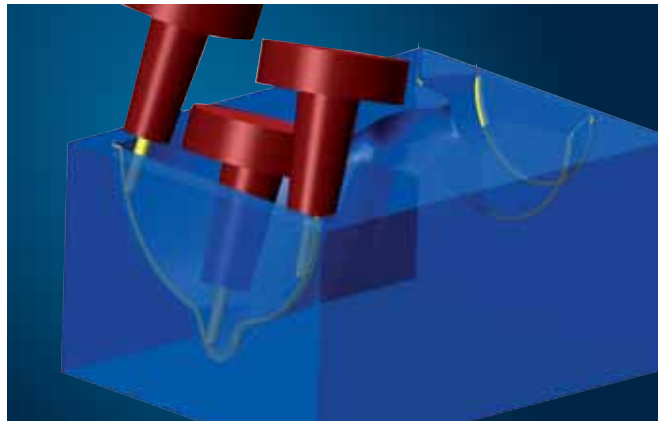


hyperMILL®

5AXIS

Mould for the Alessi Mandarin: Milled on a Hermle C 30U

hyperMILL® features an extensive range of 2D, 3D, and 5axis strategies as well as numerous optimisation functions. These facilitate the high-precision machining of a wide array of geometries and deliver excellent surface quality. For the milling of the Alessi Mandarin (lemon press) mould, milling, automatic indexing and 5axis simultaneous machining strategies were used.



5axis rest machining: This strategy combines automatic indexing with 5axis simultaneous milling. Here the operator selects the type of collision avoidance. The strategy then searches to determine each of the areas that can be milled in one operation using a fixed tool inclination. These are automatically machined using runtime optimisation.



Machine: Hermle C 30U

Main drive (motor spindle)	RPM range up to	18.000 min ⁻¹
Workspace	Rapid movement	60 m/min
	Traverse path X/Y/Z	650/600/500 mm
NC swivelling rotary table	Clamping area	Ø 630 mm
	Tilt/turning axis	25/65 min ⁻¹
	Max. table load	1.000 kg
	Tilt area	+30°/-115
Tool	Tool magazine	32 spaces
	Max. tool length	300 mm
	Max. tool diameter	Ø 90 mm
	Tool adapter	HSK 63
Animation	Controller	Heidenhain iTNC 530
Workpiece	Dimensions	210/160/100 mm
	Material	1.2343



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