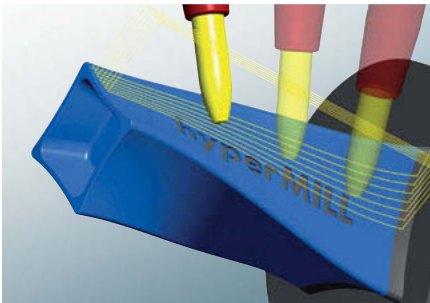


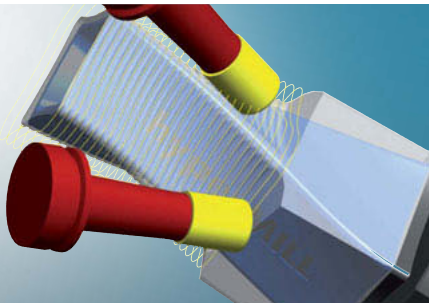
hyperMILL®

Pen holder: Milled on a DMC 65 monoBLOCK®

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 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.



5-axis rework: This converts 3D programs to 5-axis simultaneous programs. *hyperMILL*® calculates collision-free tool paths, including the alteration of tilt angles. Rapid link movements are reliably optimised with 5-axis technology.



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.

Machine: DMC 65 monoBLOCK®



Main drive (motor spindle)	Maximum spindle speed	18,000 rpm (SK 40/HSK 63)
	Traverse path X/Y/Z	650/650/560 mm
Machining area	Fast travel	40 m/min
	Clamping area	ø 650 x 500 mm
	Max. table load	500 kg/pallet
	Tilt range	± 120°
NC swivelling rotary table	RPM	40 rpm
Tool	Tool magazine	30 (chain)
	Tool dimensions	ø 160 x 315 mm
	Chip-to-chip time	5,1 s
Controller		Heidenhain iTNC 530
Workpiece	Dimensions	110 x 110 x 200 mm
	Material	Al Mg 4.5
	Workpiece	Pen holder



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