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RPL 30

Flexible Robot Solution for Single Surfaces (up to Ø20mm) as well as Lenses on Cementing Pieces



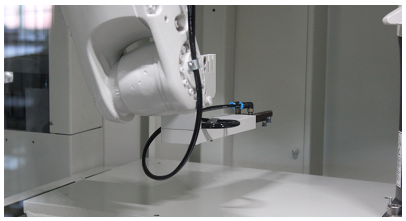
The RPL 30 is the high performance robot solution from OptoTech, that allows automatic loading and unloading of the SM 30 CNC generator and the SPO 30 CNC polisher. The RPL 30 can handle single surfaces (up to Ø20mm) as well as lenses on cementing pieces.

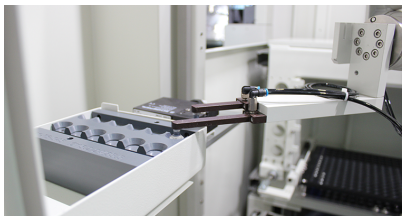
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Technical Data

	RPL 30
Working Range Diameter	8.8 mm - 20 mm
Positioning Accuracy	± 0.02 mm
Application	Simultaneous Loading and Unloading of up to 2 Machines
Load	up to 10.9 Kg
Power Requirement (others on request)	32 A / 9 kVA / 400 V
Disclaimer	All data are subject to change without notice. Please verify details with OptoTech.







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Highlights

- Operation: 6-axis robot with controller, integrated into the machine's automatic process via interface
- Safety: Advanced safety features and smooth, precise movements for gentle lens handling. Full RPL-machine networking via latest IoT standard.
- Double suction cup for very fast changing times. The teflon coating of the suction cup minimizes the carryover of polishing agents.
- Large lens storage: Up to 5 drawers, each holding 2 large (300 × 400 mm) or 4 small (300 × 200 mm) DIN pallets; manually extendable for loading
- 3-point gripper with interchangeable jaws for precise lens centering prior to machine loading
- 2 ejection drawers (on option): Lenses can be ejected for measuring. No interruption of the robot is necessary for this.
- Dip tank (optional): Holds up to 4 pallets, with water circulation, ultrasonic cleaning, and automatic filling/ emptying
- Washing station (on option): Recommended for connected polishing machines. The lens is held in a vertical position by a 3-point gripper for the best possible cleaning and drying of both lens sides. The cleaning process is carried out through a special nozzle (water and air).

Performance Characteristics

Range of Functions:

1. Pick up of the lens from the lens storage (DIN pallet)
2. Handling of up to 2 lenses via double suction cups
3. Pre-centering of the lens before insertion in the machine via integrated precentering station
4. Pick up of the processed lens from the working area of the machine and insertion of the new lens
5. If necessary, cleaning of the lens in the integrated cleaning station with water and air (option)
6. If necessary, transfering lenses via transfer drawers (option) for measuring withouth interrupting the robot cycle
7. Storage of processed lenses in dip tank (option)
8. Opening and closing drawers (option) in the lens storage

Options

- Different cleaning stations available
- Dip tank
- Ejection drawers
- Various grippers and suction cups optionally available according to the workpiece geometry

Valid: 08.05.2025, subject to change without notice

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