

Poppe + Potthoff GmbH
Dammstraße 17
33824 Werther
Germany

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PRESS RELEASE

Control 2012: Poppe + Potthoff presents new test stands for components under high pressure

Poppe + Potthoff Maschinenbau develops and manufactures test stands specifically designed to meet the requirements of high pressure usage. Testing and ensuring the quality of components with the highest precision is of the utmost importance for pipes used in common rail diesel injection systems, hydraulic tubes or pressure-limiting valves, because the complete system will only work reliably under high pressure if every single element passes the most rigorous tests.

“Our products are designed in close communication with the customer, mostly in parallel with their new products and accompany these from the prototype to serial production,” explains Frank Baudler, Head of Engineering at Poppe + Potthoff Maschinenbau in Nordhausen (Germany). “As we are part of the design process right from the beginning, we often end up being the first in the world to be able to offer a reliable test stand for the new specifications.”

The expert for high pressure technologies designs and manufactures specialized test stands for research, development and production, including test stands for bursting pressure and tightness, impulse testing, autofrettage as well as automated testing and sorting.

At the Control trade fair, taking place in Stuttgart between May 8 and May 11, 2012, Poppe + Potthoff Maschinenbau will present three new test stands:

- World debut: Impulse test stand PPM-I-6000-15-120 with up to 6,000 bar at 1 to 30 Hz
- Bursting pressure testing with up to 10,000 bar: PPM-B-10000-W
- 100 per cent sorting system testing 10 characteristics at 3 second intervals

Strong impulses at up to 6,000 bar:

For the first time, Poppe + Potthoff, the expert in high pressure technologies, is presenting a test stand producing high pressure impulses up to 6,000 bar with a frequency between 1 and 30 Hz. The PPM-I-6000-15-120 is able to quickly and precisely test the durability and strength of diesel injection tubes, common rail components, pump bodies and heads, etc. under pulsating inner pressure. Tests are performed using hydraulic oil, with all results saved automatically.

Bursting under observation:

For safe and efficient testing of components exposed to high pressure, Poppe + Potthoff developed a test stand performing bursting pressure tests at up to 10,000 bar and identifying breaking points in hydraulic tubes and brake or airbag components, among others. The pressure curve can be visualized using the software provided with the PPM-B-10000-W on a normal PC, all results are automatically archived.

100 per cent testing at 3-second-intervals:

This fully automated sorting system for cap nuts performs tests on individual components at three-second-intervals. It is suitable for in-line testing of all components. It measures contact-free with a precision of 1/1000mm, tests them for flaws with ultrasound and performs a hardness test (Vickers). Finally, all components are automatically sorted according to different specifications.



Images: Poppe + Potthoff puts the pressure on: The PPM-I-6000-15-120 produces strong impulses up to 6,000 bar (1). The PPM-B-10000-W bursts components at up to 10,000 bar (2). At 3-second-intervals, the sorting system tests cap nuts (3). Source: Poppe + Potthoff Maschinenbau. Images available for printing at: www.oha-communication.com/poppe-potthoff

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 specialized machines made by the experts for high pressure technology are designed for precision and high-performance and 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 and sorting. 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 1,200 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

Contact:

Martina Engler-Smith
Poppe + Potthoff GmbH
Manager Marketing
Phone: +49(0)5203 / 91 66 327
Mobile: +49 (0)162 / 854 84 38
E-Mail: martina.engler-smith@poppe-potthoff.com
Internet: www.poppe-potthoff.com

Agency:

Oliver Frederik Hahr
oha communication
Consulting and Public Relations
Phone: +49 (0)711 / 50 88 65 82-1
Mobile: +49 (0)176/ 51 22 22 88
E-Mail: oliver.hahr@oha-communication.com
Internet: www.oha-communication.com