

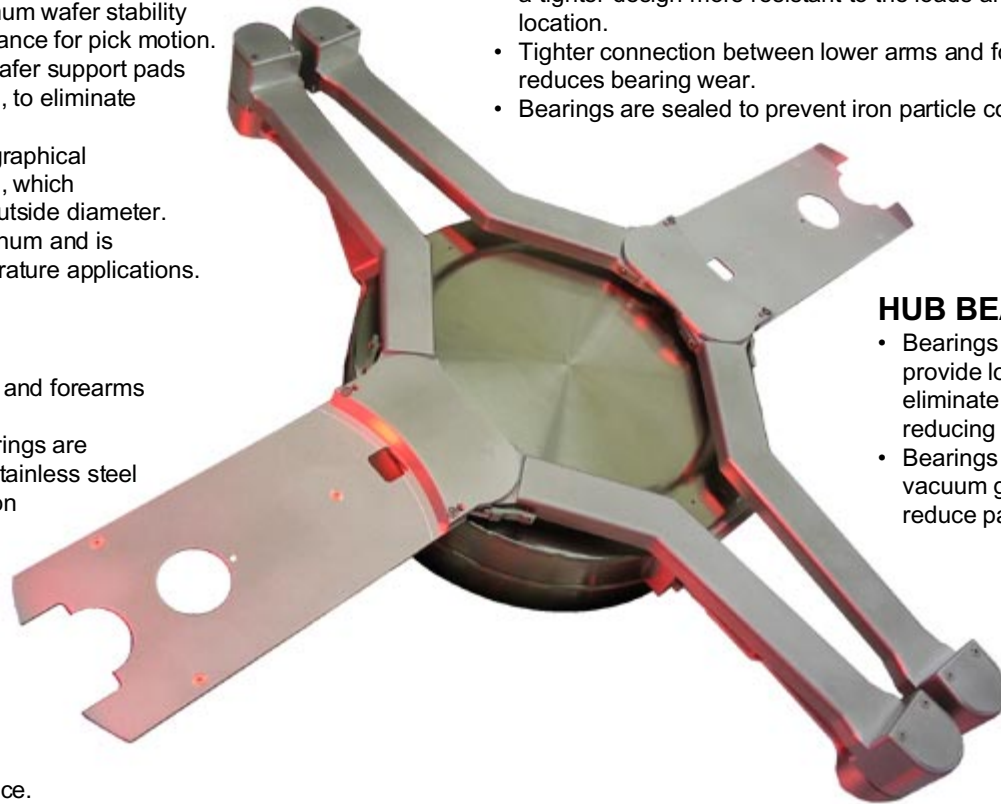
Fabhp-v Robot

END EFFECTORS

- Blade thickness (0.090 in.) offers maximum wafer stability and provides additional (0.030 in.) clearance for pick motion.
- Three replaceable perfluoroelastomer wafer support pads provide exceptional coefficient of friction, to eliminate wafer sliding and associated particles.
- Location of support pads removes topographical stress normally caused by wafer bowing, which results when supporting a wafer by its outside diameter.
- Blade material is stress-free 6061 aluminum and is also available in ceramic for high-temperature applications.

WRISTS

- Tighter connection between wrist plates and forearms prevent droop.
- Interlocking gears with anti-backlash springs are replaced with patented interconnected stainless steel bands for higher reliability and elimination of all side-to-side (backlash) motion.
- Ceramic bearings are used for long life and are enclosed to protect from process deposition and prevent iron particle contamination.
- End effector leveling adjustments are performed at the wrist for greater alignment accuracy and faster setup/teach time.
- Design eliminates preventive maintenance.



ELBOWS

- Precision-machined components and pressed-fit bearings create a tighter design more resistant to the loads and forces at this location.
- Tighter connection between lower arms and forearms dramatically reduces bearing wear.
- Bearings are sealed to prevent iron particle contamination.

HUB BEARINGS

- Bearings are ceramic hybrid to provide long life and are isolated to eliminate ball-to-ball collisions, reducing wear and particles.
- Bearings are shielded to prevent vacuum grease migration and reduce particles.

FABWORX SOLUTIONS, INC.

innovative hardware solutions for your fab equipment

phone 512.870.9191
web www.fabworx.com
email info@fabworx.com

FABWORX SOLUTIONS, INC.
Fabworx™