



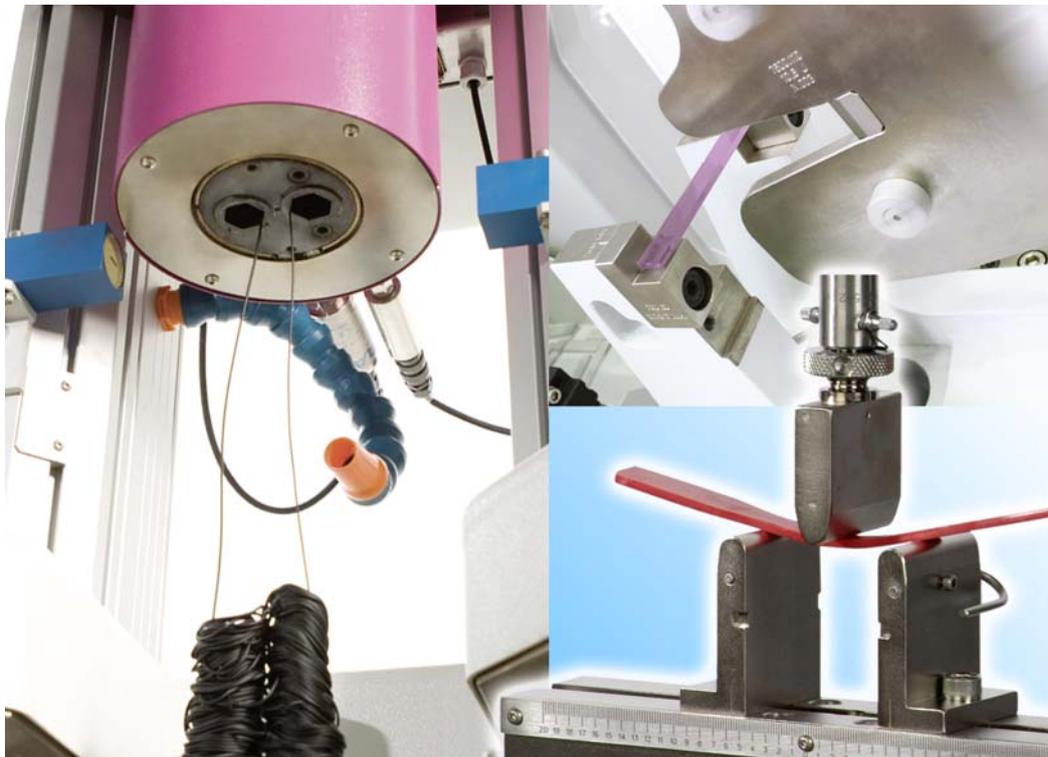
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## PRESS RELEASE

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### Instron at Fakuma 2012: Measurement and Testing Systems for Research, Development and Quality Assurance



High-precision Instron testing systems monitor the rheological and mechanical properties of polymers, from research and development to industrial quality assurance.

Photo: Instron

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## **Instron at Fakuma 2012: Measurement and Testing Systems for Research, Development and Quality Assurance**

**Pfungstadt/Germany, August 2012** – At Fakuma 2012, held from 16 to 20 October 2012 in Friedrichshafen, Germany, Instron will once again underscore its position as a competent partner in all areas of plastics testing at its stand no. 3101 in Hall B3. Testing systems being showcased range from systems for the measurement of flow properties, through impact testers, to solutions for static and dynamic measurement of the properties of materials and components. Innovative products at the exhibition include new, optional accessories for melt flow testers, which significantly enhance the convenience of the testing procedure. Further highlights at the show are a high-precision, instrumented pendulum impact tester, on which Instron will demonstrate Charpy notched bar impact tests, and an electromechanical test machine optimised for low forces, which will be running 3-point bending tests to ISO 178.

The new manual weight selection system available for Instron® CEAST Melt Flow Testers is designed for single-weight measurements in accordance with ISO 1133 Methods A and B and ASTM D1238. It bridges the gap between completely manual handling of weights, and the fully automatic weight selection system present on CEAST MMF Multiweight Melt Index Testers, and is suitable for attachment to modular systems equipped with a motorized weight lifting system and encoder. Basic elements are a weight support for a complete set of test weights from 0.325 kg to 21.6 kg and an easy-to-use mechanical system for preselecting the required test weight. All weights remain on the machine at all times. The new weight selection system has to be ordered together with the basic unit and is compatible with other options such as a load cell for material compacting, an extrudate cutting device, a die plug device, etc.

Instron's CEAST 9050 universal pendulum impact tester showcased at Fakuma is designed for instrumented and non-instrumented impact testing. It consists of a high-stiffness, monolithic, cast-iron frame structure, which helps to minimize measuring errors and accommodates all attachments. The impact tester will be shown in conjunction with the recently introduced



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DAS 64K data acquisition system, which provides 4 measurement channels and a storage capacity of 64.000 data points for high-resolution analysis of transient loading processes.

3-point bending tests will be demonstrated on an electromechanical tensile tester type Instron® 5942. This machine is part of the Series 5940 family of single-column table-top testers, which due to their extremely small footprint require only a minimum of space in the test laboratory. Its stiff mechanical design ensures optimum repeatability of test conditions and reliable test result. With a nominal force capacity of 0.5 kN and 726 mm vertical daylight, the model 5942 shown at Instron's stand is the smallest model in the series. Like the larger models in the series – the 5943 (1 kN, 1123 mm) and the 5944 (2 kN, 1123 mm) – it provides superior measuring accuracy in the lower force range. Consequently, typical applications include testing of biomaterials, textiles, elastomers, small components, plastic fibers and foils. The machine on show will be equipped with grips type 2810-400 for bend testing up to a maximum test force of 5 kN.

**Instron** ([www.instron.de](http://www.instron.de)) is a globally leading manufacturer of test equipment for the material and structural testing markets. A global company providing single-source convenience, Instron manufactures and services products used to test the mechanical properties and performance of various materials, components and structures in a wide array of environments. Instron systems evaluate materials ranging from the most fragile filament to advanced high-strength alloys. With the combined experience of CEAST in designing plastic testing systems, Instron enhances materials testing offerings, providing customers with comprehensive solutions for all their research, quality and service-life testing requirements. Additionally, Instron offers a broad range of service capabilities, including assistance with laboratory management, calibration expertise and customer training.

Instron is part of the Test and Measurement division of the US based **Illinois Tool Works (ITW)** group of companies with more than 850 distributed business units in 52 countries worldwide and a staff of approx. 60,000.

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