

Media Release

Control 2017:

Kistler showcases cutting-edge testing technology

Winterthur, 11 April 2017 – Kistler will be present at Control, the world's leading quality assurance trade fair from 9 to 12 May 2017 in Stuttgart. The Group will be showcasing Schatz mobile testing systems for bolted joint analysis and tool testing. Other highlights demonstrated at Kistler's fair stand will include the highly dynamic 4503B torque sensor, the latest generation of maXYmos monitoring systems and a wide-ranging portfolio of sensor technology.

By integrating Schatz GmbH into the Group, Kistler has added new depth to its application know-how in bolted joint technology, giving customers across the globe access to expertise on bolted joint testing. Even the smallest errors in the development or assembly process can cause costs running into millions.

Calibration and certification – all in one

Schatz-combiTEST is a mobile system that features dual capabilities: it combines calibration of manual torque wrenches with testing of automated bolting systems. Convenient, on-the-spot testing of all the tools on an assembly line is now possible thanks to this compact device, powered by a rechargeable battery. By ensuring the process ability of their tools, customers can substantially cut their outlay on tool sampling tests that must be carried out regularly, accurately and in compliance with the standards. Visitors to Kistler's trade fair stand can also try out the latest version of the integrated CEUS software: as well as evaluation and documentation of all testing processes, it can be used for certification purposes.

INSPECTpro for transparent testing processes

INSPECTpro, the portable measurement and evaluation instrument from Schatz, offers a convenient way to test torque and rotation angle on bolted joints. This system provides graphic analyses of assembly processes to ensure that bolted joint assemblies meet optimum quality standards. Testing always has to be faster and more effective, so we are constantly developing new custom software modules that will ensure easier handling and improve the transparency of test processes. One new feature is the Tool Management license: tools to be tested can be stored ahead of time so that later on, they can be called up directly in Tool Testing mode. Kistler will show visitors to the trade fair how easy it is to implement efficient testing processes with INSPECTpro.

Latest-generation monitoring systems: maXYmos 1.4

Kistler's maXYmos product line: the byword for process monitoring systems that deliver integrated quality control of production steps. For the first time, Kistler has now created continuity between maXYmos TL (Top Level) and maXYmos NC (Numeric Control), the system specially designed to monitor electromechanical joining processes. Thanks to the Split View and Multi View features, the XY curves from both systems can be juxtaposed for comparative evaluation. Another innovation: maXYmos 1.4 records changes to the device setup as required. Through process-integrated quality testing, Kistler's solutions deliver process transparency – the basis for boosting cost-effectiveness across the entire production chain.

4503B torque sensor: rugged design with excellent dynamic characteristics

Time and again, Kistler's advanced sensor solutions attest the Group's technological leadership. Yet another example: the 4503B torque sensor with expanded functionality to accommodate the latest market requirements. Optical speed and angle sensing on this rugged sensor has now been replaced by magnetic technology – so it can be used safely in industrial environments with no additional maintenance outlay. Another plus: the torque sensor's electronics have also been optimized, and the 4503B now has a cut-off frequency of 10 kHz for highly dynamic measurements.

Mighty midgets: piezo-based low-force sensors

Thanks to their rugged design, piezoelectric sensors from Kistler keep precise track of quasi-static and highly dynamic force processes, even when conditions are difficult. They offer many advantages over other technologies: proportionality, low measuring deflections and long service lifetimes. Another advantage: even very small forces can be measured with the quartz elements. For applications of this sort, Kistler offers a wide-ranging portfolio of small force sensors. Miniaturization means that they can also be used when installation space is severely limited. This trend is especially noticeable in the electronics sector, where manufacturers are calling for technical devices and control elements in ever-smaller formats. This poses major challenges for production, because it is essential to guarantee that all manufactured parts have constant quality in terms of functionality as well as haptics.

Experience testing technology in action!

Would you like to see a live demonstration of the Kistler Group's diverse range of solutions for efficient quality assurance – solutions that can meet the challenges of the future? If so, you're warmly invited to visit us on stand 7313 in hall 7 at the trade fair in Stuttgart, from 9 to 12 May 2017.



Figure 1:

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Figure 2:

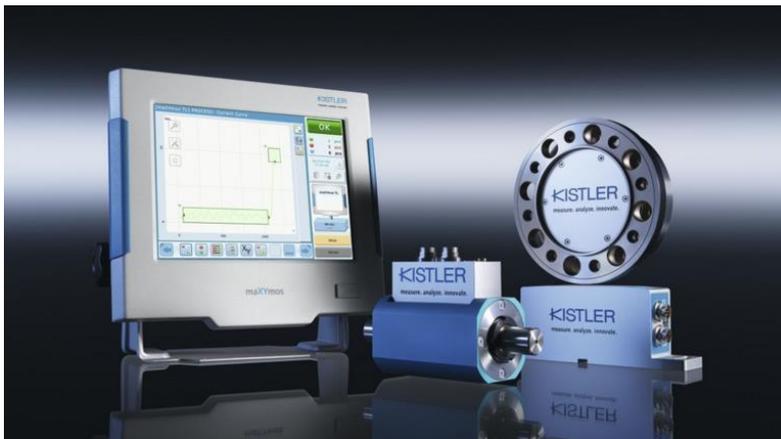


Figure 3:



Figure 4:

960-711e-03.17

Captions

Figure 1: For the first time, the Schatz-combiTEST mobile test center enables accurate, on-the-spot testing of all tools used in assembly, in compliance with standards.

Figure 2: INSPECTpro, the portable measuring device from Schatz, opens up new possibilities for random sample testing during assembly – in terms of hardware as well as software.

Figure 3: Thanks to their uniform operating philosophy, products in the maXYmos family are user-friendly and intuitive to operate. These features make commissioning simple and fast.

Figure 4: The 4503B offers a host of extended functionalities, bringing it into line with the very latest market requirements.

About the Kistler Group

Kistler, the originator of piezoelectric measuring technology, is the global leader in dynamic pressure, force, torque and acceleration measurement. Cutting-edge technologies provide the basis for Kistler's modular systems and services.

Customers in industry, research and development benefit from Kistler's experience as a development partner, enabling them to optimize their products and processes so as to secure sustainable competitive edge. This owner-managed Swiss corporation plays a key part in the evolution of automobile production and industrial automation, and its innovative sensor technology also helps foster the development of many newly emerging sectors. Drawing on our extensive application expertise, and always with an absolute commitment to quality, Kistler drives innovations ahead in lightweight construction, vehicle safety, emission reduction and Industry 4.0.

Over 1,600 employees at 58 facilities across the globe are dedicated to the development of new measurement solutions, and they offer individual application-specific support at the local level. Ever since it was founded in 1959, the Kistler Group has grown hand-in-hand with its customers and in 2016, it posted sales of CHF 358 million. About 10% of this figure is reinvested in innovation and research – with the aim of delivering better results for every customer.

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