



UNIMAX 1000-XL 5-Axis Universal Machining

Machine Configuration

- universal 5 axis milling machine
- column moves side to side (X-axis), ballscrew
- table carrier moves front to back (Y-axis), ballscrew
- spindle headstock moves vertically (Z-axis), ballscrew
- milling head mounted at 45 degrees rotates spindle past vertical and horizontal (B-axis), direct drive
- rotary table is mounted to table carrier (C-axis), direct drive
- full enclosure with dual doors that fully open and meet in front corner

Performance Features

- direct drive B-axis / swivel head with hydraulic clamping
- direct drive rotary table with hydraulic clamping
- HSK A63 cartridge spindle with 18,000 rpm standard
- 90 tool ATC
- moving column X-axis design with 55 mm wide linear rails equipped with roller bearings for maximum rigidity
- heavy cast iron construction
- Heidenhain linear scales on X, Y and Z-axes, Heidenhain rotary encoders on b axis

Choice of CNC

- Heidenhain TNC-7
- Siemens SINUMERIK ONE
- Heidenhain or Blum probing

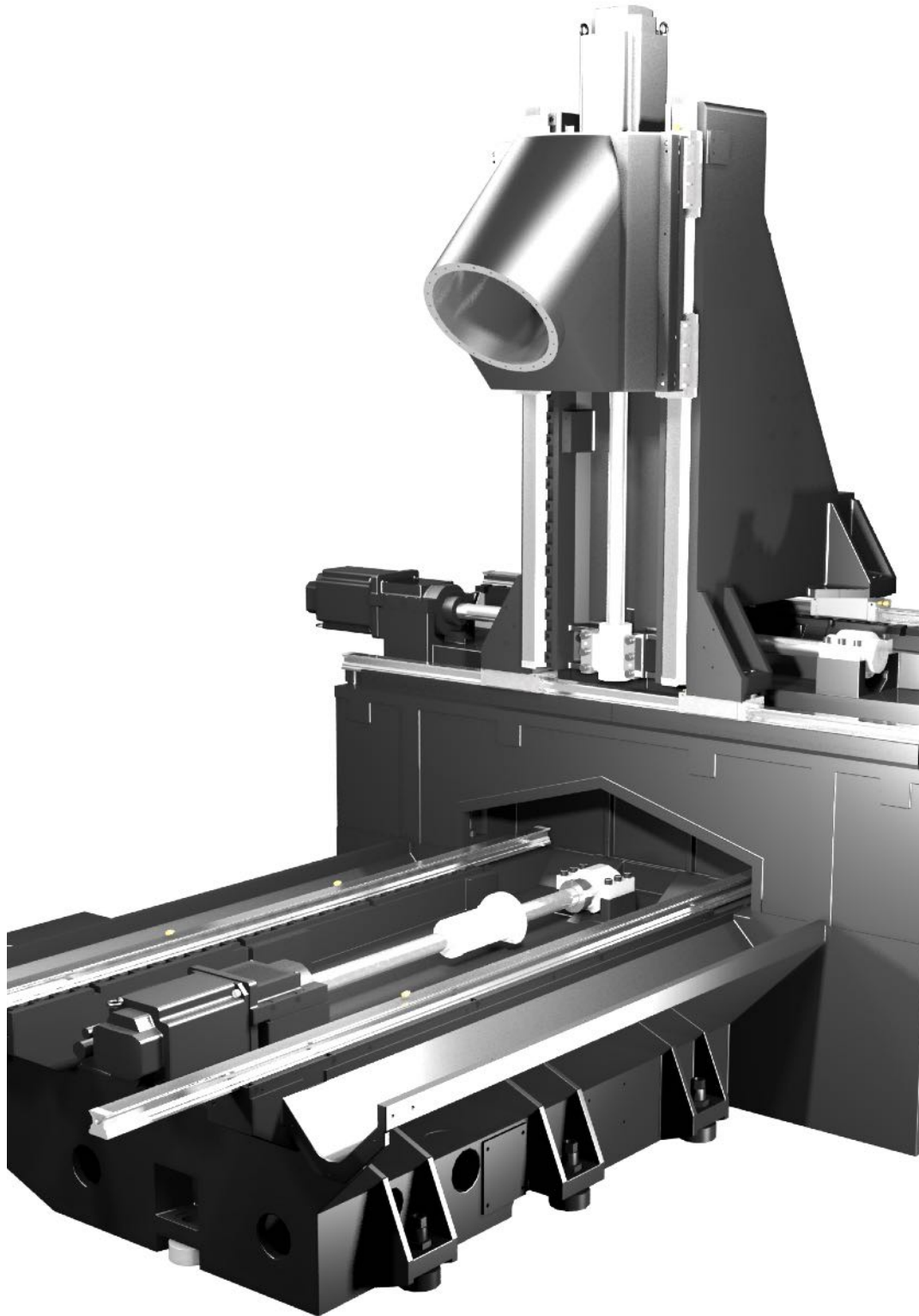
Standard Accessories

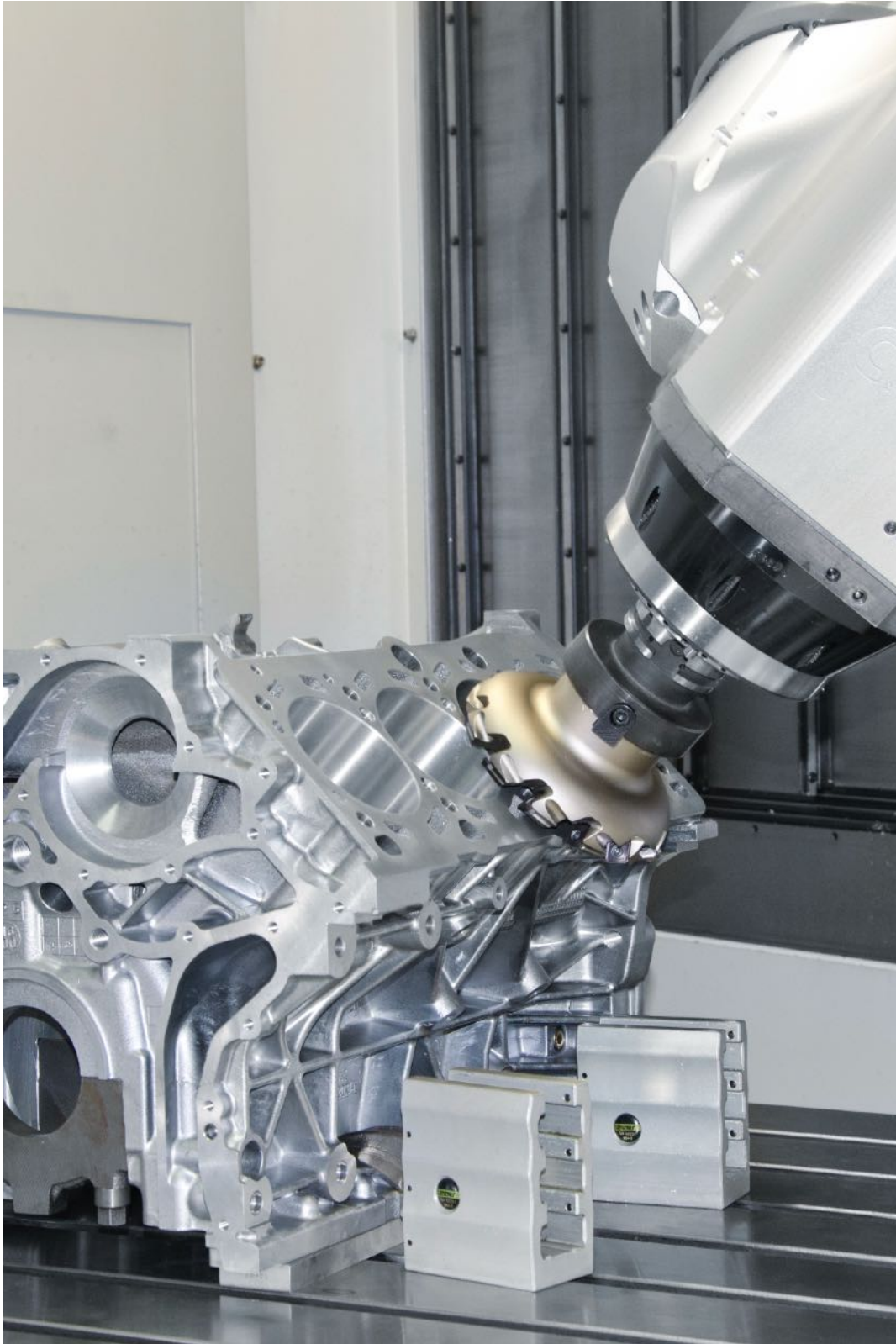
- high pressure coolant through spindle and hose ports
- mist extractor with coolant recovery
- waterproof led lighting in cabin
- chip conveyor and bin



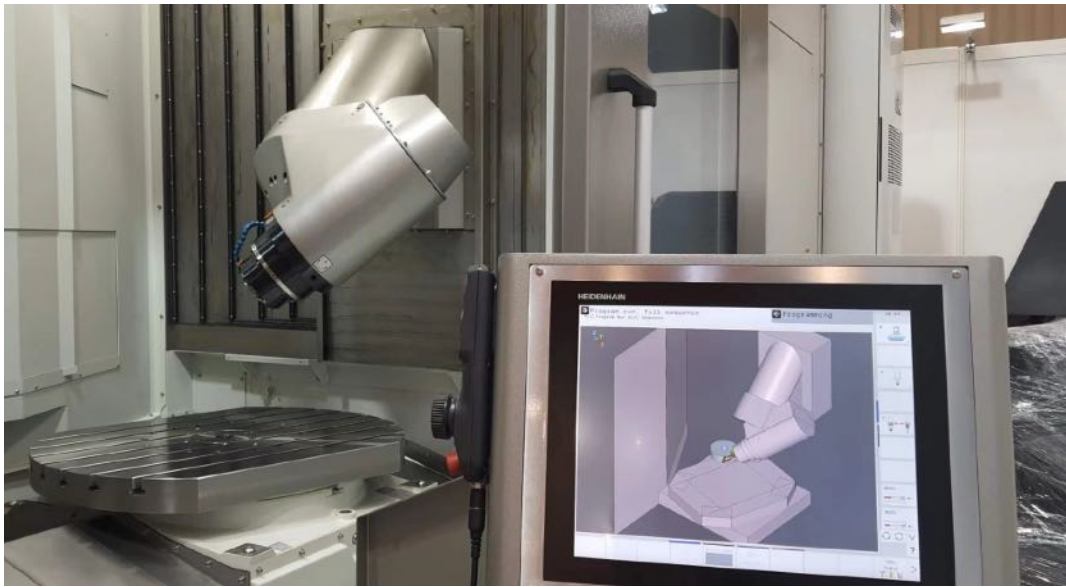














UNIMAX 1000 XL Specifications

X-Axis	1,000 mm
Y-Axis	1,150 mm
Z-Axis	700 mm
Table Size	1000 mm diameter
Table Capacity for Milling	1,500 kg
Maximum Swing Diameter or Workpiece	1200 mm
Maximum Milling Feed	24 Meters / minute
Automatic Tool Changer	90 Tools
ATC Max Tool Dia / Length / Weight	120 mm / 300 mm / 8 kg



UNIMAX 1000 XL B-Axis and Spindle Specifications

B-Axis Configuration	Torque Motor Direct Drive, Hydraulic Clamping, Cartridge Spindle
B-Axis Rotation	+/- 180°
B-Axis Rotation Speed	15 rpm
B-Axis Position Accuracy	.001 degree
B-Axis Position Force	1,500Nm
B-Axis Clamping	Hydraulic
Spindle Size:	HSK A63
Bearing Type	Grease
Spindle Speed: 18,000 rpm	18,000 rpm
Spindle Power:	26 kW S1 / 32 kW S6
Spindle Torque:	124 Nm S1 / 154 Nm S6



UNIMAX 1000 XL C-Axis / Rotary Table

C-Axis Configuration	Torque Motor Direct Drive, Hydraulic Clamping
C-Axis Rotation	Infinite (Equipped with Slip Ring and Rotary Union)
C-Axis Torque (Rated / Peak)	1,010 Nm / 1,730 Nm
C-Axis Clamping Force	2,800 Nm
C-Axis Weight Capacity Milling	1,500 kg
C-Axis Max Rotation Speed	50 rpm
Optional Integrated Clamping System	Hydraulic Zero Point Pallet Clamping System

