

M-850K Vacuum Hexapod Parallel Kinematics Platform

Parallel-Kinematics System for Wide Temperature Ranges



- 6 Degrees of Freedom, Works in Any Orientation
- Vacuum Compatible up to 10^{-6} hPa
- 200 kg Load Capacity (Vertical)
- Repeatability to $\pm 1 \mu\text{m}$
- Encoder Resolution to 5 nm

Model	Operating temperature range	Storage temperature	Travel ranges	Dimensions
M-850KTVH Vacuum Hexapod	-10 bis +25 °C	-20 bis +40 °C	± 50 mm (X,Y), ± 25 mm (Z), $\pm 15^\circ$ (θ_x, θ_y), $\pm 30^\circ$ (θ_z)	\varnothing 350 mm 330 mm height

M-850K Weatherproof Hexapod Parallel Kinematics Platform

Ultra-High-Precision Hexapod for Outdoor Operation



- Load Capacity to 750 N
- Unidirectional Repeatability to $5 \mu\text{m}$
- Clear Aperture \varnothing 420 mm
- Long Lifetime: 2 Million Cycles
- Drive: Brushless Motors
- Correspond to protection class IP 64
- Corrosion Protection

Model	Travel Range X / Y / Z	Max. load capacity	Mass	Dimensions
M-850KWAH Weatherproof Hexapod	$\pm 10 / \pm 11 / \pm 16$ mm	750 N	46 kg	Outer \varnothing 580 mm height 357 mm

M-810 Miniature Hexapod Parallel Kinematics Platform

High Precision in a Small Package



- Most-Compact Hexapod in the PI Portfolio
- Travel Range $40 \times 40 \times 13$ mm
- Resolution of a Single Strut < 100 nm
- Integrated Driver Electronics

Model	Load capacity	Travel range X / Y / Z	Travel range $\theta_x / \theta_y / \theta_z$	Max. velocity	Dimensions
M-810.00	5 kg	± 20 mm ± 20 mm $\pm 6,5$ mm	$\pm 11^\circ$ $\pm 11^\circ$ $\pm 30^\circ$	10 mm/s	Outer \varnothing 100 mm height 118 mm