

Consequences of fire and explosions

A fire or explosion can have serious consequences for your company:

- Injury and loss of human life
- Damage to machines, transport facilities and storage space
- Production interruptions
- Loss of income
- Repair costs owing to damaged machines
- Replacement costs owing to destroyed machines
- Loss of customers

The right solution for your pellet production



To protect your production, your staff and your machines against fire and explosions, GreCon offers you...

- a fast, reliable spark extinguishing system which is especially adapted to your production
- the detection of sparks and glowing particles in the areas at risk
- the immediate extinguishment of sparks and glowing particles – in 99 percent of cases without production interruption
- a record exactly to the millisecond so as to identify the causes of problems

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GreCon

Fire and Explosion
Protection for the
Pellet Industry

GreCon
Fire
Protection

GreCon
Measuring
Technology



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Pellets

Fire and explosion protection for the pellet industry

The energetic exploitation of the regrowing primary product wood is nowadays an important part of renewable energies. This energy source is more and more enquired, especially in form of wood pellets, and produced in an appropriately large quantity. However, the production processes, such as the disintegration and drying of the wood as well as the pressing to pellets, hold various risks of fire. Sparks, glowing embers or particles, generated in different plant areas, can easily cause serious fire and explosions.

A GreCon spark detection and extinguishment system significantly increases the safety and protection of the production facilities. It detects sparks in time and automatically extinguishes them – and has done so successfully for more than 35 years.

Risks of the pellet industry

Many production areas, from the hammer mill via drying to the pellet press, can be the cause of ignition sources. Due to the fast-running machines, the high press-pressure and the high temperatures, sparks or glowing particles can be created and reach, via extraction and conveying facilities, filters, silos or bins where they can meet explosive wood dust concentrations and quickly cause fire and dust explosions.

Danger zones of pellet productions

Fire or explosions in pellet productions can damage or even destroy the facilities.

A GreCon spark detection and extinguishment system monitors and protects the following areas at risk:

- | | |
|---------|----------|
| ■ Mill | ■ Cooler |
| ■ Dryer | ■ Filter |
| ■ Press | ■ Silo |



Diagram of a pellet production process showing possible protection areas

