

## **Competent services in the field of welding and related technologies**

The TÜV NORD group follows the entire process - from the designer's idea to the manufacture and testing of welded structures subjected to heavy static and dynamic loading, such as equipment and pressure vessels, load-bearing structures, elevators, cranes, load handling devices, etc.

To ensure product quality and safety in all tasks related to welding, soldering and related processing methods, TÜV NORD is your support as a competent and reliable partner at the national and international level.

We are familiar with national and international regulatory documents and technical regulations, e.g. The Act on Technical Requirements for Products, the Pressure Equipment Directive, the Lifts Directive, the Machinery Directive and we have accreditations for the certification of personnel, technology and products.

The quality of the products has a high value for the customer. To help your production, we offer consulting on all matters related to planning, design, construction, production, testing and acquiring the right to place the "CE" mark on your products. Our services also cover qualification and verification of sub-suppliers, testing of blanks and details, reviewing cases that relate to production quality.

Your requirements - our achievements

All our efforts are aimed at meeting your requirements for:

- Optimization of technologies;
- High safety standards;
- Maximum economic benefit;
- Environmental protection.

We offer:

- Certification of:

- Quality management systems according to EN ISO 9001, EN ISO 3834 and AD HP0;

- Manufacturers of equipment and pressure vessels, steam boilers and pipelines under Directive 2014/68 and AD 2000;

- Manufacturers of elevators, cranes under the Machinery Directive, etc.;

- Manufacturers of load-bearing structures according to EN 1090;

- Manufacturers and suppliers of railway vehicles according to EN 15085.

- Design and construction of facilities

Evaluating a welded structure in terms of strength, stiffness and crack resistance through failure mechanics is a sign of TÜV NORD's expertise. Our analysis is aimed at fulfilling the requirements for completeness, functionality, economic efficiency and quality.

- Testing, assessment of compliance with essential requirements and certification of products:

- Pressure equipment and functional groups according to modules A2, B (product), B (design), C2, F and G under Directive 2014/68.

- Basic, additional and auxiliary materials for welding.

- Recruitment, assessment and certification of personnel

A qualified specialist saves on quality costs. We qualify your staff – welders and operators of mechanized welding and soldering equipment, according to national and international regulatory documents, e.g. EN ISO 9606.

- Testing, evaluation and certification of technologies/procedures for:

- Welding metal materials and plastics, e.g. EN ISO 15614, EN 13067, etc.;
- Brazing, e.g. EN 13134;
- Other technologies - welding, layering, thermal spraying, lamination, etc. On steels and non-ferrous alloys.

- Testing of details, assemblies and structures

For conducting non-destructive, mechanical and technological tests, we have modernly equipped licensed laboratories.

- Technical supervision of facilities with increased danger

Metal vessels and pipelines, hoists, elevators in residential buildings, freight elevators, cranes, mobile work platforms, hoists, baskets for lifting people, forklift trucks, load handling devices, etc. are subject to technical supervision.

- Additional services

- Supervision of the client's request and documents;
- Facility acceptance testing;
- Commissioning test;
- Documentation check.