

WAFERMATE300™

ROBOTIC WAFER HANDLING

The *WaferMate300* is a highly configurable, BOLTS-compatible robotic wafer-handling cell that mates high performance with cost competitiveness. As an ISO Class-2 clean FEOL EFEM, this platform includes all applicable mini-environment components, E84 compliance and rear hand-off.

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PRODUCT FEATURES AND BENEFITS

- Pairs with all types of process tools and environments.
- Super reliable, absolute encoder, 4-axis robots.
- Can service up to 3 process tools.
- 300mm automation platform, adaptable for 200mm and smaller substrates.
- Robots fitted with range of end effector technologies, including vacuum, Bernoulli, edge grip and more.
- Full safety guarding (OSHA and ANSI compliant).

STANDARD ACCESSORIES

- FOUP Opener
- SMIF Pod Opener
- Aligner
- OCR
- Barcode
- Ionization Bars
- Mini Environment
- Wafer Flip Module
- DEK Compatible Transfer Station
- Wafer Conveyor / Oven Interface
- SMEMA & SECS/GEM Interfaces



SPECS

Machine Footprint	991"W x 1041"L x 2063"T
Wafer Alignment	to $\pm .05^\circ$
Wafer Placement	$\pm 100\mu\text{m}$
Clean Room Classification	Up to ISO Class 2 (Optional)
Wafer Interface Options	
- SMEMA	- Transfer Station
- SECS/GEM	- Wafer Conveyor
Loadport Positions Available	1 or 2
MTBF	60,000 hours
Full SEMI Compliance	
SEMI S2, S5, CE Compliant	
Uptime	>97%
Handling Capabilities	
- Thin Wafers	- Bonded Wafers
- Warped Wafers	- Perforated Wafers
- Thick Wafers	- Trenched Wafers
- Glass Wafers	

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