



## Fire and Explosion Protection for the Pellet Industry

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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 dangerous ignition sources in time and automatically extinguishes them without interrupting production – and has done so successfully for more than 35 years.

### THE RIGHT SOLUTION

- ✓ 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
- ✓ protection without interrupting production

# RISKS

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 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 dry pellets and quickly cause fire and dust explosions.

# DANGER ZONES

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
- ✓ Press
- ✓ Filter
- ✓ Dryer
- ✓ Cooler
- ✓ Silo

# DIAGRAM OF PROTECTION CONCEPT

