

Press release

Accredited multicomponent force and torque calibration for the automotive industry

Kistler achieves ISO 17025 accreditation for globally unique hexapod

Sindelfingen, November 2023

The Kistler Group has attained another calibration milestone: its proven calibration hexapod – the first of its kind in the world – is now accredited in accordance with ISO 17025 for multicomponent force and torque calibration. Kistler is thus supporting automotive manufacturers and developers to ensure compliance with stringent EU regulations or global standards such as IATF 16949.

With over a decade of experience in the development of multicomponent calibrations on a hexapod, the Kistler Group is the leader in this segment. The most recent accreditation in accordance with ISO 17025 by DAkkS, the German accreditation body, guarantees that the company will continue to meet and exceed the strictest industrial and research requirements in the future as well. Thanks to its sophisticated design, the calibration hexapod at the Kistler Sindelfingen site allows for calibrations with continuous load changes in six degrees of freedom. This enables calibration results with the best possible representation for a variety of applications.

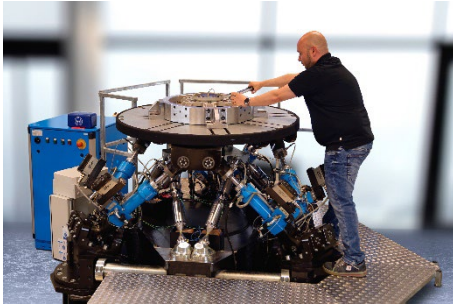
High-precision calibration of wheel force transducers and dynamometers

The calibration hexapod from Kistler is able to apply force-free torque of up to 10 kN·m and torque-free force of up to 50 kN to test specimens, while at the same time also offering individual load ranges. The unique architecture allows the calibration of compressive and tensile loads through the zero point (push-pull) – but also pressure (push) or tension (pull) only – and provides realistic and precise load modeling. As a result, the calibration hexapod is ideal for the accredited calibration of wheel force transducers – with strain gauge as well as piezo technology – along with multicomponent sensors and dynamometers.

Operating successfully – further accreditation is planned

The upgraded hexapod has already successfully performed its first accredited calibrations, confirming the high level of quality and precision of the calibration process. Furthermore, an additional calibration hexapod is also in use, which enables even greater force of up to 400 kN as well as torques of up to 80 kN·m. Kistler is also working to achieve accreditation of this hexapod system in accordance with ISO 17025 to further support their customers to comply with international regulations.

Image material (reprinting free of charge provided that the Kistler Group image source is quoted)



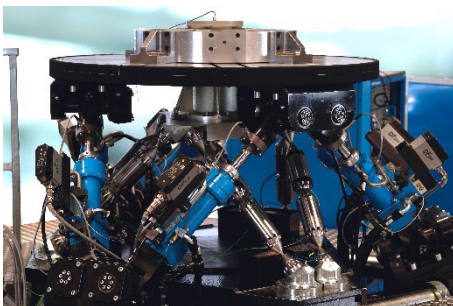
The ISO 17025 accredited hexapod from Kistler allows for even more precise multicomponent force and torque calibrations.



Wheel force transducers such as those in the RoaDyn series from Kistler benefit from the newly accredited hexapod in the form of highly precise calibrations.



The ISO 17025 accredited calibration hexapod from Kistler in Sindelfingen allows for torque-free forces of up to 50 kN, force-free torques of up to 10 kN·m, and individual load ranges.



The hexapod from Kistler, which has now been accredited by DAkkS, is the first system of its kind in the world – for the most precise multicomponent force and torque calibrations in accordance with ISO 17025.

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About the Kistler Group

Kistler is the global market leader for dynamic pressure, force, torque and acceleration measurement technology. Cutting-edge technologies provide the basis for Kistler's modular solutions. Customers in industry and scientific research benefit from

Kistler's experience as a development partner, enabling them to optimize their products and processes so as to secure sustainable competitive edge. Unique sensor technology from this owner-managed Swiss corporation helps to shape future innovations not only in automotive development and industrial automation but also in many newly emerging sectors. Drawing on our extensive application expertise, and always with an absolute commitment to quality, Kistler plays a key part in the ongoing development of the latest megatrends. The focus is on issues such as electrified drive technology, autonomous driving, emission reduction and Industry 4.0. Some 2,000 employees at more than 60 facilities across the globe are dedicated to the development of new solutions, and they offer application-specific services at the local level. Ever since it was founded in 1959, the Kistler Group has grown hand-in-hand with its customers and posted sales of CHF 434 million in 2022. About 8% of this figure is reinvested in research and technology – with the aim of delivering better results for every customer.