FEATURES

• Excellent structural rigidity
• Maximum reliability and precision
• Wafer handling from 50 mm to 300 mm
• MTBF: > 50,000 operating hours
• Industry standard footprint and mounting configurations
• Modular concept with multiple standard configurations and various communication interfaces
• Autocalibration™ Technology assures ease of calibration for overall machine accuracy

BENEFITS

• Higher Availability
  • High reliability translates into less downtime and more uninterrupted production to achieve greater yields and faster delivery times

• Lower Tool Development Costs
  • Modular design of robots enable faster development of tools

CONFIGURABLE PRECISION ROBOTS MEET THE STRINGENT DEMANDS OF ANY WAFER HANDLING SYSTEM

Today’s wafer handling manufacturers demand world-class throughput, maintainability and reliability. Moog wafer handling vacuum robots meet those needs with a durable, uncomplicated hardware design, sophisticated real-time motion control and interchangeable arms for greater capability.

The V4 Series 2-axis robot handles wafers up to 300 mm with high precision and reliability. Brushless DC servo motors and absolute encoders, coupled with direct-drive Harmonic Drive® gears, ensure extremely high reaction capability and precise, trouble-free arm movements. The result is a fast and highly reliable robot with a demonstrated mean cycle between failures of > 50,000 operating hours.

Coupled with the advanced capabilities of Moog’s BX-300 controller, this robot delivers a whole new level of performance for your wafer handling systems.
With a 6-axis motion controller, these Vacuum robots can easily control multiple applications such as elevators and vacuum aligners. Moog’s BX-300 controller adds a host of advanced capabilities such as autocalibration, dynamic wafer calibration for on-the-fly detection and correction of wafer centering, and advanced path planning to maximize throughput and smooth handling.

**BX-300™ Controller**
- Pre-integrated controls—reduce cost, and time to market
- Advanced software: already written, integrated, proven
- 6 internal drives, and 8 axes of motion control

**Vacuum Prealigners**
- Multiple wafer sizes
- Kit available for integration into customer chamber

**Vacuum Elevators**
- Fully integrated into control system

**End Effectors**
- Pocket type
- Custom designs for your application

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Moog has offices around the world. For more information or the office nearest you, contact us online.

[www.moog.com/industrial](http://www.moog.com/industrial)