

EUCHNER SAFETY SERVICES

Services for machine manufacturers and operators



EUCHNER

More than safety.

EUCHNER SAFETY SERVICES

SAFETY CONSULTING AT ITS BEST SUPPORT YOU CAN COUNT ON

Safety is not just a matter of components; knowledge and experience are crucial too. We can provide both of these to machine manufacturers and operators. By using our safety services, you will benefit from our experts' support.



KNOWLEDGE AND EXPERTISE FOR YOUR INNOVATION.

For more than 60 years EUCHNER has dedicated itself to the safety of people, machinery and processes. We offer a wealth of experience in all areas of safety engineering thanks to our highly qualified employees, who are proven experts in their fields.

Our membership in national and international standards committees keeps us up to date when it comes to changes in regulations, standards and future developments. This puts us in a position to provide comprehensive consultation and support in safety engineering tasks for machine manufacturers and operators.

Consultation and support for engineering and operation

We support machine manufacturers in implementing the Machinery Directive from as early as the engineering phase. We can assist machine operators to help them meet the requirements of the Use of Work Equipment Directive.

Consultation services from the start

- ▶ We discuss your current situation and requirements with you in an informal meeting
- ▶ We can arrange an in-house consultation day with you to answer your safety questions
- ▶ We offer workshops tailored to your technical requirements for detailed discussions and for customized training courses
- ▶ We can advise you about safety requirements in your projects from the very start. This could include questions such as whether a planned conversion would result in a substantial modification, and which upgrading measures would be required.

Consultation for machine manufacturers

- ▶ Analysis and consultation for the "CE process" within your company
- ▶ Support for the required "CE process steps," such as:
 - Performing the risk assessment
 - Preparing the safety concept
 - Validation planning
 - SISTEMA calculation
 - Consultation and support during the engineering phase
 - Validation of the machine's operating instructions acc. to Machinery Directive
 - Support during validation

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SAFETY FROM THE START RISK ASSESSMENTS FOR MACHINE MANUFACTURERS

Complying with the Machinery Directive is essential for machine manufacturers. We can support you from the early stages in the process, starting at the conception phase, and help you to implement the relevant regulations. You can always rely on our risk assessment expertise.

SAFETY ACCORDING TO PLAN.

The earlier you involve us in your development process, the more we can assist you. We analyze risk types and areas, classify potential hazards and advise you on the required risk reduction measures. With our support, you can be confident that all hazards are identified on the machines you develop. You also save valuable development time, because we can answer your questions about laws and standards.

According to the Machinery Directive, every machine must undergo a risk assessment including risk analysis and risk reduction:

Determination of the machine limits

- ▶ Inclusion of all life cycle phases from setting up to operation and dismantling
- ▶ Consideration of all operating modes
- ▶ Assistance through the inclusion of harmonized standards and the current technical specifications for testing according to the latest state of the art

Identification of hazards

- ▶ Hazard situations and events
- ▶ Mechanical, electrical and thermal hazards
- ▶ Hazards from noise and vibration
- ▶ Hazards from neglecting ergonomic principles

Risk estimation and evaluation

- ▶ Risk estimation
- ▶ Reduction of possible manipulation of safeguards
- ▶ Consideration of foreseeable misuse

Assessment of risk reduction measures

- ▶ Consideration of the iterative process for risk reduction during the engineering phase (inherently safe design, technical protective measures, user information)

Validation of the operating instructions / assembly instructions

- ▶ Validation of the machine's operating instructions based on the results from the risk assessment and your additional requirements

Safety engineering validation

- ▶ Preparation of a detailed validation plan
- ▶ Review of the safety documentation
- ▶ SISTEMA PL calculation
- ▶ Assistance in performing validation and documentation

Compilation of the technical documentation

- ▶ Requirements for the EC declaration of conformity / declaration of incorporation
- ▶ Type plate content
- ▶ Assistance in the final acceptance procedure

YOUR ADVANTAGES AT A GLANCE:

- ⊕ Support in all engineering phases
- ⊕ Risk assessment according to current legal status and harmonized standards
- ⊕ Assessment of risk reduction measures
- ⊕ Compliance with EC conformity evaluation procedure

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ON THE SAFE SIDE HAZARD ASSESSMENTS FOR OPERATORS

Safety during operation is one of the most important aspects of any machine type. After all, protecting workers against potential hazards is vital.



TARGETED AND THOROUGH.

According to the Work Equipment Directive and industrial safety regulations, hazard assessments must be periodically performed and documented for all machines and equipment. For example, the hazard assessment is always required:

- ▶ when setting up workplaces
- ▶ when operating workplaces
- ▶ when modifying workplaces

Determination of all relevant hazards

Our experts help you to meet the legal requirements for the operator by systematically and expertly developing the hazard assessment. Within this process, we determine your requirements in accordance with the hazards originating from equipment at workplaces or within work areas. After assessing the hazards, together with you, we develop possible protective measures.

We assist you in checking the safety of your machines.

Safety analysis and evaluation

- ▶ A safety analysis is performed on the machines and machine installations you specify. The test report comprises a systematic assessment procedure with a brief risk assessment and a method of prioritization for each machine or installation considered

Machine and machine installation testing

- ▶ A machine installation or machine and the associated documentation are checked for compliance with standards, including a partly check for defects
- ▶ Review of machine installation and machine documentation, assessment of the technical documentation for compliance with standards

YOUR ADVANTAGES AT A GLANCE:

- ⊕ Systematic hazard assessments
- ⊕ Greatest possible safety for all employees
- ⊕ Comprehensive documentation and action plans

EUCHNER SAFETY SERVICES

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