

Non-destructive examination (NDE)

- Visual tests (VT)
- Magnetic particle crack tests (MT)
- Dye penetrant test (PT)
- Ultrasonic test (UT)
- Ultrasonic wall thickness measurement (UTM)
- Test supervision by level 3 tester

Metallography

- Macroetching
- Determination of case hardening depth
- Determination of degree of purity
- Determination of grain size
- Structural examinations
- Weld seam geometrics
- Measurement of layer thickness

Simulating heat treatment in laboratory furnace

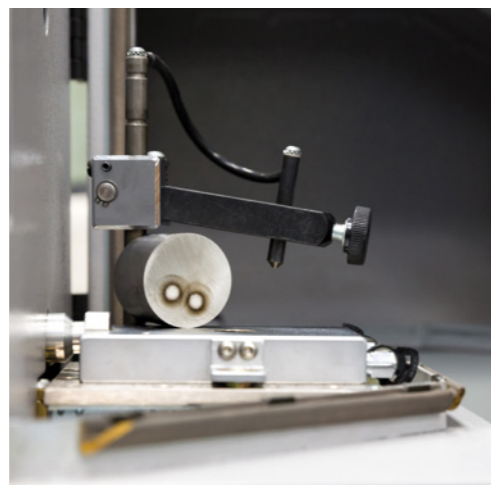
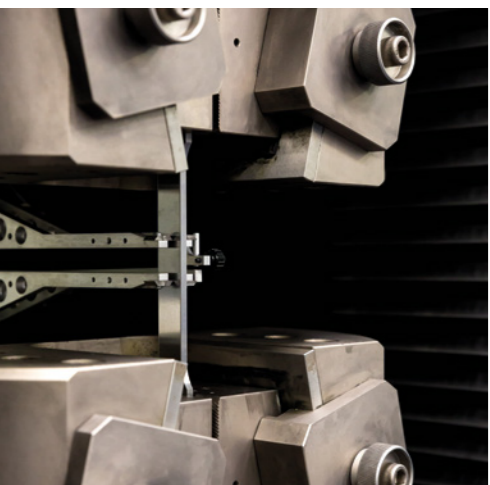
- PWHT annealing
- Normalization cycles
- Stress relief heat treatment
- Soft annealing
- Hardening and tempering annealing

Spectral analysis

- Optical spark emission spectrometry (OES) for determination of steel and ferrous materials
- Optical spark emission spectrometry (OES) for determination of chrome and nickel materials

Welding process tests

- Process according to
- DIN EN ISO 15614-1
 - AD2000-Bulletin HP2/1



Accredited LIMALAB test laboratory for
Material Tests



Contact

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Accredited and independent

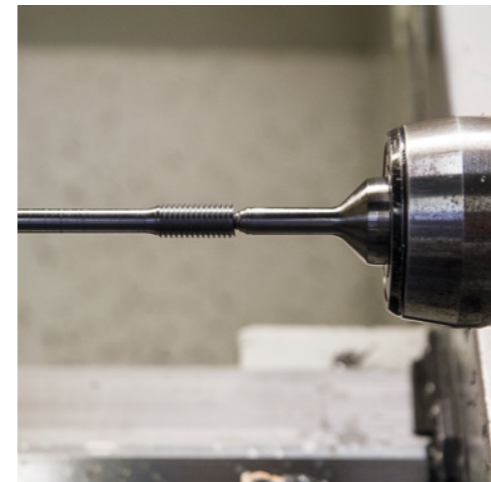
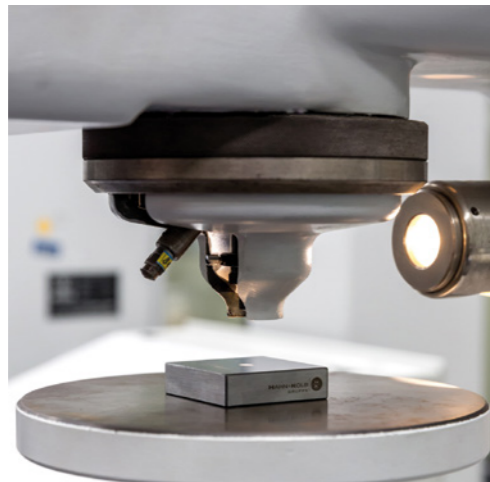
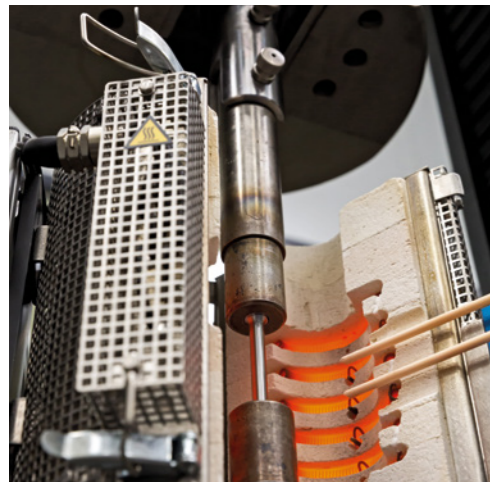
LIMALAB offers independent material testing facilities for all industrial sectors in the fields of mechanical, destructive or non-destructive tests. The test laboratory, accredited according to DIN EN ISO/IEC 17025, was developed by LISEGA SE, an international manufacturer of Industrial Pipe Supports used in the Nuclear, Power and petrochemical sectors. The independent test laboratory hereby plays a crucial role in quality assurance.



Services and Testing Processes

Mechanical/destructive material tests (DIN and ASTM)

- RT tensile test on round specimen (ASTM/DIN)
- RT tensile test on flat specimen up to a thickness of 18 mm (ASTM/DIN)
- Hot tensile test (on flat and round specimens) up to +1000°C (ASTM/DIN)
- Notched bar impact test to -85°C (ASTM/DIN)
- Mobile and stationary hardness test acc. to ASTM/DIN
- Strain ageing test
- Bending test (folding test), (ASTM/DIN)
- Weld bead bend test
- Technological ring tests (ASTM/DIN)
- Testing of connection components



Sample preparation and Service

Sample preparation and processing - we help in the preparation of your samples

LIMALAB is equipped with a modern, CNC-supported sample workshop for the preparation of samples, so we can react flexibly to customer requirements. In our mechanical sample workshop we have a highly qualified team on hand with, among other things, a large CNC-controlled machine park for the production of your samples. We also offer our customers metal-cutting services for sample production, such as sawing, grinding, turning and milling.

Flexible, fast and economical - full service for our customers

We regard our test laboratory as a service provider. For us, the swift implementation of customer needs and requirements is our main focus. We guarantee the speedy processing of your test commissions. Besides delivering quick results, we offer the acceptance and manufacture of large samples. In the case of very heavy samples our transport facilities can be used. LIMALAB documents all inspections and tests according to international quality standards, so secure and meaningful results are assured. In addition, we offer our professional support with regard to any queries on our services or test procedures.

Contacts

Your wishes and requirements are our main focus

Professional advice and personal contact, speed and flexibility in sample processing, as well as detailed and easily understandable test reports are the key features of our test laboratory.

We calibrate and test with the latest equipment, evaluate the findings on the basis of the relevant norms and provide our customers with meaningful results. You will profit from the experience and competence in material technology of our experts, whose professional expertise has been gained in many years of activity in a large material testing laboratory. To keep up to date with the latest technology, LIMALAB personnel regularly attend training courses and seminars.

The independent LIMALAB test laboratory, which forms part of the strong LISEGA Group, also offers its services to external customers. It can thereby exploit the facilities of the large and well-equipped LISEGA SE machine park to ensure that all requirements are satisfied.



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