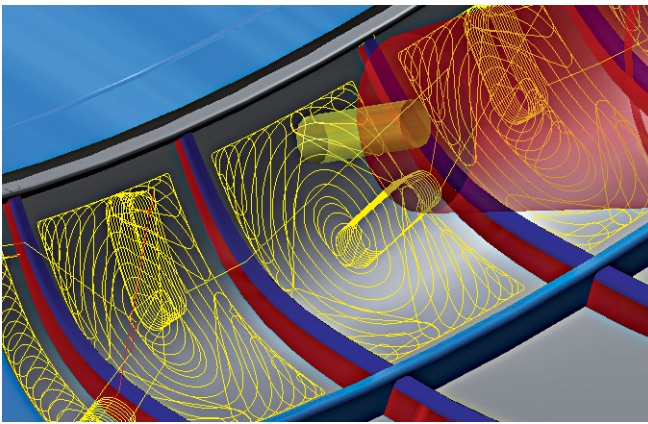
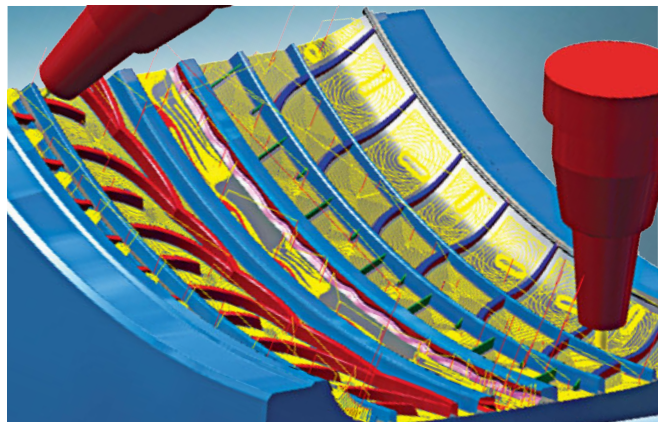


Tyre mould: Milled on a Heller FT 4000

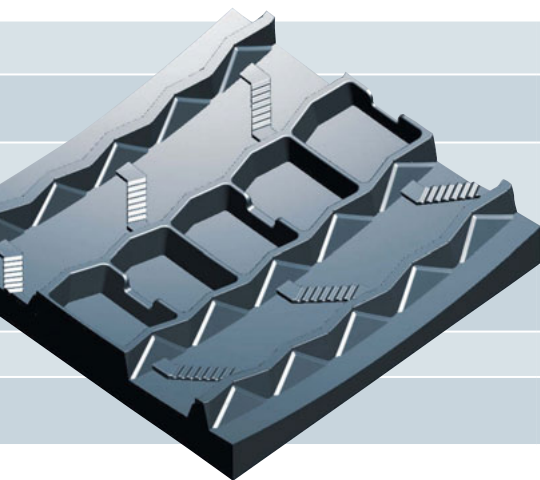
hyperMILL® CAM software provides a range of strategies for tool and mould manufacturing. These strategies include tool path optimisation by reducing undercut trimming, individual customisation of complete finishing jobs through manual selection, and easy handling of multiple allowances during rest machining. One of the highlights of this software is the 5-axis strategy for shape offset roughing and finishing.



5-axis shape offset roughing: With this strategy, curved surfaces can be machined with a consistent offset. The roughing stage can be completed very quickly because the hyperMILL® MAXX Machining strategy is also available here for high-performance roughing.



5-axis shape offset finishing: The options for rounding inner corners and for using automatic approach and retract macros during finishing ensure excellent surface finish. The formation of steps, a problem often encountered when using traditional strategies, is avoided.



Machine: HELLER FT 4000

Main drive	Spindle speed	up to 10.000 min ⁻¹
Machining area	Rapid traverse X/Y/Z dynamic Traverse path X/Y/Z	60.000/60.000/60.000 mm/min 800/800/1.000 mm
NC swivelling rotary table	Clamping area Turning area NC-controlled B-Axis Table load	Ø 900 mm 360° 100 min ⁻¹ 1.100/1.400 kg
Tool	Tool magazine Chip-to-chip time	80 tool 3,7 s
Automation	HEIDENHAIN	iTNC 530
Workpiece	Dimensions Material	220 x 220 x 60 mm Aluminium AlMg4,5Mn



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