

SR 20

Loading and Unloading Robot Solution Specially Developed for the DZM 20 CNC and WZM 20 CNC Micro-Centering Machines



The OptoTech SR 20 is a fully integrated and compact robot solution for automated loading and unloading of the OptoTech centering machines DZM 20 CNC and WZM 20 CNC. A specially designed vacuum gripper system enables the handling of smallest lenses in the field of micro-optics and endoscopy.



Technical Data

	SR 20
Working Range Diameter	2.7 mm - 20 mm
Positioning Accuracy	± 0.03 mm
Load	Up to 3 kg
Suitable for	Micro-optics between Ø 2.7 - 20 mm
Power Requirement (others on request)	16 A / 2.1 kVA / 400 V
Dimensions	Width: 894 mm, Height: 894 mm, Depth: 609 mm; Directly mounted on DZM 20 CNC or WZM 20 CNC
Disclaimer	All data are subject to change without notice. Please verify details with OptoTech.





Highlights

- Operation: Via a demountable 12" touch pad or simple teaching by directing the robot. Integration of the loading device into the automatic process of the machine via machine controller interface.
- Safety: The collaborative robot is equipped with stateof-the-art safety functions to ensure safest operation.
 Smooth movements for most cautious lens handling.
 Moreover, all sharp edges on the SR 20 have been rounded.
- Flat pallets: 2 DIN pallets (200mm x 300mm) or your own pallet system are used to store and remove the lenses by the gripper. Employees insert and remove the pallets.
- Centering station & gripper: The vacuum gripper can pick up 2 lenses at the same time (unprocessed and finished part to save time by reducing the travel distance). The unfinished lens is centered in a separate pre-centering station after it has been removed from the pallet.

Performance Characteristics

Range of Functions:

- 1. Pick up of the lens from a DIN pallet or your own pallet system
- 2. Centering the lens before processing in the pre-centering station
- 3. Pick up of the processed lens from the working room of the machine and insertion of the new lens
- 4. Deposit of the processed lens on the pallet and pickup of the next lens