

# Fabhp-v 300

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## WRISTS

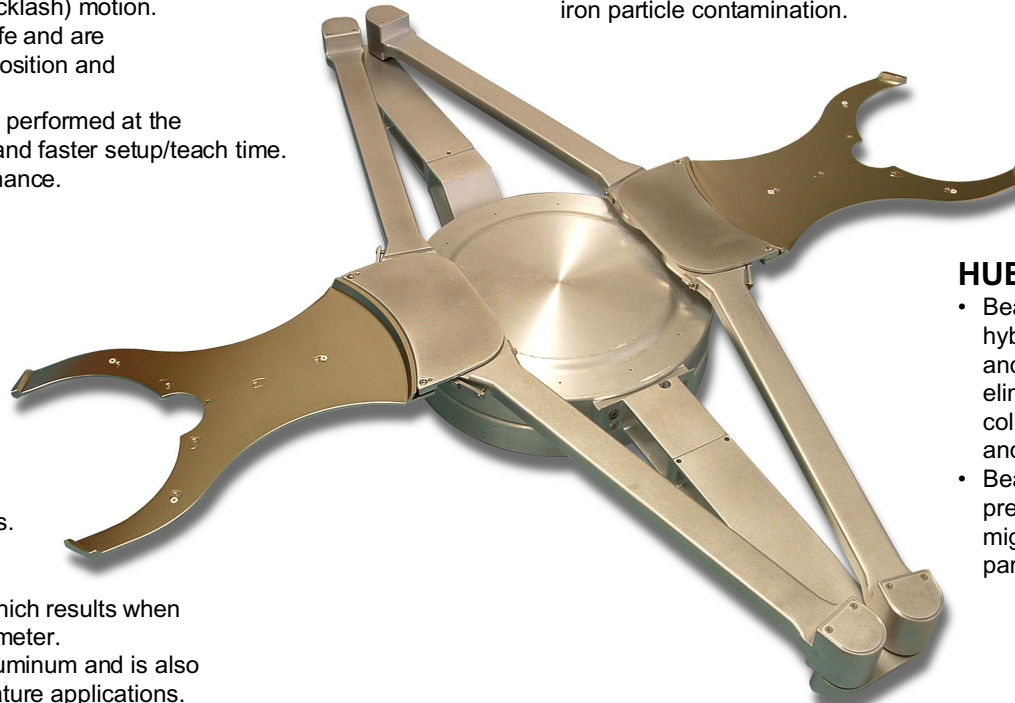
- Tighter connection between wrist plates and forearms prevent droop.
- Interlocking gears with anti-backlash springs are replaced with patented interconnected stainless steel bands for higher reliability and elimination of all side-to-side (backlash) motion.
- Ceramic bearings are used for long life 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.

## END EFFECTORS

- Blade thickness (0.125 in.) offers maximum wafer stability.
- 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.

## 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 arm and forearm 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.

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