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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.

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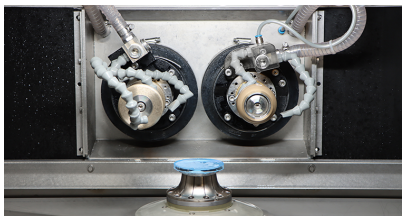
Technical Data



	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.

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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 controll for reduced processing time

Options

- Barcode hand scanner
- Remote diagnostic
- LAN connection

Valid: 04.11.2026, subject to change without notice

OptoTech Optikmaschinen GmbH
Sandusweg 2-4 | 35435 Wettenberg / Germany | T +49 641/49939-0 | info.de@optotech.net | **optotech.net**