

## 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

### The right solution for your furniture 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 and eliminate problems in the process

Fagus-GreCon  
Greten GmbH & Co. KG

Postfach 1243  
D-31042 Alfeld-Hannover

Telefon +49 (0) 5181-79-0  
Telefax +49 (0) 5181-79-229  
E-Mail sales@grecon.com

[www.grecon.com](http://www.grecon.com)

# GreCon

Fire and Explosion  
Protection for the  
Furniture Industry

GreCon  
Fire  
Protection

GreCon  
Measuring  
Technology



EN | R.01 | 2013.04  
Subject to technical and country-specific modifications.  
© Fagus-GreCon Greten GmbH & Co. KG

# Furniture

## Fire and Explosion Protection for the Furniture Industry

The production of furniture often requires very complex processes. Wooden and other combustible materials are worked in different ways by numerous fast-running machines. Therefore, furniture production holds a high risk 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 furniture industry

Any cutting treatment generates potentially combustible and explosive chips and dust that are concentrated by the extraction systems. Foreign bodies and defective machine parts can be the cause of ignition sources. 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 furniture productions

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

- Saw
- Mortiser
- Sander
- Press
- Conveying facilities
- Extraction system
- Cyclone
- Filter
- Silo



Diagram of a furniture production process showing possible protection areas

