

Fabpro Robot

IMPROVED WAFER PLACEMENT REPEATABILITY | IMPROVED RELIABILITY | HIGH-SPEED OPERATION | LOW COST OF OWNERSHIP

WRIST

- Long, unsupported wrist bands are replaced with a unique rod and band design to eliminate vibration, improve wafer placement repeatability, and extend lifetime.
- Bearings are enclosed to protect from process deposition and prevent particle contamination.
- End effector leveling adjustments are performed at the wrist for greater alignment accuracy and faster setup/teach time.
- Left-right and front-back adjustability in right end effector ensures proper alignment with load locks and heater pedestals.

PERFORMANCE

- Greater than 4 years reliability.
- Low ongoing maintenance costs at significantly longer rebuild intervals than OEM.
- Vibration is greatly reduced, eliminating wafer sliding and improving placement repeatability.
- Smooth operation and 20% weight reduction allow for high-speed operation and potential throughput gain.
- Compatible with 200mm and 300mm platforms.
- May be combined with Gravity Edge Hold™ end effector technology for additional tool throughput and improved placement repeatability.

ELBOW AND LOWER ARM

- Proven elbow joint design with precision-machined components and pressed-fit bearings creates a tighter, stronger structure to reduce bearing wear and eliminate droop.
- Bearings are enclosed to prevent particle contamination.
- Arm leveling and z-height adjustments are made at the hub for easier, more repeatable setup.
- Honeycomb machining of the arm reduces robot weight, further extending bearing lifetime.

