

## **KEY FEATURES**

- High stability
- Resolution 0.5 µrad
- Large payload capacity 1500 kg (more upon request)



## **APPLICATIONS**

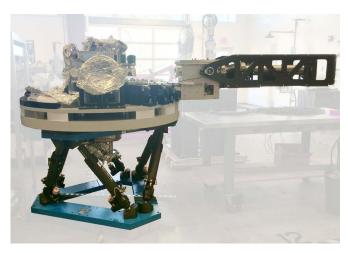
■ Synchrotrons: mirror or chamber supports ■ Optics



JORAN hexapod has been developed in collaboration with ESRF synchrotron to position mirrors with very high resolution.



JORAN hexapod size has been adapted to the beam height of the Australian Synchrotron.



JORAN actuators at LBL are longer to enable a  $\pm$  12.5° rotation around Z. This JORAN hexapod has also been customized to support a 3.2 tons payload.

	JORAN ST	JORAN BL
	for lower speed	for higher speed
Motion and positioning		
Travel range Tx, Ty (mm)	± 75	± 75
Travel range Tz (mm)	± 50	± 50
Travel range Rx, Ry (deg)	± 5	± 5
Travel range Rz (deg)	± 8	± 8
Resolution Tx, Ty, Tz (µm)	0.1	0.1
Resolution Rx, Ry, Rz (µrad)	0.5	0.5
Repeatability Tx, Ty, Tz (µm)	± 0.25	± 0.25
Repeatability Rx, Ry, Rz (µrad)	± 1	± 1
Speed (mm/s; deg/s)	0.25; 0.05	1; 0.2
Mechanical properties		
Payload capacity (kg) (vertical orientation)	1500	1500
Motor type	Stepper motor	Brushless motor
Miscellaneous		
Operating temperature range (°C)	0 to + 50	0 to + 50
Material	Aluminum, steel, stainless steel, ceramic	Aluminum, steel, stainless steel, ceramic
Size mobile platform (mm)	Ø 1300	Ø 1300
Height in middle position (mm)	800	800
Mass (kg)	515	515
Cable length (m)	5	5
Options	Customized platform design Absolute encoders Adjustable height Heavier payload	
Controller		
Controller type	ALPHA+	
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.

