

Die casting mould: Milled on a Grob G350

hyperMILL® provides a wide range of 2D, 3D and 5axis strategies for excellent machining of workpieces with high domes and undercut areas. The optimised 5axis strategy for cavity machining enables 5axis simultaneous milling with short tools, better process parameters and increased process reliability.



5axis simultaneous milling: 5axis equidistant finishing achieves high-machined surface quality through the continuous machining of steep and flat areas. The stepover between the machining areas is carried out in a spiral. Rest machining with the expanded 5axis fixed inclination function automatically searches for a fixed inclination for the entire area or for several fixed inclinations in partial areas that will be machined in a single operation.

Machine: Grob G350



Main drive	Spindle	18.000 min ⁻¹
Workspace	Rapid movement / feedrate X/Y/Z Traverse path X/Y/Z	65/42/90 m/min 600/770/675 mm
NC swivelling rotary table	Clamping area Tilt area (A) Turning area (C) Max. tool weight	Ø 570 mm -180°/+60° 360° 380 kg
Tool	Tool magazine Max. tool length Max. tool diameter Tool adapter	40 spaces 365 mm 160 mm HSK-A63
Automation	Controller	iTNC530 Heidenhain
Workpiece	Dimensions Material	350/200/150 mm 1.2312