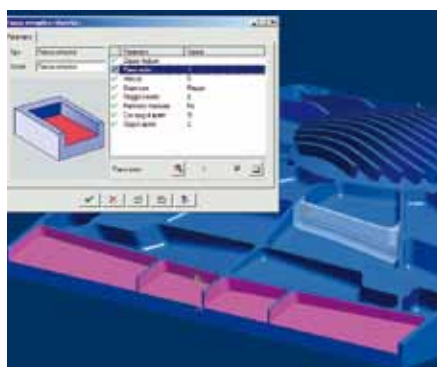
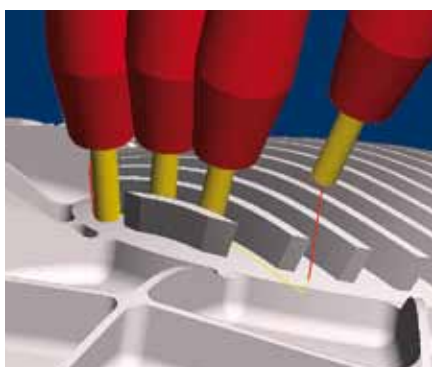


### Cap of oil tank: milled on a MADRINO MTS-20.32

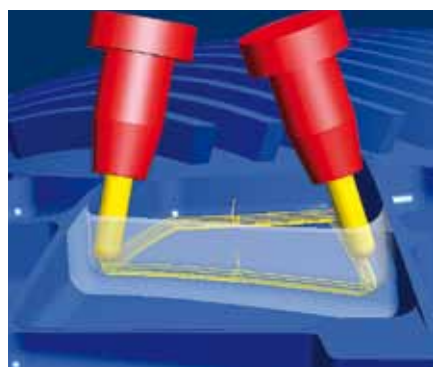
hyperMILL® provides a wide range of machining strategies ranging from 2D to 5AXIS simultaneous machining all within one user interface. This comprehensive CAM solution also offers automated functions that minimise the required number of programming steps. These functions include automatic feature recognition on solids and surface models and 5AXIS rest machining.



**Pocket feature recognition:** This function recognises closed pockets, pockets with islands and pockets with open sides. The generated tool paths ensure complete machining even for open pockets.



**5AXIS swarf cutting:** 5AXIS swarf cutting reduces milling times as a result of the wide spaces between the paths and ensures an excellent surface quality. The tool flank is guided along a reference curve.

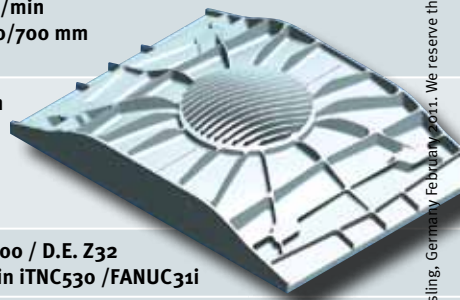


**5AXIS rest machining:** The extended 5AXIS fixed inclination function automatically searches for a fixed inclination for the entire area or divides this area into sections with a fixed inclination, which are milled in a single operation.



Machine: MADRINO MTS-20.32

Motorspindel	RPM range	up to 30.000 min <sup>-1</sup> / 20 kW
Workspace	Rapid traverse/feed rate Traverse path X/Y/Z Acceleration	60–120 m/min 1.200/800/700 mm 15 m/s
NC round tilting table	Table diameter Tilt area Rotating speed Max. workpiece weight Tilt speed	Ø 660 mm ± 120° 120 min <sup>-1</sup> 800 kg 60 min <sup>-1</sup>
Automation	CNC-Controller	OMV AZ-300 / D.E. Z32 Heidenhain iTNC530 / FANUC31i
Workpiece	Dimensions Material	270 x 230 x 39 mm ERGA Aluminium



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