



MOTION CONTROL TECHNOLOGY

Z THETA STAGE

Small is smart / Small is beauty / Miniature brings infinity

Designed with a compact Z-Theta architecture, this module integrates vertical and rotary motion into a space-efficient package for high-density automation systems. The built-in vacuum routing simplifies pneumatic connections and supports direct integration with vacuum pick-up applications. Featuring a direct-drive mechanism, it delivers high-speed response, high positioning accuracy, and smooth motion performance, making it ideal for semiconductor chip handling, precision pick-and-place, inspection, and advanced packaging equipment.



SPECIFICATION

Z theta	Stage Specifications
θ Repeatability(arcsec)	± 2
θ Max. Speed (rps)	1
Z axis Repeatability (μm)	± 2
Z axis Payload (kg)	0.6
Z axis Max. Speed (m/s)	0.5

APPLICATION

- Semiconductor Die Pick & Place
- IC Sorting & Orientation
- Wafer-to-Tray Die Transfer
- Tray-to-Tray Chip Transfer
- Die Rotation & Alignment
- IC Test Handler

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