

# Slab Mills & Rotor Knives

## Application Sheet #524

### Description

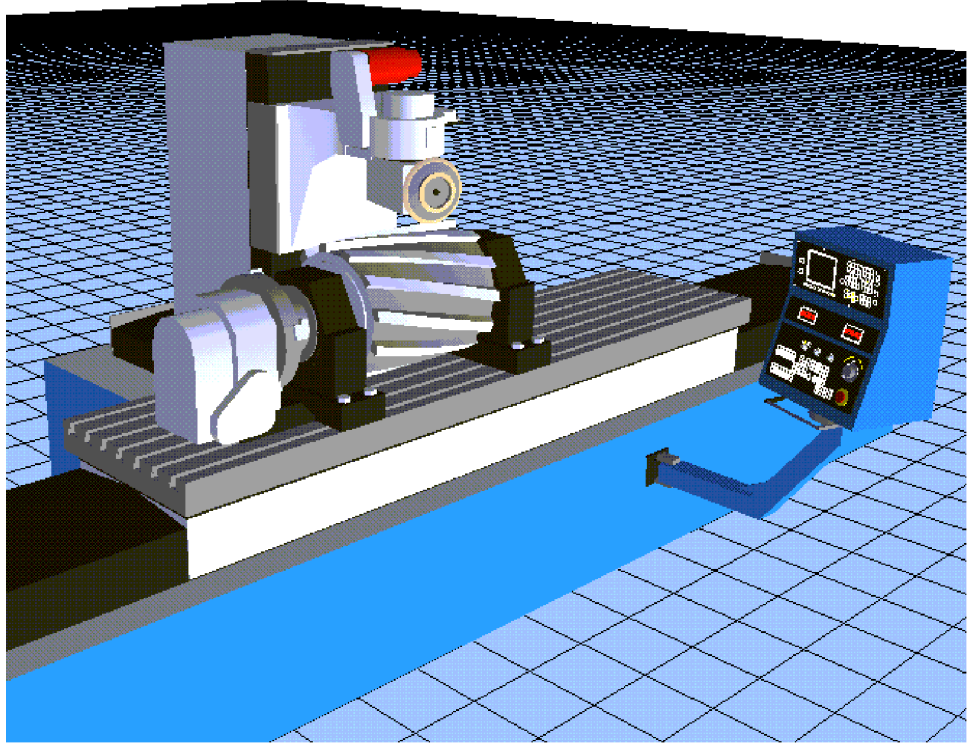
- Slab mill and rotor knife manufacturing and sharpening

### Application

- Flute and OD grinding of cylindrical cutters
- CNC grinding produces consistently accurate geometry, improves cutter performance and extends cutter life between sharpenings.

### Process

- Cutters are mounted between centers or on bearing supports.
- Axial position and tangential flute locations are digitized with an integrated contact probe.
- One or two wheels can be used.
- Typically a dish wheel for fluting and a cup wheel for the OD
- Superabrasive or conventional wheels are possible.



### Material

- High-speed steel
- Carbide
- Stellite inlay, or other materials

### Cycle Time:

- Actual cycle time depends on the cutter size, stock removal and cutter geometry.

### Features and Benefit:

- Available on the Huffman HS-130 and HS-160 Grinders. (depending on cutter size).
- Five CNC axes are used (three linear, two rotary).
- Cutters as large as 24 in (609.6 mm) in diameter and 72 in (1828.8 mm) in flute length (96 in max overall length) are possible.
- Rugged construction enhances system precision, durability and uptime.
- Optional scale feed back (linear and rotary axes) for increased machine accuracy.
- Integrated wheel truing available
- Cutters are completely ground in a single chucking.
- Helix angles from 0-30 degrees are possible.
- Optional Huffman Graphic User Interface (GUI) offers sequential programming, graphical display and on-screen prompts.

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