

Poppe + Potthoff GmbH
Dammstraße 17
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PRESS INFORMATION

Impulse testing from minus to plus

Poppe + Potthoff Maschinenbau presents a unique rig for testing innovative components under varying pressure and temperature conditions

New materials allow for improving the functions, weight or cost of a component. However, rigid tests need to be performed before a newly designed product can finally go into serial manufacture. Novel air intakes made of special plastic, for example, need to withstand quick and extreme changes in temperature while performing steadily under pulsating positive and negative pressure.

Poppe + Potthoff Maschinenbau now enables test engineers to move thermal- and pressure-cycling tests from the road to the lab. The new test stand PPM 278-00 simulates even the most extreme real-world conditions, be it in the Arctic or the Sahara. A spacious climate chamber enables the parts on test to be exposed to temperatures from -72°C to +180°C (-97.6°F to 356°F) and humidity up to 98%.

The pressure adjustment ranges from -0.8 to +3.5 bar at a test frequency of 0.5 Hz and a test volume of 15 dm³. This allows for variable pressure pulsation tests to be performed in the overpressure-overpressure, overpressure-vacuum and vacuum-vacuum range. Three test connections are located on each side in the test chamber that can be individually shut off via separate valves. An automated tightness test can detect leaks in any individual test piece every X cycles and exclude it from the test circuit.

Poppe + Potthoff Maschinenbau introduced this unique pressure pulsation test stand at the Automotive Testing Expo Europe and is looking to expand in international markets, too. This year, the German expert for high pressure technology will also be attending the [Automotive Testing Expos](#) in China (booth 7027) and the USA (booth

5052). Its customized machines are designed for precision and high-performance and are used in research, development and production.

1914 characters (incl. spaces)

Photos:



Photo 1: Poppe + Potthoff Maschinenbau has developed a unique pressure pulsation test stand that allows for testing innovative components under negative and positive pressure and temperature conditions.



Photo 2: Frank Baudler (R&D), Stefan Dreyer (CEO) and Johannes Montag (Sales) represent Poppe + Potthoff Maschinenbau at the Automotive Testing Expo.



Photo 3: Expanding its capabilities, Poppe + Potthoff Maschinenbau has recently moved into a new and larger R&D and production facility in Nordhausen, Germany.

Source: Poppe + Potthoff.

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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

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