

Media Release

Transparent Manufacturing Processes to Boost Cost-Effectiveness:

Kistler Showcases Three Latest Product Innovations at Motek 2015

Winterthur, 25 August 2015 – "Transparent Manufacturing Processes Mean Higher Quality and Lower Costs": this is the keynote for three new products that Kistler will unveil at this year's Motek (5 to 8 October 2015) in Stuttgart. The maXYmos TL 1.2 (equipped with sequencer mode for the first time) and the 9240A strain sensor (with a focus dimension of only 8 mm) will be flanked by the new NCFR Joining Module.

Recent years have seen the Kistler Group consolidating its global reputation as the leading provider of sensor systems by steadily expanding its product portfolio. Thanks in particular to a series of innovative developments in the maXYmos family, the consistency and continuity of these systems – as well as their simple, intuitive operation – have become familiar features of everyday industrial production. Now, at the Motek 2015, Kistler is set to unveil no less than three product innovations that will make manufacturing processes even more transparent – to increase quality and cut costs.

New Additions to the maXYmos Family

For years, the XY monitors in Kistler's maXYmos series have played a key part in consistent, process-integrated quality assurance: the patterns of measurement curves can be used to monitor and verify the quality of a single production step, a sub-assembly or an entire product. Now, maXYmos users can also measure multi-stage production processes (i.e. those with consecutive staggered steps): this has been made possible by equipping the maXYmos TL (Top-Level System) and the maXYmos BL (Basic-Level System) with a sequencer mode, in the same way as the successful maXYmos NC. Practical tests have shown the convincing results of this innovation: thanks to integrated sequence control, complex test processes can be mapped with no need to rely on costly external PLC programming. The programs can be set up quickly and easily with the help of the intuitive user interface on the touch display. Another advance: new evaluation objects (EOs) have been included in the maXYmos TL to support testing of additional applications such as switch testing. When the new cable extender is used, cables between TL / NC measuring modules and the display can be extended on one side, with data transmission via Ethernet. On the other side, up to eight measuring modules for different production processes can now be connected to one display.

In short: these new refinements to maXYmos now mean that optimal cycle times can also be achieved for multi-stage processes, with maximum repeat accuracy. Downtime is minimized and machine availability is increased – adding up to a remarkable increase in productivity for the manufacturing process.

NCFR Joining Module: Cutting Costs for the Automobile Industry and the Automotive Supply Sector

But that's not all: Kistler will also unveil another member of the Joining Systems family at the Motek 2015. As well as the classical linear joining process, the new NCFR Joining Module can perform a rotary movement of the ram, either sequentially or even simultaneously. With its integrated hollow-shaft servo motors, the module features compact dimensions and extremely low weight. This design offers excellent dynamic characteristics, creating the basis for dramatically reduced cycle times.

Integrated sensors continuously capture and evaluate force and displacement – as well as rotation angle and torque – with maximum precision, so 100% quality and control are ensured. The piezoelectric force sensor has two predefined measuring ranges to deliver high resolution; it also offers high overload capacity, especially in the small measuring range.

The new NCFR joining system makes mapping of complex joining processes faster and more efficient. The results: capacity utilization rates for plant are increased still further, and the commissioning and set-up phase is reduced to the minimum. And with its low energy consumption, the new NCFR Joining Module will help the automobile industry and the automotive supply sector to cut energy costs in series production.

9240A Measuring Pin: An Innovation to Meet Market Demand

To prove yet again that Kistler leads the sensor technology market, it will also unveil the 9240A measuring pin (a member of the strain sensor family) at Motek 2015. With its exceptionally narrow diameter of only 8 mm, this measuring pin is the perfect addition to Kistler's extensive range of strain sensors. In the majority of applications, these instruments are used for indirect force measurements on a component, as opposed to sensors that measure the force directly in the component. Depending on the design of the strain sensor, it can be positioned on the structure or mounted inside a structure. Measuring pins installed inside a structure need a cylindrical mounting bore. The advantage of these sensors is that the measuring element can be placed precisely at the point where the greatest strain occurs. Stefan Schäfer, Product Manager for Force and Strain Sensors at Kistler, explains how the new strain sensor was developed: "The development goal for the 9240A measuring pin was to offer the best possible solution for specific market requirements. This innovative new product succeeds in doing just that – so once again, Kistler has demonstrated its proximity to its customers all over the world."

Visitors to Motek can view Kistler's new products for themselves on stand 6311 in hall 6 from 5 to 8 October 2015. At 2 pm on 6 October 2015, there is also an entertaining opportunity to join in a round of "blackjack" – when players will see that quality assurance by Kistler is definitely not a game of chance!



Image 1

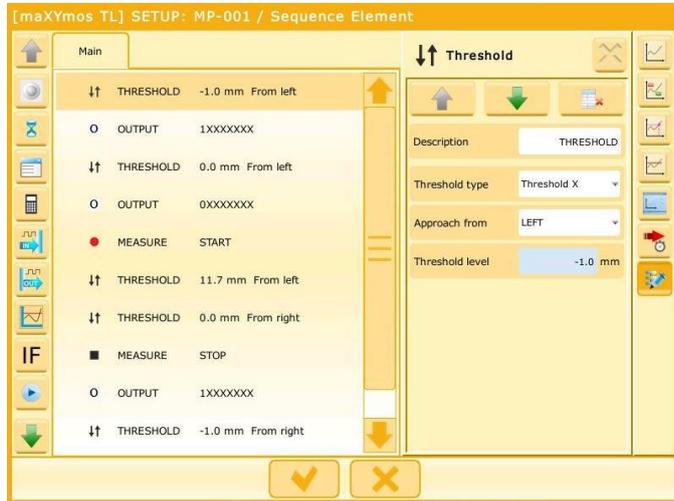


Image 2



Image 3



Image 4

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Captions

Image 1: 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.

Image 2: Sequencer mode makes it possible to program sequence controls in maXYmos that control the process. An independent sequence of steps can be defined for each measuring program.

Image 3: With its exceptionally narrow diameter of only 8 mm, this measuring pin is the perfect addition to Kistler's extensive range of strain sensors.

Image 4: As well as the classical linear joining process, the new NCFR Joining Module can perform a rotary movement of the ram, either sequentially or even simultaneously.

About the Kistler Group

The Swiss-based Kistler Group is one of the world's leading providers of dynamic technology for measuring pressure, force, torque, and acceleration. Kistler technology is used to analyze physical processes, control industrial processes, and optimize product quality.

Kistler offers a comprehensive range of sensors, electronics and systems for engine development, automotive engineering, plastics processing, metalworking, assembly engineering and biomechanics.

The Group is internationally represented thanks to its 30 sales and production companies, three tech centers and more than 30 agencies on every continent. This allows customers to benefit from local contacts as well as application support tailored to their needs.

The Kistler Group employs 1,350 people and, in the 2014 financial year, achieved sales of 319 million CHF.

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