

Press release

Accurate force measurement – even in low measuring ranges

Kistler presents a new generation of SlimLine sensor series

Winterthur, September 2020

In smart manufacturing, measurement tasks are more challenging and call for increasingly advanced technologies. With the latest generation of SlimLine sensors, Kistler has optimized their series of force sensors, that have proven their worth in countless industrial applications. The SlimLine ring force transducers feature significantly improved linearity in low measuring ranges. This makes the application of these small force transducers even more flexible.

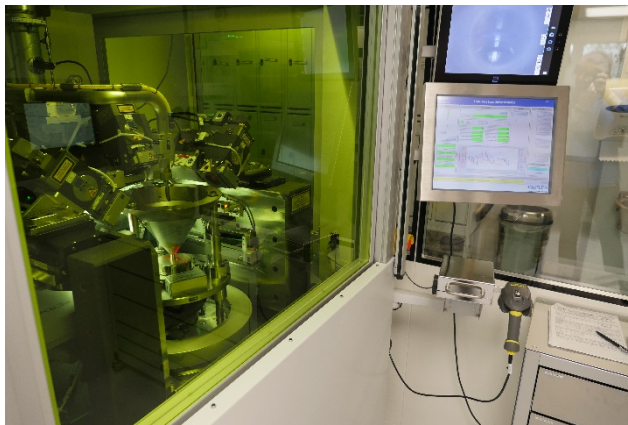
The individual SlimLine sensors of the C series replace the predecessor models and offer additional benefits for operators: The design has been enhanced by a number of details, making the sensors in the new series significantly more sensitive. The new design also improves linearity, especially in low measuring ranges.

Kistler is producing the revised sensor series in a clean room. The components are welded under nominal load conditions, reducing the recommended preload from 50 percent to a mere 20 percent of the nominal range. This facilitates easy installation and often saves space. The compact design is particularly relevant for the measurement of press-in or punching forces as well as large forces in force shunts, for monitoring progression tools and for small dynamometers. Thanks to their high rigidity, SlimLine sensors are ideally suited for monitoring dynamic forces –measurements over several minutes are now possible.

Optimizations in production also lead to significantly improved throughput, which increases availability. Additionally, high material quality is guaranteed thanks to complete traceability. The parameters stiffness, natural frequencies and temperature sensitivity coefficients were added to the data sheet to provide measurement engineers with additional information for challenging measurement tasks. Despite these upgrades, the new sensors are reverse compatible with their respective predecessors.

Image material (please name the Kistler group as picture source)

The new generation of SlimLine sensors features improved linearity in low measuring ranges.



Kistler is producing the entire SlimLine C series in a clean room.



At the heart of every piezoelectric sensor : a quartz crystal.

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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 2019, it posted sales of CHF 466 million. About 7% of this figure is reinvested in research and technology – with the aim of delivering better results for every customer.