

PRESS RELEASE

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New HEGOA hexapod: a compact and dynamic motion platform

SYMETRIE introduces HEGOA, a compact hexapod of 420 mm height for high dynamic applications in industry or research.

Designed to position up to 50 kg payloads with speeds of 200 mm/s and 50°/s, HEGOA hexapod offers travel ranges of ± 100 mm in X, Y, ± 50 mm in Z, $\pm 23^\circ$ in Rx, Ry, and $\pm 30^\circ$ in Rz.

Benefiting from SYMETRIE's 22 years of experience in the development of motion platforms, HEGOA guarantees an acceleration of 800 mm/s² in translation and 200°/s² in rotation.

Its small diameter of 500 mm makes it ideal for applications in a laboratory or in a space-constrained environment. Thanks to its 6 degrees of freedom (DOF), HEGOA hexapod can help testing instruments that will be on board of vehicles later (a tank, a ship, a plane...).

The 6DOF hexapod control is facilitated by an ergonomic graphical user interface that allows generating sinusoidal trajectories or importing external trajectories, registered via sensors for example.

Optionally, an External Real-Time trajectory (ERTT) control feature is available. It lets the user control the hexapod in real-time using its own trajectory generator that can be coupled to sensors, cameras, remote control systems etc.

SYMETRIE is an innovative company specializing in high precision positioning and motion hexapods of all sizes for more than 20 years. A hexapod is a parallel kinematics robot with six actuators linked to two platforms: one fixed, one mobile.

SYMETRIE in a few words:

- 8 M€ turnover, an R&D department, 70% of engineers
- Major customers: Airbus Defence and Space, Leonardo, Naval Group, Rio Tinto, Safran, Thales, University of Hawaii, University of Western Australia...
- Large scale technological projects: Megajoule Laser; ground or space telescopes: DAG, DOT, JWST, NOEMA, OAJ and Pan STARRS 2; spacecrafts: BepiColombo, EnMAP, Euclid, Gaia, MPO, MTG, PLATO, Sentinel 5, synchrotrons: APS, the Australian Synchrotron, DLS, Elettra, ESRF, IHEP, KIT, LBL, LNLS, MAX-lab, PAL, PSI, RRCAT, SLAC, SOLEIL, SSRF...

Contact us for more information!

Anne Duget - Tel: +33 4 66 28 87 20 - Email: anne.duget@symetrie.fr