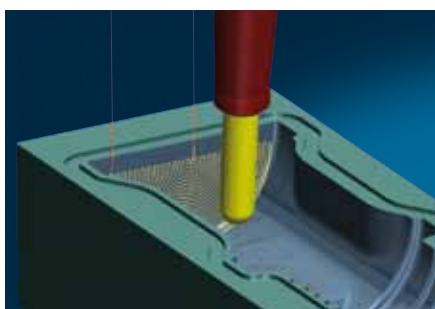
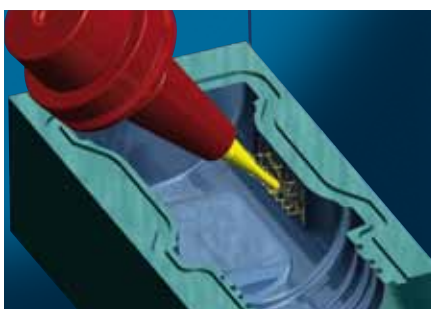


Bottle mould: Milled on a DMG HSC 55 linear with SINUMERIK 840D sl

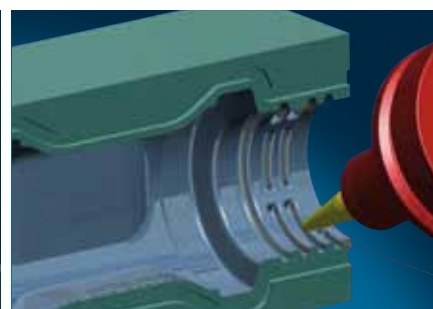
The *hyperMILL*® CAM software provides an extensive range of machining strategies, from 2D milling right through to 5axis milling. All strategies, including special applications, are available from a single interface, allowing milling tasks to be programmed flexibly and with ease. This bottle mould, for example, was machined by combining strategies from the Tube package as well as ISO machining, 5axis rest machining and contour milling.



Hub machining: Milling paths can be calculated independently from the tool position, which makes creating a program for every geometry a simple task. The tool positions are then taken into account in the 5axis rework cycle.

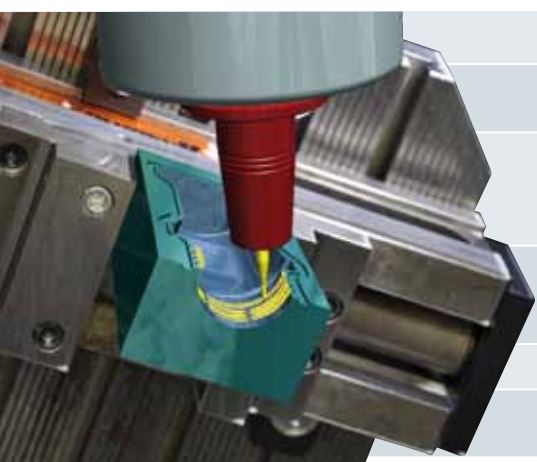


5axis contour machining: All that is required for machining is the definition of a reference contour. Engravings, contours and grooves do not need to be designed separately, thus eliminating time-consuming CAD programming of details.



5axis halfpipe machining: Using this strategy from the Tube package, grooves can be easily programmed and milled by defining a reference curve, regardless of the profile or cross-section involved.

Machine: HSC 55 linear



Main drive (motor spindle)	RPM range up to	28.000 min ⁻¹
Workspace	Rapid movement and feed rate Traverse path X/Y/Z	80 m/min 450/600/400 mm
NC swivelling rotary table	Clamping surface Tilt angle (A/B axis) C axis turning area Max. workpiece weight	400 x 400 mm -10° to +110° 360° 200 kg
Tool	Tool magazine Max. tool length/diameter Tool adapter	16 to 120 spaces 250 mm/ø 80 mm HSK-A63
Automation	Controller	SINUMERIK 840D sl
Workpiece	Dimensions Material	150 x 80 x 80 mm Aluminium

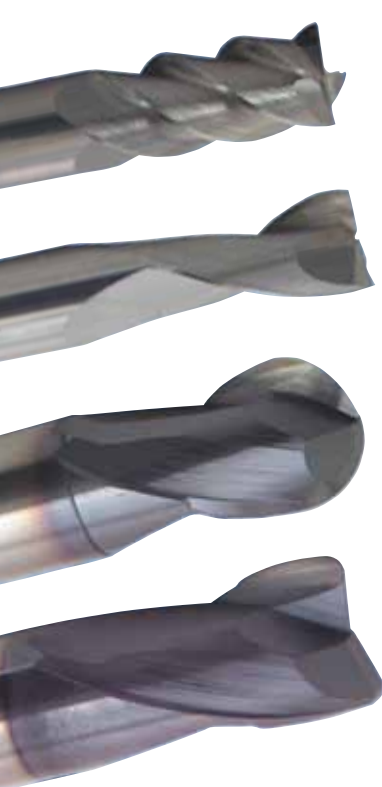
Modern Siemens controller technology for optimal milling



SINUMERIK MDynamics – Milling expertise in one package: SINUMERIK MDynamics combines the powerful SINUMERIK CNC hardware, intelligent CNC functions and a unique CAD/CAM/CNC process chain into technology packages for 3axis and 5axis milling at a competitive package price. The SINUMERIK MDynamics 3axis/5axis milling packages are available for the SINUMERIK 840D sl.

SINUMERIK Operate – The new user interface for efficient machine operation: The new SINUMERIK user interface is now more transparent and intuitive than ever. SINUMERIK Operate combines the established HMI-Advanced, ShopMill and ShopTurn software platforms in an integrated and innovative user and programming interface. Furthermore, SINUMERIK Operate is equipped with a variety of new and powerful features. This allows both sequence and high-level language programming to be combined in a single interface, thus enabling rapid, efficient and intuitive NC programming and job planning.

EMUGE-FRANKEN is a leading global provider of tools for high-performance cutting. Using HSC/HPC tools, productivity and the surface quality of workpieces can be significantly improved.



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