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RPL 80

Flexible Robot Solution for Single Surfaces (up to Ø80mm) as well as Lenses on Cementing Pieces



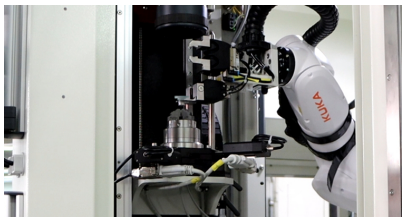
The RPL 80 is the high performance robot solution from OptoTech, that allows automatic loading and unloading of the SM 80 CNC-TC generator, the SPK 80 CNC polisher as well as the OWI 60 HP Invers-A interferometer. The RPL 80 can handle single surfaces (up to Ø80mm) as well as lenses on cementing pieces.

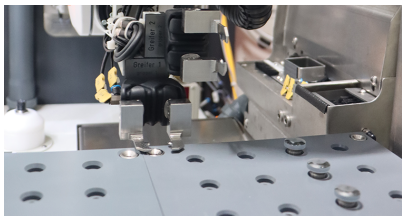
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Technical Data

	RPL 80
Working Range Diameter	10 mm - 80 mm
Positioning Accuracy	± 0.015 mm
Load	up to 4 Kg
Suitable for	Single surfaces (up to Ø80mm) or lenses on cementing pieces
Power Requirement (others on request)	32 A / 8 kVA / 400 V
Dimensions	Width: 540 mm, Height: 1972 mm, Depth: 1340 mm
Disclaimer	All data are subject to change without notice. Please verify details with OptoTech.







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Highlights

- Operation: 6-Axis robot incl. controller. Integration in the automatic process of the machine via interface to the machine controller.
- Safety: The robot is equipped with state-of-the-art safety functions to ensure safest operation. Smooth movements for most cautious lens handling.
- Cleaning of lens, cementing piece and grippers: cleaning and drying of the lens & cementing piece in an integrated washing station with water and air, a rotating cotton cloth sponge or surfactant basin as well as a gripper cleaning station (all available as an option)
- Flat pallets: The RPL 80 is loaded via max. 2 DIN flat pallets (200x300mm) or one 300x400mm flat pallet or transport belt. The pallets can optionally be equipped with loose lenses or cementing pieces. The pallets have to be inserted and removed manually.
- Various grippers and suction cups optionally available according to the workpiece geometry
- Full networking of RPL and machine according to the latest IoT standard

Performance Characteristics

Range of Functions:

1. Pick up of the lens from the DIN pallets or transport belt
2. Handling of lenses on cementing pieces or single surfaces
3. RFID reading and writing device option (RFID integrated in cementing piece)
4. Pre-centering of the lens before insertion in the machine via integrated precentering station (option)
5. Pick up of the processed lens from the working room of the machine or interferometer and insertion of the new lens
6. If necessary, cleaning of the lens in the integrated cleaning station with water and air, in the second cleaning station with a sponge and cloth or surfactant basin as well as a gripper cleaning station are all available as an option
7. DS 100-A digital spherometer (option) for fast and simple radii measurement of spherical lenses
8. Return of the processed lens to the pallet or the transport belt

Options

- Integrated precentering station
- DS 100-A digital spherometer
- Different cleaning stations available
- Various grippers and suction cups optionally available according to the workpiece geometry

Valid: 08.05.2025, 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**