

Wafer Robot 200



- Smallest foot print**
- Proven technology**
- Accurate placement**
- Expandable with accessories**
- Modular controller system**
- Ideal for demanding applications**



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Unique Design

The LEP robot has many design features that make it unique. The top-side design of the robot makes simlifies service and maintenance. The telescoping lift axis provides long range of motion while requiring very little space. The linear radius axis and precision rotation axis ensure the highest wafer placement accuracy.

Flexible Integration

A rich command set with communication via RS-232 or USB interface provides for multi-level host control. At the most fundamental level, full control of all motion parameters and servo characteristics is available. In addition, a complete high level command set provides control of wafer transport, system status and error handling.

High Reliability

The LEP 200 mm robot is designed for high reliability. There are no complicated mechanisms, drive trains or multi-link arms that are prone to failure and misalignment.

Serviceable

While the 200mm robot is recognized for reliability, it is also designed for easy service and maintenance. Owing to the unique design, maintenance can be performed with the robot installed in place, no time consuming removal is necessary. For the same reasons, most repairs can be performed in place as well.

Expandable

Optional accessories can expand the handling system to a complete automation system. With the modular LEP controller as a foundation, accessories such as a cassette mapper, notch aligner and XY positioning stage can be added to build a complete automation package. Custom accessories can be added as well.

Specifications

Physical

Reach (center of robot to center of wafer)	380 mm [15"]
Minimum Height (to lower pickup arm)	260 mm [10.2"]
Maximum Height(to lower pickup arm)	435 mm [17.1"]
Minimum radius	350 mm [13.8"]
Weight	10.2 kg [22.5lbs]

Motion Axes

Range

Radius axis.....	290 mm [11.4"]
Theta axis.....	300 degrees
Lift axis	180 mm [7"]

Resolution

Radius axis.....	10 µm
Theta axis.....	1.4 arc sec
Lift axis	0.4 µm

Speed (max)

Radius axis.....	515 mm/sec
Lift axis	100 mm/sec
Theta axis.....	150 deg/sec

Facilities

Vacuum	24 in. Hg
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Ordering Information

Robots

200mm Dual arm robot complete.....	99A336
200mm Dual arm robot without fingers	99A333-NF

Options

Flat/notch finder for up to 200 mm wafers	99A035
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MAC 2002 Controller

Controller system for robot.....	992056
Controller system XY stage and robot.....	992060
Additional expansion components available	please call



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