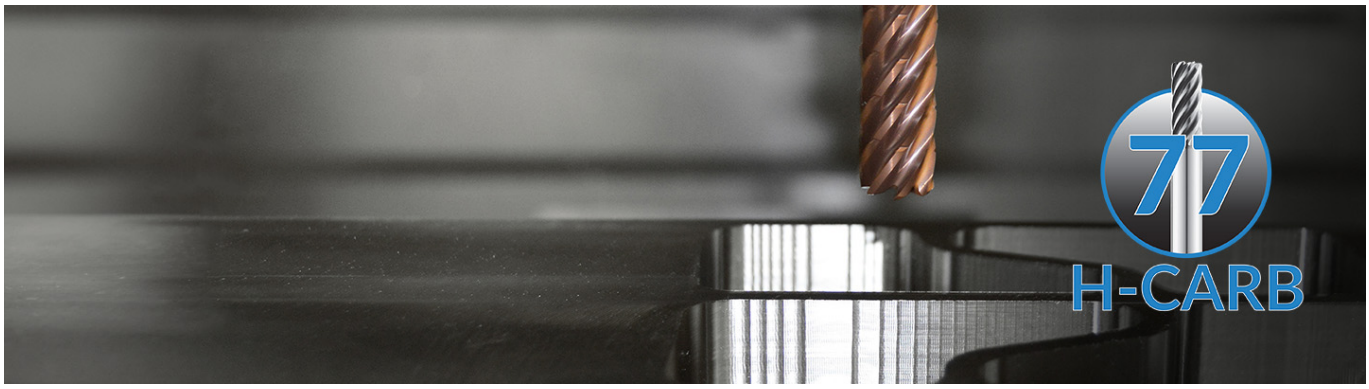

Innovate

The Benefits of Coolant-Through End Mills

Brought To You by KYOCERA SGS Precision Tools | Apr 01, 2024

KYOCERA SGS Precision Tools announces a large expansion of the popular H-Carb seven-flute high efficiency end mill series with over 400 new coolant-through options.

Available in various lengths of cut, the new H-Carb Series 77 coolant-through end mills specialize in deep axial trochoidal and high-speed machining applications. The new coolant-through varieties offer better wear, surface finish, and chip evacuation when pocketing or slotting. The H-Carb's specially designed core and flute design improve rigidity and chip flow while reducing deflection. The seven-flute design allows for superior finishes at higher speed and feed rates versus 5 and 6 flute tools.

The expanded H-Carb portfolio features specialized Ti-NAMITE®-A or Ti-NAMITE®-M coating technology for increased wear and abrasion resistance extending tool life dramatically to tackle a wide range of materials and applications. The Chip Breaker profile is standard option with a wide range of square end and corner radii options offered to meet a variety of machining specifications.

Features & Benefits

- Heavy-duty core and specialized flute design for improved rigidity, chip flow and reduced deflection
- Chip Breaker profile standard in portfolio and aids in chip flow, especially in deep pocketing operations
- Deep pocketing and slotting capability using various lengths of cut offered applying a trochoidal tool path
- Coolant-through options available for better wear, surface finish, and chip evacuation when pocketing or slotting
- CAM programming methods using high-efficiency machining by applying trochoidal tool paths and incorporating constant cutter engagement
- Available in 3 lengths of cut (2.5xD, 3xD, 4xD)

Material Applications

- Steel ≤ 45 HRc
- Stainless Steel ≤ 45HRc
- Cast Iron ≤ 45HRc
- High-Temp Alloys
- Titanium Alloys ≤ 45 HRc

Industry Applications

- Aerospace

- Medical
- Power Generation
- Automotive
- Mold & Die
- Casting & Foundries
- General Engineering

Previously Featured on KYOCERA SGS Precision Tools blog.