ELEVEX

system for the protection of conveyors and bucket elevators

ELEVEX conveyor and bucket elevator protection system

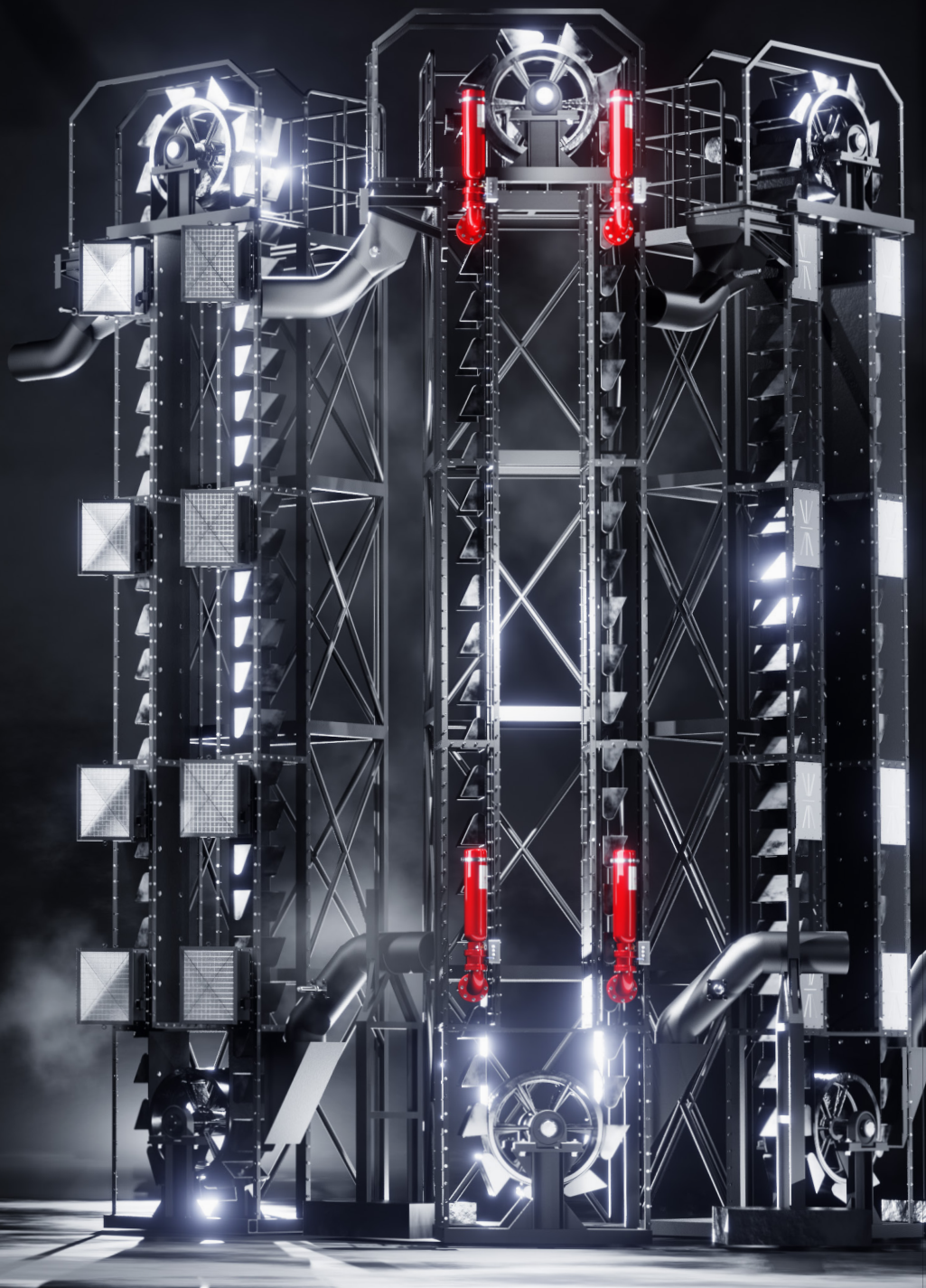
The ELEVEX system is a unique solution in the form of a comprehensive certified explosion protection system designed specifically for a given type of conveyor or elevator. This makes it suitable for both indoor and outdoor applications. The variability of the system lies in the possibility of using a wide range of components for explosion protection. ELEVEX provides maximum protection at minimum cost without the need for any structural modifications.

Benefits & applications

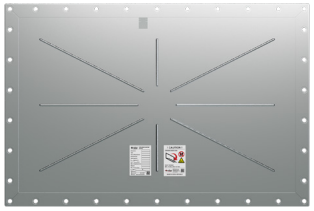
- **+ explosion protection tailored to the protected technology**
- **+ unique certified protection system**
- **+ ideal for bucket elevators, horizontal and inclined conveyors, redlers, and circular shaft profile elevators**
- **+ tested for intended use**
- **+ suitable for high elevators**

- independent archiving of detection data from detectors
- combination of explosion venting, suppression and isolation
- minimum requirements for pressure resistance of technology

✓ **VDI 2263 part 8** ✓ **NFPA 61** ✓ **CEN/TR 16829**

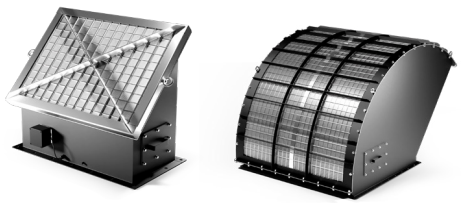


Conventional explosion venting



During explosion venting, the pressure wave and flame front are expected to be released through the vent area into the safe area. Such protection is used where explosion venting is possible – for example, outdoors and in areas with limited movement of personnel.
Explosion isolation is used on the inlet and outlet pipes of the elevator to prevent the flame front and pressure wave from spreading to downstream equipment.

Flameless explosion venting



FLEX F PRO or FLEX R PRO are used to prevent the spread of flames, pressure and heat fronts. At the same time, the protective device reduces the explosion pressure to the lowest possible level. It is used where conventional explosion venting cannot be used because the conveyor is inside a building or in areas with higher movement of personnel. Explosion isolation is used on the inlet and outlet pipes of the elevator to prevent the flame front and pressure wave from spreading to downstream equipment.

Explosion suppression

Explosion suppression is the most common method of protection against the devastating effects of an explosion in bucket elevators. Explosion suppression effectively eliminates the explosion at an early stage and at the same time reduces the explosion pressure inside the conveyor below the pressure resistance limit of the conveyor, thus preventing it from being destroyed.
Explosion isolation is used on the inlet and outlet pipes of the elevator to prevent the flame front and pressure wave from spreading to downstream equipment.