



SAFETY FEATURES

for SIEBTECHNIK - CENTRIFUGES

Protection for People and Equipment

In industrial processes where centrifuges operate at high speeds, safety is the top priority.

Irregularities such as increased vibrations or exceeding the permissible speed can lead to critical operating conditions.

Unintended fluctuations in the composition of the suspension, changes in the drive system, or improper integration into the production line can be potential causes.

In the worst-case scenario, this can result in significant damage to the equipment as well as hazards to employees.

SAFETY FEATURES FOR CENTRIFUGES

Intelligent Monitoring for Safe Centrifuge Operations

Our integrated safety feature continuously monitors both the vibration level and the rotational speed of the industrial centrifuge. If defined thresholds are exceeded, the system detects the deviation in real time and automatically initiates a safe shutdown of the machine.

Maximum safety for people and equipment – compliant with standards up to PLd / SIL 2

Due to the potentially high risk to people and equipment, the safety function is designed to meet the most stringent functional safety requirements.

The underlying risk analysis determines a required Performance Level of PLd in accordance with EN ISO 13849-1 or SIL 2 in accordance with IEC 61508 / IEC 61511. This ensures that the safety function is always implemented with the required reliability and diagnosability.

This rapid and standards-compliant response terminates potentially hazardous operating conditions at an early stage. This not only protects the system from damage but, above all, ensures the safety of employees in the vicinity of the machine.

The Benefits at a Glance

- ◆ Continuous monitoring of vibration and speed
- ◆ Automatic safety shutdown if limit values are exceeded
- ◆ Designed for functional safety up to PL d / SIL 2
- ◆ Enhanced workplace safety for operating and maintenance personnel
- ◆ Reduction of plant risks and unplanned downtime

This intelligent safety solution actively monitors the industrial centrifuge and reliably brings it to a safe state in the event of an emergency – ensuring maximum operational safety and protecting your employees.

