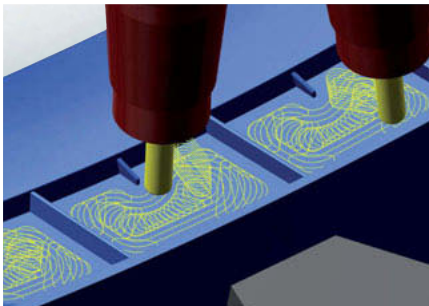
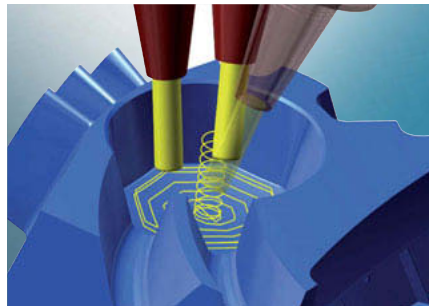


HPC-part: Milled on a DMC 80 U duoBLOCK®

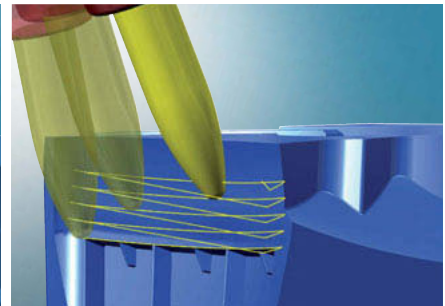
The *hyperMILL*® CAM software provides an extensive range of machining strategies, from 2.5D milling right through to 5-axis milling and mill turning. This allows you to completely create workpieces using one CAM program. High-performance 5-axis strategies and a wide range of functions including fully automated collision checking and avoidance, production mode job linking and transformations minimise programming time and ensure that machine running times are reduced.



5-axis shape-offset roughing: This strategy makes it possible to machine arched surfaces and program them in a time-saving manner. An automated feature ensures that the tool always works at the optimal angle to the surface.



Job linking: The job spanning linking function is available for 2.5D, 3D and 5-axis job steps. As a result, not only are the rapid link movements between the job steps checked for collisions, but many different machining strategies are combined into one optimised strategy.



5-axis radial tangential machining: This strategy helps to achieve smooth-finished surfaces with comparatively large stepdowns. Tool life is excellent: The highest level of dimensional accuracy can be guaranteed as the thermal growth of the spindle has no influence on peripheral milling.

Machine: DMC 80 U duoBLOCK®

Main drive (motor spindle)	Maximum spindle speed	18,000 rpm (SK 40/HSK 63)
	Traverse path X/Y/Z	800/1050/800 mm
Machining area	Fast travel	60 m/min
	Clamping area	Ø 800 x 630 mm
	Max. table load	1.400 kg/pallet
NC rotary table	Rotary speed	30 rpm
NC-controlled swivel head as B axis		30 m/min
Tool	Tool magazine	60 (vertical chain)
	Tool dimensions	Ø 120 x 550 mm
	Chip-to-chip time	3,8 s
Controller		HEIDENHAIN iTNC 530
Workpiece	Dimensions	160 x 160 x 55 mm
	Material	1.2312
	Workpiece	HPC part



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