



OptoTech

# DZM 20 CNC

CNC-Controlled Centering Machine for Microoptics

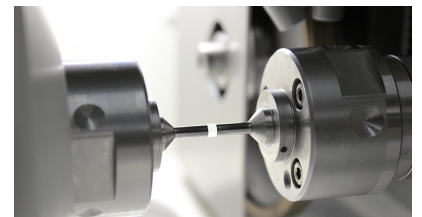
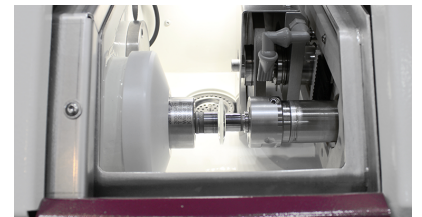


The DZM 20 CNC is a compact and easy to operate CNC controlled centering machine especially suited for super micro-optics and endoscopes. Clamping of the lenses using clamping bells or HD 12 runners.



## Technical Data

	DZM 20 CNC
Working Range Diameter	0.5 mm - 20 mm
Axis X	0 mm - 37
Axis Z	0 mm - 54
Clamping Technology	Bell clamping mode or HD12 runners (HD6 adaptor available)
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



## 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)



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