

# MASK HANDLING AUTOMATION

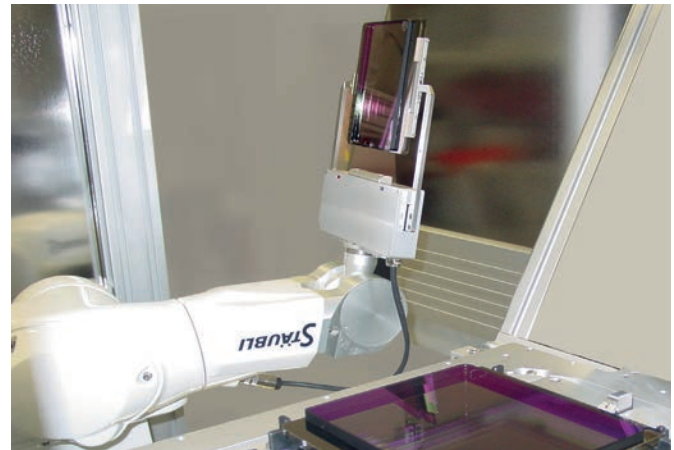
Highest Precision in up to ISO 1  
cleanroom environment

Our mask handling products are an added highlight to our more than 30 years of experience with automation systems for wafers, which include the even more demanding handling of DUV and EUV masks. The resulting high-end products consistently meet the requirements for cleanliness according to ISO 1 (ISO 14644-1). Through a special

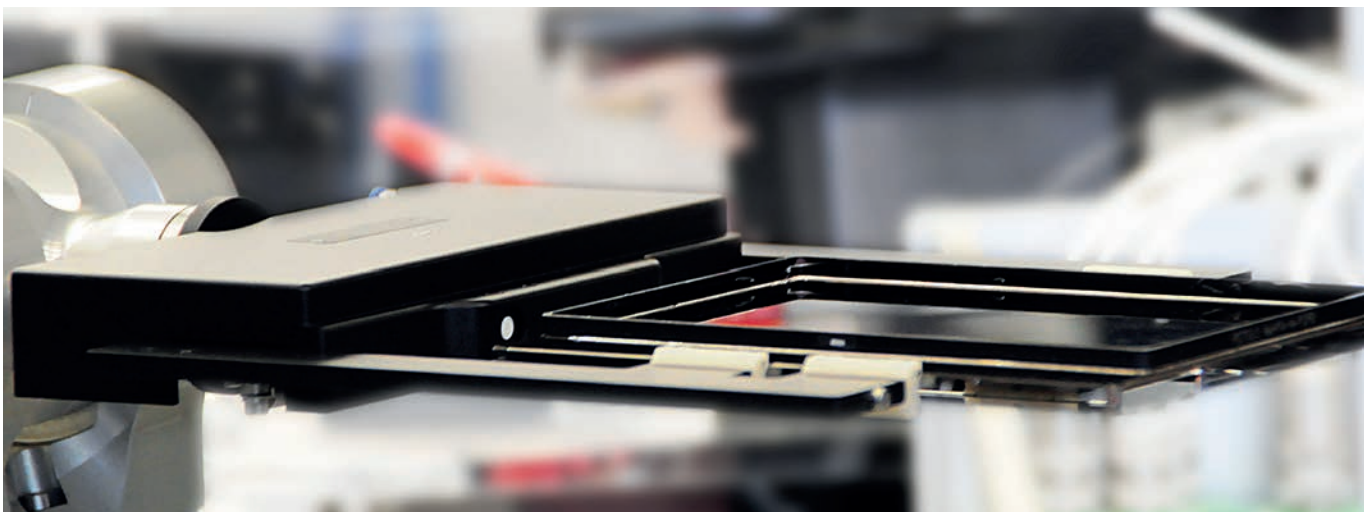
selection of materials, we ensure the lowest possible outgassing and thus increase the service life of the masks and other optical units. Fully automatic power management ensures that we can almost completely avoid heat input to the masks, which qualifies our systems especially for use in process and measurement equipments.

## Key Features

- **ISO 1 cleanliness** and **low outgassing**
- **Vibration-free, careful** and **precise handling** with proven robots for 24/7 use
- Fully automated power management enables **low heat input** to the mask
- Fulfillment of **SEMI® S2 & S8**



Mask Handling

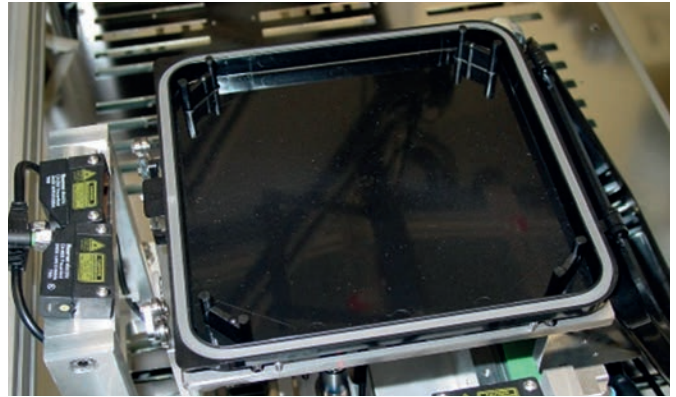


Active Mask Gripper

# Product Portfolio

## Loadports and Pod Opener

- Loadports for RSP200 & EUV Dual Pods
  - Option for Pod RFID reader & Pod barcode reader
  - AGV and OHT compatible
- Pod Opener for EUV Inner Pods
- Pod Opener for DMS Boxes and HOYA Boxes (semi-automated)



Pod Opener for DMS Box

## Handling Components & Accessories

- Passive & active mask grippers with edge gripping
- Active pellicle gripper (DUV)
- Mask flip & rotation
- Passive and active mask alignment
- Storage with occupation sensors
- 6-axis robot and/or SCARA robot
- Mask ID reader



Passive Mask Gripper



Mini Reticle Sorter

## Complete Systems

- Customized EFEMs for process & measurement equipments
- Standalone Reticle Sorters

## Optional Features

- Detection of pattern side
- Detection of EUV pellicle & EUV pellicle studs
- Detection of DUV pellicle



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