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ASP 200 CNC-B

CNC-Controlled Polishing Machine for Pre-Polishing and Fine Correction of Aspheric Surfaces



The OptoTech 4-axis polishing machine ASP 200 CNC-B is a basic, but universal usable polishing machine for spheres, aspheres as well as 3D-surfaces.

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Technical Data

	ASP 200 CNC-B
Application	Polishing Machine for Spherical, Aspherical and Freeform Surfaces
Working Range Diameter (aspheres)	10 mm - 220 mm
Working Range Diameter (SynchroSpeed Mode)	10 mm - 120 mm
Travel B	-55 ° - 55 °
Travel C	- 360 °
Travel X	0 mm - 380 mm
Travel Z	0 mm - 150 mm
Amount of Axes	4 (X, Z, B, C)
Control	Siemens Sinumerik 840 Digital Solution Line
Feed Rate Axes	X: 0 - 10000 mm/min; Z: 0 - 7500 mm/min; B: 0.01 - 3000°/min; C: 0 - 2000 mm/min
Repeatability Axes	X: ± 0.001 mm; Z: ± 0.001 mm; B: ± 2“; C: ± 13”
Tool Spindle	Speed: 0 - 2000 rpm; Interface: HD-Chuck Ø25
Workpiece Spindle	Speed: 0 - 2000 rpm; Interface: HD-Chuck Ø25
Vacuum	-0.7 bar
Air Pressure Requirement	5 bar
Power Requirement (others on request)	13 kVA
Dimensions	Width: 1780 mm, Height: 1990 mm, Depth: 1830 mm
Weight (approx.)	2400 kg
Disclaimer	All data are subject to change without notice. Please verify details with OptoTech.

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Highlights

- 4 axis CNC controlled oscillation in the asphere centre point
- 1 vertical workpiece spindle and 1 horizontal spindle for polishing tools
- High dynamic servo drives in all axes
- OptoTech AspheroSpeed® Polishing Technology
- Processing with form tools (spherical surfaces) or zonal topographic tools (aspheres)
- Short set-up times due to Microsoft Windows operating system with OptoTech user interface and optional OptoTech PolyCAM software package

System Advantages

- Optimized machine kinematics for processing aspheres with very reproducible results
- Rigid, low torsion machine construction on a low vibration cast iron basis
- Working room Teflon coated for easiest cleaning
- Quick and precise tool change due to Hydro-Expansion Chuck Technology
- Short set-up times due to Microsoft Windows operating system

Options

- OptoTech PolyCAM software package
- Remote diagnosis technology
- Interface to Modern Profile Measuring Systems (e.g. Taylor Hobson Talysurf PGI Series, Mahr MarSurf

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