

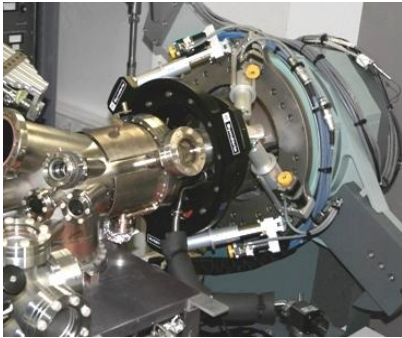
**Company information:**

- Specialist of high precision positioning systems
- Leader in manufacture of [hexapods](#)
- [Metrology](#) expert (10 years)
- Involvement in world projects: [Laser MegaJoule](#), ITER, etc.
- Loyal customers: ESRF, SOLEIL, THALES, SAGEM, CEA, etc.

**SYMETRIE as guest-speaker at MEDSI:**

For the 6th International Conference on Mechanical Engineering Design of Synchrotron Radiation Equipment and Instrument (MEDSI) 2010, SYMETRIE was chosen to be a guest-speaker on "the Sphere of confusion of the MARS beamline goniometer." SYMETRIE accompanied by its client presented the measurements, techniques and results of the SOC. During this conference, SYMETRIE made itself known and proved its capabilities as a supplier of opto-mechanical components.

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**Positioning hexapod for the ID03 beamline of the ESRF**

Following a call for tender, the ESRF selected SYMETRIE to supply a [high precision positioning hexapod](#) to equip the ID03 beamline.

The system is integrated on a horizontal rotation axis. It enables the adjustment of a 30 kg-support-sample vacuum chamber. The setting of the chamber generates an effort of 1200 N.

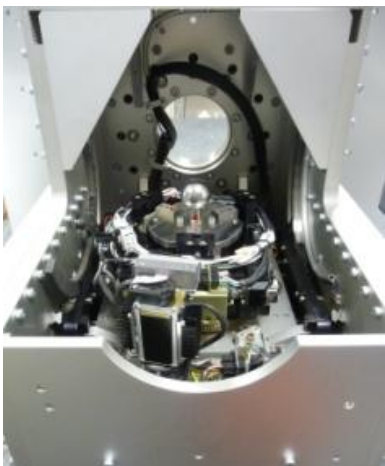
The hexapod was adapted to the specifications of the ESRF in terms of size, resolution, stability and rigidity. It is installed on the beamline since 2008.

**Miniature hexapod for the ID01 beamline of the ESRF**

After the successful integration of a hexapod on the ID03 beamline, SYMETRIE won the call for tender to realize a miniature positioning hexapod for the ID01 beamline.

This compact hexapod, known as BORA, possesses outstanding performances and positions a sample of 5 kg in horizontal and vertical use.

In spite of demanding constraints in terms of size, accuracy, resolution and stability, the realization of BORA was a real, but successful, challenge.

**Goniometer 5 axes for the MARS beamline of Synchrotron SOLEIL**

SYMETRIE has realized a high precision positioning system type "Goniometer" for the Synchrotron SOLEIL for the Mars beamline.

The system allows to position a 5 kg sample within the beam of the synchrotron.

The goniometer provides 5 degrees of freedom: 3 linear translations and 2 rotations with one continuous rotation.

This system successfully integrated the specific constraints of size, environment and precision. The Goniometer is compatible with the electronics of standard command used by SOLEIL (ControlBox).

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