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SR 80

Flexible Robot Solution for a Wide Range of Machines

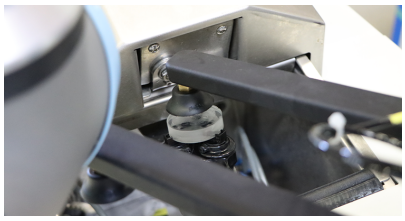


The SR 80 allows automatic loading and unloading of opitcs for a wide range of machines. It can be used for single surfaces (standard lens diameter up to Ø130mm) as well as for blocked runners.

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Technical Data

	SR 80
Working Range Diameter	10 mm - 130 mm
Positioning Accuracy	± 0.03 mm
Load	Up to 5 kg
Power Requirement (others on request)	32 A / 8 kVA / 400 V
Dimensions	Width: 1036 mm, Height: 1851 mm, Depth: 778 mm
Disclaimer	All data are subject to change without notice. Please verify details with OptoTech.







Highlights

- Operation: Via a detachable 12" touch pad or simple teaching by directing the robot. Integration of the SR 80 into the automatic process of the machine via interface to the machine control (suitable for Siemens or Beckhoff controls). An integrated force / torque sensor even enables the insertion of cementing pieces in HD receptions with the robot. A simple lens turning station allows both sides of the lens to be processed.
- Safety: The collaborative robot is equipped with state-of-the-art safety functions to ensure safest operation. Smooth movements for most cautious lens handling. Moreover, all sharp edges on the SR 80 have been rounded.
- Cleaning of lens & cementing piece: cleaning and drying of the lens & cementing piece in an integrated washing station with water (internal water supply including filter unit) and air, a rotating cotton cloth sponge or an ultrasonic dip tank (all available as an option)
- Flat pallets: The SR 80 is loaded via max. 4 DIN flat pallets (200x300mm) or via an own pallet system. The pallets can optionally be equipped with loose lenses or cementing pieces. The pallets have to be inserted and removed manually.

Performance Characteristics

Range of Functions:

1. Pick up of the lens from the DIN pallet or (one-way) raw part pallet
2. Handling of lenses on cementing pieces. Optionally, up to 2 lenses can be handled 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 room 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, in the second cleaning station with a sponge and cloth or an ultrasonic dip tank (all available as an option)
6. Return of the processed lens to the pallet

Options

- Grippers with double suction cups for dual handling of lenses
- Integrated cleaning station

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