

Press release

Traceable on-site calibration now available for force measuring chains and joining systems up to 300 kN

Measurement technology specialist Kistler expands its scope of accreditation once again to include traceable on-site and in-situ calibrations

Sindelfingen, March 2024

Kistler is now accredited for traceable on-site calibrations of force measuring chains up to 300 kN in accordance with ISO 17025. It allows the company to carry out necessary calibrations in situ at the user's site without removing the sensors. This minimizes downtimes, especially in production environments where the sensors are permanently integrated into the machine. It also allows the entire measuring chain to be taken into account during calibration. Traceable calibrations stand for a high standard and are accepted internationally.

If manufacturers want accurate measurements, they need to calibrate their measuring devices regularly. It is the only way to monitor the precision and stability of the sensors. Especially in industrial production, where the integration of sensor technology for process monitoring is becoming increasingly important, downtimes of the affected machines or lines due to calibrations pose a challenge. An easy way to minimize downtimes is to carry out calibrations at the production system's operating site. They are even more effective if the sensors can remain in the machine (in-situ calibrations).

Traceable calibrations: mandatory in many areas

However, the requirements for calibrations are high. The automotive industry has defined a strict standard with IATF16949. The consumer goods sector, medical technology and aviation are following suit with similar specifications. They exclusively accept traceable calibrations – i.e. calibrations that can be traced back to a national or international standard in a state institute. Only calibration laboratories accredited by a national accreditation body like the German Accreditation Body DAkkS can fulfill this requirement. Traceable on-site calibrations require an extended accreditation. Kistler can offer this high standard for force measurement chains up to 300 kN with an achievable measurement uncertainty of up to 0.35%.

Traceably calibrate energy-efficient NC joining modules in situ

Kistler's newly expanded calibration service also includes the company's electromechanical NC joining systems. "Electromechanical joining systems are a good way of reducing energy costs,

increasing plant utilization and boosting overall production efficiency. More and more companies from the automotive and supplier industry therefore opt for electromechanical NC joining systems in their serial production,” explains Christian Streili, Service Development Manager at Kistler. “Precisely definable press-in forces and extremely high repeat accuracies require regular and standard-compliant calibrations. With the extended accreditation, we can now carry out this service on-site and in-situ in a time-efficient manner.”

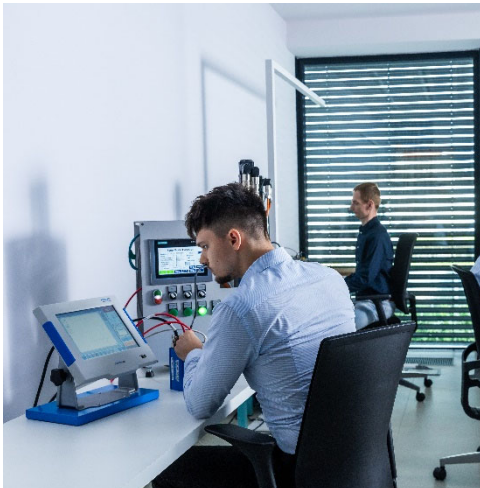
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Kistler now offers traceable on-site and in-situ calibrations for force measuring chains and joining systems up to 300 kN.



Machine downtimes can be minimized with on-site and in-situ calibrations of joining systems and force measuring chains.

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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 2,200 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 in 2023, it posted sales of CHF 465 million. About 9% of this figure is reinvested in research and technology – with the aim of delivering better results for every customer.