

## Media release

**Moulding Expo 2017:**

### **Kistler showcases practical sensor integration for injection molds**

**Winterthur, 25 April 2017 – At the second international Moulding Expo in Stuttgart (from 30 May until 2 June 2017), the Kistler Group will show how easy it is to install the measurement technology needed for quality assurance in injection molds. As well as offering visitors the chance to try out a realistic example of this technology, Kistler's stand at the international trade fair will focus on two product groups that feature new developments: sensors that are insensitive to their installation position and multichannel connectors.**

Sensor technology has to be integrated into molds in order to optimize the injection molding process. Growing numbers of injection molders see this as an essential requirement to prepare them for the 'digital revolution' – and to raise their product and process quality to new levels. Kistler identified this need at an early stage and at the Moulding Expo, the Group will showcase its solutions and tools designed specifically so that moldmakers can meet the requirements for integrated quality testing in the injection molding process.

#### **Hands-on! Sensor installation in six steps**

At Kistler's stand E61 in hall 5, customers and visitors can try this technology out for themselves and learn how easy it is to integrate Kistler's sensors into injection molds. In six steps, we'll show you how sensors are positioned, installed, cabled and function-tested. Kistler is constantly working to make it as simple as possible for moldmakers to integrate measurement technology into their processes. As well as special tools and an extensive range of accessories, the Swiss specialist offers practical support through worldwide service and training units on sensor installation, commissioning and maintenance.

#### **Multi-channel connector – with added new features**

With the new Type 1722 multi-channel connectors by Kistler, up to eight sensors can easily be linked up via single-wire plug connections – so there's no need for screwed joints, and the connector is more robust. The new, completely redesigned connecting elements ensure simple, error-tolerant sensor installation and what's more, they are backwards-compatible with the predecessor version as regards connections and space requirements. Whether the four-channel or eight-channel version is used, changing the connection elements is a straightforward operation. This technology also enables combined pressure/temperature measurements (with the help of an additional thermocouple amplifier).

#### **Sensor installation made simple – with the new Type 6185 by Kistler**

Cavity pressure is one of the key factors in the injection molding process. Piezoelectric sensors from Kistler allow you to capture long-term measurements of this variable with high linearity, independently of temperature: a critical contribution to quality assurance. Depending on the sensor installation conditions, part geometries and plastic materials, Kistler offers a wide choice of variants for direct in-cavity measurements, indirect and contact-free measurements, or combinations for contact temperature measurement.

At the Moulding Expo 2017, Kistler will unveil its new Type 6185 sensor, which is insensitive to its installation position. This product has been systematically adapted to confined installation conditions – its frontal diameter is a mere 2 mm – and its design ensures that measurement results can-

not be falsified by lateral forces (such as those caused by difficult installation conditions). The results: maximum precision with simplified sensor installation. With this sensor too, signal transmission can be implemented with a conductive spacer sleeve instead of via cables.

## Piezoelectric sensor technology by Kistler: the basis for process monitoring

To be sure that their machines will meet the requirements of the future, more and more manufacturers are turning to integrated quality assurance in the injection molding process. Kistler's ComoNeo monitoring system offers a reliable solution for monitoring cavity pressure and forecasting part quality. However, there is one key requirement for the sought-after goal of zero-defect production: sensor technology must be suitably integrated at mold level. The Kistler Group will demonstrate the wide-ranging options for achieving this goal – and will highlight some points to note during sensor installation – at the trade fair in Stuttgart from 30 May until 2 June. Anyone interested is warmly invited to visit stand E61 in hall 5 at the fair.



Illustration 1:



Illustration 2:



Illustration 3:

### Captions

Illustration 1: The **Type 1722 multi-channel connector** features robust handling, with simpler connection of single-wire cables to ensure the best possible protection against contamination.

Illustration 2: The **Type 6185** pressure sensor is insensitive to its installation position – easy to fit, with increased precision.  
Illustration 3: **ComoNeo**: the process monitoring system that maximizes efficiency for injection molding.

## 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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