



OptoTech

DZM 20 CNC

CNC-Controlled Centering Machine for Microoptics

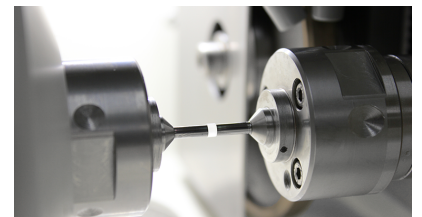
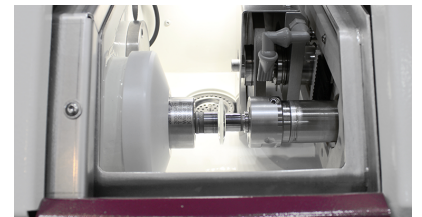


The DZM 20 CNC is a compact and easy to operate CNC controlled centering machine especially suited for super micro-optics and endoscopes. Clamping of the lenses using clamping bells or HD 12 runners.



Technical Data

	DZM 20 CNC
Application	CNC Controlled Centering Machine for Edge Processing of Spherical Lenses, Rods and many more
Working Range Diameter	0.5 mm - 20 mm
Axis X	0 mm - 37
Axis Z	0 mm - 54
Amount of Axes	3, with 2 CNC-Axes (X, Z)
Clamping Technology	Bell clamping mode or HD12 runners (HD6 adaptor available)
Control	Beckhoff CNC controller
Tool Spindle	Travel: 37mm in X; 54 mm in Z; Speed: 0 - 4800 rpm, infinitely variable; Drive: AC Servo Drive; Interface: Flange (clamping mandrel Ø20mm)
Working Range Centering Wheel	Ø 120 mm
Workpiece Spindle	Travel: 56 mm; Speed: 0 - 250 rpm, infinitely variable
Air Pressure Requirement	5 bar
Power Requirement (others on request)	2.1 kVA / 400 V / 50 Hz
Dimensions	Width: 930 mm, Height: 1450 mm, Depth: 740 mm
Weight (approx.)	380 kg
Disclaimer	All data are subject to change without notice. Please verify details with OptoTech.





Highlights

- CNC-controlled centering machine for edge processing of spherical lenses, rods and plano optics
- Clamping of the lenses in bell clamping mode or plug centering mode (HD12)
- 3-axis version: 2 CNC axes (X-Z axis) for moving the cross slide with grinding wheel, 1 axis for center thickness measurement and compensation (clamping spindle)
- Horizontal axis arrangement
- Workspace with automatic opening, intended for manual and automated loading
- Beckhoff CNC-Controller, based on Microsoft Windows with 15,4" touchscreen

Performance Characteristics

Grinding processes:

1. Diameter of the lens with bevel on form centering with individually adjusted feeds and speeds
2. Any angle or radius bevel possible with 90° or non-shaped tool
3. Contour bevel possible by using the tool edge
4. Chamfer with form wheels in oscillation mode
5. Grinding of shoulders in plunge grinding mode

Options

- HD6
- Robot Solution SR20 for automated Un-/Loading (SR 20)