

Poppe + Potthoff Maschinenbau GmbH
An der Helme 26
99734 Nordhausen (Germany)

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PRESS INFORMATION

Fakuma 2018: Testing plastics under pressure

Test benches from Poppe + Potthoff Maschinenbau (Hall FO, Stand FO-02) test media-carrying plastic components with +/- 0.1 bar tolerance for pressure resistance

Numerous tests are required to validate new plastic components for practical use. For housings and media-carrying components, for example, the tightness as well as the resistance to flow and pressure changes must be tested until the burst. For this purpose, Poppe + Potthoff Maschinenbau offers test benches with measuring capability using a specially developed fine control method.

"With our test benches for the plastics industry, the pressure is built up using a technology that is faster, more precise and requires less maintenance than conventional systems," says Johannes Montag, Head of Sales at Poppe + Potthoff Maschinenbau. For this purpose, two test circuits with different operating modes were combined:

A specially developed, wear-free fine control method with a tolerance of +/- 0.1 bar enables a very precise, freely programmable and repeatable pressure increase up to 50 bar. In a second test circuit, a pneumatically driven pressure intensifier operates, with which a pressure of up to 400 bar can be generated.

With up to 100,000 measured values per second, the burst pressure of a component with an expansion volume of up to 20 liters is determined precisely. Measurement data acquisition and visualization is performed with LabVIEW from National Instruments, which has a serial interface for data exchange. The test requirements are entered via a touch panel. The test medium is tap water or test oil.

1623 characters (incl. spaces), 252 words

Photos:



Photo 1: The burst pressure test stand for plastic components from Poppe + Potthoff Maschinenbau enables high-precision and fast testing.

Source: Poppe + Potthoff

Photos in printable quality: [Download ZIP](#) or via press.info@oha-communication.com

Poppe + Potthoff Maschinenbau GmbH designs and manufactures test stands for measuring the strength and durability of components in automotive engineering and shipbuilding as well as other industries. The precise and high-performant special machines by the specialist for high-pressure and test technology are used in research, development and production. This includes test stands for measuring bursting pressure and tightness, impulse testing, autofrettage as well as automated testing. In addition, comprehensive component tests are offered as a service. The company based in Nordhausen (Germany) is a member of the Poppe + Potthoff Group.

Poppe + Potthoff stands for precision. The group develops and manufactures customer-specific steel tubes, common rail subsystems, high pressure tubes, precision components, line shafts, couplings as well as specialized test stands and other machines. Poppe + Potthoff enables highly sophisticated solutions in automotive engineering and shipbuilding, machine tool building and mechanical engineering as well as other industries. The family-owned enterprise with its headquarters and technology center in Werther (Germany) was founded in 1928 and has more than 1,500 employees. Poppe + Potthoff is active in more than 50 countries with its subsidiaries and long-term partners – always in close contact with its customers. www.poppe-potthoff.com

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