SOLANO hexapod

Ultra compact size hexapod with high resolution

Symétrie



KEY FEATURES

- Travel range: ±18 mm & ±10°
- Resolution: 50 nm
- Speed: ±30 mm/s
- Payload capacity: 5 kg
- Diameter: Ø120 mm
- Height in middle position: 104 mm
- Absolute encoders

APPLICATIONS

- Instrumentation
- Aeronautics and spatial
- Optics
- Metrology
- Testing laboratories
- Semiconductors
- Synchrotrons
- Astronomy

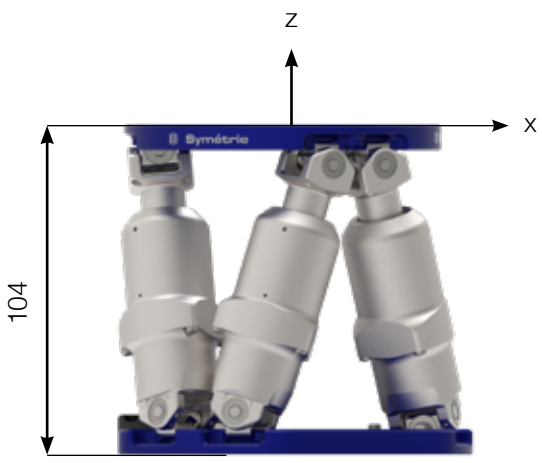


SOLANO hexapod with ultra compact height (104 mm)

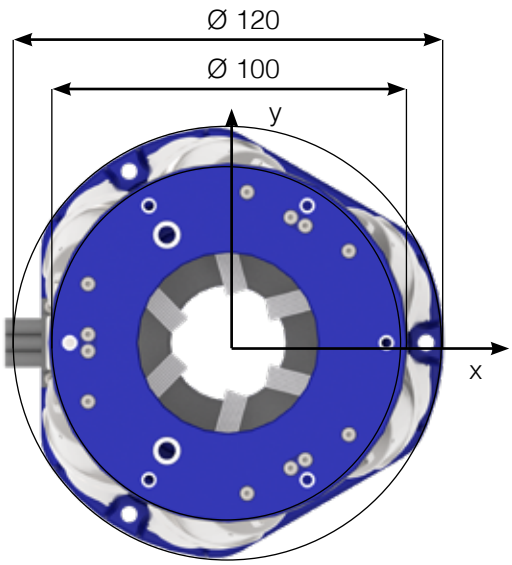
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	SOLANO
Motion and positioning	
Travel range Tx, Ty (mm)	± 18
Travel range Tz (mm)	± 6.5
Travel range Rx, Ry (deg)	± 10
Travel range Rz (deg)	± 21
Resolution Tx, Ty (µm)	0.05
Resolution Tz (µm)	0.05
Resolution Rx, Ry (µrad)	0.5
Resolution Rz (µrad)	1
Repeatability Tx, Ty, Tz (µm)	± 0.25
Repeatability Rx, Ry, Rz (µrad)	± 4
Speed Tx, Ty (mm/s)	30
Speed Tz (mm/s)	20
Speed Rx, Ry (deg/s)	15
Speed Rz (deg/s)	20
Mechanical properties	
Stiffness X, Y (N/µm)	0.3
Stiffness Z (N/µm)	5
Payload capacity (kg) (vertical orientation / horizontal orientation)	5 / 2.5
Motor type	Brushless DC motor
Encoder type	Absolute encoder (without battery or gear)
Miscellaneous	
Operating temperature range (°C)	0 to + 50
Materials	Aluminum, steel, stainless steel
Size mobile platform (mm)	Ø 100
Central aperture (mm)	Ø 50 for mobile platform ; Ø 32 for fixed platform
Height in middle position (mm)	104
Mass (kg)	1
Cable length (m)	2.5
Options	Clean room compatibility Hand-held control unit
Controller	
Controller type	SIGMA
Interface	Ethernet
Power supply	110-240 VAC / 50-60 Hz

The performances are specified for single axis motions, with all other axes at midrange and for a rotation center in the middle of the mobile platform.



Hexapod in middle position



Datasheet subject to change without notice. All data are superseded by any new release. R010926

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