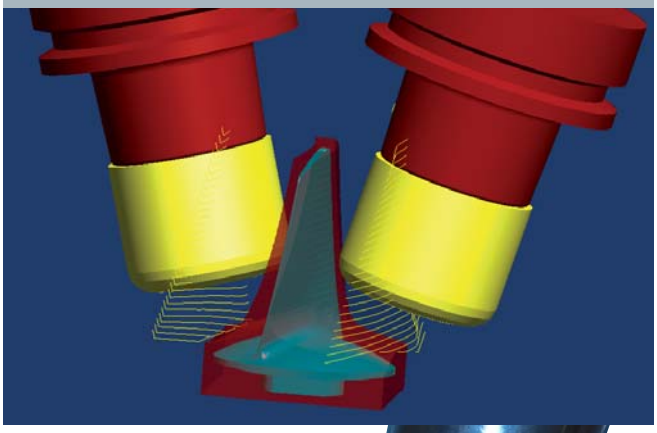
hyperMILL® 5AXIS

Milling of an adjustable pitch propeller on a DMU 40 monoBLOCK®

The *hyper*MILL® turbine blade package offers specially optimised machining strategies that take into account the special technological requirements of these parts, whilst keeping programming simple. Integration in *hyper*MILL® means that 2D, 3D and 5axis strategies with broad applications are also available. Users thus enjoy a high degree of flexibility when choosing the optimal machining strategy and tools.

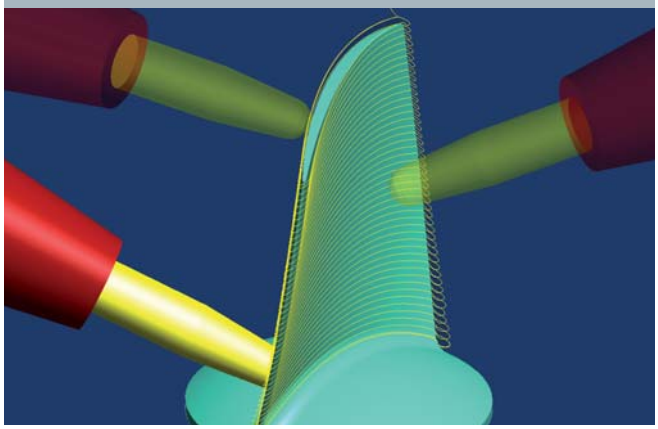
Roughing

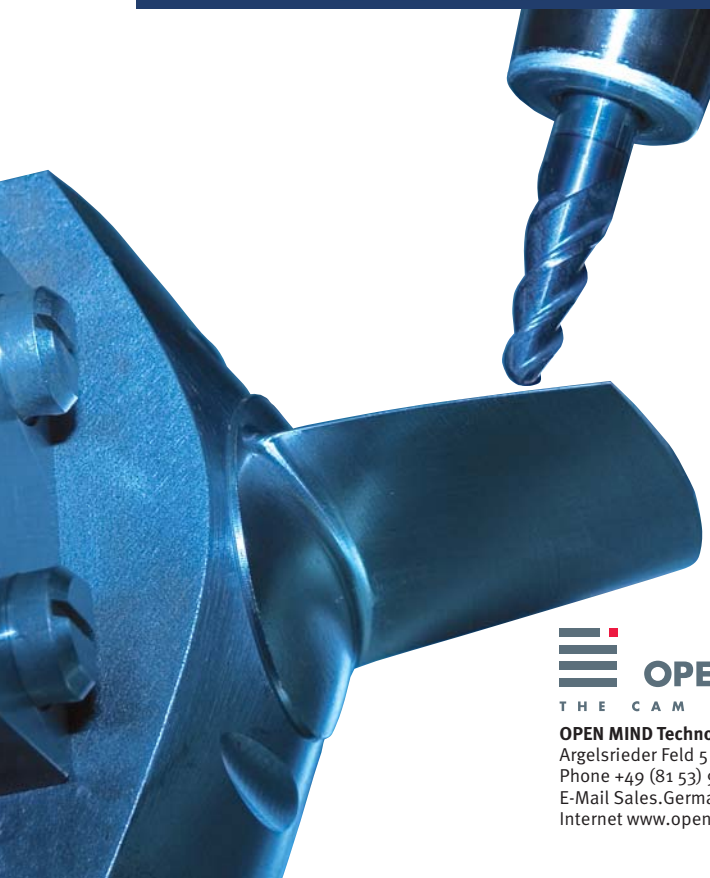
Various machining strategies are available for roughing adjustable pitch propellers. In this case, the vertically clamped short blade is roughed close to the contour using 3D ISO-machining and a large tool.



Finishing

Adjustable pitch propeller fillet machining is a form of rest machining that uses ball mills for the transition area between blade and hub. It can also be used for finishing the whole blade.





Main drive (motor spindle)
RPM up to: 24.000 min^{-1}

Workspace
Rapid traverse and feedrate X/Y/Z: 30 m/min
Traverse path X/Y/Z: 450 x 400 x 480 mm

Swivel head
Tilt area (0=vert./-90=horiz.): +30°/ -120°
Tilt time: 1,5 s
Rapid traverse: 35 min^{-1}

NC rotary table
Clamping area: Ø 450 mm
Rapid traverse/feedrate: 60 min^{-1}
Max. workpiece weight: 250 kg
Controller: Heidenhain iTNC 530

OPEN MIND
THE CAM COMPANY

OPEN MIND Technologies AG
Argelsrieder Feld 5 • 82234 Wessling • Germany
Phone +49 (81 53) 93 35 00 • Fax +49 (81 53) 93 35 01
E-Mail Sales.Germany@openmind-tech.com
Internet www.openmind-tech.com

DECKEL MAHO Pfronten GmbH

DECKEL MAHO Pfronten GmbH
DECKEL MAHO-Straße 1 • 87459 Pfronten • Germany
Phone +49 (83 63) 89-0 • Fax +49 (83 63) 89-367
E-Mail info@gildemeister.com
Internet www.gildemeister.com