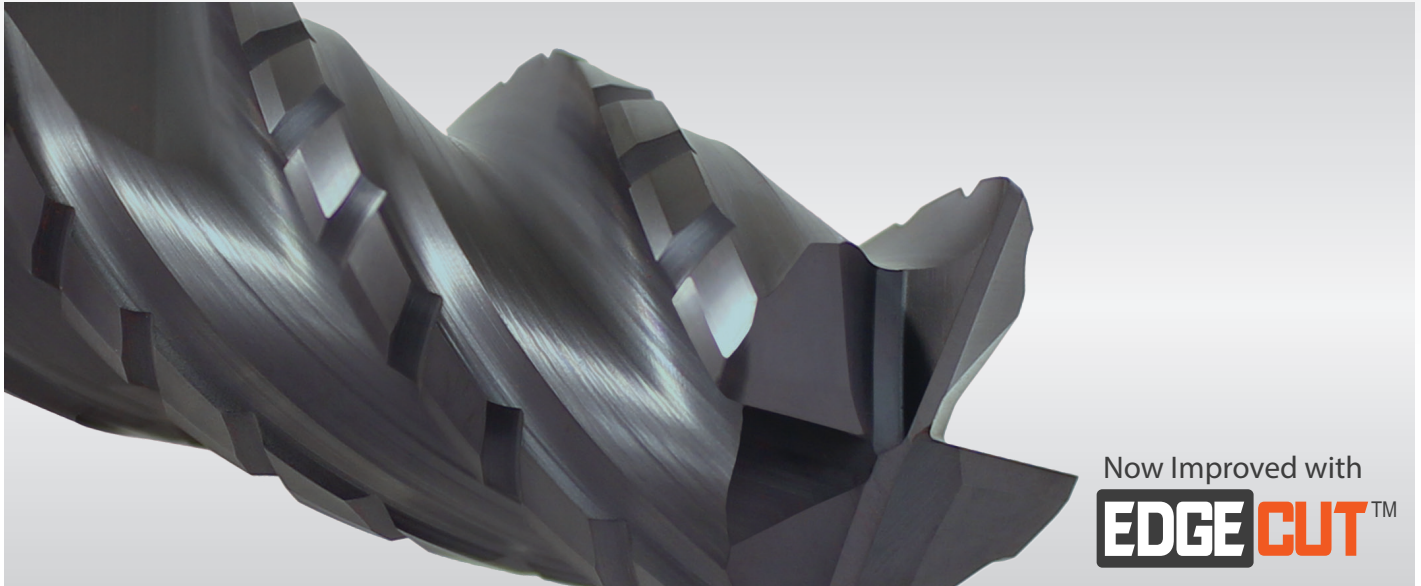




PRECISION CUTTING TOOLS, INC.

ENDMILLS

HIGH-PERFORMANCE MILLING

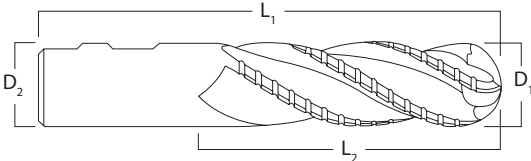


Now Improved with **EDGE CUT™**

453 SERIES

4 Flute - Variable Endmill with Chip Breakers High-Performance Milling

The 453 Series is engineered for improved chip evacuation and maximum metal removal rates. Its design consists of added chip breakers, standard chamfer and a 38° helix. The 453 Series is ideal for plunging, slotting, ramping and peripheral milling.



CARBIDE CARBURIO	4 Flutes	38°	Truncated Rougher
			Varianta® Supral

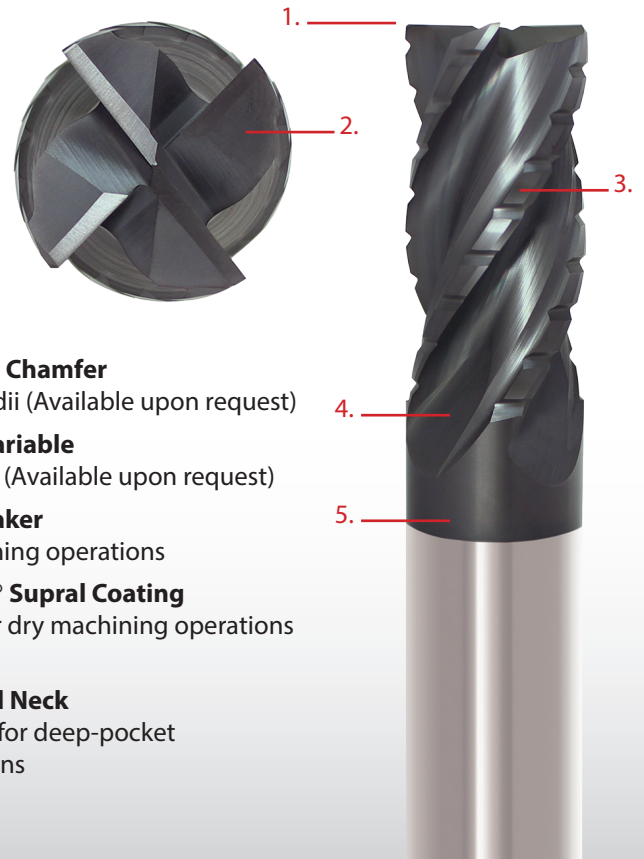
Varianta® Supral provides higher cutting speeds and excellent wear resistance.

Benefits:

- Increased metal removal rates
- Increased depth-of-cut
- Improved accuracy
- Chatter-free machining
- Higher speeds & feeds
- Superior surface finish on the part

Applications:

- Stainless Steels
- Carbon Steels
- Titanium
- Gray Cast Iron
- Hardened Tool Steels
- ...and their alloys



- 1. Standard Chamfer**
Corner radii (Available upon request)
- 2. 4 Flute Variable**
Left-hand (Available upon request)
- 3. Chip Breaker**
For roughing operations
- 4. Varianta® Supral Coating**
For wet or dry machining operations of steels
- 5. Extended Neck**
Available for deep-pocket applications

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