

The logo features the Würth symbol, a red shield with a white 'W', followed by the text 'WÜRTH | INDUSTRY' in a bold, black, sans-serif font.

WÜRTH | INDUSTRY

WÜRTH INTEGRATED QUALITY

A close-up photograph of a precision tool, likely a reamer or drill bit, with a red chip being removed. The tool is positioned vertically, and the red chip is suspended in the air above a circular metal component. The background is blurred, showing industrial machinery and a stack of metal parts.

ISO 9001:2015 & A2LA Accredited

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When you partner with Würth, you can trust that we are dedicated to delivering quality parts tailored to your requirements from the initial quote to the final delivery.

We take immense pride in providing our customers with the assurance of security through our documented quality processes, executed by our expert quality and engineering teams.

Our commitment to quality is demonstrated by ensuring a safe and reliable supply of products and consumables, supported by an integrated process management system that includes:

- A thorough technical contract review process

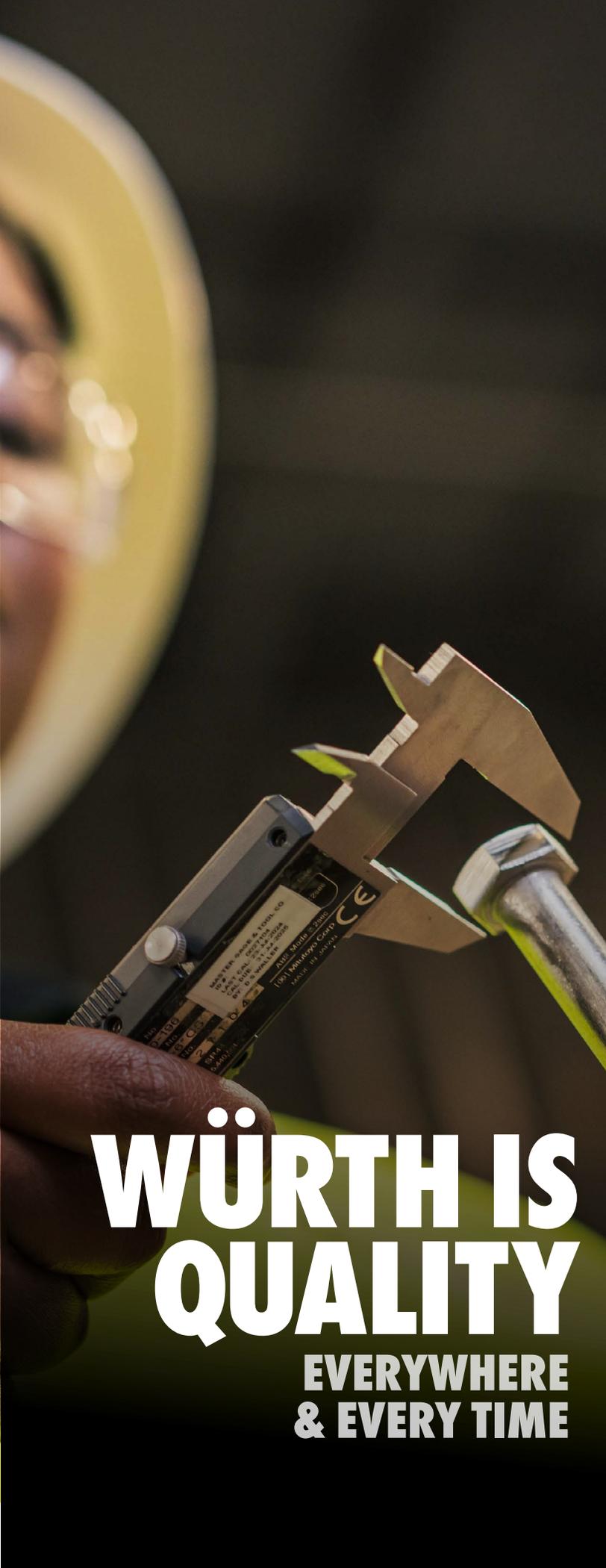
- A robust supplier management program with detailed supplier qualification

- A comprehensive multi-level incoming goods inspection process

- Full traceability of lots/batches and accompanying documents

- An A2LA-certified lab specialized in fasteners

Marius Schmitt
Senior Director Quality
Product & Engineering



WÜRTH IS QUALITY

**EVERYWHERE
& EVERY TIME**

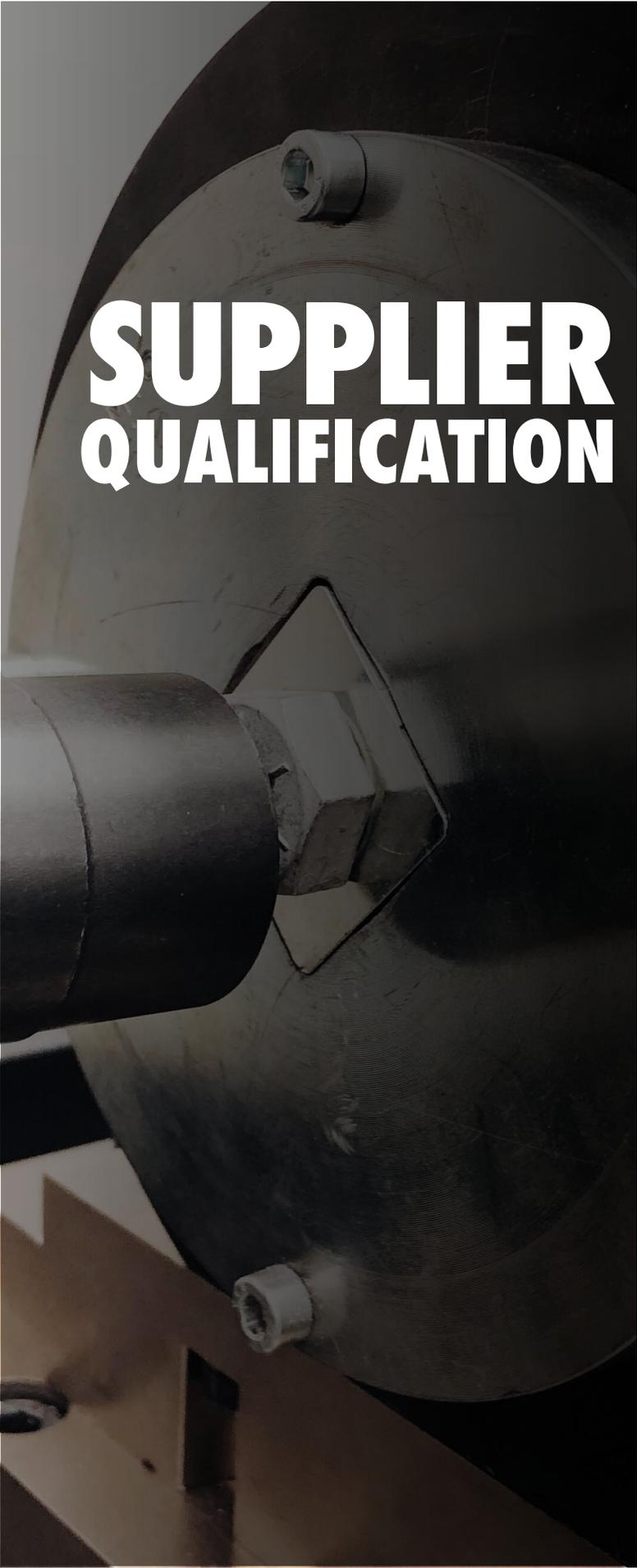
No matter the application, high-quality parts are critical to ensuring high-quality results. Würth customers need to know that the parts they use will meet or exceed their quality standards, so we make no compromises when selecting suppliers and testing and approving the products we supply.

We are committed to continuously improving our procedures and maintaining our business management system, **ISO 9001:2015**, which is the framework of the Würth Integrated Quality operations. Thanks to clear documentation and specifications for our business, we ensure reliable processes, secure supply, and consistently high product quality.

WÜRTH INTEGRATED QUALITY

Würth assures product quality through the following processes:





SUPPLIER QUALIFICATION

We utilize an integrated process to source control our incoming goods. These sources are approved by Würth's global network of Source Quality Engineers (SQE's).

The SQE network is operated in Germany by Adolf Würth GmbH and Co. KG and Würth Industrie Service, and by Würth Industry USA here in the United States. We utilize one audit format to ensure global consistency.

We thoroughly audit our global network of suppliers to ensure they maintain corporate and social responsibility programs, utilize sound manufacturing processes, and have a strong, reliable supplier quality program.

These audits minimize risk for Würth and our customers by providing opportunities to identify improvements to supplier processes and programs. If a weakness is identified, we work side-by-side with the supplier to ensure robust corrective actions are taken to resolve the issue.

To approve our suppliers, Würth will...

Perform an assessment of the supplier using a risk-based approach

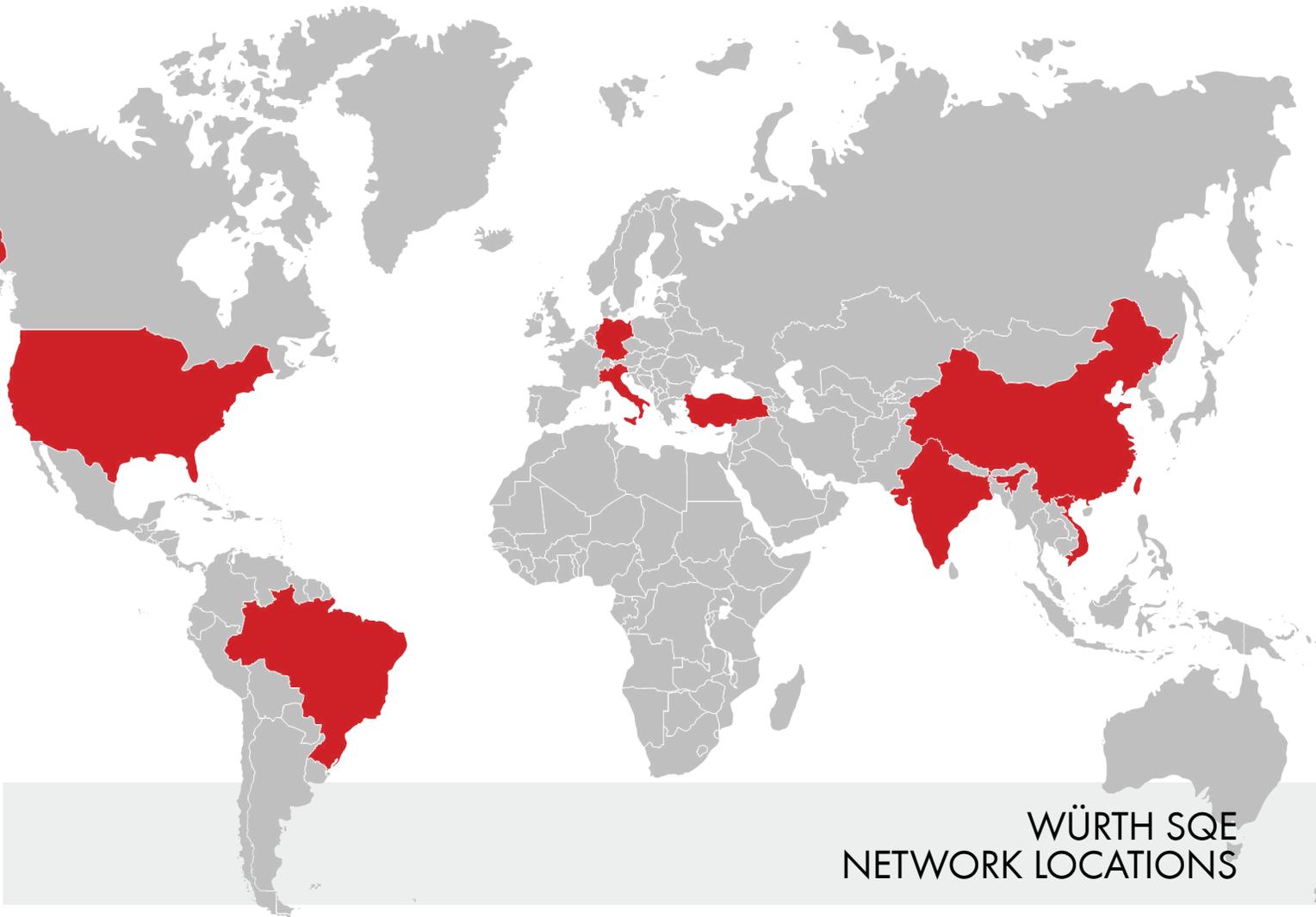
Perform any necessary follow-up with the supplier to close out findings

Issue a trial order to the supplier

Complete a thorough evaluation of the products based on our inspection matrix

Recommend the supplier for approval to the SQE Committee

Around the world, Würth companies can only procure products from our qualified suppliers.



WÜRTH SQE NETWORK LOCATIONS

SQE GLOBAL NETWORK

Our network of suppliers reaches across the globe, so our SQE’s reside around the world to provide Würth’s global customers with a consistent quality standard.

Our 30+ SQE’s reside in the following countries	
North America	USA
South America	Brazil
Europe	Germany
Europe	Italy
Asia	China
Asia	Taiwan
Asia	India
Asia	Turkey
Asia	Vietnam



INCOMING GOODS INSPECTION

We maintain a comprehensive quality assurance process to test the quality of incoming goods. Our Quality Engineering team has developed rigorous and consistent testing plans in accordance with recognized industry specifications and legal requirements.

These tests can include:

- Material quality and dimensional verifications
- Mechanical testing
- Form, fit, and function checks
- Batch control

We take pride in our ability to assure our customers that all of their products' quality requirements are fulfilled.

WORLDWIDE WÜRTH LABORATORIES ON-SITE INSPECTIONS

Our incoming goods inspections and testing are completed through our quality laboratories, both internationally and domestically.

We partner with five labs in Europe and Asia that serve as an extended “workbench” of the incoming goods inspection.

Bad Mergentheim Lab Germany

Shanghai Lab China (Würth International China)

Central Distribution Center (CDC) Haiyan Lab China (Würth China)

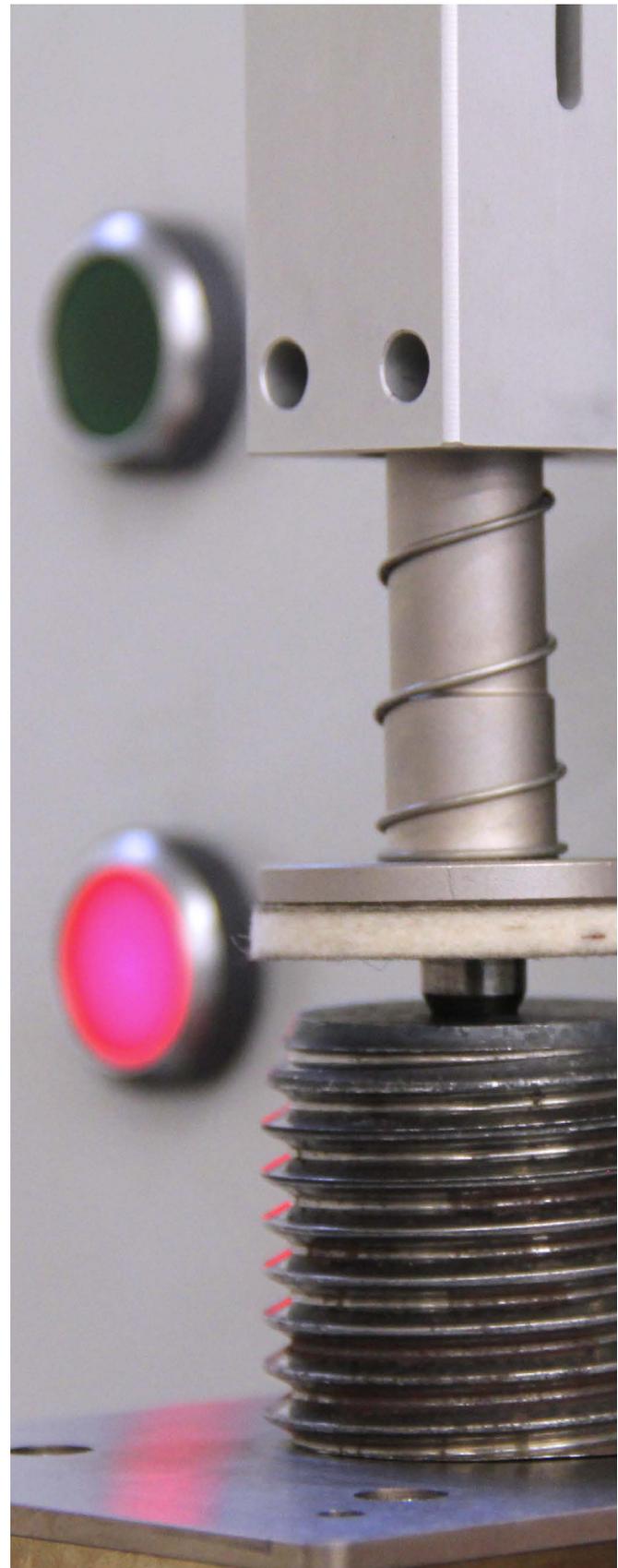
Kaohsiung Lab Taiwan (Adolf Würth GmbH & Co. KG Taiwan Branch)

Delhi Lab India

Our expert inspectors carry out quality inspections in their respective labs and on-site at supplier facilities. These inspections identify variations in quality before parts or materials ship from overseas, providing us an opportunity to remedy variations by reworking measures or postproduction.

Once the product has arrived in the U.S., we utilize Würth Industry USA’s labs to perform any additionally required inspections and tests in the following locations:

- **Greenwood, IN**
- **Brooklyn Park, MN**
- **Houston, TX**





COMPREHENSIVE TESTING SOLUTIONS

Würth provides a vast array of testing capabilities through:

Salt Spray Cabinet

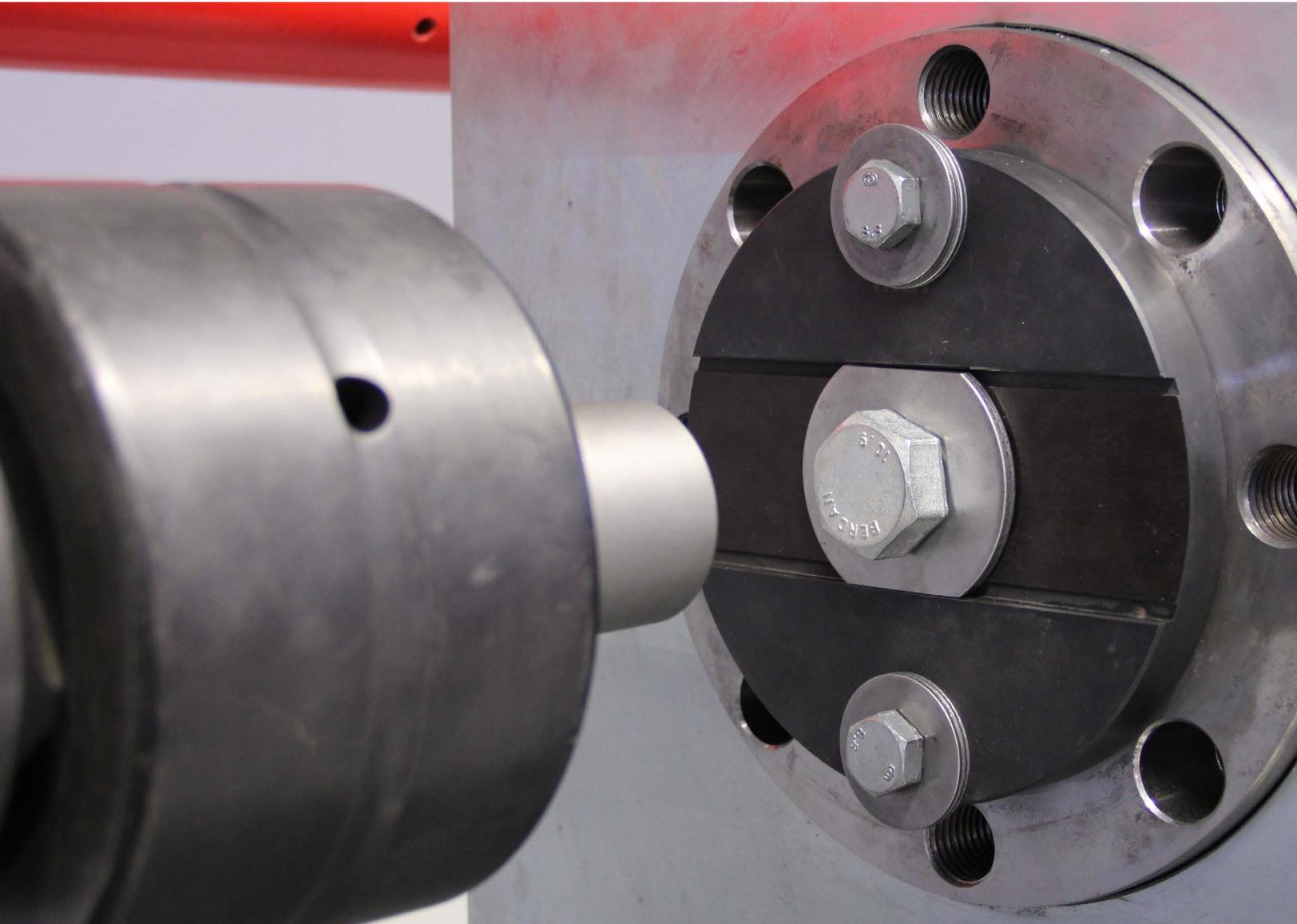
Friction Coefficient Testing

Thermo Scientific XRF Analyzer

X-Ray Coating Thickness Testers

Rockwell and Vickers Hardness Testers

Micro Hardness Testers



SCREW CONNECTIONS

Friction Coefficient Testing

A pre-tensioned screw connection is not possible without friction. At the same time, the friction coefficient must be as stable as possible to allow an easy assembly and maximum load-bearing capacity. We can test screws from ¼"-1" (M6-M24), depending on grade and part configuration, up to 1,000 ft-lbs of torque.

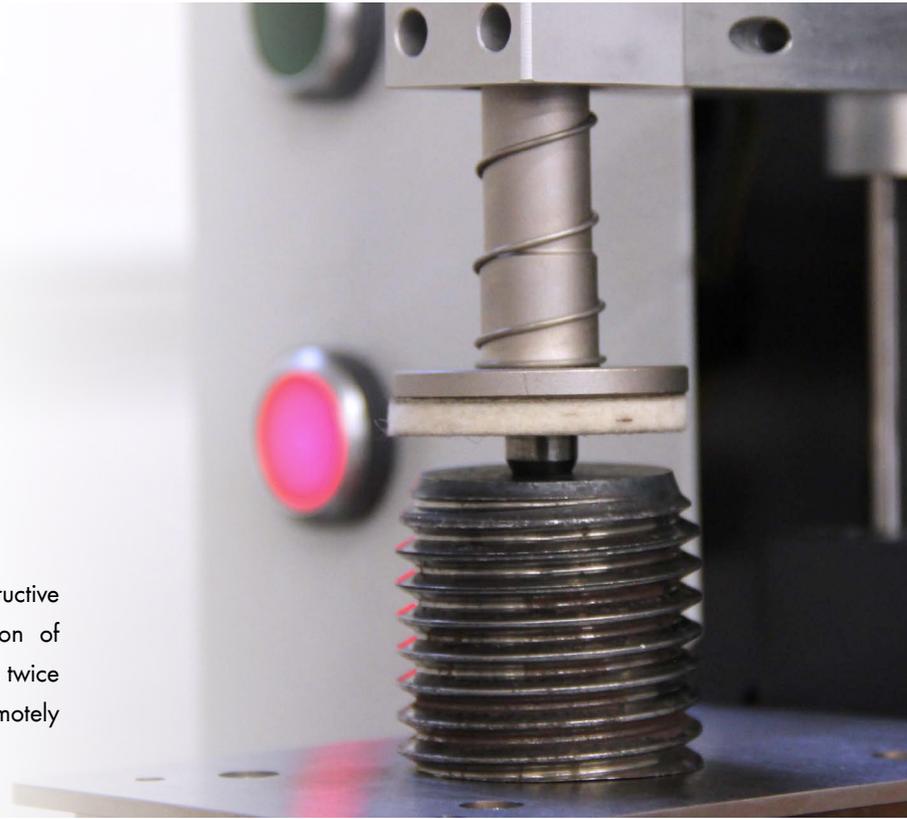
Torsion Testing - Testing of Special Screws

Many products and components are subjected to torsional forces during their operation. We can test fasteners which are subject to such torsional stresses when used in various applications. By testing them in torsion, we are able to simulate real life service conditions, check product quality, and ensure they meet their requirements.

MATERIAL SCIENCE

Material Verification Analysis

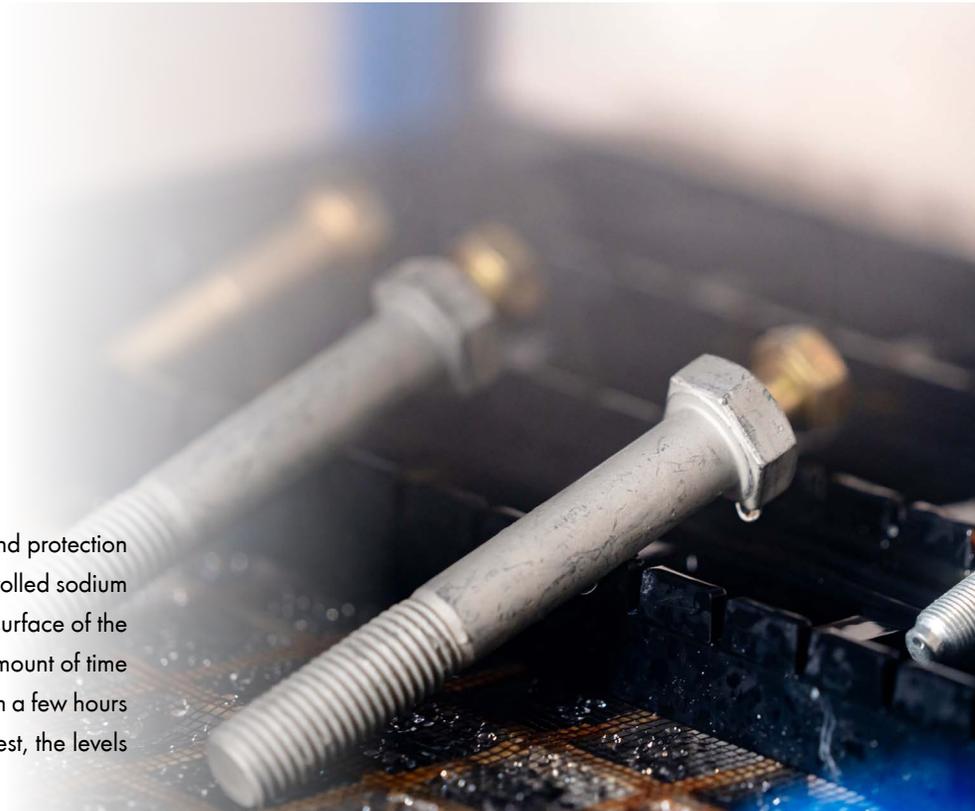
Our portable X-ray fluorescence spectrometer is a non-destructive analytical device used to verify the elemental composition of materials. Our system, which uses a 50kV x-ray tube provides twice as much x-ray flux as a 40kV tube. PC software is used to remotely control unit, view analyses, and generate reports.



SURFACES

Corrosion Testing

Our salt spray cabinet allows us to test the resistance and protection level of coatings by exposing the test samples to a controlled sodium chloride solution. The solution continuously attacks the surface of the test samples in the salt spray chamber for a specified amount of time based on the requirements. The testing time can last from a few hours up to several thousand hours. Upon conclusion of the test, the levels of white rust and red rust can be assessed.



HARDNESS TESTS

Metal Components

Our hardness testing capabilities include Rockwell testing methods that determine the core hardness of metallic fastening components in line with current standards. We also utilize Vickers and Knoop testing methods for evaluating the depth of case hardness on tapping screws, thread rolling screws, and other fasteners. Thanks to state-of-the-art equipment, we have improved our productivity through simultaneous

Rubber and Plastic Components

Plastics and rubber are tested for their hardness using the Shore A and Shore D methods for elastomers or thermoplastic elastomers, depending on their hardness.

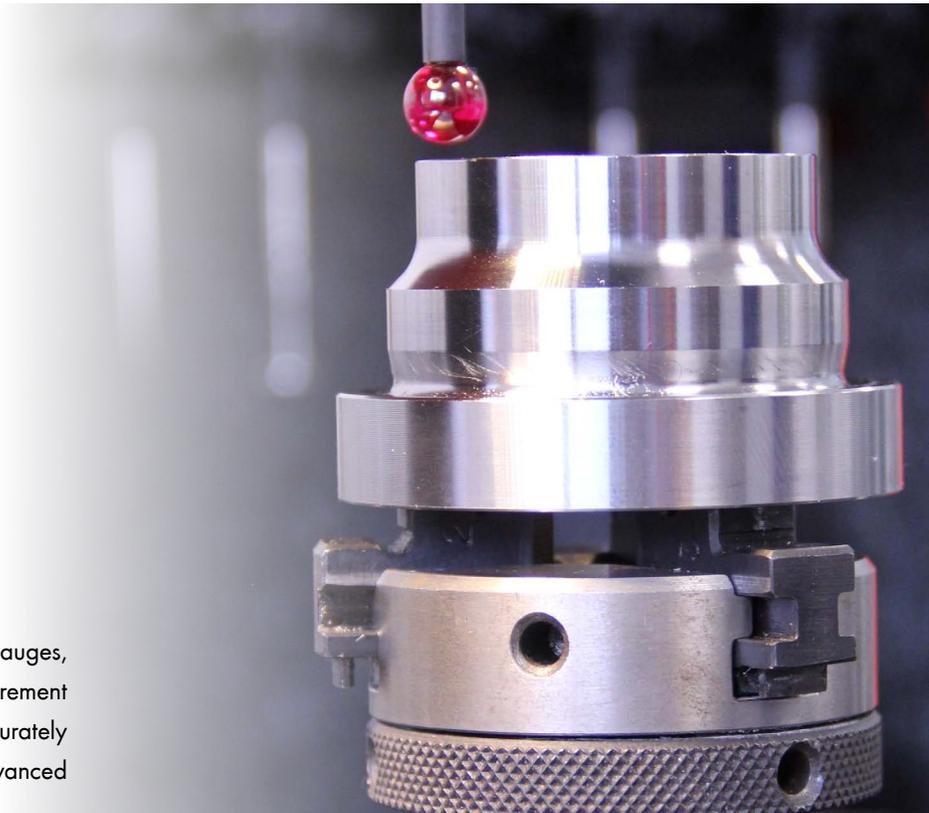


Vickers Hardness Testers

GEOMETRY

Dimensional Testing

With our full accompaniment of calibrated hand gauges, micrometers, calipers, ring gauges, thread plugs, pitch measurement tools, and comparators; tolerances and ranges can be accurately measured and met for not only dimensional, but also for advanced thread measurements.





Accredited Laboratory

A2LA has accredited

WÜRTH INDUSTRIAL US, INC.

Greenwood, IN

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 21st day of May 2025.

A blue ink signature of Mr. Trace McInturf.

Mr. Trace McInturf, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2816.01
Valid to June 30, 2027

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.

A2LA Accredited

Our Greenwood, IN lab is A2LA accredited for many standardized testing methods according to ISO/IEC 17025:2017 (certificate number 2816.01). This official recognition of our services denotes that we are a reliable and objective partner for quality assurance and product development, and are in line with international requirements for measuring and testing. You can place your trust in our accredited laboratory services.

DECLARATION OF COMPLIANCE

Our accreditations allow us to provide our customers with samples along with a Declaration of Compliance (F2.1) in accordance to ISO 16228:2017 upfront for all products built to industry or proprietary standards. This eliminates the need to progress through the expensive process of customer approved sample submissions.