Global Machinery Safety Assessments

The prevention you need to keep your machines safe

In an increasingly competitive world, production facilities must adapt quickly to new demands. This can mean setting up additional facilities in different countries, installing new machines or modifying existing production equipment. Corporations and their safety engineers are responsible for overseeing this ever changing landscape of safety regulations for new, outdated and modified machinery at the local and global levels. TÜV Rheinland's Machinery Safety Assessment provides a customised review of the current safety implementation that helps define and manage corporate safety strategies.
Why safety?

Along with the moral obligation to protect all workers from harm, there are stringent laws requiring machine safety regardless of whether equipment is installed in Europe, Asia, North America or South America. Machine safety also mitigates risk as there are sound economic reasons for ensuring the reduction of workplace-related accidents. The financial burdens of such incidents are obvious, such as sick pay for injured employees, whereas some costs are harder to identify. In fact, workplace-related injuries caused by unsafe or incompliant machinery also lead to increased insurance premiums, lost production, lost customers and even loss of reputation.

According to a Eurostat study, 3.2% of the workforce in the European Union (EU-27) reported an accident at work in a 12-month period. This means that approximately 6.9 million workers experienced an accident at work*. Calculating the costs of such accidents reveals that investing in occupational safety and health makes good business sense.

*Remark: Socio-economic costs of accidents at work and work-related ill health; European Commission, November 2011.

Benefits

- Update and upgrade existing machinery to meet compliance
- Uncover potentially hazardous areas and develop a road map to resolve safety issues
- Harmonise safety procedures between different facilities, countries and cultures
- Reduced risk of workplace-related accidents
- Machines in compliance with the law and corporate guidelines
- Guarantee comprehensive quality assurance of your industrial machines
- Prove that you are actively aware of the necessity to prevent accidents
- Improve your market position with speedier product introduction
- Document implementation of legal requirements with audit reports and certificates
- Benefit from short audit times and our extensive experience

69 Machine Directive Quality Systems

The recently reformed 2006/42/EC machinery directive (annex X) states the following: besides numerous technical changes for manufacturers of annex IV products, there is now an alternative procedure for conformity evaluation. The time- and cost-intensive prototype audit required for all annex IV listed products is no longer necessary. As of now, you can authorize TÜV Rheinland, an appointed testing institute, to issue the CE Mark following careful audit and documentation. The prerequisite for this is a certified, comprehensive quality assurance system that concurs with annex X of the directive. Issuing of the annex X certificate has been possible since December 29, 2009.
TÜV Rheinland is your reliable partner

- A global engineering staff trained to evaluate the risks associated with production machinery to align the safety standards of all of your production sites
- We offer on-site support at the production facility or OEM
- TÜV Rheinland, together with our extensive international network, help you navigate international markets. We are there for you at every stage in the machinery lifecycle – from development support, commissioning and modification to recycling

Our services

- Machine assessment based on national, international or corporate guidelines
- Evaluation of electrical and mechanical risks
- Risk assessments and accident analysis
- Assessment of machine and control operational safety
- Ergonomics, operability and serviceability check
- On-site inspection service for electro-magnetic compatibility and other electrical fields
- Customised evaluations to fit corporate guidelines
- Training of corporate staff responsible for safety in manufacturing plants regarding applicable safety laws and best practices
- Customised evaluation reports to fit your needs and show compliance
- Prioritise non-compliance

Preliminary Audit (optional)

Our employees will inspect whether your company's systems conform with the conformity evaluation procedure in an optional preliminary audit.

Product scope

- CNC machines
- Textile machines
- Food processing machines, etc
- Printing and packaging machines
- Woodworking machinery
- Generator sets
- Welding machines
- Injection moulding machines
- Electrical control enclosures
- Semiconductor manufacturing equipment
- Plastics machines
- Metalworking machines
- Construction machinery
Aiming for New Destinations

Get going! Today, you can gain access to all the key markets in the world from the value-added, documented safety and quality – for your products, systems or services.

We will be delighted to work with you, offering a wide range of testing inspection and certification services.

The TÜV Rheinland Group Worldwide

- Founded in 1872
- At 500 locations in 65 countries
- More than 18000 employees
- More than 39 industries across 6 business streams
- More than 2,500 services across all sectors

Our Business Portfolio

- Industry Services
- Mobility
- Products
- Lifecare
- Training & Consulting
- Systems

Our offices

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