1.6250      | 4.0000     | 976-000-481 | \$156.17 |
| 0.6250      | 0.6250          | 0.0300      | 2.2500        | 2.3750      | 5.0000     | 976-000-482 | \$262.46 |
| 0.6250      | 0.6250          | 0.0600      | 2.2500        | 2.3750      | 5.0000     | 976-000-483 | \$294.57 |
| 0.7500      | 0.7500          | 0.0300      | 2.2500        | 2.3750      | 5.0000     | 976-000-484 | \$295.15 |
| 0.7500      | 0.7500          | 0.0600      | 2.2500        | 2.3750      | 5.0000     | 976-000-485 | \$295.48 |
| 1.0000      | 1.0000          | 0.0300      | 2.2500        | 2.3750      | 5.0000     | 976-000-486 | \$464.45 |
| 1.0000      | 1.0000          | 0.0600      | 2.2500        | 2.3750      | 5.0000     | 976-000-487 | \$464.90 |

## Recommended Starting Speeds &amp; Feeds

|          |                                                                                                                   |                             |                       | END MILL DIAMETER                |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|----------|-------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------|----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|          |                                                                                                                   |                             |                       | 1/8"                             | 3/16"            | 1/4"             | 5/16"            | 3/8"             | 7/16"            | 1/2"             | 5/8"             | 3/4"             | 1"               |
| ISO      | MATERIAL                                                                                                          | HARDNESS                    | V <sub>c</sub> (SFM)* | F <sub>z</sub> (INCH PER TOOTH)* |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| <b>P</b> | <b>CARBON STEELS</b><br>1018, 1040, 1080,<br>1090, 10L50, 1140,<br>1212, 12L15, 1525,<br>1536                     | ≤ 275 BHN<br>or<br>≤ 28 HRC | 320-750               | .0009 -<br>.0017                 | .0011 -<br>.0019 | .0020 -<br>.0028 | .0024 -<br>.0033 | .0025 -<br>.0038 | .0025 -<br>.0041 | .0027 -<br>.0046 | .0035 -<br>.0052 | .0040 -<br>.0066 | .0042 -<br>.0090 |
|          | <b>ALLOY STEELS</b><br>4140, 4150, 4320,<br>5120, 5150, 8630,<br>86L20, 17-4 PH                                   | ≤ 375 BHN<br>or<br>≤ 40 HRC | 230-670               | .0006 -<br>.0013                 | .0011 -<br>.0017 | .0014 -<br>.0022 | .0017 -<br>.0024 | .0019 -<br>.0028 | .0020 -<br>.0035 | .0023 -<br>.0040 | .0030 -<br>.0050 | .0038 -<br>.0057 | .0040 -<br>.0085 |
| <b>M</b> | <b>STAINLESS STEELS</b><br>(FREE MACHINING)<br>303, 416, 420F,<br>430F, 440F                                      | ≤ 275 BHN<br>or<br>≤ 28 HRC | 250-600               | .0004 -<br>.0013                 | .0008 -<br>.0017 | .0013 -<br>.0020 | .0016 -<br>.0023 | .0020 -<br>.0026 | .0022 -<br>.0030 | .0026 -<br>.0034 | .0032 -<br>.0039 | .0035 -<br>.0047 | .0035 -<br>.0068 |
|          | <b>STAINLESS STEELS</b><br>(DIFFICULT)<br>304, 304L, 316, 316L                                                    | ≤ 275 BHN<br>or<br>≤ 28 HRC | 180-520               | .0005 -<br>.0017                 | .0010 -<br>.0020 | .0013 -<br>.0023 | .0017 -<br>.0027 | .0021 -<br>.0030 | .0025 -<br>.0035 | .0028 -<br>.0040 | .0030 -<br>.0048 | .0033 -<br>.0060 | .0033 -<br>.0078 |
| <b>K</b> | <b>GRAY IRONS</b><br>Class 20, 30, 40, 50,<br>60, G3000, G3500                                                    | ≤ 220 BHN<br>or<br>≤ 19 HRC | 320-830               | .0007 -<br>.0020                 | .0011 -<br>.0032 | .0014 -<br>.0041 | .0019 -<br>.0052 | .0022 -<br>.0061 | .0025 -<br>.0070 | .0028 -<br>.0080 | .0031 -<br>.0086 | .0032 -<br>.0095 | .0036 -<br>.0110 |
|          | <b>DUCTILE IRONS</b><br>D&M series, 250, 300,<br>350, 400, 60-40-18,<br>65-45-12                                  | ≤ 260 BHN<br>or<br>≤ 26 HRC | 220-670               | .0005 -<br>.0014                 | .0009 -<br>.0023 | .0012 -<br>.0032 | .0016 -<br>.0038 | .0018 -<br>.0041 | .0020 -<br>.0047 | .0022 -<br>.0053 | .0024 -<br>.0062 | .0028 -<br>.0070 | .0030 -<br>.0090 |
| <b>H</b> | <b>TOOL STEELS</b><br>A2, D2, H13, L2, M2,<br>P20, S7, T15, W2                                                    | ≤ 555 BHN<br>or<br>≤ 55 HRC | 115-270               | .0004 -<br>.0017                 | .0008 -<br>.0017 | .0013 -<br>.0020 | .0016 -<br>.0024 | .0020 -<br>.0030 | .0022 -<br>.0035 | .0028 -<br>.0045 | .0032 -<br>.0053 | .0036 -<br>.0062 | .0040 -<br>.0078 |
| <b>S</b> | <b>HR SUPER ALLOYS</b><br>Inconel 718, Waspaloy,<br>Hastelloy, Inconel 625,<br>Stellite 31, Haynes 25,<br>Rene 41 | ≤ 275 BHN<br>or<br>≤ 28 HRC | 70-180                | .0005 -<br>.0018                 | .0008 -<br>.0022 | .0010 -<br>.0028 | .0012 -<br>.0032 | .0015 -<br>.0036 | .0017 -<br>.0042 | .0018 -<br>.0047 | .0019 -<br>.0050 | .0022 -<br>.0055 | .0025 -<br>.0065 |
|          | <b>TITANIUM</b><br>6AL-4V, ASTM 1, 2, 3,<br>6AL-2S                                                                | ≤ 275 BHN<br>or<br>≤ 28 HRC | 140-400               | .0007 -<br>.0013                 | .0011 -<br>.0016 | .0013 -<br>.0018 | .0015 -<br>.0021 | .0019 -<br>.0026 | .0022 -<br>.0031 | .0024 -<br>.0035 | .0025 -<br>.0044 | .0030 -<br>.0053 | .0031 -<br>.0075 |

\*LOWER V<sub>c</sub> AND F<sub>z</sub> APPLY TO HEAVY/ROUGHING ENGAGEMENT\*HIGHER V<sub>c</sub> AND F<sub>z</sub> APPLY TO LIGHT/PROFILING ENGAGEMENT

Ap = Axial depth of cut  
 Ae = Radial depth of cut

\*Speeds & feeds are starting recommendations only.  
 Factors such as machine type, fixture, tooling rigidity,  
 available horsepower, coolant delivery method and others  
 will affect the performance significantly.

| $h_{ex}$ | %Radial Engagement | Thinning Multiplier |
|----------|--------------------|---------------------|
|          | 100%               | 1                   |
|          | 50%                | 1                   |
|          | 30%                | 1.091               |
|          | 25%                | 1.212               |
|          | 20%                | 1.641               |
|          | 15%                | 2.1                 |
|          | 10%                | 4.375               |
|          | 5%                 | 6.882               |









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*Application Engineer*

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