

Wafer Loader

mWL 200/300



Description

The Wafer Loader mWL 200/300 is designed for fully automated loading and unloading of 200/300 mm (8"/12") wafers or frame cassettes from FOUPs/FOSBs onto a customized external chuck. The adaptation to OEM tools according to customer requirements is possible.

Applications

- loading / unloading of a chuck
- wafer handling automation (e.g. for process-, inspection-, metrology tools etc.)

Features

- optimized footprint
- handling of warped wafers
- standard FOUP or FOSB compliance
- Cleanroom class: ISO class 5
- CE certificated
- SEMI standards compliant

Basic Configuration

- one single-arm robot on linear track
- one end-effector
- two load ports incl. mapper
- GUI

Configuration Options

- customized chuck
- RFID reader for FOUP- / FOSB-ID
- 200 mm (8") conversion kit
- OCR reader for wafer ID
- SECS/GEM interface
- FFU (filter fan unit) for higher cleanroom class
- UPS (uninterruptible power supply)
- ionizer

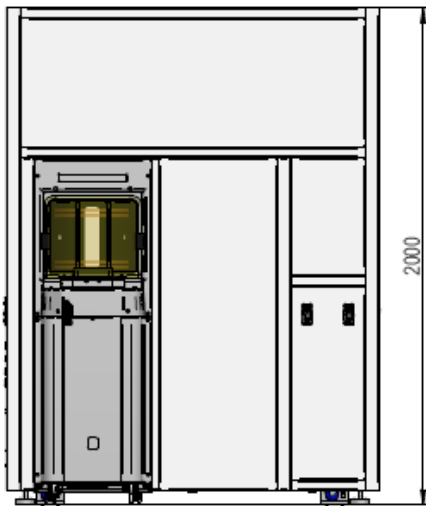
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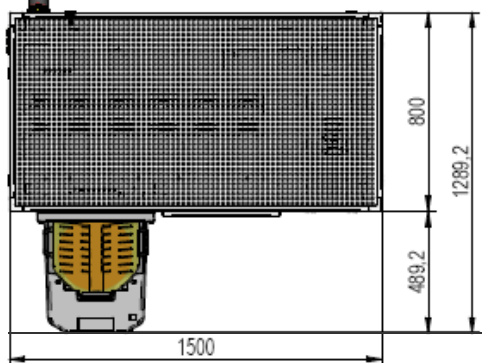
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Specifications

Front view



Plan view



Wafer size	300 mm (12") and/or optional 200 mm (8")
Cleanroom class*	ISO class 5
Dimensions	
w / d / h in mm	1500 / 1289 / 2000
Service area	600 mm around the machine
Weight	About 540 kg
Operation and loading	
FOUP or FOSB loading	Manual
Supply	
CDA / vacuum supply	8 mm push-in
Power supply	200-240 VAC / 50-60 Hz
Control voltage	24 VDC
Fuse	C 16 A
Pneumatic	
Pneumatic media	CDA and vacuum
Supply pressure CDA	6.0 – 6.5 bar
Supply pressure vacuum	-60 kPa to -90 kPa
Interface	
Operator interface	Monitor + keyboard (opt. touch screen)
External interface	USB, Ethernet; SECS/GEM (optional)
Service interface	2 CAN open, remote control (optional)
Throughput	
Throughput	Depends on recipe
CE	2006/95/EC, 2006/42/EC, 2004/108/EC
SEMI standards compliant	

*ISO EN 14 644-1

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