HAtm-5.0 Atmospheric Robotic Arms

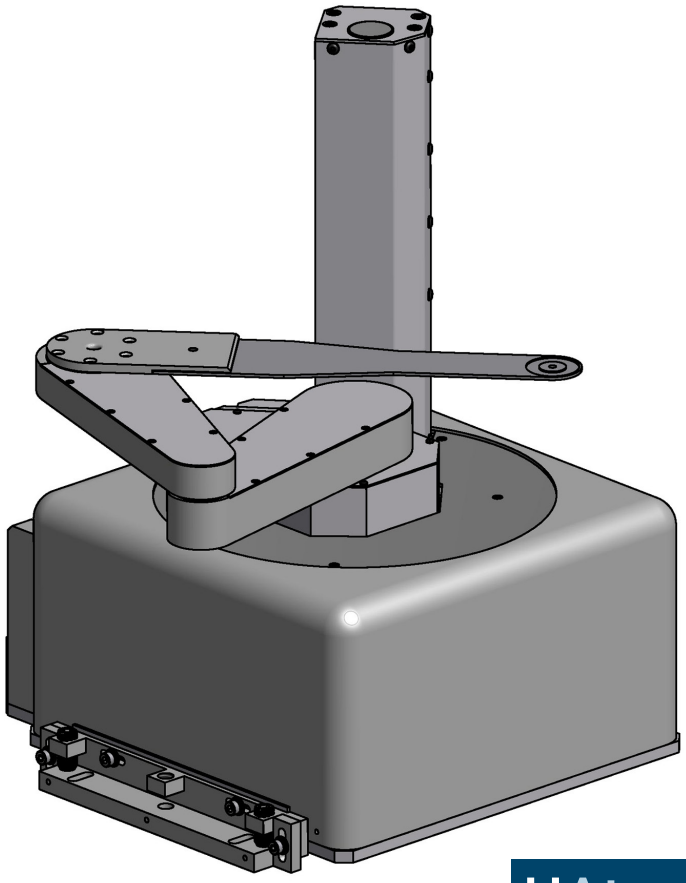
Robotic Components

FEATURES

- High reliability of > 10 million MCBF
- 3-axis motion control
- Pay load up to 0.5kg
- Standard and custom size arm segments
- Standard and custom end effectors for SEMI standard wafers and custom substrates
- Compact design including integrated controller
- RS-232 / Ethernet control interface
- The best replacement for the Zbot

OPTIONS

- End effector types: Vacuum chuck, Edge gripper
- Wafer mapping sensor
- Single / Dual end effector blades
- Custom vertical strokes
- Tracking mounting
- Custom payloads



HAtm-5.0

Hine Automation's Atmospheric Robotic Arms are the next generation atmospheric SCARA Robots. Designed to transfer semiconductor substrates to and from cassettes for substrates 200mm or smaller, the HAtm-5.0 is capable of handling all aspects of the material control at various levels of host interfacing. Thanks to its onboard controller, the integration of the HAtm-5.0 with OEM systems requires only power and a communications interface. The HAtm-5.0 offers identical command sets as the Zbot II and can be used as its replacement.

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Satellite Atmospheric Robotic Arms

Robotic Components

	HAtm-5.0
Wafer Sizes	200mm*
Pay Load	0.5 Kg†
Axis of motion	R,Z,θ
Weight	14 Kg
Input Power	24VDC @ 7.0 Amps
Vertical Stroke	185 mm‡
Rotational Travel	365° **
Reach	263mm††
Max. Operating Temperature	100°C
Repeatability Vertical Travel Reach Rotational	 0.10mm ‡‡ 0.10mm ‡‡ 0.03° ‡‡
Speed Vertical Travel Reach Rotational	 200mm/s 500mm/s 200°/s
MTBF	> 1.50E+07

* Hine Automation offers end effectors for SEMI standard sizes up to 200mm. Other sizes are available upon request.
† Payload with standard configuration
‡ Up from the Home Position
** Counter Clockwise from the Home Position
†† from center (wrist position with 140mm standard arms)
‡‡ Measured as three standard deviations (3σ)

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