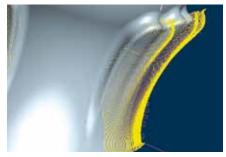
# hyperMILL® EAXIS

# Trophy: Milled on a Makino V33

The trophy, which is given to visitors of the Makino Exhibition Centre, demonstrates the flexibility hyperMILL® brings to modern 5axis machining. The methods employed include 3+2 fixed-axis milling, machining cycles from the cavity package and contour machining.



3+2 fixed-axis milling Simple machining tasks with undercuts can be milled collision free using fixed tool positions and short tools.



**5axis cavity cycles** The cavities package expands the 3D cycles to include simultaneous multi-axis machining. In comparison with the 3+2 strategy, it enables continuous machining and yields a better surface prevention feature that guarantees quality.



5axis contour machining When engraving, the tool must follow the surface with extreme precision. hyperMILL® is equipped with a fast and easy collision checking and reliable milling results.



## Machine: Makino V33

Main drive (motor spindle)	Maximum spindle speed	200 - 30.000 min <sup>-1</sup> , 15kW
Machining area	Rapid travel X/Y/Z Traverse path X/Y/Z	20.000 mm/min 600/400/350 mm
NC swivelling rotary table	Worktable area Max. feedrate Max. torque Max. workpiece weight	750 x 400 mm 20.000 mm/min 21 Nm 300 kg
Automation	Controller	Microprocessor-CNC-controller Pro3 (FANUC 16iM)
Workpiece	Dimensions Material	25x25x50 mm Aluminium

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