

6-Axis Hexapod

HIGH VELOCITY, MEDIUM LOAD, AFFORDABLE



H-840

- Load capacity to 30 kg
- Travel ranges to 100 mm / 60°
- Actuator resolution to 16 nm
- Repeatability to $\pm 0.4 \mu\text{m}$
- MTBF 20,000 h
- Velocity to 50 mm/s

Precision-class 6-axis system

Parallel-kinematic design for six degrees of freedom making it significantly more compact and stiff than serial-kinematic systems, higher dynamic range, no moved cables: Higher reliability, reduced friction

Drive variants

H-840.G1x with DC gear motors

H-840.D1x with powerful DC motors for higher velocity

Powerful digital controller, open software architecture

User-defined, stable pivot point, software-selectable. Positions commanded in Cartesian coordinates. Macro programming. Open source LabVIEW driver set. Work space simulation software. Virtual Hexapod machine software. Optional: Collision avoidance software (external obstacles).

H-840.xx1 includes C-887.11, 6D vector motion controller plus 2 additional servo axes. Options:

- Analog interfaces/photometer cards for visible light (F-206.VVU) or the infrared light range (F-206.iiU)
- F-206.NCU fast piezo nano-alignment system for alignment with nanometer precision

H-840.xx2 includes C-887.21 compact 6D vector motion controller

Fields of application

Research and industry. For micromanipulation, laser and optics alignment, biotechnology, tool control

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