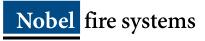


Atexon® Automatic Spark Detection and Extinguishing System

Nobel Fire Systems has built on over 30 years of reliable, proven technology to develop fire suppression technologies aimed at special risk environments.

Underpinning the product development programme is a certain conviction that early fire detection and fast effective suppression saves lives, assets and the environment. The Company offers a complete range of services from risk based analysis, consultation and design through to distribution and installation. As no single suppression medium or application method covers all fire risk scenarios, our range of fire suppression systems covers all class of fires, and systems can be tailored to meet individual needs.

Atexon Spark Detection







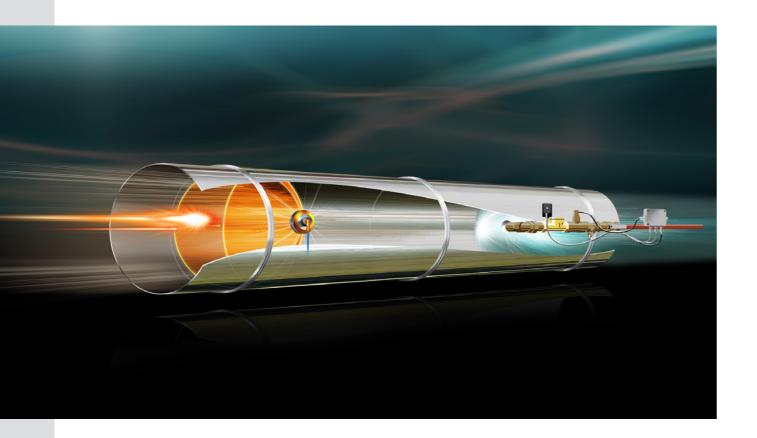
The Spark Detection System

Seldom does a new player enter a market armed with a combination of superior product quality and better economics, but that is exactly what Atexon's innovative technology can deliver against the competition. Nobel Fire Systems is proud to be the exclusive distributor in the UK.

Atexon® is an innovative spark detection and environmentally friendly extinguishing system for industrial processes, designed to stop ignition sources from getting into dust explosion hazardous areas, such as silos and filters. Extremely fast and sensitive spark detectors detect ignition sources in a millisecond and start the extinguishing agent.

Globally, Atexon[®] has fire proofed 2,500+ industrial processes over 15 years from several different industrial sectors that routinely handle explosive dust or powders. Customers include manufacturing companies that work in wood, metal, paper, food, bioenergy, recycling, textile and fibre-reinforced plastic industries.

Spark extinguishing is most commonly achieved using water but other potential solutions include watermist, carbon dioxide, condensed aerosols and/or various other electronically controlled devices.





Market Segments





Wood Panel MDF, OSB, Particle Board and Plywood.

Woodworking Flooring, Furniture and Sawmills.



Pulp and Paper Packaging, Paper and Pulp.

Tissue Tissue Converting & Manufacturing and Air-laid.





Recycling Metal, Paper, Sludge Drying, Waste and Wood.

Bioenergy Heat & Power Plants and Pellet Production.



Food Animal Feed, Food Processing, Cacao, Cereal, Coffee, Grain and Sugar.

Tobacco Cigarettes, Cigarette Filters, Moist Snuff and Tobacco Dryers.

Other Market Segments:





Metal Manufacturing, Processing and Metalworking.



Hygiene Nappies, Incontinence and Sanitary Pads.



Power Generation Coal, Power Plants, Turbines and Wind Mills.





Port Facilities Ports & Logistics Terminals.

Chemicals / Oil Refineries / Pharmaceutical / Powder Coating / Printing / Rubber and Plastics / Textiles



Protecting Dust Collection Systems

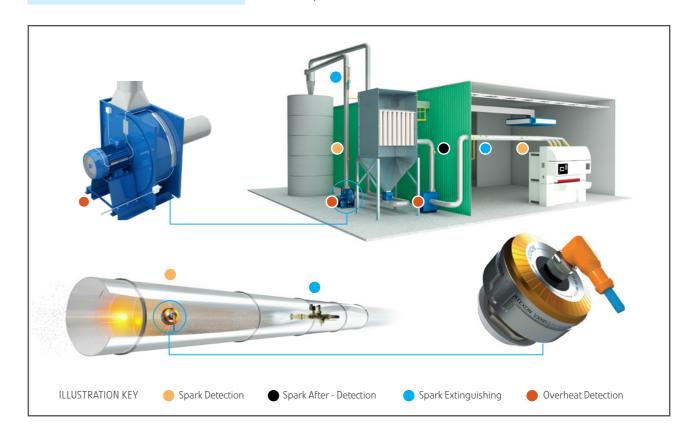
Dust collection systems are the archetypal application for spark detection protection. Explosive dust-air mixtures often form inside dust extraction systems. Such mixtures can be ignited by sparks, embers, hot objects or static electricity.

Usually these ignition sources are caused by a damaged blade, a wedged foreign object, resin collected on the fan blades or poor machine grounding. In the mechanical wood working industry, as many as half of all fires are caused by an overheated machine due to bearing failures or blocked ducts in the fan.

A dust explosion and burning material can advance into a dust silo or travel backwards through a return air duct into the production area. All dust collection system fires pose a grave danger to employees and usually cause a lengthy production outage. Large factory fires are also a concern for insurance companies, who indicate that filters, dust collection bins and silos are the areas at greatest risk.

Additional applications where Atexon® can provide protection include wood processing planers, sawmill trimmers, pellet pressing, crushers, and the conveyors and elevators found at ports that handle large volumes of material flow.

Unique Properties	Key Advantages
Decentralised, Bus-based system (Atexon VR18Z Control Panel)	Provides extra safety
	Efficient installation; c additional system cos
	Installation is less cost
	Ease of use; no progra
	Ease of maintenance;
Wide viewing angle/range of detection (Patented 300EX model)	180° viewing angle
	Eliminates blind spots
	ldeal for high materia
Broad detection spectrum (Patented 300EX model)	Detection of different of Visible, Infrared and
Superior detector design	Small and durable det therefore less abrasion
	Ease of installation; no
	Ease of maintenance;
Superior water extinguishing system	Water flow monitoring
	Fast, spring-loaded w
Fan overheat monitoring (measures over 3-4 metres)	Eliminates other risk s
	More reliable than sin
	Can be used for any ol
Stainless steel tanks	Long life
	Lower product life tim
High quality materials	Extremely low mainte
	Long product life time
	Automatic system self



level by redundant operation for each protection area

control panel comes with 18 zones as standard, therefore no osts with future expansion

stly owing to reduced cabling and labour

ramming needed

all critical parts are at the protection zone (decentralised)

5

al flow applications

t ignition sources, including sparks and hot particles, i.e. detection nd Near Infrared

etector; vibration insensitive, housing made of stainless steel on and greater protection of the lens window

no welding necessary

; no tools needed

ng, water temperature monitoring and ball valve monitoring

water nozzles

sources

ngle point temperature measurement

other equipment

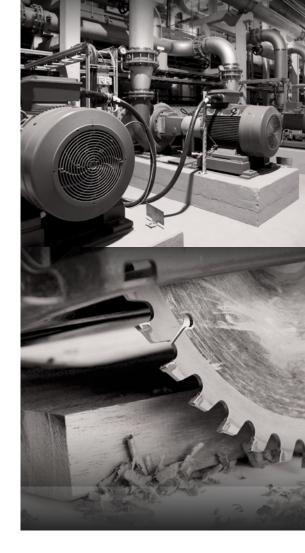
ne costs

tenance costs

2

elf-tests

catering marine industrial property data protection transport



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