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ZM 200 CNC-TC

Centering Machine for Edging of Spherical and Aspherical Lenses

The ZM 200 CNC-TC is a simultaneously working edge processing machine in highest precision. The high quality software module allows even the production of complex edge geometries.

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Technical data

	ZM 200 CNC-TC
Application	Centering Machine for Edging of Spherical and Aspherical Lenses
Working Range Diameter (Depends on Centering Tool)	10 mm - 300 mm
Axis X	0 mm - 125 mm
Axis Z	0 mm - 150 mm
Amount of Axes	5 (X1, X2, Z1, Z2, W) - C-axis on option
Centering Spindles (top and bottom)	Ø 60h4 x 300 mm
Cutting Speed	0 - 30 m/s, variable speed
Tool Diameter	Ø 120 - 200 mm
Tool Spindle	Speed: 0 - 5600 rpm, variable speed; Interface: Shaft with sleeve, Ø 30h5 x 20 mm
Workpiece Spindle	Speed: 5 - 150 rpm, variable speed; Interface: Hydro Expansion Chuck Ø 25h4 x 40 (DIN); Ø 40h4 x 60 (DIN) (Option)
Vacuum	-0.7 bar
Air Pressure Requirement	6 bar
Power Requirement (others on request)	6 KW
Dimensions	Width: 1700 mm, Height: 2200 mm, Depth: 1400 mm
Weight (approx.)	2200 Kg
Disclaimer	All data are subject to change without notice. Please verify details with OptoTech.

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Highlights

- Centering and edging with CNC quality
- High precision bell clamping centering machine in highest quality that considers all requirements of the modern optical workshop
- Bell clamping method with OptoTech Hydro-Soft centering for the most precise centering, even for small centering angles
- 2 tool spindles (TwinCut) with simultaneous processing for cycle time savings up 30-40%
- Centering of blocked lenses using the interchangeable arbor process
- Edging spindles are mounted in a torsion resistant cast iron "box-in-box" system that assures maximum accuracy
- Automatic program correction by measuring the center thickness
- Combined recess and correction cuts with individually adjustable feed rates and speeds of rotation allow even complex processing steps to be peformed without having to change tools
- Simple tool changing due to the clamping system used. Tools comply with DIN standards.

Options

- Laser centering device for transmission and reflection for lenses with a small clamping angle
- C-Axis package for truncations, profiling etc. and processing non-rotationally symmetric lenses
- Camera for monitoring pre-profiled workpieces while loading
- HD 40 Chuck for the lower spindle

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