

Fabht 300 Robot

PARTICLE REDUCTION | RELIABILITY IMPROVEMENT | ELIMINATION OF ROBOT DROOP

WRIST

- Long, unsupported wrist bands are replaced with a unique rod system to eliminate backlash and wrist band scraping.
- Tighter connection between wrist plate and forearm prevents droop.
- Bearings are preloaded to eliminate side-to-side motion and improve placement repeatability.
- Ceramic bearings are used for long life and are enclosed to protect from process deposition and prevent particle contamination.
- Patented design allows end effector leveling at the wrist location for greater precision and faster setup/teach time.

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.
- Honeycomb machining of the arms reduce robot weight, extending bearing lifetime.
- Bearings are enclosed to prevent particle contamination.



PERFORMANCE

- Improved lifetime and low ongoing maintenance costs.
- Engineered to eliminate all sources of particles.
- Side-to-side movement is reduced, improving wafer placement repeatability.
- Robot droop is eliminated.
- Reduction in robot weight lessens stress on hub, elbow and wrist bearings, extending lifetime.



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