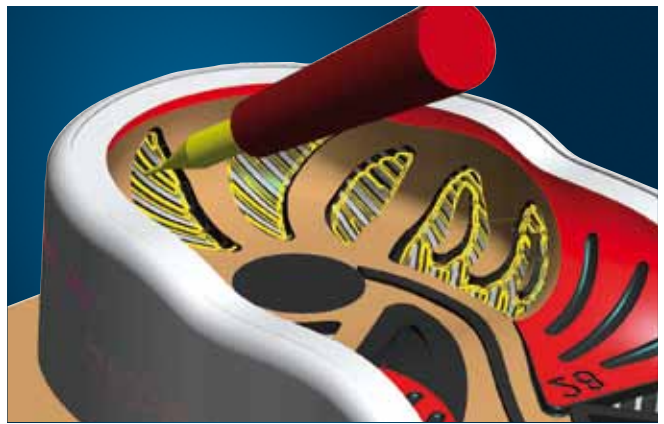


Shoe Sole: milled on a Hermle C30 U

hyperMILL® features an extensive range of 2D, 3D, and 5-axis strategies as well as numerous optimization functions. These facilitate the high-precision machining of a wide array of geometries and deliver excellent surface quality. 5-axis equidistant finishing, Z-level finishing with undercut machining, and 5-axis rest machining are all employed on this shoe-sole mold.



5-Axis Rest Machining with Auto-Indexing 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 optimization.



Machine: C 40 U dynamic

Main Spindle (motor spindle)	RPM range	10.000, 18.000, 24.000, 40.000 RPM ⁻¹
Workspace	Rapid traverse X/Y/Z (dynamic)	45/60 mm/min
	Traverse path X/Y/Z	650/600/500 mm
NC swiveling rotary table	Clamping surface	Ø 630 mm
	Drive configuration	Torque
	Tilt range	+30°/-115°
	RPM A/C axis	25/65 min ⁻¹
	Table load	unilateral transmission 600 kg Tandel drive 1000 kg
Tool changer	Magazine compartments	32 units
	Chip-to-chip time	approx 5,5 (4,5) s
Automation	Controller	HEIDENHAIN iTNC 530
Workpiece	Dimensions	103mm x 213 x 40mm
	Material	1.2343 54HRC



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