

PRESS RELEASE

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## World premiere! Two SYMETRIE hexapods on DAG 4m telescope

**SYMETRIE designed two identical hexapods to position the M2 and M3 mirrors of DAG telescope in Turkey.**

DAG (Turkish acronym for Eastern Anatolia Observatory) will be installed at 3170 m above sea level near the town of Erzurum. This large telescope with a primary mirror of 4 m and a secondary mirror of 760 mm will cover the optical and the near infrared wavelength ranges to study galaxies, stars formation and planets.

The SURES hexapods have a small height of 360 mm and a diameter of 690 mm. These hexapods provide excellent resolution of 0.1  $\mu\text{m}$  in translation and 1.5  $\mu\text{rad}$  in rotation to allow the telescope control center to realign the M2 and M3 mirrors in order to compensate optics relative displacement due to gravity and temperature change during observation.

SURES hexapods also have a very good accuracy thanks to preloaded components, thus reducing play and therefore mechanical hysteresis.

These hexapods are delivered to the Belgian telescopes manufacturer AMOS in the third quarter of 2016 while the first light of the DAG telescope is scheduled for the end of 2017.

SYMETRIE is an innovative company specializing in high precision positioning and motion hexapods of all sizes for over 15 years.

SYMETRIE in a few words:

- 4 M€ turnover, an R&D department, 70% of engineers
- Major customers: Airbus Defence and Space, AMOS, CEA, Leonardo, Rio Tinto, Safran, Thales, University of Hawaii, University of Western Australia...
- Large scale technological projects: MegaJoule Laser; ground or space telescopes: Aries, DAG, JWST, NOEMA, OAJ and Pan STARRS 2; satellites: BepiColombo, Gaia, MPO and MTG, synchrotrons: APS, the Australian Synchrotron, DLS, ELETTRA, ESRF, LBL, MAX-lab, PAL, RRCAT, SLAC, SOLEIL...

**Contact us for more information!**

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