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The Machinery Directive (MRL) describes uniform statutory health and safety requirements for the European Economic Area (EEA) that must be observed in the design and construction of machinery, partly completed machinery and products assimilated to machinery.

Which products are regulated in the MRL?

The MRL regulates the conditions under which the products listed below may be made available or put into service in the EEA:

- Machines
- Interchangeable equipment
- Safety components
- Load handling attachments
- Chains, ropes and belts
- Detachable cardan shafts
- Incomplete machine

Our offer

Consulting and documentation services

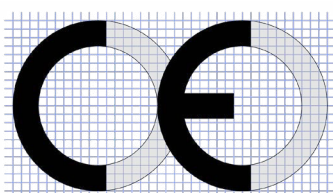
Seminars and workshops

CE coordination

Who must apply the MRL?

The MRL is addressed to the manufacturer who makes a product covered by the scope available in the EEA for the first time.

Due to the linking of (incomplete) machines with a higher-level control system to form a system or due to modifications to machines or systems after they have been commissioned, in practice operators often also become so-called „own manufacturers“.



"Conformité Européenne"



"China Export"



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Which requirements result from the MRL?

The manufacturer (or own manufacturer) must carry out a conformity assessment procedure as proof of compliance with the legal provisions before placing the product on the market or putting it into service. An essential component is the preparation of technical documentation, in particular the documents:

- Risk assessment
- Installation and operating instructions
- Declaration of Incorporation or EU/EC Declaration of Conformity

Does the MRL also apply to process plants?

In the practical application of the term „installation“, the question often arises in the case of large industrial installations (e.g. power plants or installations in the chemical industry) as to what extent such installations are subject to the requirements of the MRL as a „set of machinery“.

The guideline on the application of the MRL refers to this situation. The guide states that the definition of „assembly of machinery“ does not have to be applied to a complete industrial installation in its entirety.

However, it is pointed out that these plants can usually be subdivided into individual functional units related to production and safety, such as raw material unloading and feeding as well as processing, packaging and loading units, for each of which the requirements of the MRL are to be applied.

Our services

Implementation of CE-relevant processes

- Contract drafting in the procurement process
- Research into guidelines and standards
- Evaluation of supplier documentation

Documentation

- Risk assessment
- Operating instructions
- EU/EC Declaration of Conformity
- Declaration of Incorporation
- Safety concepts
- Opinions on the interlinking of machines as well as assessment of modifications to machines and systems with regard to a „significant change“ according to ProdSG
- Verification of safety functions
- Mathematical verification of the performance level (PL) for the control technology chain of action sensor-logic-actuator

Trainings und Workshops

- Basics Machinery Directive
- Basics Risk Assessment
- Risk assessment with the MBT-Risk Assessment Tool (MBT-RAT)
- Mathematical verification of the performance level (PL) with the software SISTEMA





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Your benefit

Cost reduction:

When planning a machine, it saves costs and resources to take the requirements of the MRL into account during the design process. Cost-intensive retrofitting of protective devices during commissioning is avoided by preparing the risk assessment at an early stage.

Legal certainty:

Thanks to the qualification and experience of our experts in the implementation of CE-relevant processes, you will achieve a consistent improvement in machine and plant safety and

at the same time fulfil all legal requirements of the legislator (responsibility management).

Relief:

The weyer gruppe offers you independent advice, documentation with standardised sample templates and forms as well as practice-oriented training and workshops. We can support you with specialised services throughout the entire conformity assessment process. Our aim is to relieve you of the many requirements imposed by the legislator in the area of the Machinery Directive.

References (excerpt):

- Aucos AG (Aachen, GER): Consulting services, CE coordination, safety concepts for electroplating plants
- CemeCon AG (Würselen, GER): Risk assessment for coating plants
- CExpert (Würselen, GER): Workshops and training Machinery Directive and risk assessment
- Dürr Systems AG (Bietigheim-Bissingen, GER): Training, risk assessments, evaluation Modifications and interlinking in paint shops
- EDEKA Handelsgesellschaft Nordbayern-Sachsen-Thüringen mbH (Rottendorf, GER): Statement on the safety concept / safety layout of an intralogistics system
- EDEKA Rhein-Ruhr Stiftung & Co. KG (Moers, GER): Plausibility check of the safety concept of the order picking system
- Fraport AG (Frankfurt, GER): Risk assessments / operating instructions for baggage handling systems
- Hochwald Foods GmbH (Erftstadt / Mechernich / Thalfang / Hungen, GER): CE coordination, interface considerations for sterile tanks, valve manifolds, palletising systems
- Robert Bosch GmbH (Bamberg, GER): Evaluation of the conversion of an electroplating plant with regard to a significant change according to ProdSG
- Spenner Zement GmbH & Co. KG (Erwitte, GER): Assessment of conversion of flue gas denitrification system and rotary kiln, risk assessment of bypass dust metering and conveying systems

The weyer group is an independent group of engineering and consulting companies in Germany, Austria, Switzerland and Poland.

Always based on the expectations and wishes of our customers, the weyer group has developed a wide range of competences since 1976.



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