



MOTION CONTROL TECHNOLOGY

UF SERIES

Small is smart / Small is beauty / Miniature brings infinity

With an ultra-flat profile of only 12 mm, the UF module enables high-density side-by-side installation to maximize chip handling capacity and equipment throughput. Its direct-drive Z axis powered by linear motor technology provides fast response, smooth force output, and high reliability. An optional Theta axis adds rotational flexibility for precise chip orientation and alignment, while the built-in force sensor enables real-time force monitoring, precise contact control, and soft landing. The compact and modular design makes it ideal for multi-head pick-and-place systems and high-density semiconductor automation equipment.



SPECIFICATION

UF-series	Stage Specifications
Weight (g)	400
Thickness (mm)	12
Operating Voltage (Vdc)	24
Z axis Max. Speed (mm/s)	300
Z axis Stroke (mm)	30
Z axis Repeatability (mm)	+/- 0.001
θ axis Max. Speed (rpm)	700
θ axis Repeatability (degree)	+/- 0.05

APPLICATION

- Semiconductor Chip Pick & Place
- High-Density Die Handling
- Wafer-Level Handling & Sorting
- IC Inspection & Testing
- Advanced Packaging / Die Bonding
- Delicate Component Assembly

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