

*The Cutting Edge **M**astered*

Endmills

- General Purpose Endmills
- High Performance Endmills
- Fractional and Metric Sizes



Standard and High Performance Endmills



Standard Endmills - Available in Square, Ball, and Corner Radius (2, 3, and 4 Flute)



Mini Mills - Available in Square and Ball (2 and 4 Flute)



General Purpose Endmills Fractional and Metric

- Two, three, four and six flutes options
- Square and ball end
- Stub, standard, long lengths
- Double end, two and four flute, square & ball end
- Corner radius, two and four flute
- Straight fluted endmills - square & ball end
- Two and four flute, 90° Drill Mills
- Small diameter MiniMills, starting at .005" diameter
- Square and Ball TaperMills, three flute
- Three flute roughers
- Mold Mills
- Uncoated and coated

High Performance Endmills Fractional and Metric

V4 - Variable Helix Endmills (4 Flute)

- Variable helix geometry greatly reduces harmonics
- Smoother running, faster feed rates
- Ideal for roughing to finishing operations
- Longer tool life
- Improved surface finishes
- With or without flat
- Proprietary PowerA coating

V5 - Variable Helix Endmills (5 Flute)

- Combination of extra flute, thicker core, and eccentrically-ground relief
- Strong, stable performer for rapid, chatter-free stock removal
- Superior finishes and aggressive metal removal rates
- With or without flat
- Available in Proprietary PowerA coating

Hy5 (5 Flute)

- High performance broad spectrum semi-finisher/finisher
- Outstanding in stainless steel, high temp alloys, mold steels to 45 Rc
- 45° Helix, eccentric grind provides a smooth cutting with superb chip evacuation
- 20% increase in productivity versus 4 flute endmill
- Minimal tool deflection equals better part tolerance
- Stub, standard and long lengths, square end and corner radius options
- With or without flat
- Proprietary PowerA coating

F-45 (6 Flute)

- Achieves impeccable finishes in stainless steels
- Achieves impeccable finishes in nickel-based alloys, Inconel, and titanium
- Eccentrically-ground relief assures strength and stability
- 45 degree helix provides superb chip evacuation, greater shearing action
- Reduces side-load pressure, improves finish
- With or without flat
- Available uncoated or with proprietary PowerA coating

AxMill (2 and 3 Flute)

- Specially designed for aggressive aluminum cutting
- Incorporating superior stiffness and chip evacuation
- Highest possible feed rates
- Two and three flute, standard and chipbreaker cuts
- Available with or without corner radius options
- Standard and long length, square and ball end
- Available uncoated or with proprietary PowerZ

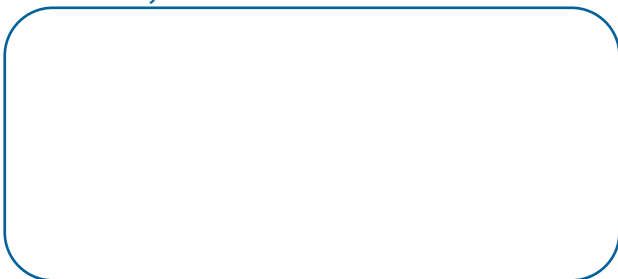
HyperMill (2 Flute)

- Aggressive metal removal rates in aluminum and non-ferrous materials
- 45° helix increases stiffness and improves surface finish
- Available uncoated or with proprietary PowerZ (zirconium nitride)

AlumaZip (2 Flute)

- High performance design for high metal removal rates in aluminum
- 55° helix combines a super-stiff profile with rapid evacuation of chips
- High helix fluting increases contact area, imparting better surface finishes
- Available uncoated or with proprietary PowerA coating

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