



Legislation/Standards

Optimal Safe Automation

The issue of safety plays a crucial role in control systems for centrifuges. Westfalia Separator Engineering offers this safety in any case – whether for complex automation projects for process lines or for supposedly easy tasks on stand-alone machines.

When a fully loaded 40 ton truck accelerates its mass to a speed of 90 km/h, this is precisely equivalent to the energy needed to accelerate a separator with a 810 mm bowl to a speed of 4800 rpm.

As our customer, you can count on the fact that, even in the case of a fault, this energy is controlled with absolute reliability by the control system. Because as your reliable partner, we have been planning and realizing control systems with extreme care for decades.



On a safe course

The fundamentals for our work are formed not only by the EC Machinery Directive and other safety-related laws but also standards drawn up specifically for the construction and application of centrifuges such as EN 12547.

For example, controls for centrifuges with frequency converter operation must be equipped with a speed monitoring device in accordance with EN 954-1 Category 2.

Westfalia Separator Engineering meets these demands with a special control tool which the Centre of Competence of the Westfalia Separator Group for Drive Technology developed jointly with TÜV Germany.

Your contact:

Axel Bartscher
Tel. +49 2522 77-2382
Fax +49 2522 77-3-2382
bartscher.axel@gea-westfalia.de



CE Conformity

Centrifuge + Control = CE Mark*

The safe functional unit consisting of centrifuge and control from Westfalia Separator Engineering is confirmed in Europe by the CE mark on the machine.

Only the complete solution comprising machine and control can meet all safety-relevant regulations and have this confirmed by the EC declaration of conformity. As our customer, you are always on the safe side: in direct contact with the design department and quality management, we realize all safety functions in our control systems in line with the pertinent legislation and standards.

Based on the manufacturer's declaration we deliver you all integrated electrical components and the required comprehensive technical plant documentation.

Tested safety

The EC declaration of conformity can be issued with the final acceptance certificate of the safety test of the complete functional unit consisting of centrifuge and control system. Only when all safety-relevant regulations have been met can Westfalia Separator certify the line or module with the CE mark.

Designation	Description
98/37/EWG	Machinery Directive
EN 12547	Centrifuges – General Safety Requirements
EN 954-1	Safety-Relevant Components of Control Systems
EN 60204-1	Safety of Machines – Electrical Equipment of Machines – Part 1: General Requirements
CE-Guideline	General Health and Safety Regulations
73/23 EWG	Low-Voltage Directive
BGV A3	Accident Prevention Electrical Installations and Apparatus
89/336/EWG	EMC Directive
ISO 9001:2000	Quality Standard
94/9/EWG	Devices and Protective Systems for Use in Explosion-Hazardous Areas
EN 60079-14	Electrical Apparatus for Explosion-Hazardous Areas

* in accordance with the Machinery Directive
98/37/EWG