Injection mould for a skiing boot: Milled on a Hermle C 40U dynamic

hyperMILL® provides a wide range of 2.5D, 3D and 5-axis strategies for fast, reliable machining of complex workpieces with undercut areas. The number of job steps is reduced significantly through the use of 5-axis technology. The post-processing required to produce the specified surface quality is minimal. Both programming and machining times are reduced.

5-axis finishing: Fully automated collision avoidance allows for shorter tool paths, conical tools and tools with thickened shafts. Compared to fixed-angle milling, continuous movement cycles produce superior surface quality.

Machine: Hermle C 40U dynamic

Main drive (motor spindle) RPM up to 18,000 min⁻¹

Workspace Rapid linear Traverse path X/Y/Z 45/60 mm/min 850/700/500 mm

AC-Tabel Clamping surface Max. workpiece weight ø 420 mm 450 kg Tilt range +91°/−139° Speed A/C axis 55/65 min⁻¹

Controller Heidenhain iTNC 530

Workpiece Dimensions Material 320/130/320 mm Aluminium