OptoTech

SR 20

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

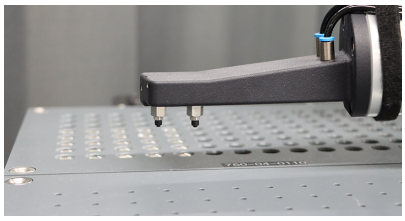


The OptoTech SR 20 is a fully integrated and compact robot solution for automated loading and unloading of the OptoTech centering machines DZM 20 CNC and WZM 20 CNC. A specially designed vacuum gripper system enables the handling of smallest lenses in the field of micro-optics and endoscopy.

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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 state-of-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

Valid: 25.07.2024, subject to change without notice

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