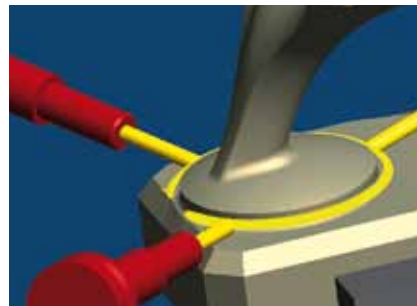


Skate fish: milled on a ALZMETALL GS 1000/5-FDT

The CAD/CAM solution, *hyperMILL®* in *hyperCAD®*, enables complex surfaces to be easily designed in CAD so that they can be milled with a higher surface quality. The broad spectrum of machining strategies under one interface, ranging from 2D, 3D, 3+2 machining and automatic indexing to 5axis simultaneous machining, enables the most suitable strategy to be selected. The workspace monitoring checks whether the machining jobs can be carried out with the chosen set-up on the designated machine given the necessary pivoting angles and required tool lengths.



Milling with fixed option Because of the top surfaces strong curvature, 3+2 milling with ball nose cutter was used to ensure the best surface quality.



5axis rest machining These rest material regions, all in undercut situations, were machined in one continuous motion without retract.

Maschine: GS 1000/5-FDT

Main Spindle (motor spindle)	RPM range	24.000 min ⁻¹
Workspace	Rapid traverse/feedrate Traverse path X/Y/Z	45 (60) m/min 800/800/600
AC-NC tilting rotary table	Clamping surface Traverse path A axis Axis rotary speed (RPM) Turning area C axis Max. table load	Ø 630 mm +120°/-120° max. 300 min ⁻¹ 360° infinite 500 kg
Automation	Controller	Siemens Sinumerik 840 D
Workpiece	Rohteil Material	300 x 420 x 280 mm Aluminium AlMg 4.5 Mn



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