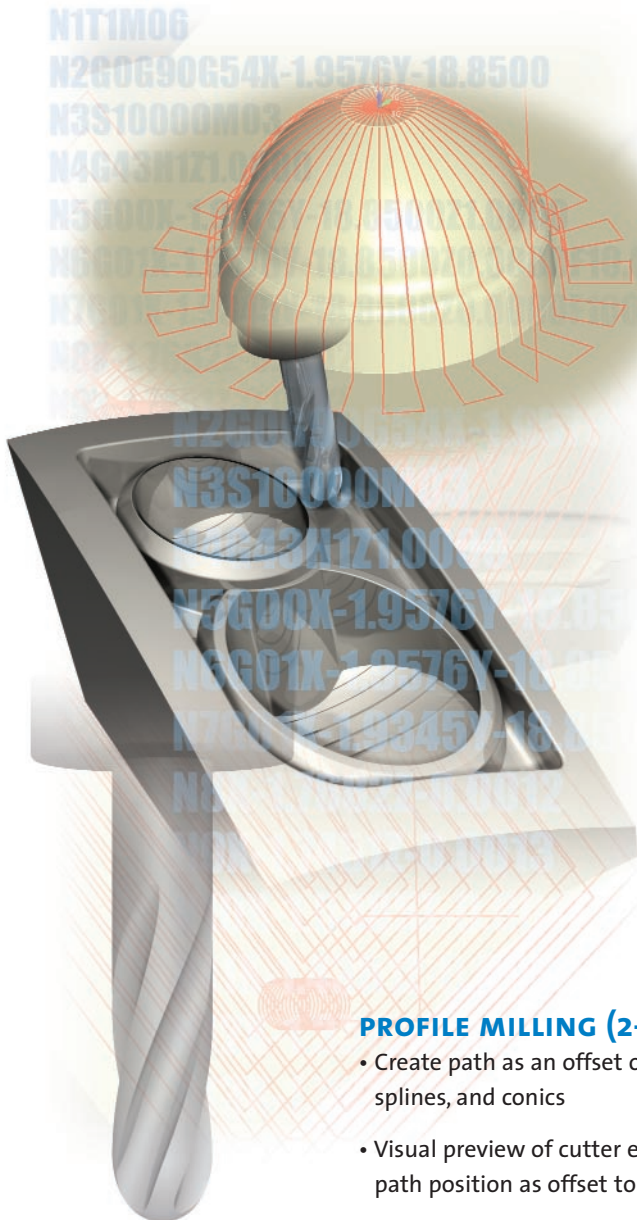




# KEYCREATOR™

## KEYCREATOR NC MODULES



### CAD/CAM Software for 2-Axis and 3-Axis Milling

The NC modules for KeyCreator provides separate 2-Axis and 3-Axis toolpath utility options that are fully-integrated into the system interface to support ultra-fast toolpath generation. These utilities enable output of Numerical Control (NC) programs and process sheets for drilling, pocketing, profile milling, and surfacing operations. You have the ability to generate toolpaths on wire-frame geometry, surface and solid models. KeyCreator NC modules toolpaths are saved in the same file as the part geometry, providing data management for both geometry and toolpaths.

These easy-to-learn modules has everything you need to quickly create and/or import CAD models from other applications and then easily output NC programs and process sheets.

### COMPREHENSIVE DRILLING (2-AXIS MODULE)

- Complete spectrum of canned cycles include spot drilling, pecking, boring, and tapping
- User defined sets of cycles and custom parameters
- Generation of standard hole patterns without geometry to define the parameters of a grid pattern, bolt circle, or linear pattern
- Adjustment of hole sequence based on closest distance to next, or a specified number of zigzags on the x or y axis to minimize air time

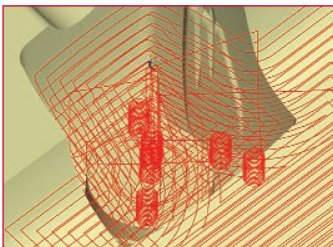
### PROFILE MILLING (2-AXIS MODULE)

- Create path as an offset of a closed or open chain of lines, arc, splines, and conics
- Visual preview of cutter entry and exit locations, direction and path position as offset to the inside, outside, or directly centered
- Set up of sets of finish passes and rough passes with separate control of number of passes or removal per pass and order of cutting (XY or Z)
- Support of tapered wall includes option to maintain sharp corners
- Configurable lead-in and lead-out conditions with radial blend, tangent, and perpendicular options – eliminate dwell marks
- Full support for cutter diameter compensation

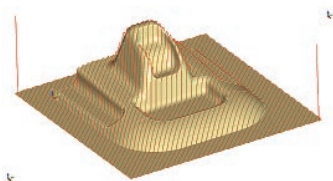
### SPIRAL POCKETING (2-AXIS MODULE)

- Handle all combinations of islands, bosses, nested pockets, and pockets at different depths in one time-saving step
- Climb and conventional milling
- Collapse from the outside or expand from the inside of a pocket
- Helical, ramping angle, or pre-drilled hole entry, multiple entries
- Constant offset in XY
- Option for creating a re-roughing of rest material only toolpath – allows re-machining of corners with smaller tool

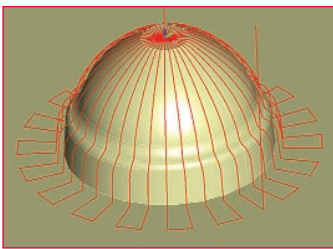
### MULTI-SURFACE MILLING (3-AXIS MODULE)



1. Contour Roughing

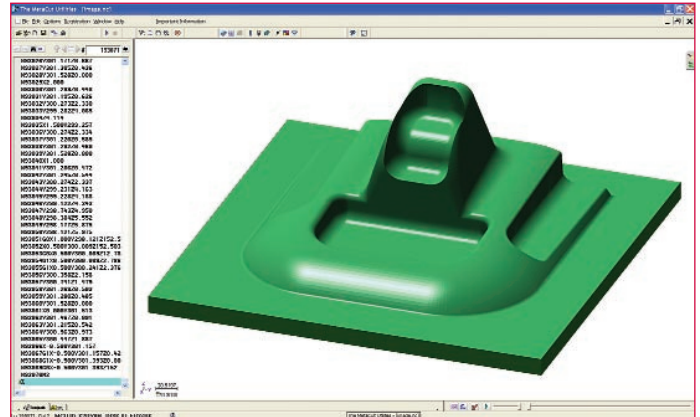


2. Planar Finishing



3. Radial Finishing

- Contour Roughing (picture #1)
- Zigzag Roughing
- Unidirectional Roughing
- Follow Surface Roughing
- Planar Finishing (picture #2)
- Radial Finishing (picture #3)
- Plateau Finishing
- Tool containment using 2D and 3D curves
- Helix, ramping, and plunge entry styles
- Check surface control
- Plane view machining (4-axis indexing)
- Re-machining steep and shallow walls
- Machining flat regions
- Point milling (plunge)
- Pencil trace machining



Fully-integrated into KeyCreator, The MetaCut Utilities offers a best-in-class feature set for easier and more rapid creation of toolpaths throughout the manufacturing process.

### TOOLPATH UTILITIES

- Wireframe tool motion simulation
- Crash detection\*
- Cutting time\*
- Graphical compare of CNC files (G-code)\*
- Paired highlight of a single line of CNC code and resulting faces cut by that line\*
- Use in-process or cast parts as stock for simulation\*
- Chip volume graph\*

\*Via The MetaCut™ Utilities program from Northwood Designs included with all KeyCreator NC modules.



KUBOTEKUSA.COM

KUBOTEK USA, INC. • 100 LOCKE DRIVE • MARLBOROUGH, MA 01752  
800.372.3872 • 508.229.2020 • 508.229.2121 FAX

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