

Directives & important questions to Pulp-Paper-Carton

TeLo[®]

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- **Machinery Directive 98/37/EC**
- for all machines, plants (= totality of machines), machine components, replaceable equipments, safety components
- **Directive on Low-voltage Equipment 2006/95/EC**
- for all electrical equipments for usage at a nominal voltage between 50 and 1000 volts for alternating current and between 75 and 1500 volts for continuous current. [exceptions in appendix II of the directive]
- **Directive on Electromagnetic Compatibility 2004/108/EC**
- for all equipments, which can cause electromagnetic malfunctions or whose operation can be affected by those malfunctions

Directive on Pressure Equipment 97/23/EC

- this directive applies on all equipments respectively components (e.g. containers, piping, equipment accessories with safety function, flanges, ...) for a pressure >0,5 bar. Pressure equipments, which reach max. the limits of article 3 of this directive, have to be manufactured acc. to a good engineer experience and provided with a manufacturers marking respectively a usage instruction. Manufacturer of pressure equipment with higher limits have to accomplish a conformity evaluation system depending on the categorisation, providing the pressure equipments with a CE-marking and certificate a declaration of conformity. [exceptions in article 1 (3)]

- **Directive for equipment and safety systems for intended use in potentially explosive areas 94/9/EC**
- for all equipments, safety systems and safety and control equipments for the application outside of potentially explosive areas, which are necessary or have a share for the safe operation of equipments and safety systems regarding explosion dangers.
- **Directive on Construction Products 89/106/EEC**
This directive is applicable for all construction products,
- which are manufactured to assemble them durable in constructions of the civil engineering and
- as far as the basic requirements for constructions according to article 3 paragraph 1 have no relevance for them.
- **Noise – Protection – Directive 2003/10/EC**
- applies to all activities, where the employee is exposed or may be exposed to the danger of noise because of his work.

The European directives offer a minimum of requirements for safety, which have to be in place before a given product is placed on the European market.

The requirements have to be fulfilled by the engineering rules, which are given by compliance with European standards (which are not compulsory).

Do you manufacture a machine or a machine-component for pulp, paper and carton industry?

è **TeLo** supports you from the standard-conform construction up to inspections with authorities on the customer's site.

Do you plan a rebuilding of your pulp, paper and carton plant – which legal measures do you have to initiate?

Do I need CE, what do I have to assess and how do I get the CE-marking for my „old“ plant?

è **TeLo** checks the „old inventory“ and consults you about further steps if you plan an improved performance.

Do I fall into the ATEX-directive with my lints? What do I have to do?

è **TeLo** informs about the limits, burn and explosion parameters of dusts (BIA-report), about responsibilities of the operators and zone specifications for the manufacturers of the machines.

The authorities demand an explosion-protection-document. What do I have to do?

è **TeLo** questions the gas and dust situation (flammable dusts) on-site and together with the customer the explosion risks are getting determined, zone plans are getting prepared,

My customer demands a „directive-conform“ operating manual in Estonian language? What's the content of my documentation and in which language do I have to compose it?

è **TeLo** consults about the language-requirements in the different European directives, both for operating manuals and safety instructions on the machine, correspondence with prototype testing laboratories, ...

Is my pump a pressure equipment? When is it classified as pressure equipment and what are the further steps? When do I have to attach a CE-marking on the piping?

è **TeLo** calculates the values to classify your pressure equipment and informs about further steps, like preparation of a risk analysis as well as confirmation of a declaration of conformity according to the pressure equipment directive 97/23/EC. TeLo also informs you, that your product „simply“ has to accord the GOOD ENGINEER EXPERIENCE and may not be provided with a CE-marking!

Which danger signs do I need and where do I attach them?

è **TeLo** prepares a risk analysis, in which you can see, which residual risks should be shown with a danger sign/safety instruction on the machine and suggests a directive and standard-conform pictograph and a safety instruction respectively. We also prepare signage documents/folders, which show your machine/component/plant with registered signs and instructions, on request.

Is the machine, which is imported from third part countries, accordant to the requirements of the European directives?

è **TeLo** consults you about the PECA agreement, necessary cooperations with the manufacturers in third part countries, precautionary measures, ...

We would like to deliver our machines to the USA, Asia, ...? What do I have to consider? Which safety requirements are expected, according to which standards do I have to build my machine?

è **TeLo** informs you about national regulations, about stricter „foreign“ requirements (than the European) as well as about the addition of important items to contract!

How should my contract appear to prevent troubles and additional costs?

è **TeLo** gives you tips to sign an „airtight“ contract with your customers/suppliers, which prevents you to have a belated emergency.

Which safety-related precaution measures have to be provided for entire plants, e.g. getting into containers?

è **TeLo** gives introductions for single components and machines, provides safety measures on interfaces of single equipments, considers the interaction between machines as well as superior components (e.g. controller, emergency stop systems of plants, illumination, ...) for a safe law-accordant function of the entire plant.

How should the training for employees, customers, ... be performed?

è With your assistance **TeLo** prepares a training program and a training protocol.

The standards change currently, new directives appear, ... How do I have to perform my product specific declaration of conformity?

è **TeLo** gives you an exemplar of the necessary EU-declaration ready to sign.