

## The Ultra-High Performance Toolpath Generator

 CAMWorks VoluMill™ is an ultra-high performance toolpath generator for rough milling operations that outperforms every other toolpath technology available. Using VoluMill, the cycle times for

rough milling operations are dramatically reduced by creating more efficient toolpaths and tool life can be extended by as much as 10 times!

and to minimize plunging into material

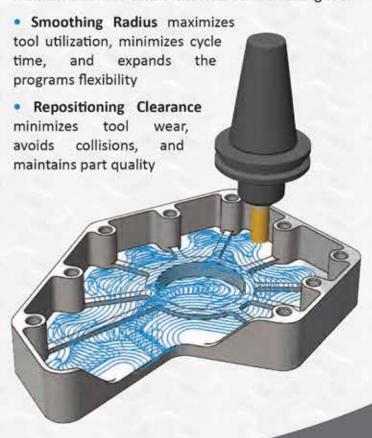
- Intelligent Slot Milling and Side Milling Options:
   Slot milling or side milling is intelligently determined to maximize material removal rate
- Fast Machining of Small Pockets is highly efficient
   with specialized tool motion for tight
   spaces, which are computed
   automatically with special milling logic
   being applied as needed
  - Up to 100% Stepover with No Uncut Material ensures complete floor cleanup at all times
  - High-Feed Repositioning with Floor Clearance fully leverages the machine's capabilities

 Automatic Feed Rate Adjustment maintains a more consistent load on the cutting tool

Removal Rate using smooth, flowing motions maintains the ideal cutting conditions for any part geometry. Forces on the spindle and cutting tool are dramatically reduced enabling the machine tool's hardware to be utilized at full capacity. Uniform chip load and efficient heat dissipation result in significantly extended tool life and greatly reduced cycle times of up to 85%.

Consistent Material

- High-Performance, Smart Toolpath Engine: Rough milling for any type of geometry is created quickly and easily. The toolpaths are created for constant motion, thus reducing cycle time and extending cutting-tool life by reducing stress on machine tools.
- Parallel Processing fully leverages the multi-core processing capabilities of your computer, enabling faster computation of toolpaths and reducing programming time
- Powerful, Efficient Toolpaths for Open Shapes:
   Open edges are fully leveraged for efficient machining



## CAMWORKS VOLUMILL™

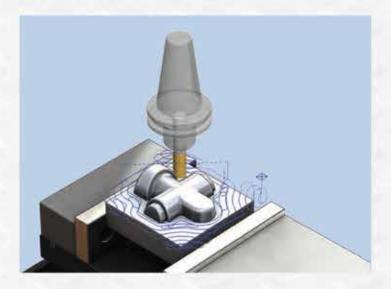


- Contour Ramping maximizes material removal and provides safe access into tight areas to avoid gouging
- Non-Concentric Milling Technology reduces cutting tool load and evacuates chips more easily, dissipating heat more effectively, and the increase in toolpath engagement occurs more gradually all of which contribute to extended tool life
- The CAMWorks VoluMill™
  Roughing Strategy creates an ultra-high-efficiency toolpath by exploiting the capabilities of modern machining hardware to control the material removal rate. VoluMill's

unique approach to high-speed material removal helps the programmer determine the optimum material removal rate for any combination of part geometry, material, machine, and cutting tool.



Material is removed in the most effective way possible. Consequently, machines run smoothly and tools run cooler.



CAMWorks Modules are available in a variety of bundles or combinations:

- 2.5-Axis Mill
- 3-Axis Mill
- Multi-Axis Machining
- Mill Turn
- 2- and 4-Axis Turning
- Wire EDM
- CAMWorks VoluMill™
- CAMWorks Virtual Machine



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