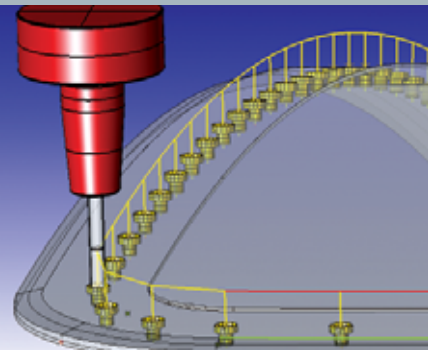


Milling of a cladding part on a MATRIX 800^{2T}

Automations can considerably simplify programming with 5AXIS strategies. Thanks to fully automated collision avoidance in 5AXIS mode, *hyperMILL*® automatically calculates optimal and collision-free tool angles. As a result, users can program 5AXIS jobs as if they were 3D.

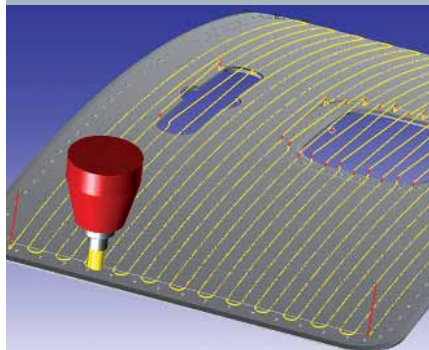
5AXIS drilling

In this strategy, drillings with different tool angles are completed in a single operation. Drill feature recognition helps to reduce programming times significantly.



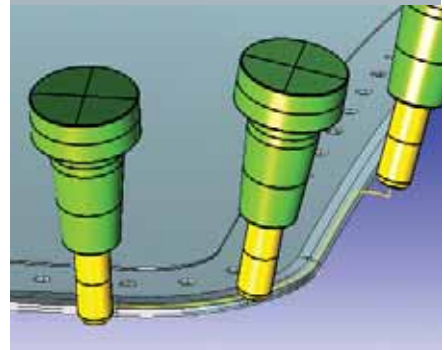
5AXIS top milling

This strategy reduces machining times by defining greater path distances. Thanks to multiple infeeds and stock recognition, it can also be used for efficient 5AXIS roughing.



5AXIS contouring

The tool is moved along the contour with a fixed angle to the surface. Chamfers, slots and contours do not need to be designed separately; time-consuming CAD programming is eliminated entirely.



Flexible machining, reduced set-up times and greater precision during 5AXIS high speed milling – MATRIX is a fast, flexible and compact high-speed machining system for large and oversize workpieces. The system offers dynamic and powerful machining and is designed for the machine set-up requirements and production logistics of aerospace, tool and mould parts.

Machine: Matrix 800^{2T}

Traverse paths (X/Y/Z): 2,000/2,000-3,000/800 mm

C: 360°

A: -105° / +120°

Travel speed X/Y/Z: 40 m/min

C: 100 min⁻¹

A: 50 min⁻¹

Motor spindle:

Power: 20 – 40 kW

Torque: 38 – 100 Nm

RPM: 18,000 – 28,000 min⁻¹

Controller: Siemens Sinumerik 840 D
or Heidenhain TCN 530



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