

PRESS RELEASE

Laboratory invests in the future – Würth Industrie Service relies on new testing options

Bad Mergentheim/Main-Tauber Kreis. State-of-the-art technologies, absolutely reliable test results, highest quality. All of this is offered by the test laboratory of Würth Industrie Service GmbH & Co. KG, which is specialised in fastening technology and is accredited for more than 50 test methods conforming to DIN EN ISO/IEC 17025 and which serves as an official and independent testing station for ensuring maximum product and process quality. In the area covering 800 sq. m., the highly qualified employees use the state-of-the-art testing devices to ensure seamless quality management. With the new testing options including a torsion test bench, scanning electron microscope and adhesive testing technology, the laboratory experts have their sights firmly set on customer requirements.

One thing is clear: progress needs investment. The C-Parts partner is currently demonstrating how this can be achieved in the accredited test laboratory with a wide range of test methods. With the new torsion test device, customised tests can be carried out on component screw connections with double the torque of 300 newton metres with a rotation speed of up to 1.500 rotations per minute. The vertical column test stand helps to screw in connectors with a weight of up to 500 kilograms vertically in order to determine various parameters like clamping force, breakaway torque and tightening torque. A free-moving tilt arm is added to the torsion test bench for optimally conducting tests on customer's components in inclined positions and multiple positions with a single placement. "With the new test bench, we have even more options for testing fasteners. We can advise our customers more precisely and support them in a better way when faced with challenges in various application scenarios," explained Sandro Nahm, Deputy Laboratory Manager at Würth Industrie Service. As the next technology, Würth Industrie Service is testing adhesives as they are being used increasingly in all areas of manufacturing. Based on comparable test series carried out on a separately set up gluing workstation, two trained employees determine which adhesives are suitable for what purpose depending on factors that range from quantity of the adhesive, strength of the adhesive connection to load-bearing capacity. As a comprehensive partner, Würth Industrie Service can now offer its customer a complete package ranging from consultation and testing of adhesives, required auxiliary materials such as more chemicals to recommendations for occupational safety items. Progress through innovation is also possible with the

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new scanning electron microscope. It can be used to map the broken and heavily stressed components at nano level. It is possible to detect the smallest of anomalies within the surface quality and specific properties of the fracture structure, such as fatigue striations, allowing detailed statements on the origin of the fracture or the cause of the error to be derived. The chemical composition of the sample can also be determined in the smallest space using a special detector.

As a result, the customers of Würth Industrie Service benefit from maximum commitment to quality – and this also applies to non-Würth parts. The accredited test laboratory is convincing because of its wide range of testing services as well as bundled processes at Bad Mergentheim - according to the motto “all from one single source”.

Accredited professionalism – A laboratory for our customers

It is the combination of comprehensive expertise, high-quality equipment and a wide range of services that sets the test laboratory of Würth Industrie Service apart as a testing service provider, even in the field of in-house quality assurance. The 20 specialists in total clearly focus on fastening technology. Among the highlights of the laboratory are the friction testing machine for fasteners for testing screws up to the size M80, a salt spray chamber for corrosion testing and a measuring room for measuring complex geometric tolerances with the latest 3D multi-sensor technology. Recently, the scanning electron microscope, torsion test bench and adhesive testing have become popular testing options in the laboratory. “We test fast response times with modern testing devices – just what our customers want”, says Jürgen Bauer, Laboratory Manager at Würth Industrie Service. “Within Würth Industrie Service, we inspect fasteners for departments like incoming goods, initial sample testing, application consultation and complaint management”, adds Mr. Bauer. The C-Parts partner in Bad Mergentheim also receives inquiries from all over the world, thus proving its expertise in quality control, application consulting and product development. To boost this expertise, the company trains and upskills its employees. For some 10 years now, material inspectors (m/f/d) have also been trained in the accredited test laboratory to meet the professional requirements.

Images

Captions:



Photo 1: Torsion test bench.jpg

Caption 1: With the help of the new torsion test bench, customised tests can be carried out on component screw connections.

Image source 1: Pia Schmitt, Würth Industrie Service GmbH & Co. KG



Photo 2: Torsion test bench_tilt arm.jpg

Caption 2: A free-moving tilt arm is added to the torsion test bench for optimally conducting tests on customer's components in inclined positions and multiple positions with a single placement.

Image source 2: Pia Schmitt, Würth Industrie Service GmbH & Co. KG



Photo 3: Scanning electron microscope.jpg

Caption 3: With the scanning electron microscope, the experts at Würth Industrie Service are now able to analyse components at nano level.

Image source 3: Pia Schmitt, Würth Industrie Service GmbH & Co. KG

Brief profile of Würth Industrie Service GmbH & Co. KG

Within the Würth Group, Würth Industrie Service GmbH & Co. KG is responsible for supplying to the industrial sector. Since its foundation in the year 1999, the company is located at Industriepark, Würth in Bad Mergentheim, Germany with over 1,750 employees.

As a one-stop C-Parts provider, the company offers its customers a specialised product range with over 1,400,000 items: from screws and tools to connection and fastening technology, technical chemicals as well as occupational safety solutions. In addition to the extensive standard product range, the strength of the company lies in its customer-specific, logistical and dispositive supply and service concepts as well as special parts. Under the service brand "CPS® - C-Product Service", the company offers modular solutions customised as per the customer's requirements. These consumption-based and demand-based systems streamline the processes for purchase, logistics and quality assurance while enabling the procurement of small parts in a cost-optimised manner. Logistic and dispositive services such as shelving systems that use scanners or a just-in-time supply using Kanban bin systems play a significant role in increasing productivity.