||| Symétrie
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## KEY FEATURES

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



## APPLICATIONS

- Synchrotrons: mirror or chamber supports
- Optics


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


JORAN actuators at LBL are longer to enable a $\pm 12.5^{\circ}$ 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) | $\pm 75$ | $\pm 75$ |
| Travel range Tz (mm) | $\pm 50$ | $\pm 50$ |
| Travel range Rx, Ry (deg) | $\pm 5$ | $\pm 5$ |
| Travel range Rz (deg) | $\pm 8$ | $\pm 8$ |
| Resolution Tx, Ty, Tz ( $\mu \mathrm{m}$ ) | 0.1 | 0.1 |
| Resolution Rx, Ry, Rz ( $\mu \mathrm{rad}$ ) | 0.5 | 0.5 |
| Repeatability Tx, Ty, Tz ( $\mu \mathrm{m}$ ) | $\pm 0.25$ | $\pm 0.25$ |
| Repeatability Rx, Ry, Rz ( $\mu \mathrm{rad}$ ) | $\pm 1$ | $\pm 1$ |
| 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 ( ${ }^{\circ} \mathrm{C}$ ) | 0 to +50 | 0 to +50 |
| Material | Aluminum, steel, stainless steel, ceramic | Aluminum, steel, stainless steel, ceramic |
| Size mobile platform (mm) | $\varnothing 1300$ | $\varnothing 1300$ |
| Height in middle position (mm) | 800 | 800 |
| Mass (kg) | 515 | 515 |
| Cable length (m) | 5 | 5 |
| Options | Customized platform design <br> Absolute encoders <br> Adjustable height <br> 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.


