

## Casing: Milled on a MAG NBV 700 MT

*hyper*MILL® is a comprehensive CAM system whose turning and milling operations can be accessed from a single user interface. This allows you to completely program workpieces like this engine case using one CAM program. Innovative 5axis strategies and a wide range of functions including mirroring, transforming and job linking minimise programming time and ensure that machine running times are reduced. In addition, the CAM program as well as all turning and milling operations can be converted into an NC program using a single postprocessor.



**Turning:** The *mill*TURN turning module is seamlessly integrated into *hyper*MILL<sup>®</sup>. Functions like the tool database, stock management or job list are all available. Turning and milling operations can be flexibly combined.



**5axis Shape offset roughing and finishing:** This new 5axis strategy makes it possible to conveniently machine arched surfaces and program them efficiently. An automated feature ensures that the tool always works at the optimal angle to the surface.



**Transforming and mirroring:** Once a segment has been fully programmed, programs for additional segments can be generated very quickly using the transformation and mirroring functions.



## Machine: MAG NBV 700 MT

Main drive (motor spindle)	Maximum spindle speed	12,000 rpm
Machining area	Rapid traverse X/Y/Z Traverse path X/Y/Z	60 m/min 700/635/500 mm
Tilting rotary table	Clamping surface Tilt axis range (A axis) A/C axis speed Table load	Ø 450 mm +90° to –120° 80/1.000 rpm max. 250 kg
Tool changer	Tool magazine	40
Workpiece	Dimensions Material	Ø 233 and 394 mm/height 212 mm AL 7075 (Aluminum 7075)
Controller	Siemens SINUMERIK	840D si



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