



Automatic CAM/CAD from 2 to 5 axis



Integrated CAD & Analysis functions

- Standard translators : STEP, IGES, DXF, STL,
- Direct translators: UGS®, Catia® V.4/V.5, Parasolid® ...
- Mold Analysis Functions,
- 3D surface and solid modeling functions,
- Advanced intelligent surface morphing for filling simple or complex cavities,
- Automatic 2D Features recognition and cycle definition for drilling, counterboring, reaming, tapping...
- Automatic mold and die core separation,
- Advanced Electrode module

High performance CAM functions

- Automatic geometry and machining zone detection and management,
- Specific fluid and progressive toolpaths designed for High Speed Machining,
- Full user stock definition (block, CAD, STL),
- Dynamic 3 and 3+2 stock Management (Real time toolpath updated),
- Complete tool and holder collision check with automatic stock update,
- Powerful toolpath editor,
- Virtual 3D machine representation and machining simulation (dynamic editing of points and vectors),
- Powerful tool and holder library (holder components managed),
- Automatic HTML workshop documentation,
- User predefined machining sequences for automatic machining,
- Machining from STL files and point clouds,
- Batch mode calculations,
- Comprehensive postprocessor generator (NURBS, cycles, circular interpolation...).

Powerful and optimized CAM toolpaths

- Global Roughing and Re-roughing toolpath design and optimized for HSM machining,
- A range of specific toolpaths with trochoidal, spiral or plunging movement
- Roughing strategies use the Tool and Holder collision check with an automatic update of the stock,
- Automatic calculation and machining of rest areas based on dynamic stock.
- Re-machining toolpaths enable automatic rest material machining with increasingly smaller tools,

Powerful and optimized finishing toolpaths

- A wide range of Finishing toolpaths optimized for HSM machining,
- Z Level finishing, Planar finishing, Flat surface finishing, Contour finishing, Edge finishing,
- Automatic Rest-material finishing with a sequence of progressively smaller tools,
- 3D Display of rest-material areas,
- Automatic 5 Axis conversion possible,



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Intelligent 2 and 2.5 Axis toolpaths

- Range of 2 and 2½-axis strategies,
- Pocketing, Contouring, Curve machining, Engraving, Rib machining, Facing, Drilling, tapping ...
- Automatic Drilling Module,
- Automatic features detection, Pre-defined drilling sequence selection, Automatically generated drilling operations, Deep hole and intersecting hole drilling management,
- Customized Postprocessor.

Automatic & Simultaneous 5 Axis toolpaths

- Automatic 3 to 5-axis conversion toolpaths - "AUTO 5",
- Wide range of Simultaneous 4 and 5 Axis toolpaths,
- 5 Axis Rolling, Planar finishing, Spiral Blade, Impeller, Tube, Laser ...
- Collisions detection and machine limits management.