

REACTON

FIRE SUPPRESSION

Protecting your future, today



fire protection
TECHNOLOGIES

CNC MACHINES

AUTOMATIC FIRE SUPPRESSION FOR **CNC MACHINES**



Fires in CNC machines are common and can occur in an instant, without warning. These fires cause significant damage to the machine and can spread quickly throughout the shop causing extensive damage and injury. With CNC machines often operating unattended, a small spark can lead to devastating consequences for the machine and the shop.

When Reacton's system detects fire it automatically activates, rapidly discharging the UL approved suppression agent inside the cylinder to the seat of the fire inside the CNC machine. With no power requirements, our systems protect your assets 24/7 365, day and night.

Easily fitted to new or existing CNC machines, Reacton's systems will detect and put out fires first time, every time.

MOST COMMON SOURCE OF CNC FIRES:

- Oil based fluid ignition
- Broken & damaged cutting tools
- Static electricity build up
- Drop in oil level
- Programming mistakes



THE ADVANTAGES OF A REACTON SYSTEM:



- Rapid fire detection and immediate delivery of 3M™ or Chemours™ clean agent
- Most trusted and tested UL approved clean agents on the market
- Automatically activated
- No power required
- Lightweight and compact
- Extremely cost effective
- 10 year service life
- 3 year warranty on all parts

HOW OUR AUTOMATIC FIRE SUPPRESSION SYSTEM WORKS

INDIRECT SYSTEM

The Reacton CTX Indirect System provides simple and reliable protection from fire for your CNC machine.

During the installation our detection tubing is fitted throughout the machine ensuring that detection is close to any potential fire risk area. In the event of a fire the tubing ruptures, activating the system to deliver the extinguishing agent through a separate discharge network, quickly filling the hazard enclosure to suppress the fire.

The CTX Indirect System also offers the option to activate a smoke detector or external alarm system using integrated pressure switches. These systems can also be manually activated or activated through external detection using solenoid valves.

Reacton's CNC fire suppression systems are available in 4 sizes, ranging from 4.4lbs up to 20lbs, with either 3M™ Novec™ 1230 or Chemours™ FM-200™ extinguishing clean agents.



CLEAN AGENTS USED IN REACTON SYSTEMS



3M™ Novec™ 1230 or FK-5-1-12 is a fluorinated ketone that is stored as a liquid and discharged as a gas. It is electrically non-conductive and leaves no residue after discharge. It distributes uniformly throughout the hazard zone and suppresses fire primarily by heat absorption from the flame.



FM-200™ sometimes referred to as HFC-227ea is the most tested liquefiable clean agent of all time. It is an electrically non-conductive odourless and colourless gas. FM-200™ offers minimal downtime due to no clean-up, post discharge. It is stored as a liquid and introduced into the protected hazard as a clear colourless vapour. FM-200™ leaves no residue and is suitable for occupied spaces. FM-200™ has zero Ozone Depletion Potential.

CERTIFICATION AND ACCREDITATION OF A REACTON SYSTEMS

Reacton systems are designed to meet the most robust and demanding certification standards around the world. Our automatic fire suppression systems are independent of a power source which ensures detection and suppression in any condition. Our systems are all manufactured and designed under our BSI ISO9001:2015 quality policy and are CE & DOT Compliant. Our components undergo vigorous testing such as ISO 16750-3:2007, ISO 21207, IEC 60529:1989.

PRODUCTS:

Gaseous Suppression



Inert Gas (IG-01, IG-55, IG-100, IG-541)
Novec 1230™ Fluid (FK-5-1-12)
FM-200® (HFC-227ea.)
Carbon Dioxide (CO₂)
Hybrid Systems (N₂ / Water)
Pressure Relief Vents
Enclosure Integrity Testing Equipment
Pipe & Fittings

Water Suppression



Water Mist - High Pressure
Water Mist - Intermediate Pressure
Water Mist - Low Pressure
Hybrid Systems (Water / N₂)
Monitors & Delivery Systems
High Speed Deluge

Foam Suppression



Foam Concentrates
Foam Proportioning
Foam Delivery Systems
Foam Concentrate Testing

Explosion Protection



Explosion Suppression
Explosion Isolation
Explosion Vents & Pressure Relief
Spark Suppression
Explosibility Testing

Fire Detection



Linear Heat Detection - Digital
Linear Heat Detection - Fibre Optic
Linear Heat Detection - Micro Chip
Flame Detection
Video Imaging Detection
Spark Detection
Control & Indicating Equipment
Thermal Imaging Detection
Aspirating Smoke Detection

Military & Defence



Military Vehicles
Naval Vessels

Special Applications



Micro Environment
Oxygen Reduction
Kitchen Protection Systems
Dry Chemical
Vehicle Systems
Compressed Air Foam
Marine & Offshore
Vapour Mitigation
Li-Ion Fire Systems

Support Services



Design / Engineering
Technical Support
Services & Testing

Australia

Head Office

Unit 1, 251 Ferntree Gully Road
Mt Waverley VIC 3149
Australia

Brisbane Office

Unit 7, 93 Rivergate Place
Murarrie QLD 4172
Australia

Perth Office

18 – 20 Ledger Road
Balcatta WA 6021
Australia

Sydney Office

Unit 5, 11 Reliance drive Tuggerah
NSW 2259
Australia

1300 742 296

www.fire-protection.com.au

New Zealand

Auckland Office

Unit 2, 13 Airborne Road
Albany North Shore 0632
New Zealand
www.fire-protection.net.nz

South East Asia

www.fire-protection.com.sg



'Every solution for your special hazard problems'