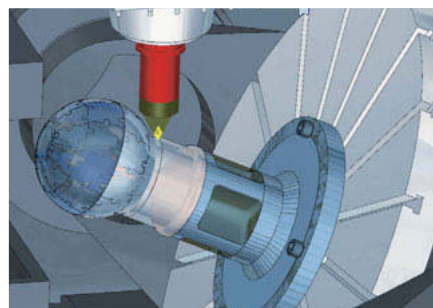


Puzzle ball: Mill and Turn in a single setup on a DMU65mB FD

hyperMILL® in hyperCAD® offers an extensive range of milling and design possibilities. Thanks to hyperMILL® and millTURN capability, it's possible to realize 2.5D to 5-axis milling toolpaths as well as turning operations in a single, cohesive environment. The integrated machine simulation allows the user to verify the toolpaths with the real machine kinematic, to simulate the material removal and also to check if there is any collision. This demo part shows well the programming power and flexibility of hyperMILL®.



millTURN: hyperMILL® makes possible to create, simulate and post-process milling and turning operations on complex parts in the same programming environment.

5-axis rework: hyperMILL® offers 5-axis automatic collision avoidance that considers the tool shank, the holder and the head of the machine.

Internal machine simulation: hyperMILL®'s Internal Machine Simulation verifies the milling and turning operations with the real machine kinematic and fixture.



Machine: DMU65mB FD

Main drive (motor spindle)	RPM range up to	18.000 min ⁻¹
Workspace	Rapid movement and feed rate	40 m/min
	Traverse path X/Y/Z	650/650/560 mm
NC swiveling rotary table	Clamping surface	Ø 650 mm
	Tilt angle (A axis)	-120° to +120°
	C axis RPM range	800 min ⁻¹
	Max. workpiece weight	600 kg
Tool	Tool magazine	30 to 180 spaces
	Max. tool length/diameter	315 mm/ Ø 160 m
	Tool adapter	HSK-63A
Automation	Controller	SINUMERIK 840D MT
Workpiece	Dimensions	Ø 160 x 201 mm
	Material	Aluminium



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