

2½ Axis Milling

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ProCAM's machining cycles and easy-to-use tools generate optimized toolpaths for enhanced 2½ axis milling. Simulation, associative operations, integrated feeds/speeds tables and online help further assist the programmer.

Integrated Feed/Speed Library has modifiable database containing over 1.7 million feed/speed combinations representing over 1100 materials.

Pocketing

- Fixed cut amount and scallop controls.
- Pocket in/out.
- Lace patterns: zig, zigzag, zigzag with retract.
- Automatically insert Profile pass before or after Lace material removal.
- Leadin/leadout: arc, parallel, perpendicular.
- Start options: plunge, ramp, spiral.
- Automatic recognition of pocket/island perimeters for non-contoured Z walls.
- Single and multiple depth cutting strategies.
- Tapered tool support.



2 ½ Axis Mill Pocketing

Profile

- Single and multiple depth cutting strategies.
- Definable step-in.
- Corner types: round, sharp, square, loop, Fanuc, triangle.
- System or machine compensation.
- Leadin/leadout: arc, parallel, perpendicular.
- Start options: plunge, ramp, spiral.
- Tapered tool support.
- Helical milling.

Z Wall Definition

- Define islands with different heights.
- Define perimeter and/or island walls with different tapers.
- Definable cut amount.
- Allowance supported for semi-finish and finish cycles.
- Pocket, Lace and Profile strategies.

Free Form Cutting

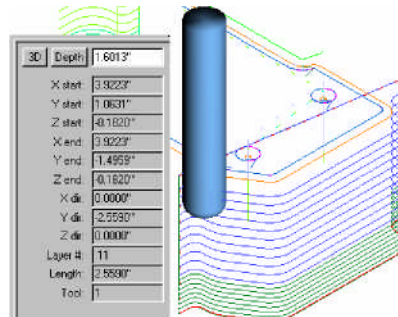
- Single and multiple depth cutting strategies.
- Program point: tool tip, tool center.
- TrueType font support for engraving.

Drilling Cycles

- Automatic drill to diameter, drill to tip depth calculations.
- Easy-to-use face and depth controls
- Drill optimization.
- Intelligent window picking based on tool size and user-defined tolerances.
- Canned cycle support: drill, spot drill, pecking, tapping, boring, high speed pecking, variable pecking, reverse tapping, reaming, reaming with Dwell, back boring, fine boring.
- Combination drilling cycles for a series of single point operations at the same location.
- 4th and 5-axis preposition machining.

Drill Plunge Roughing

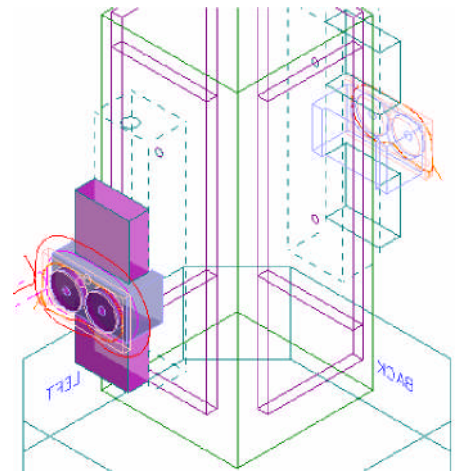
- Stepover, drill distance and pattern angle options.
- Single and multiple depth cutting strategies.
- Automatic presentation of pre-drill locations.



Review the order of toolpath cutting

Tombstone, Rotary/Tilt Table Support

- Multi-plane machining allows easy implementation of tombstone work.
- Subroutines; fixture, work coordinate, and work and sub coordinates offsets.
- Horizontal milling machine viewing option.



Tombstone Support

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