



image: ssguy/ Shutterstock

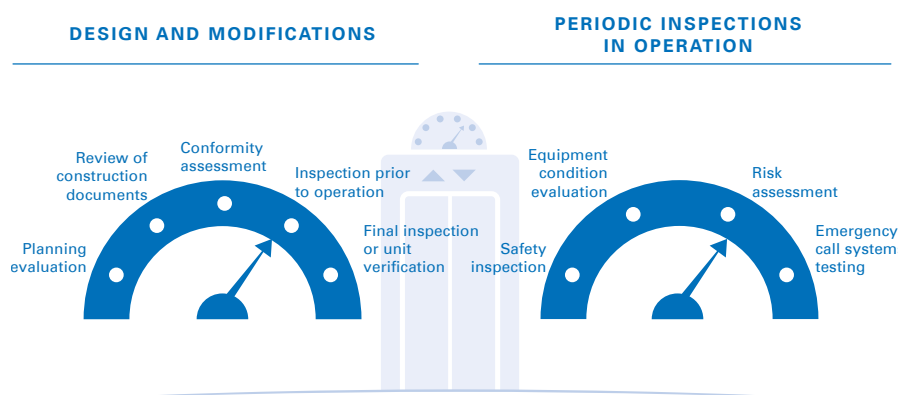
# Inspection and Certification Services for Elevators and Escalators

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 **TÜVRheinland<sup>®</sup>**  
Precisely Right.

# Inspection and Certification Services for Elevators and Escalators

Vertical transportation systems for persons should warrant a high degree of operational safety and availability for passengers. As an owner or operator of such installations, you are responsible for proving that your systems meet strict safety regulations. Regular maintenance and inspection of installations is typically stipulated by legislation.



We can provide you with professional support in several countries. We have many years' experience ensuring user safety for these systems. We are also accredited to assess the overall technical condition and reliability of people elevation systems.

With commissioning and periodic inspections, safety components testing and certification and technical assistance, we help you ensure that your components and systems comply with regional and international safety standards.

## **APPROACH AND SERVICES: OUR PORTFOLIO**

Sensitive systems that transport passengers such as elevators and escalators call for professional supervision. Even though manufacturers, installers and system operators do a good job, our safety inspections represent a very small portion of most budgets but help to ensure safe functioning for all users. We review design and technical documents, perform hazard analysis assessments and check safety of devices and components, including safety control systems.

We perform examinations and test elevators, escalators and safety components according to harmonized standards in Europe (such as EN 81 series, EN 115, IEC 61508), helping you obtain the EC type examination certification and/or CE marking for your products on the European market. Our experienced technical teams conduct testing efficiently and thoroughly, resulting in reduced operation costs and fewer interruptions in service. Upon completion of the examination, a test report and certificate of conformity may be issued. Furthermore, with the test results, we can help you optimize the energy efficiency of your elevators, based on the widely accepted standards (VDI 4707, ISO 25745). Periodic inspections enable statements to be made over the lifetime of the elevator system and its components, making precise planning of required maintenance measures possible. As part of our technical assistance services, we work with you to create maintenance plans, escape routes, and effective emergency communication, applying predictive services using both our data and yours.

## IMPORTANT INFORMATION FOR YOU

Elevator systems that transport people are required to be checked regularly.

As the system's operator, you are responsible for ensuring the functionality of all relevant safety components and entire system at all times.

## CONDITION ASSESSMENT OF ELEVATOR SYSTEMS

In addition to statutory audits, we perform the following condition assessment activities:

- Assess the current state of elevator components and the general system, including visual appearance of your elevator from a user perspective
- Ascertain effects of aging on individual components and availability of spare parts
- Perform reliability assessment and test the operational behavior of your elevator system
- Assess potential usage changes such as adaptations of building use (for example, expanding accessibility options)
- Analyze possible intersections with other legislation (for example, fire protection)
- Find opportunities to optimize the energy efficiency of your elevators

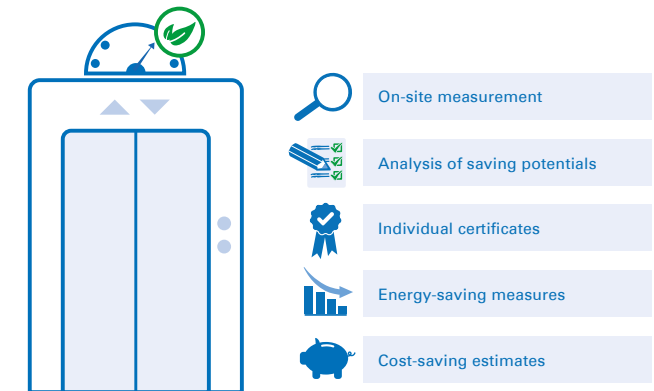
## COMPREHENSIVE COMPLIANCE SERVICES FOR WORLDWIDE MARKETS

Elevators destined for the European market, must adhere to the relevant EU directives. The Lifts Directive 2014/33/EU and the EMC Directive 2014/30/EU require that elevators pass safety assessments conducted by a Notified Body. As an EU Notified Body with comprehensive technical experience, we support you in obtaining required certification or approvals for your target market.

Several other regulations are applicable in Europe to elevator and escalator systems, including the Machinery Directive, Low Voltage Directive, and Electromagnetic Compatibility (EMC) Directive. While some guidelines are international, certain safety standards apply in different regions.

We also hold accreditations as Inspection Body or Certification Body in different countries and regions around the world, making us available to support you in placing your product in world markets and perform the initial or periodical inspections. Check your needs with our global network, and let us help you to meet legal safety requirements worldwide.

## ELEVATOR ENERGY EFFICIENCY



## YOUR BENEFITS AT A GLANCE:

- Neutral type and scope evaluations that inform modernization measures required
- Long-term experience in elevator technology and components
- Safe investment planning and reduction of operational expenses through early detection of issues
- Dependable inspection management to help you meet deadlines, supervise maintenance and conduct communication with third parties
- Thorough inspection report including recommendations for further action
- Unbiased partner on your side acting as a liaison for third parties, for example informing government agencies when need be
- Global expert network, easily reachable and available at short notice

## WHY TÜV RHEINLAND?

Our highly qualified experts are part of a long tradition of testing and inspections services, and draw on comprehensive technical know-how and experience. By taking advantage of our services you will be able to achieve more profitability in your business.

We are an accredited third party testing company and Notified Body. If necessary, we act as a liaison to the competent authorities. We have the necessary resources to deliver services worldwide and incorporate the same high test standards globally. Our experts are at your disposal and can answer your questions.

## INCREASE SAFETY AND PROFITABILITY

LIFTIS® is our modern electronic elevator testing system for traction sheaves and hydraulic elevators. State-of-the art technology performs tests in record times which translates into shorter downtimes for your assets. Our global network enables us to provide high test standards worldwide. We are happy to support you on all topics concerning elevators.

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