



SUCCESS IS... MACHINE AND PLANT SAFETY

CE conformity at Flottweg



CE CONFORMITY AT FLOTTWEG – CERTAINLY ECONOMICAL

Flottweg Separation Technology – not only safe, but also economical

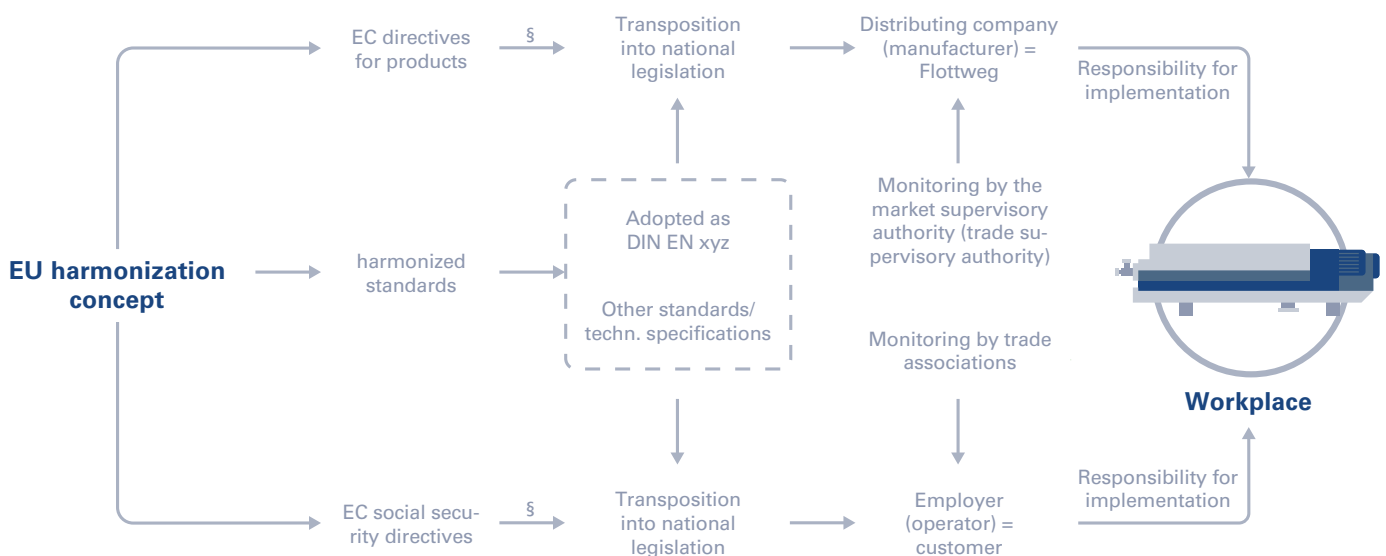
The challenges of mechanical solid/liquid separation keep our engineers and process specialists busy every day. In addition to aspiring to offer our customers an efficient, cost-optimized, and high-quality solution, it goes without saying that Flottweg is committed to providing the market with safe products.



Machine and plant safety – CE is more than just two letters

The small and inconspicuous CE mark can mislead: a safe product is a challenge. Extensive research into directives and standards, as well as compliance with demanding conformity assessment procedures, is required to conclusively assess the safety of machines and systems.

The safety of your employees is paramount. A safe workplace can only be achieved if manufacturers and operators of machinery and systems work together to identify hazards and mitigate risks while complying with legal obligations.





CONFORMITY OF MACHINERY AND PLANT

The conformity assessment procedure for a machine culminates in the internationally coveted CE mark and the EC Declaration of Conformity. By virtue of this declaration, the manufacturer certifies that the machine introduced to the market complies with the currently valid European directives and standards.

According to the Machinery Directive, an assessment is not limited to individual machines. If there is a production-related and safety-related link between several machines and partly completed machines, then the machinery as a whole is subject to the Machinery Directive. As the manufacturer of the plant, Flottweg is responsible for ensuring that the requirements of the relevant directives are consistently implemented and that the safety of the overall system is maintained.



DISC STACK CENTRIFUGE WITHOUT SYSTEM COMPONENTS



The risk assessment identifies and evaluates the hazards and risks that may occur over the entire life cycle of each machine and plant. Appropriate design, technical, and, if necessary, organizational countermeasures are adopted. Topics such as functional safety are given extensive consideration.



FLOTTWEG SUPPLIES A COMPLETE PLANT (A COMBINATION OF MACHINES) CONSISTING OF MACHINES, PLANT COMPONENTS, AND CONTROL SYSTEMS, THUS PROVIDING A COMPLETE PROCESS ENGINEERING SOLUTION.

CE CONFORMITY

Depending on the constellation, close cooperation between the manufacturer and operator may be required to achieve CE conformity.

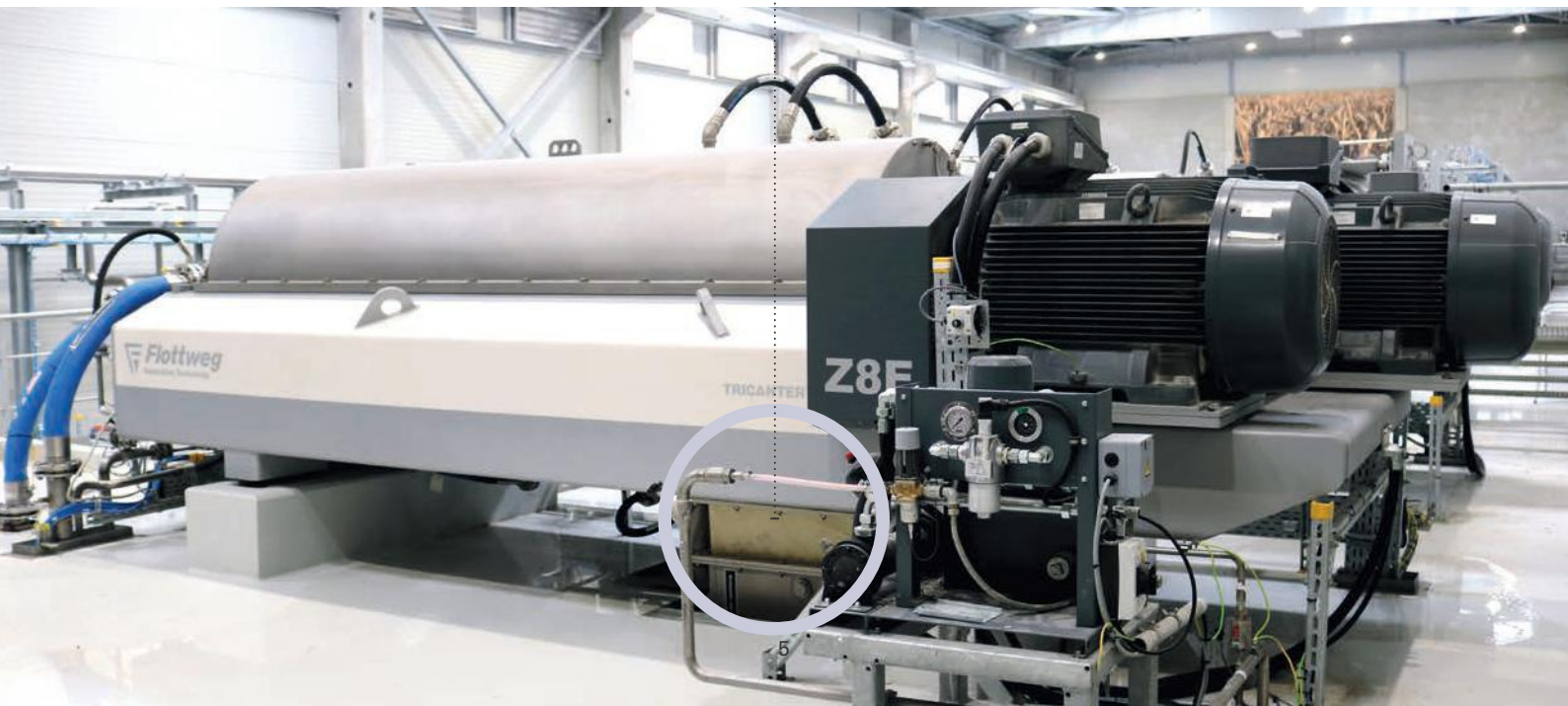
The factory default configuration of the centrifuge has open discharge outlets. If these discharge outlets are not fitted by Flottweg, customer feedback is required. Flottweg supports its customers with the implementation and ensures the safety of the customer's employees throughout all areas of their working life.

Upgrades and modifications are essential to keep up with changing market requirements.

The legislator distinguishes here between insignificant and significant changes that require a safety review.

Flottweg is happy to advise you on this topic so in the future you also can operate compliant machines and systems.

DECANTER CENTRIFUGE WITH ACCESS PROTECTION



DIRECTIVES AND STANDARDS

We can offer our customers maximum quality and optimum performance through the application of current directives and standards. This approach, together with our many years of experience and excellent engineering expertise, is the basis for the development of safe machines and systems.

The following is an excerpt from the relevant directives and standards:

EU Directives

Machinery Directive (MD)	2006/42/EG
Low Voltage Directive (LVD)	2014/35/EU
EMC Directive (Electromagnetic Compatibility)	2014/30/EU
Pressure Equipment Directive (PED)	2014/68/EU
ATEX directive (explosion protection)	2014/34/EU

Standard	Title
DIN EN 12547	Centrifuges – general safety requirements
DIN EN ISO 12100	Safety of machinery – General principles for design – Risk assessment and risk mitigation
DIN EN 60204-1	Safety of machinery – Electrical equipment of machines – Part 1: General Requirements for Use
DIN EN ISO 13849-1	Safety of machinery – Safety-related parts of control systems – Part 1: General design principles
DIN EN 61511-1	Functional safety – safety devices for the process control industry – Part 1: General information, terms, system requirements, hardware, application programming
DIN EN 1127-1	Potentially explosive atmospheres – Explosion protection – Part 1: Fundamentals and methodology
DIN EN ISO 80079-36	Potentially explosive atmospheres – Part 36: Non-electrical equipment for use in potentially explosive atmospheres – Basic principles and requirements
DIN EN ISO 80079-37	Potentially explosive atmospheres – Part 37: Non-electrical equipment for use in potentially explosive atmospheres – Protection by design safety “c”; ignition source monitoring “b”; liquid encapsulation “k”
DIN EN 13480-1 ff	Metallic industrial piping
DIN EN 13155	Cranes – Safety – Loose load handling attachments

Applicable directives and standards are dependent on the product and scope of delivery

Do you have any further questions?

Feel free to contact us. We will work together from the very beginning to find a safe solution!





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