



OptoTech

ASM Rx-A

Automated High Precision Fine and Finest Grinding of Freeform Surfaces

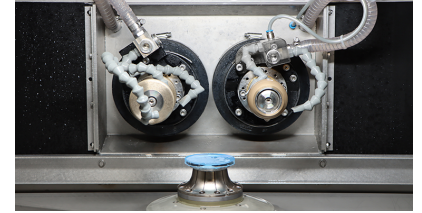


The OptoTech 4-axis generator ASM Rx-A is the ideal universal automatic grinding machine for ophthalmic mineral lenses. Spheres, aspheres, torical, A-torical up to free form surfaces can be produced in highest precision and accuracy. The machine offers high quality grinding due to 2 interpolating axes.



Technical data

| | ASM Rx-A |
|--|--|
| Application | Automated High Precision Fine and Finest Grinding of Mineral Lenses |
| Working Range Diameter (depending on aperture angle) | 50 mm - 70 mm |
| Working Range Radius cc | Depending on tool diameter |
| Working Range Radius cx | 40 mm - ∞ (with standard tools) +12 dpt. - plano |
| Control | Beckhoff TwinCAT 3 (15" touch screen) |
| Lens Material | Mineral Glass |
| Productivity | 6 lenses/h |
| Tool Spindle | Speed: 10000 rpm (Pre-Grinding Tool 1+2); Interface: HSK Chuck |
| Tool Spindle | Speed: 4000 rpm (Fine Grinding Tool 3); Interface: HSK Chuck |
| Workpiece Spindle | Speed: 0 - 6000 rpm; Interface: Collet chuck ø43 mm DIN 58766 |
| Air Pressure Requirement | 6 bar |
| Power Requirement (others on request) | 12 kW / 400 V / 50 Hz |
| Dimensions | Width: 1275 mm, Height: 1720 mm, Depth: 2035 mm |
| Weight (approx.) | 1850 kg |
| Disclaimer | All data are subject to change without notice. Please verify details with OptoTech. |





Highlights

- For processing the backside–progressive ophthalmic lenses including edging (elliptic and chamfer), like progressive, spherical, toric, a-toric and prismatic surfaces, convex and concave, made of silicate glass as well as organic plastic
- High prismatic surfaces possible due to unique kinematics
- Up to 4 grinding tools in 2 tool spindles possible. For rough, medium, fine and finest grinding.
- High speed single surface processing of any lens shape (depending on tool diameter)
- Automatic loading unit for fully automatic grinding process
- Short set-up times due to Microsoft Windows operating system with OptoTech user interface
- Quick and precise tool change due to HSK Chuck technology for Combitool and singletool variation
- Implementation of wear improvement. Machine automatically calibrates itself from glass to glass.
- Adaptive toolwear
- Automatic torque control for reduced processing time

Options

- Automatic or manual version with smallest footprint available
- Barcode hand scanner
- Remote diagnostic
- LAN connection