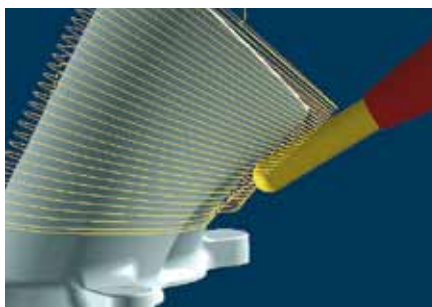


Intake port: milled on a DMC 60 T

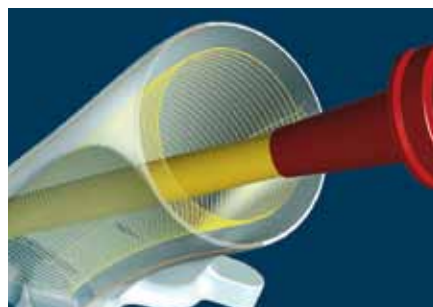
hyperMILL® provides a wide range of 2D, 3D and 5Axis-strategies for machining of simple up to complex work pieces. Even complicated components, like intake and exhaust ports for the racing cylinder heads, can be programmed with the hyperMILL® Tube Milling cycle quickly, safely and efficiently



Roughing on any Stock: Arbitrary stock roughing can be based on an initial stock model or the remaining stock after any operation. Further, this approach works from any tool orientation.



Undercut Machining: The 5Axis-cycles allowing a complete machining of difficult-to-access undercut areas in a continuous spiral movement. Thereby high quality surfaces are achieved.



Tube Milling: Complex and precise tubes can be programmed and machined in one set up. The cycle is designed to work on any surface patch as well as on digitized data.



Machine: DMC 60 T

Main drive (motor spindle)	RPM range	12.000 min ⁻¹
Workspace	Rapid traverse/feedrate X/Y/Z	50 min ⁻¹
	Traverse path X/Y/Z	31/22/22 mm
NC rotary table	Clamping surface	630 x 500 mm
	Max. Speed	98 min ⁻¹
	Controlled NC swivel milling head as B-Axis, swivel angel	-30°/+120°
	Max. NC-Table load	400 kg
Workpiece	3D contouring control	Heidenhain ITNC 530
	Dimensions	150x150x130 mm
	Material	Aluminium
Machining data	Tools	11 tools
	Machining time	94 min



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