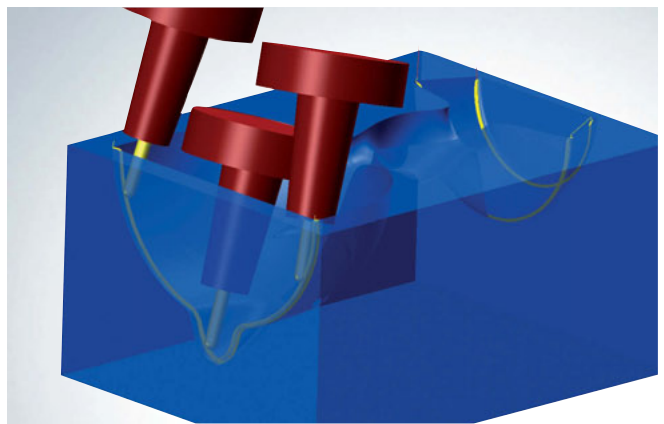


Mould for the Alessi Mandarin: Milled on a Hermle C 30U

hyperMILL® features an extensive range of 2.5D, 3D, and 5-axis 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 5-axis simultaneous machining strategies were used.



5-axis rest machining: This strategy combines automatic indexing with 5-axis 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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