



OptoTech

WZM 150 CNC

CNC-Controlled High Precision and Flexible Centering Machine

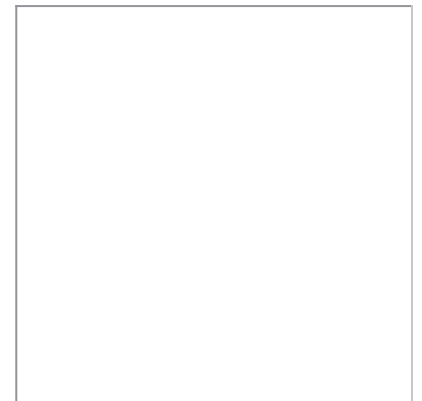
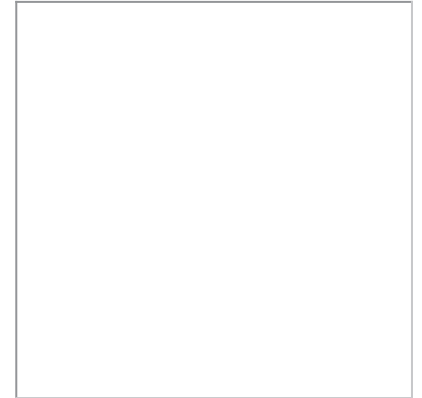


The WZM 150 CNC is a CNC controlled universal centering machine for optical components. The machine is working in exchangeable pin or exchangeable spindle mode.



Technical data

| | WZM 150 CNC |
|--|---|
| Application | Edging in Highest Precision |
| Working Range Diameter (depending on tool) | 10 mm - 150 mm |
| Axis X | 0 mm - 200 mm |
| Axis Z | 0 mm - 100 mm |
| Additional B-Axis (WZM 150 CNC-B) | Speed: 1000 - 5000 rpm infinitely variable; Travel: +45° /- 90° |
| Amount of Axes | 2 (X, Z) C-Axis on option |
| Control | Siemens Sinumerik 840 D Solution Line |
| Cutting Speed | 0 - 30 m/s variable speed |
| Feed Rate | 0.001 - 5000 mm/min |
| Positioning Accuracy | ± 0.001 mm (1µm) |
| Tool Diameter | Ø 120 - Ø 180 mm |
| Tool Spindle | Speed: 1000 - 6000 rpm, infinitely variable; Interface: Shaft with sleeve Ø 30h5 x 20 mm |
| Vacuum | -0.7 bar |
| Air Pressure Requirement | 6 bar |
| Power Requirement (others on request) | 12 kW / 400 V / 50Hz |
| Dimensions | Width: 1600 mm, Height: 2000 mm, Depth: 1800 mm |
| Weight (approx.) | 3900 kg |
| Disclaimer | All data are subject to change without notice. Please verify details with OptoTech. |





Highlights

- Designed for centering operations with maximum precision and flexibility
- The concept of an exchange spindle edging machine has been incorporated into a modern horizontal CNC machine base. This enables easy loading of spindle/workpiece units into a machine with ideal processing kinematics
- The lenses can be aligned and blocked on the optional AZP 200 HP blocking unit. The spindle, with the optic already attached, is then transferred into the WZM 150 CNC for an edging process of highest precision
- OptoTech offers the WZM 150 CNC to use a standard \varnothing 42 mm spindle, however, the machine may be adapted to existing spindle designs allowing the use of tooling already on hand
- All available centering spindles can be adapted
- Machine base made of granite, a naturally stable material with low elasticity and thermal expansion properties
- All linear axes are equipped with linear drives and Heidenhain absolute scales, guaranteeing maximum precision, flexibility and reliability of operation

System advantages

- Designed for maximum precision and flexibility for centering operations
- Easy loading of spindle/workpiece units into a machine with ideal processing kinematics

Options

- C-Axis Package for Truncations
- Workpiece Table with Integrated B-Axis (WZM 150-B)
- Optional AZP 200 HP blocking unit