



Fire and Explosion Protection in Tyre Recycling Plants

Due to their quantity, form, structure, nondecomposability and easy inflammability, scrap tyres are a difficult waste material. Due to the additives contained in tyres, the dumping of scrap tyres is prohibited in Germany and many other countries. Scrap tyres have to be recycled. In the recycling process of scrap tyres, metal, rubber and textiles are separated. The comminution, milling, separation and screening processes hold a high risk of fire. Machines and material transport are to be monitored. 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

When comminuting and milling the mostly combustible materials, individual sparks or glowing particles are sufficient for an ignition. Defective machine parts, foreign bodies or high process temperatures can cause overheating, sparks or glowing embers that can cause fire and dust explosions in the mechanical and pneumatic conveying facilities and downstream filters, silos and bins.

DANGER ZONES

Fire or explosions in tyre recycling plants can damage or even destroy the facilities. A GreCon spark detection and extinguishment system monitors and protects the following areas at risk:

- ✓ Granulators
- ✓ Mills
- ✓ Extraction systems
- ✓ Filters
- ✓ Silos

DIAGRAM OF PROTECTION CONCEPT

