



SUCCESS IS THE SAFETY OF MACHINES AND SYSTEMS

CE-Conformity at Flottweg

**CE-CONFORMITY
AT FLOTTWEG -
SAFE AND COST-
EFFICIENT**



Flottweg Separation Technology – Safe and Cost-Efficient

Mechanical engineering and systems engineering are getting increasingly complex. Therefore, technical documentation based on legislation, standards and norms is also becoming more and more important.

Manufacturers, distributors and operators of process engineering machines and systems – as you, our customer – are affected by the dynamics of the market as well as statutory regulations.

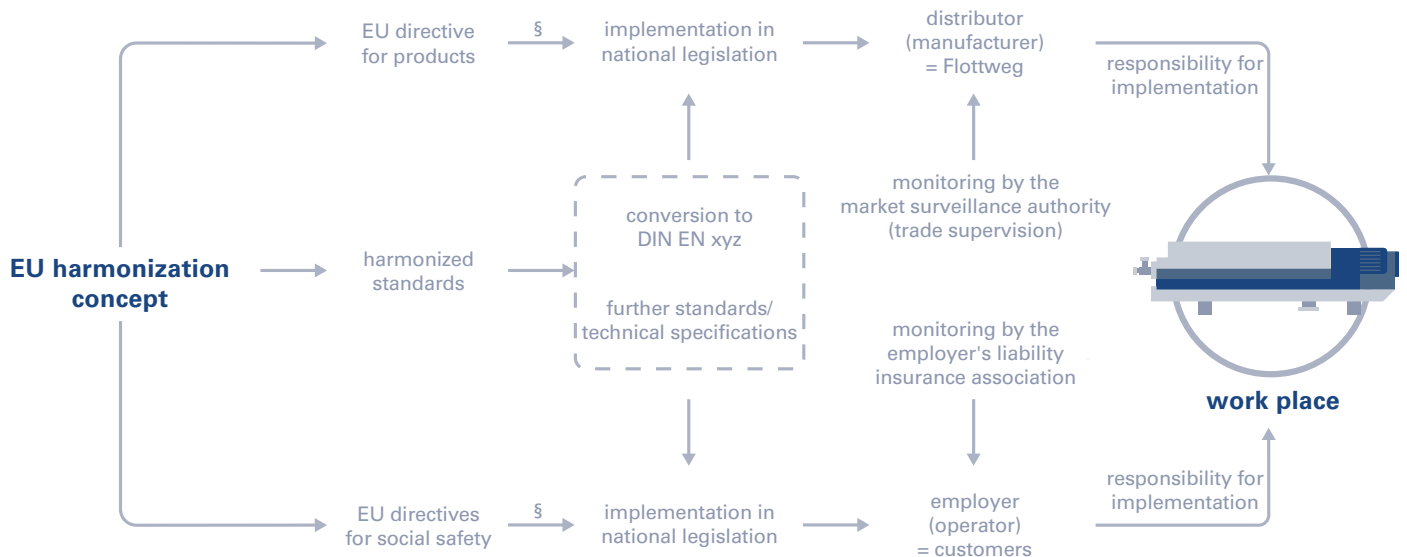
Our engineers and engineering experts have to face the challenges of mechanical solid-liquid-separation day-to-day. Beside the demand to offer our customers an efficient, cost-optimized and high-quality solution, it is self-evident for Flottweg to manufacture safe products.



Safety of Machines and Systems CE – More Than Two Letters

The small and unimpressive CE label may seem like peanuts but manufacturing a safe product is a big challenge. A large number of norms and standards have to be investigated and sophisticated conformity assessment procedures are necessary in order to be able to evaluate the safety of machines and systems at the end.

The safety of your employees has the highest priority. A workplace is only safe if manufacturers and operators of machines can jointly identify potential dangers and minimize risks in the performance of their legal duties.





DECLARATION OF CONFORMITY OR IN

The EC Declaration of Conformity together with the much sought-after CE symbol is the result of the conformity evaluation of a complete machine or system. With the declaration of conformity, the manufacturer confirms that the machine or system put on the market is in compliance with the currently valid European directives and standards.

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IN CASE OF A COMPLETE SYSTEM, FLOTTWEG DELIVERS MACHINES, SYSTEM COMPONENTS AND THE CONTROL SYSTEM TO ASSURE A COMPLETE ENGINEERING PROCESS.



INCORPORATION

Besides a complete machine or system, there may also be an incomplete machine or system, depending on the scope of delivery. In this case, according to the conformity assessment procedure, a declaration of incorporation is required for the incomplete machine or system which is in compliance with the conformity evaluation and the valid directives and standards.

In compliance with the EC-machinery directive, incomplete machinery is not CE marked.



DISC STACK CENTRIFUGE WITHOUT SYSTEM COMPONENTS

CE- CONFORMITY

New Markets, New Challenges

Scope of Delivery (example)	EC Declaration of Conformity	Declaration of Incorporation
Machinery without switch cabinet	-	●
Decanter including a switch cabinet	-	●
Disc stack centrifuge including a switch cabinet	-	●
Belt press including a switch cabinet	●	-
Complete system/system on platform*	●	●

* depending on the scope of delivery

In the case of a centrifuge, certain risks (like openings, gaps, safety shutdowns, acoustic noises, etc.) may only be excluded after they have been built in a complete system. Some potential dangers can only be prevented after additionally necessary functions (such as connecting pipes, solids chambers, barriers, and housings) have been installed on site.

So a centrifuge is considered an “incomplete machine” requiring a declaration of incorporation. Only in combination with the complete system is the machine complete.

Easy conformity

Depending on the circumstances, close cooperation between the manufacturer and the operator may be necessary to get CE conformity. Flottweg will be pleased to give you advice on how to reach optimum safety for your system.

In order to be able to face the challenges of the market, modernizations and modifications are indispensable. In legislation, these modifications are called “essential changes” which have to be verified concerning safety. Flottweg will be pleased to give you advice on this issue so that you can operate compliant machines and systems also in future.

DIRECTIVES AND STANDARDS

Because we adhere to directives and standards, we are able to offer our customers high quality and performance. In addition to many years of experience and sophisticated engineering, these directives and standards provide the basis for developing safe machines and systems.

EU Directives	Number
EC machinery directive	2006/42/EG
Low voltage directive	2014/35/EU
Electromagnetic compatibility directive	2014/30/EU
Pressure equipment directive	2014/68/EU
Guideline on protection against explosion (ATEX)	2014/34/EU

Standard	Denomination
DIN EN 60204-1	Safety of machinery - Electrical equipment of machines - Part 1: General requirements
DIN EN ISO 13849-1	Safety of machinery – Safety related parts of control systems - Part; 1: General requirements
DIN EN ISO 12100	Safety of machinery - General principles for design - Risk assessment and risk reduction
DIN EN 12547	Centrifuges - Common safety requirements
DIN EN 1127-1	Explosive atmospheres - Explosion prevention and protection - Part 1: Basic concepts and methodology
DIN EN ISO 80079-36	Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic method and requirements
DIN EN ISO 80079-37	Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres - Non electrical type of protection constructional safety 'c', control of ignition source 'b', liquid immersion 'k'
DIN EN 13480-1 ff	Metallic industrial piping
DIN EN 619	Continuous handling equipment and systems – Safety and EMC requirements for equipment for mechanical handling of unit loads
DIN EN 13155	Cranes - Safety - Non-fixed load lifting attachments

The applied directives and standards depend on the scope of delivery and the product.

Any questions?

Do not hesitate to contact us. Together we can make a safe solution from the very beginning.





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