

# FIRETRACE<sup>®</sup> LTD

AUTOMATIC FIRE SUPPRESSION SYSTEMS



- All systems manufactured in the UK at our Ipswich facility
- Bespoke fire suppression systems
- Dedicated installation and service teams
- Over 136,000 systems supplied to date
- One year warranty and full aftersales backup
- Free no obligation quotations
- Full product training available
- Manufacturers of automatic fire suppression systems since 1996

All Systems CE & UKCA  
Marked

Fully PED & PESR  
Compliant

Simple Automatic  
Fire Protection,  
No Complicated  
Electronics

STOP FIRES WHERE THEY START





By the very nature of their design, automated machines make easy work of what were once labour intensive and expensive tasks. These machines operate for hours and often tasks are set up to run through the night to maximise efficiency.

Should anything go wrong during the process the machines should automatically stop and wait for the operator to return. But what if this malfunction has caused a fire?

Not only is the expensive machinery now at risk but the building and any occupants may now also be under threat. In the absence of the operator there is nobody to deal with the fire or raise the alarm.

That's where Firetrace come in....

### **The Firetrace® Solution**

The Firetrace Automatic Co2 Suppression systems are ideal for protecting all types of automated machinery. These systems use our unique patented linear detection tubing which is installed throughout the risk areas of the machine. This tubing can quickly and accurately detect a fire whilst still being flexible and robust enough to withstand the harsh environments that often exist within them.

These systems do not need complex electronic detectors or panels and operate simply using pneumatics. This alleviates the need for separate power supplies or battery backups and also makes the entire system fail safe with minimal moving parts.

The systems can be simply retrofitted to existing machinery and are easily interfaced with the machines stop circuits, extraction or ventilation equipment and the house alarm system.



### **So how does it work?**

Firetrace® systems use our patented detection tubing which is installed around the risk and connected to the cylinder valve. The tubing is then charged with nitrogen and this pressure is utilised to hold the valve in the closed position.

Should a high temperature or fire occur then the pressurised tubing will burst and the cylinder valve will activate deploying the extinguishant immediately onto the fire.

A pressure switch is added to the system. Should the tubing burst or the pressure lost for any reason, the switch will change state and automatically stop the machine and/or send a signal to a local alarm. The extraction fan must also be stopped when the switch changes state.

A manual activation point is added to the system to activate the discharge of the system should a machine operator witness ignition of a fire within the enclosure.

A system indicator module attached to the valve, and connected to the machine, will not allow the machine to start if the Firetrace system is isolated.



## **What about Class D Metals?**

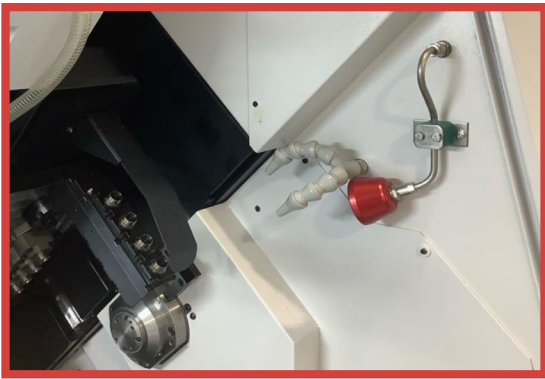
No problem.

Whilst the likes of stainless steel and brass pose minimal risk, flammable metals pose more of a challenge.

Standard Fire suppression systems will deal with the initial fire but not the swarf left by flammable metals.

The Firetrace Class D Dual system not only deals with the initial fire, but will discharge Class D powder, once the initial fire has been suppressed, to cover the smouldering swarf.

Our cone diffusers are installed to protect both the cutting area and conveyor to ensure superior coverage of the powder.



At the point of activation, a pressure switch will be activated to stop the process on the machine. This can allow the machine to run overnight to increase productivity.

Although the standard system is totally pneumatic, the addition of a flame detector has the potential to detect a small fire before the flames reach the trace detection tube.





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**Unit 22, Knightsdale Road  
Ipswich, Suffolk  
IP1 4JJ**

**info@firetrace.co.uk  
01473 744090  
www.firetrace.co.uk**

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