



OptoTech

PPM 301 CNC

Precision Polishing Machine for Optics up to \varnothing 300 mm



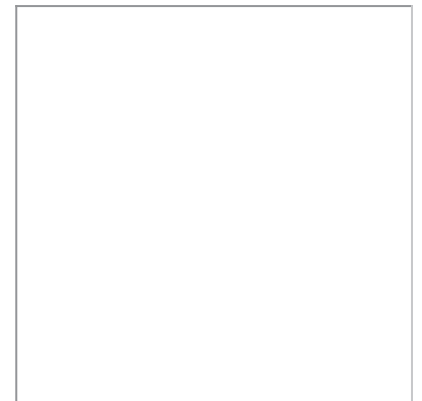
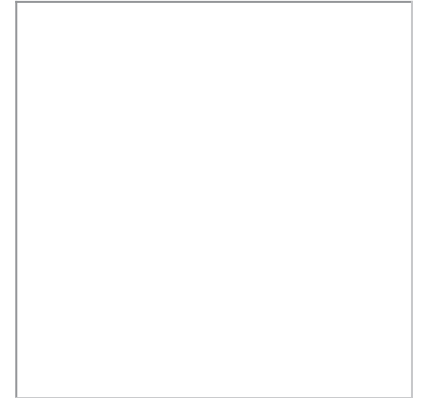
The PPM 301 CNC is a high-end polishing machine for the production of high precision lenses with integrated dressing technology for polishing tools.



OptoTech

Technical data

	PPM 301 CNC
Application	Precision Polishing Machine for Optics up to \varnothing 300 mm
Working Range Diameter	80 mm - 300 mm
Working Range Radius	\pm 60 mm - ∞
Travel B	-63 ° - 63 °
Travel X	-250 mm - 250 mm
Travel Z	0 mm - 400 mm
Control	Siemens Sinumerik 840 D CNC Solution Line
Tool Spindle	Speed: 0 - 650 rpm; Interface: Flange; HD 40 on option
Workpiece Spindle	Speed: 0 - 1500 rpm; Interface: Flange; HD 40 on option
Vacuum	-0.7 bar
Air Pressure Requirement	6 bar
Dimensions	Width: 1450 mm, Height: 2290 mm, Depth: 2300 mm; Without operating panel
Weight (approx.)	3100 Kg
Disclaimer	All data are subject to change without notice. Please verify details with OptoTech.





Highlights

- Polishing of 2D aspheres
- 2D corrective polishing of spheres and aspheres
- High dynamic AC servo drives for all axes
- Machine base made of cast iron for higher rigidity
- Quick and precise tool change due to Hydro-Expansion Chuck Technology (Ø 40 x 62 mm DIN)
- Optimisation of the polishing process due to auto correction during polishing cycle (form error correction)
- Operating system with graphical OptoTech user interface
- Design according to latest EMV and CE regulations

System advantages

- Advanced polishing technologies
- Optimized polishing process due to auto correction
- Robust machine base with higher rigidity

Performance characteristics

Polishing Technologies:

- OCT (OptoTech Correction Technology): integrated polishing tool correction technology
- AST (Advanced Setup Technology, Touch Setting): Machine measures the contact point of lens/tool; decreasing set-up time
- ORT: OptoTech Reverse Technology: Polishing tool sits on lower spindle; polishing pressure can be reduced down to zero, so that the lens is polished out under its own weight, causing less deformation and resulting in a much better fringe irregularity pattern

Options

- HydroSpeed® Polishing Technology
- C-Axis
- Polishing of 3D aspheres
- 3D corrective polishing of spheres and aspheres
- Offline Programming Module