

A large yellow and black combine harvester is shown from a low angle, moving through a field of dry, golden-brown crops. The harvester's front features a prominent black metal frame with multiple horizontal bars, each equipped with a small, circular fire suppression nozzle. The background shows a clear blue sky with some light clouds.

# **FIRE**TRACE<sup>®</sup>

AUTOMATIC FIRE SUPPRESSION SYSTEMS

## **FARMING EQUIPMENT**

Fire Protection Solutions



**Research shows nearly 700 combine fires occur annually in the U.S.,** with losses exceeding \$10 million of equipment, not including lost production time, crops and the cost of leasing replacement equipment.



**Over 75% of combine fires occur in the engine area.** More than 40% of fires are the result of the build-up of chaff and organic materials.

## THE PROBLEM

The agriculture industry utilizes very expensive machines for time-sensitive farming operations. This equipment, while extremely reliable, can be susceptible to elements of the working environment.

Over time hoses can fatigue and fail or chaff can build up on the machine, accumulating in the engine compartment or other hazardous areas. The heat of the engine and exhaust systems can easily ignite the leaking fluid or dry materials leading to a fire that can:

- ✦ Severely damage or destroy the equipment
- ✦ Injure the operator
- ✦ Burn the crop
- ✦ Delay the harvest – possibly resulting in lost crops

Fires can be potentially be a significant problem, endangering personnel, equipment, worksites and even the environment.

Firetrace provides an excellent solution to help prevent a small fire from becoming a major event.

Additionally, many insurers, recognizing the potential losses associated with a fire in farm equipment, have now begun to require automatic fire suppression as a condition of coverage.

## THE FIRETRACE SOLUTION

Firetrace automatic fire suppression systems were designed specifically for the harsh environment of farming machinery. In spite of the vibration, temperature extremes and organic materials that can often cause interference with detection and operation that would cause other fire systems to fail, Firetrace's unique design enables it to endure these conditions for years of reliable service.

Firetrace is not a replacement for following a strict cleaning regimen for the machine as dictated by the manufacturer, or as conditions warrant. Firetrace is an excellent solution to help prevent a small fire from becoming a major event.

**Be sure to ask for Genuine  
Firetrace equipment in  
protecting your investment!**



## TAILORED SOLUTIONS



### Direct Release Systems

The Direct Release System utilizes the Firetrace Detection Tubing as both the fire detection device and the fire suppressant delivery system. The portion of the tube nearest the hottest point of the fire ruptures, forming an effective discharge “nozzle”. The pressure drop in the tube releases the entire contents of the cylinder through this nozzle.



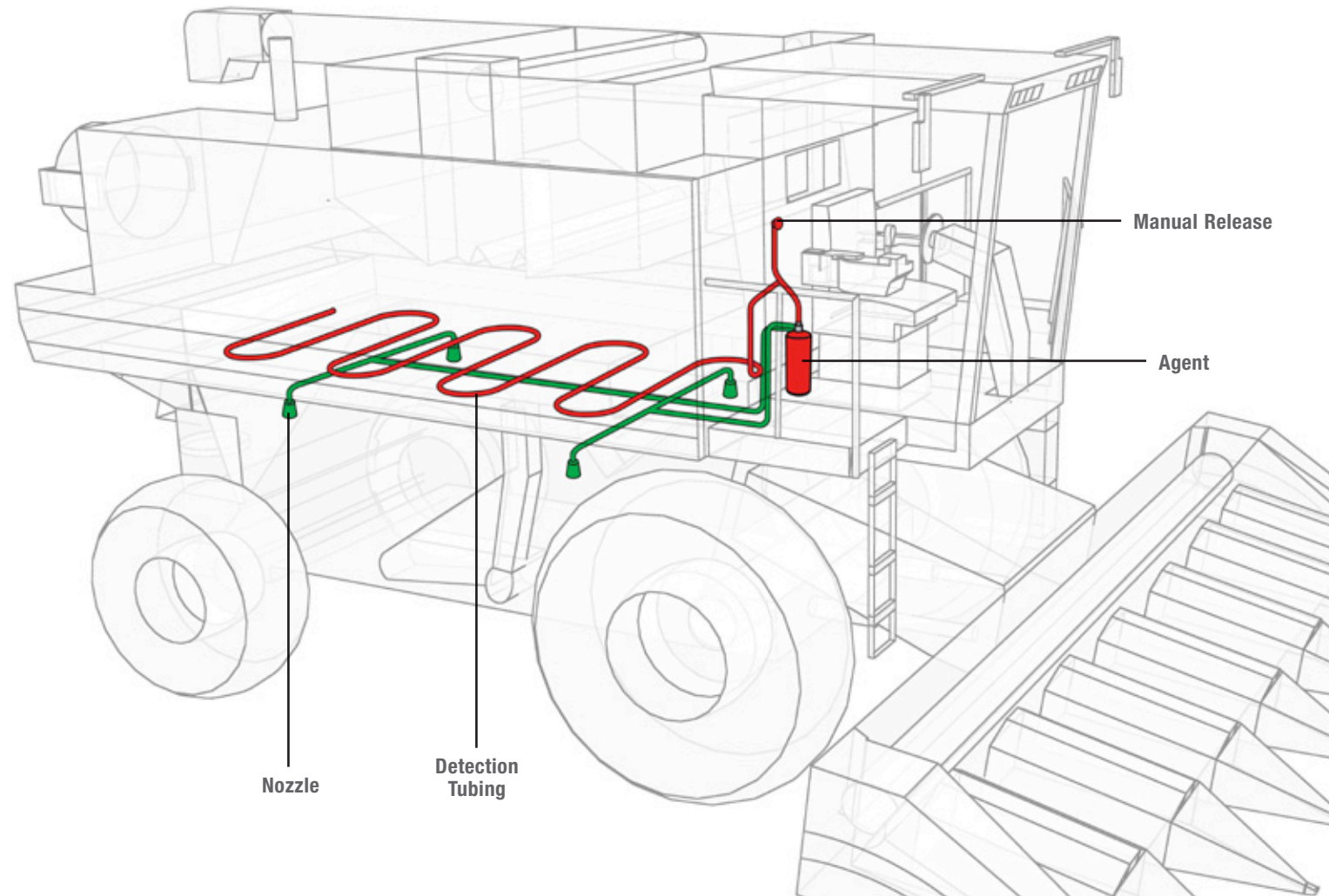
### Indirect Release Systems

With the Indirect Release System, the Firetrace Detection Tubing is used only as a detection device. The fire suppression agent is delivered via copper tubing, stainless steel tubing or braided hose. Once the tube “bursts”, the suppressant is discharged through strategically placed nozzles within the protected enclosure.

## HOW IT WORKS

Firetrace is a totally self-contained fire detection and suppression system. It requires no electricity to operate and offers automatic 24/7 protection for the machine.

The proprietary red Firetrace Detection Tubing is the key to detecting fires where they start. By routing the tubing through the areas to be protected, Firetrace’s detection can get right to the source of the fire. Firetrace tubing is constructed from a proprietary polymer composition; it is immune to the dirt, vibration and shocks associated with harvesting. When the tubing is exposed to the heat and radiant energy from a fire, the tubing bursts, activating the system.





## **FIRETRACE® Vehicle Applications**

Firetrace has more than 250,000 systems installed protecting critical equipment worldwide. 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) utilizing a variety of fire suppressing agent options, Firetrace is now the choice fire suppressing system for virtually any enclosed application, including farming equipment and combines.

Distributor opportunities are available. Please contact Firetrace to learn more.

Firetrace is available exclusively through our worldwide distributors, each of which has been properly trained in the installation and maintenance of Firetrace systems. To locate the Firetrace distributor nearest you please contact us at:

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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.