

PRESS RELEASE

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New ZONDA hexapod: High precision and heavy payload

SYMETRIE innovates with a new high performance hexapod named ZONDA to meet applications requiring high precision, heavy load and large travel range.

Designed to position up to 400 kg payloads with a resolution of 50 nm only, ZONDA hexapod offers large travel ranges with 400 mm in XY, 300 mm in Z and 40° in the three rotations Rx, Ry and Rz.

ZONDA hexapod brings unrivaled accuracy and thermal stability features thanks to the integration of Invar material, linear absolute encoders integrated as a standard in the actuators and particularly rigid joints.

Indeed, Invar is an alloy of iron and nickel known for its very low coefficient of thermal expansion of 1 $\mu\text{m}/\text{m}/^\circ\text{C}$, compared to steel (11 $\mu\text{m}/\text{m}/^\circ\text{C}$) or aluminum (23 $\mu\text{m}/\text{m}/^\circ\text{C}$) for example. The choice of this material combined with high tech components allows ZONDA hexapod to reach excellent performances in terms of resolution, repeatability, accuracy and stability.

Optionally ZONDA hexapod can be vacuum or clean room compatible.

The hexapod comes with its controller and a control interface compatible LabVIEW, EPICS, SPEC, TANGO or C. The ergonomic software allows to configure virtual centers of rotation and to easily change user and object coordinates systems.

SYMETRIE is an innovative company specializing in high precision positioning and motion hexapods of all sizes for over 10 years.

SYMETRIE in a few words:

- 4 M€ turnover, an R&D department, 70% of engineers
- Major customers: Airbus Defence and Space, AMOS, CEA, Rio Tinto, Sagem, Selex ES, Thales, University of Hawaii, University of Western Australia...
- Large scale technological projects: Laser Megajoule; ground or space telescopes: Aries, JWST, OAJ and Pan STARRS 2; satellites: Gaia and MPO, synchrotrons: the Australian Synchrotron, DLS, Elettra, ESRF, MAX-lab, SOLEIL...

Contact us for more information!

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