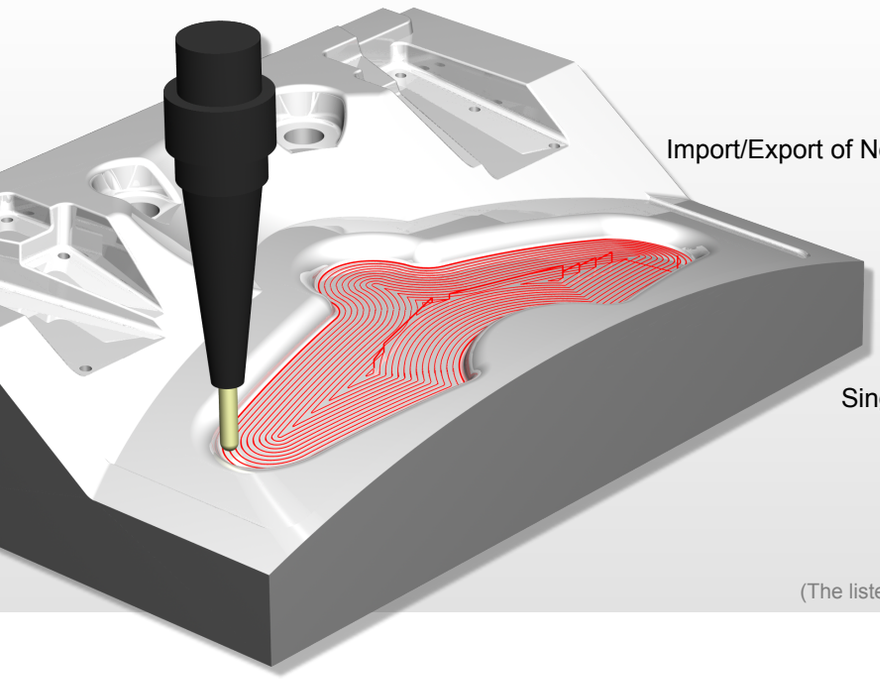
3D Freeform Machining



Standalone 2D/3D CAD (Solids, Surfaces, Meshes)

Import/Export of Neutral CAD-Formats: SAT, STEP, IGES, (STL), DXF

3D Freeform Machining (Roughing, Finishing)

Topology and Rest Material Recognition

High Speed Cutting (HSC)

Single Click Application of Proven Machining Strategies

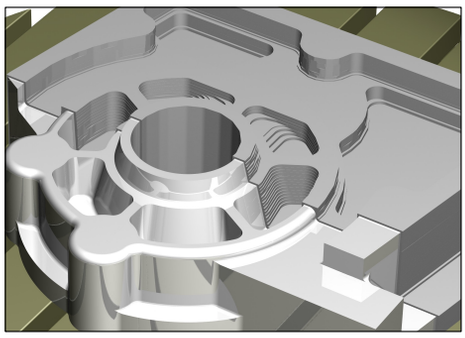
Free Post Processors for Standard Controllers

Free Lifetime Software Support

(The listed functions are included within the standard CAD/CAM package)

3D Freeform Machining (Roughing, Finishing)

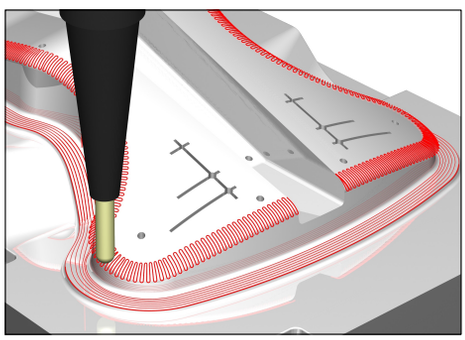
Pictures by PC enables the 3D rough and finish machining of freeform models (solids, surfaces and meshes). Proven machining strategies are applied with a single mouse click, and altered to suit. Toolpaths can be simulated (incl. stock material, tooling and clamping components), and translated into NC code using a machine post processor. NC worksheets are created to display required tooling and cutting times.



Rest Material Comparison

High Speed Cutting (HSC)

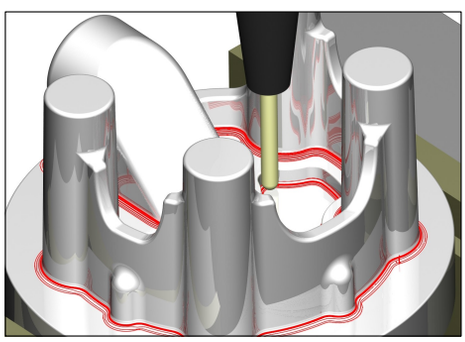
High speed cutting (HSC) increases the removal rate of material by utilising higher feeds, speeds and tangential toolpath connections. Typical finishing strategies include contour orientated, spiral or hybrid machining. The later is ideal for reducing programming times, by generating toolpaths to match both steep and flat areas on the geometry within a single operation.



High Speed Cutting (HSC)

Topology and Rest Material Recognition

Feature recognition identifies areas of freeform 3D CAD geometry to machine (plane and tapered faces, chained radii, freeform pockets). Rest material recognition highlights areas that require re-machining after finishing operations. Automatic bounding contours contain the rest material machining. Support for multi-threading toolpath calculation ensures short calculation times of complex components on rudimentary hardware.



Topology and Rest Material Recognition

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