

FIRETRACE[®]

POWER TO INNOVATE. FLEXIBILITY TO ADAPT.



HEAVY EQUIPMENT
Fire Protection Solutions

FIRETRACE, THE PROVEN CHOICE FOR HEAVY EQUIPMENT PROTECTION

THE PROBLEM

Protecting heavy equipment against fires can be challenging.

Protecting heavy equipment against fires can be challenging. These massive machines contain large quantities of highly flammable diesel fuel, lubricating oils, and hydraulic fluids - any one of which can contribute to a rapidly expanding fire under the correct conditions.

Heavy equipment is operated under punishing conditions that stress mechanical and electrical components to the limit. Material or fluids coming in contact with hot exhaust or engine parts or an electrical fault can quickly erupt into a fast-spreading fire that can result in expensive repairs and unscheduled downtime. And most importantly, an unchecked and uncontrolled equipment fire can pose a serious threat of death or injury.

THE FIRETRACE SOLUTION

Firetrace offers a unique solution for protecting all types of equipment against the risk of fires. The heart of the Firetrace system is the company's unique, pressurized detection tubing, which can be routed in and around the hazard areas of mobile and electrical equipment. The heat-sensitive tubing is designed to burst when exposed to a fire's radiant heat, which automatically triggers the release of the fire extinguishing agent. The detection tubing is immune to gas, oil, dirt, vibration and temperature extremes that can cause other fire systems to fail, yet is reliable enough to avoid false discharges. And because the detection tubing is located in the hazard area where fires begin, it can react many times faster than conventional fire detection systems.

TYPICAL AREAS PROTECTED

- ✦ Engine Compartments
- ✦ Drive Systems
- ✦ Electrical Systems

FIRETRACE ADVANTAGES:

-  - Fast, reliable fire detection and suppression
-  - Activates automatically – no operator assistance needed
-  - Can be configured to shut down equipment and trigger alarm
-  - Eliminates concern for false alarm or false discharge
-  - Provides immediate detection and delivery
-  - Allows for inexpensive installation, maintenance and recharge
-  - Tubing can easily be routed to virtually any location in the cabinet to provide fast, accurate detection



HOW IT WORKS

Firetrace offers two types of suppression systems: Direct and Indirect. Both systems are compatible with a variety of high- and low-pressure fire extinguishing agents.



FIRETRACE DIRECT SYSTEM

The Direct System utilizes the red detection tubing as both a fire detection device and the extinguishment delivery system. The tubing is installed in and around the fire risk areas. When a fire occurs, the tubing will burst at the point of highest heat, forming an effective discharge “nozzle”. The agent is then delivered through the tubing at the burst point, suppressing the fire quickly and thoroughly – right at the point of inception.



FIRETRACE INDIRECT SYSTEM

The Indirect System utilizes the tubing as a detection only device. When the tubing ruptures, the extinguishing agent is delivered through a network of braided hose or stainless steel tubing to strategically placed nozzles within the protected enclosure. Indirect systems are available with a manual release option which allows the operator to activate the system at the first sign of trouble.

FIRETRACE DETECTION TUBING

Firetrace Detection Tubing is ideal for fast, reliable detection of heat and flame even in the toughest applications.



FIRETRACE E4 TOTAL FLOODING SYSTEM

Firetrace also offers the industry leading E4 Engineered Clean Agent Total Flooding Systems, which are capable of protecting entire rooms. E4 systems take full advantage of 3M™ Novec™ 1230's unique characteristics which allows the use of lower-cost, low pressure equipment while achieving the performance of more costly high-pressure systems. E4 offers increased design flexibility and lower labor, piping and installation costs.

E4 systems can be sized for any room. The systems can be activated either manually or automatically. E4 systems are also available with FM-200 clean fire suppressing agent.



FIRETRACE®

POWER TO INNOVATE. FLEXIBILITY TO ADAPT.

FIRETRACE HEAVY EQUIPMENT APPLICATIONS

Firetrace pre-engineered automatic fire detection and suppression systems have been field proven for two decades on vehicles and equipment operating in harsh environments. Firetrace has its origins in the late 1980's in the United Kingdom as a special hazard fire suppression system. Through the 1990's applications expanded to include enclosures such as machines, fume hoods, data centers and electrical cabinets as distribution increased in Europe.

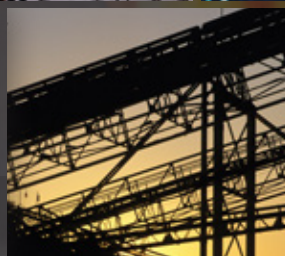
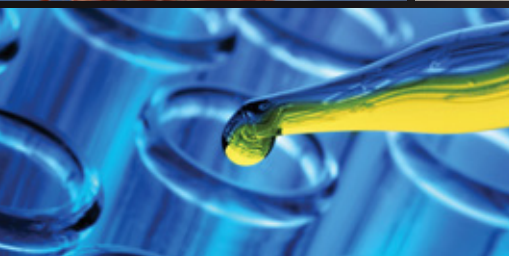
In 2001, the worldwide rights to Firetrace were purchased by Firetrace USA, a group of fire suppression industry veterans who saw the value in creating fire suppression systems for "micro-environments". This concept is simply providing supplemental protection that suppresses fire quickly within the protected space before larger room or building systems would activate. As a result of this supplemental protection, fire damage, both direct and collateral, and costs associated with cleanup and downtime are significantly reduced or eliminated. Available in multiple system sizes (ranging from one pound systems to 50 pound systems) and utilizing a variety of fire suppressing agent options, Firetrace is the fire suppressing system of choice for virtually all electrical and mobile equipment.

Airports

IT Infrastructure

Mass Transit

Ports and Intermodal Facilities



Mining

Military

Oil & Gas

Wind Energy

Pharmaceuticals

A HALMA COMPANY

www.firetrace.com

Firetrace currently has more than 20 international approvals and listings, including UL, CE, FM, ULC & ISO9001. Approvals and listings vary by system type and agent.



FIRETRACE INTERNATIONAL - WORLD HEADQUARTERS
8435 N. 90th St., Suite 2, Scottsdale, AZ 85258 USA
+1 888 607 1218 (USA & Canada toll free)
+1 480 607 1218 • info@firetrace.com

FIRETRACE USA LLC - MIDDLE EAST BRANCH
Office 2117, Building 7WB, Dubai Airport Freezone
(DAFZA), Dubai, United Arab Emirates
+971 56 7599490 • info@firetrace.com

FIRETRACE INTERNATIONAL LTD - EMEA OFFICE
Unit 11, IO Centre, Salbrook Road, Salfords,
Surrey, RH1 5DY, UK
+44 (0) 1293 780 390 • emea@firetrace.com