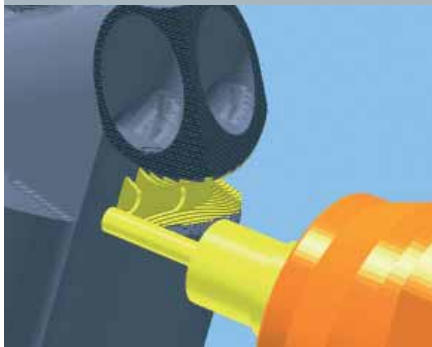


## Machine part production on a FLEXI 1-5AX machining system

Thanks to *hyperMILL*®'s wide range of 2D, 3D and 5AXIS machining strategies, special applications and powerful feature technology, job programming is a flexible, fast and economical process. Optimisation functions are available to assist users in exploiting the performance capacities of modern tools and machines and reduce production times.

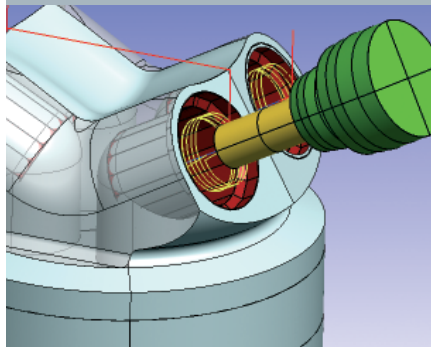
### Roughing of any stock

In connection with stock tracking, this strategy provides a reliable method for removing undercut rest material with different tool angles.



### Feature programming

Drill features can be recognised from any 3D model. 5AXIS drilling combines helical drilling jobs with different angles into a single operation, thereby eliminating redundant movement.



### 5AXIS equidistant finishing

This strategy achieves improved surface quality through the continuous machining of steep and flat areas. Stepover is calculated directly on the surface.



### Main drive (motor spindle)

RPM range: 18,000 min<sup>-1</sup>

### Workspace

Rapid movement/feedrate: 50 m/min

Traverse path X axis: from 950 to 2,100 mm

Traverse path Y axis: 700 mm

Traverse path Z-axis: 950 mm

Rotary table: diameter 660 mm

Clamping surface: from 1,450 to 2,075 x 730 mm

Rapid movement/feedrate: Tilt/turning axis 60 min<sup>-1</sup>

Workpiece weight: 1,000 kg to 2,500 kg

Tilt angle B axis: ± 110°

Turning area C axis: 360°

Controller: Heidenhain iTNC 530,

Selca S4060D, Fanuc 31i



### Speed – flexibility – precision – efficiency

This machine is designed for maximum productivity in multi-axis machining jobs, for large or small production volumes in both mechanical engineering and mould making.



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