



## CE conformity assessment according to EC directives

The CE conformity assessment procedure consists of following modules:

- guidelines and standards research
- risk assessment
- creation documentation and translation if required
- declaration of conformity and affixing CE mark

### 1. Guidelines and standards research

Basis of the conformity assessment is a guideline research. The manufacturer states herewith, whether and how its product is subject to one or more directives. Only if a directive is applicable, a manufacturer is entitled and obliged to make CE marking.

### 2. Risk Assessment

The risk assessment to identify the possible hazards of the machine. The objective of risk assessment is to identify hazards, assess and prevent or reduce hazards.

The risk assessment includes the following factors:

- identify the hazards of the machine
- risk assessment
- document measures to prevent or reduce risk
- identification of residual risks

In identifying the hazards the machine, the operator and the environment of the machine are included.

The risk assessment shall evaluate the following aspects:

- the extent of possible damage and
- the probability that this damage occurs, depending on the frequency and duration, in which a person stays in the danger zone,
- the probability that a hazard occurs,
- assessing the ability to recognize the danger and avoid this.

The hierarchy of measures to prevent or reduce risks is required:

- design and construction
- protection measures (e.g. protective device)
- description and documentation of residual risks

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### **3. Documentation**

The machinery directive required an operating instruction which describes at least the following chapters:

- safety Instructions
- intended use
- transport, construction and installation
- commissioning
- operation
- error handling
- maintenance and repair
- removal and disposal

In addition, the operating instruction must be available in the national language (s) of the country of use.

Annex to the manual:

- electronic documentation (wiring diagrams, program documentation, parts lists, etc.)
- mechanics documentation (drawings, parts lists, etc.)
- pneumatics / hydraulic documentation (drawings)
- suppliers documentation (operating and maintenance manuals, drawings, etc.)

### **4. Declaration of conformity and affixing the CE mark**

The manufacturer confirmed the conformity of his product by the declaration of conformity and affixing the CE mark to its product.