



HEXAPODS

SONORA

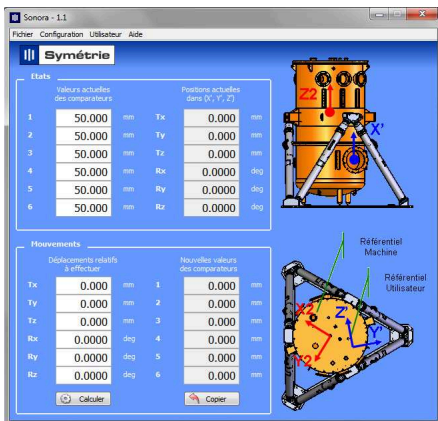
Symétrie

Applications

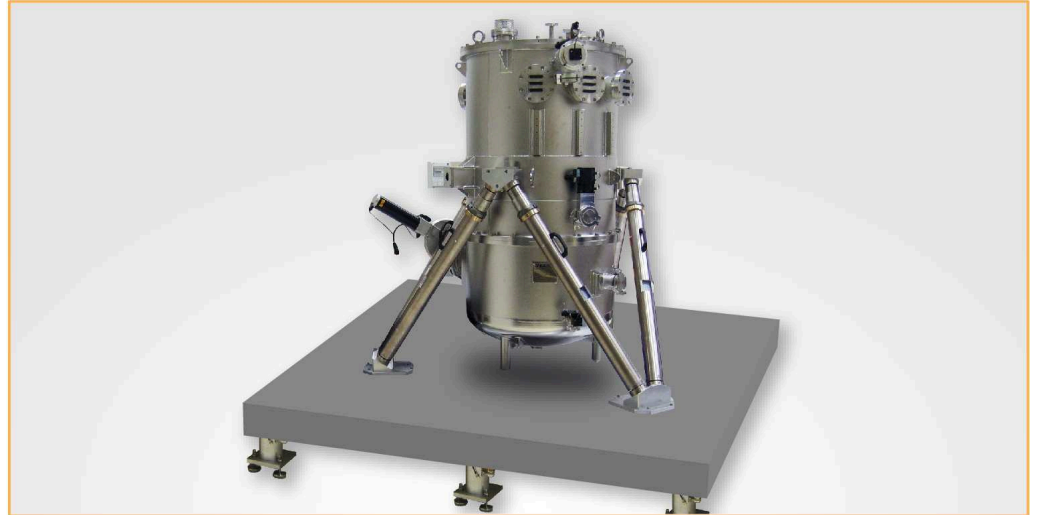
- High precision adjustments
- Optical adjustments
- Vacuum chamber support
- Optical alignment
- Mechanical alignment

Specifications

- Important payload capacity: a few grams to a few tons
- Travel range ± 20 mm
- Travel $\pm 2^\circ$
- Isostatic mechanism



Control software



SONORA is a manual hexapod for the adjustment and static positioning of high payloads following the 6 degrees of freedom (3 translations and 3 rotations).

A high level adjustment for very high payloads

With its anti-friction ball-and-socket joints specifically developed for its applications, SONORA allows high resolution manual adjustments for the positioning and alignment of important payloads: up to 17 tons.

An important stability

SONORA's isostatic structure ensures high stability and high stiffness without causing deformations of the structure to adjust.

Reproducibility

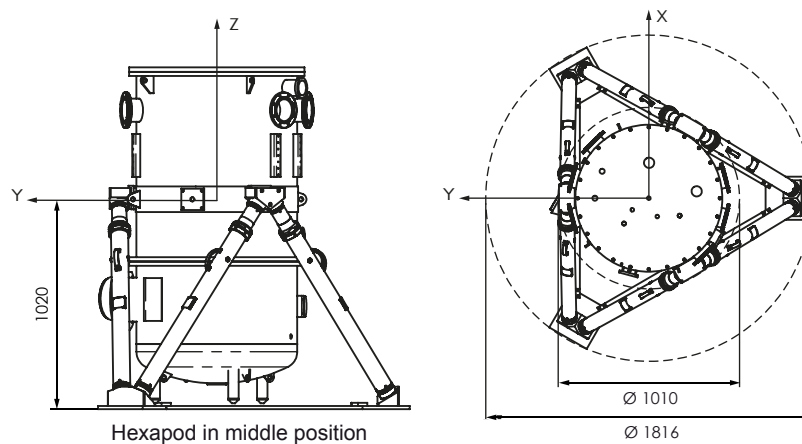
Specific ball-and-socket joints allow an assembling/disassembling of the payload to adjust and guarantee at the same time a great reproducibility of positioning.

SYMETRIE's own control software

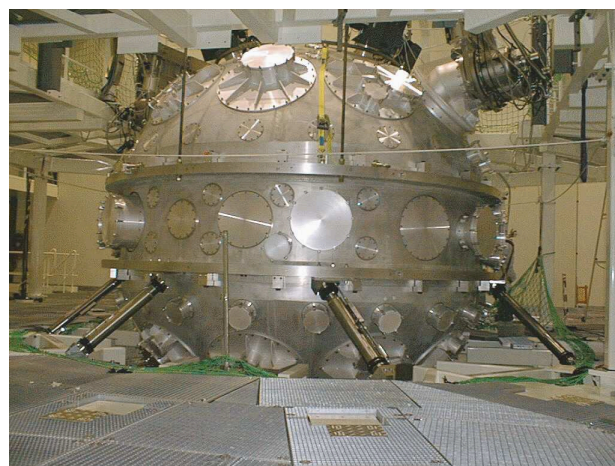
The hexapod comes with a specific control software, which helps operators to make displacements following the 6 degrees of freedom by manual adjustments of the length of the actuators.

Axis	Travel range ⁽¹⁾	Resolution
Linear travel Tx	± 75 mm	50 µm
Linear travel Ty	± 75 mm	50 µm
Linear travel Tz	± 50 mm	50 µm
Angular travel Rx	± 6 °	90 µrad
Angular travel Ry	± 6 °	90 µrad
Angular travel Rz	± 6 °	90 µrad

(1) The performances specified are for single axis motions, with all other axes at midrange and for a rotation centre defined centred on the top of the upper platform.



HEXAPOD	
Payload capacity	A few grams to a few tons
Weight	120 kg



Integration of SONORA on LIL CEA/CESTA

SONORA

Your specifications are particular,
Do not hesitate to consult us!

SONORA's options

- Clean room compatibility
- Specific kinematic design