

PREMIUM micro 1010

High-precision 5-axis microprocessing with optional automation for almost every material!

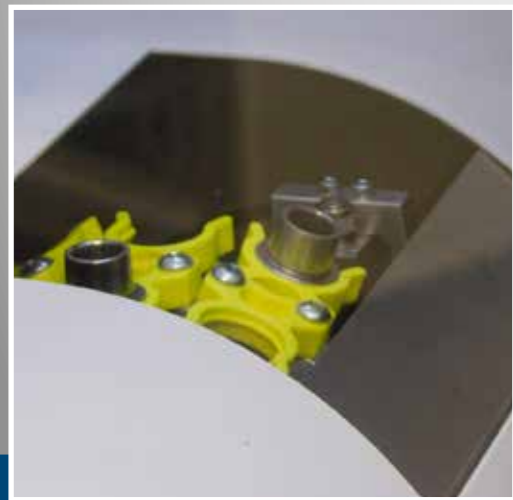


Highlights

- Torque drives in A/B axes Heidenhain® measuring systems
- Linear motors in X/Y/Z axes
- 5-axis operation
- Clear user guidance according to industry standard
- Simple interface adjustments for further automation guaranteed
- 32-times tool changer
- EROWA zero point clamping system
- Granite bearing

Options

- EROWA workpiece pallets
- Hand-held operating unit / joystick
- 3D measuring switch
- Automatic workpiece changer for series production with robot connection
- Zero point clamping system tool holders
- Flush cooling



Application examples

- Microprocessing
- Fine mechanical processing
- Medical engineering
- Electronic industry
- Watch industry
- Automotive supplier industry
- Tool/mould construction

Typical materials

- Stainless steel
- Graphite
- Copper
- Steel
- Titanium
- Aluminium
- Plastics
- Hardened steel
- Ceramic
- Special materials



The new **PREMIUM 1010 micro** precision machine is predestined for manufacturing small parts as individual or series parts. The 5-axis HSC milling system has the additional option of connecting automation systems such as handling systems or robots for unmanned production. Thanks to expanded control and communication possibilities, it is possible to integrate different automation units and to control these autonomously in the production process. In order to guarantee extreme stiffness and precision for the machine, the machine's base structure has also been constructed from steel and polished hard rock. The polished natural granite was manufactured according to DIN 876 / quality 00 and used as the bearing material for all linear axes. This enables precise long-term stability and extensive temperature independence.



Technical data	PREMIUM 1010 micro
Dimensions (W x D x H) in mm	785 x 1100 x 1940
Design	Steel/granite construction
Weight in kg	approx. 870
Travel ranges (X / Y / Z A / B) in mm	100 / 100 (285 up to WZW) / 150 / 360° / 120°
Repetition accuracy in µm	0,5
Positioning accuracy in µm	± 0,02
Resolution in µm	0,5
Drive motors	Linear motors (X / Y / Z) and torque motors (A / B)
Main spindle drive Pmax.	High frequency spindle with 3,2 kW / 50,000 rpm
Connection voltage	16 A / 400 V
Control	5-axis Logosol
Operation	CNC operating panel with 15" touchscreen monitor and operating keys
Software	WIN©-REMOTE / isyCAM 2.8 (optional isyCAM 3.6)

Machine dimensions without additional accessories.
Travel ranges without processing unit and other attachments (tool changer, length measuring switch, etc.).