



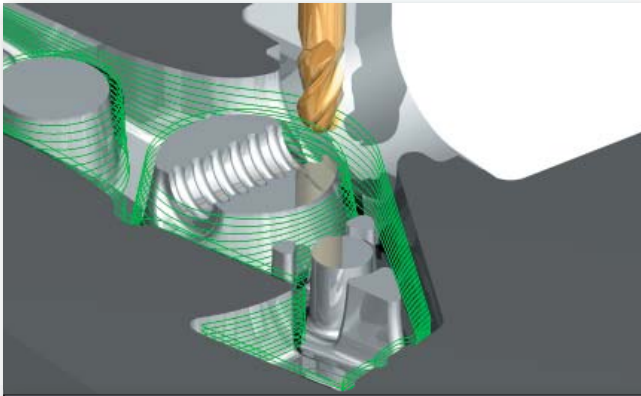
PowerMILL eliminates EDM at Elba Tool

# PowerMILL 6.0



[www.delcam.com](http://www.delcam.com)

PowerMILL 6 includes a wide range of new functionality for 2.5D through to 5 axis simultaneous machining, plus a number of changes to the interface to make the software even easier to use. PowerMILL 6 reinforces its position as the world's leading CAM software for toolmaking and other complex machining operations.

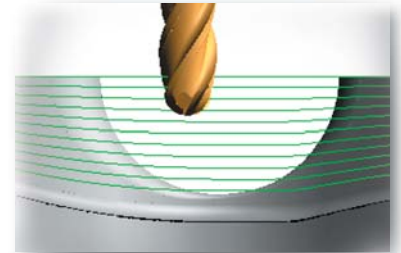


3 Axis Swarf Machining

### 3 Axis Swarf Machining

Swarf Finishing has been further enhanced to enable you to produce a 3 axis toolpath that only machines the selected ruled surfaces.

This is extremely useful when machining flat walls as highlighted in the image on the left. This is a 3 axis toolpath so you do not require a MULTIAXIS licence.



Machine tool head controlled by 3D Curve

### Smooth Machine Kinematics

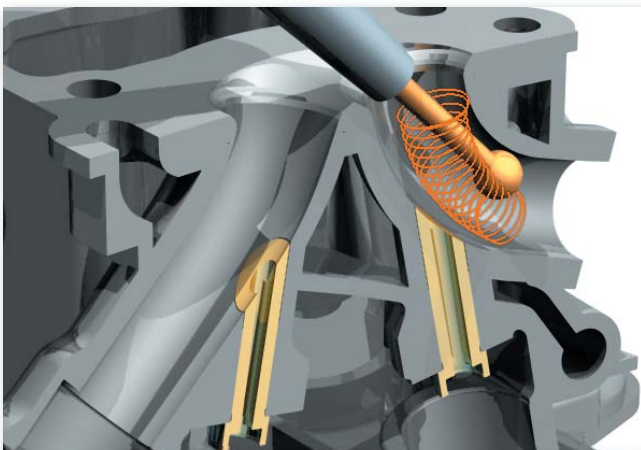
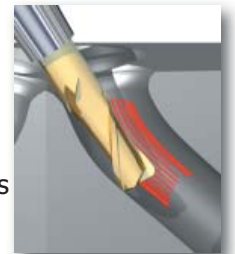
PowerMILL 6.0 see the extension of projection machining to use any 3D curve rather than just through straight lines.

This gives very flexible control over the machining direction when manufacturing complex shapes such as blades, blisks and impellers.

### Automatic Collision Avoidance

For all five-axis machining options, PowerMILL incorporates automatic adjustment of tilt angles for both lead and lean (Lead is measured in the cut direction; lean at right angles to the cut direction).

PowerMILL 6 automatically tilts the cutter away from an obstacle by a specified tolerance, returning to the originally set angle once the obstacle has been cleared.



Automatically avoiding collisions during port machining

This is particularly useful when five-axis plunge finishing Engine Ports to provide efficient metal removal, smooth machine tool kinematics and improve gas flow by machining cusps parallel rather than across the ports surface.

