



# Rolling Stock Protection





## THE RISK: Fires in Locomotives and Railroad Cars

Fire protection of railroads is critically important as the risk of a catastrophic fire to human life and property continues to be a major concern, both in the public sector and in private operations. Downtime and replacement costs of a damaged locomotive demand that a simple, stable, durable fire suppression solution be implemented. These fires are unpredictable and often difficult to avoid. In recent years, awareness of this issue has grown tremendously, and automatic fire suppression is more and more often required by regulation or strongly recommended as an economical and sensible solution.

Most rail fires occur in electric drives, diesel fuel and electric engine compartments, hybrid battery stations, hydraulics, electric control cabinets and braking mechanisms of the locomotive. Cylinder heads and oil filter chambers are especially at risk.

Fire protection of these areas is complicated by the limited space and the heavy wear and tear of these vehicles. The railroad environment is typically subject to constant vibrations, great changes in humidity and temperature, and dusty and dirt-filled tracks. All of these combine to make Stat-X an ideal fire suppression solution for the rolling stock industry.

## THE SOLUTION: Stat-X Fire Suppression

### *Advanced Technology*

Stat-X highly-advanced fire suppression technology offers the most compact and economical fire extinguishing solution available for the Rolling Stock industry. A Stat-X unit consists of an extremely rugged, hermetically sealed, stainless steel canister containing a stable, solid compound. The canister is durable and non-pressurized, and is capable of withstanding harsh, corrosive environments. In the event of a fire, Stat-X units automatically release ultra-fine particles and propellant inert gasses which quickly and effectively extinguish fires without depleting oxygen levels and with no negative impact on the environment.



*Stat-X® extinguishing units are compact and modular*

### *Versatile Applications*

Stat-X units are available either as electrically activated units integrated with a variety of fire detection systems, or as thermally-activated units, requiring no external power source. Stat-X units are modular in size, capable of protecting all high-risk component areas of a locomotive, including engine compartments, oil filter chambers, cylinder heads, hybrid and conventional battery containers, hydraulics, and all electric control cabinets.

### *Highly Economical*

Stat-X units have minimal installation expense as no piping is needed and no pressure-relief systems are involved. The simple and robust design requires virtually no maintenance, thereby reducing ongoing operating costs. Further, discharge of the extinguishing agent causes no damaging or harmful byproducts, so in the event of a fire, downtime is kept to a minimum.



## At-risk areas to be protected by Stat-X Fire Suppression Systems

- Engine
- Diesel fuel filter chamber
- Hydraulics
- Hybrid systems
- Electric control cabinets
- Braking mechanisms



*Stat-X® fire suppression system protects the engine and alternator cabs and the oil filter compartment.*

### **The Advantages**

- Effective fire suppression
- 24/7 automatic protection
- Extended service life
- Ideal for harsh environments
- Rugged, sealed stainless steel construction
- Compact and modular design
- Many certifications, including MIL-STD-801G, see below
- Easy retrofit option
- No maintenance required
- Low cost
- Environmentally friendly – Zero Global Warming Potential (GWP) and no Ozone Depletion Potential (ODP)

### **Rolling Stock Stat-X Fire Suppression Applications:**

- Tunnel Locomotives
- Standard Gauge Locomotives
- High-speed Trains
- Commuter and Metro Trains
- Subways
- Diesel, Electric, and Hybrid Trains

*Stat-X® fire suppression systems are suitable for a wide variety of rolling stock applications including the engine protection of the work trolleys shown here.*





## **Stat-X Technology Protects Critical Infrastructure Worldwide**

Today there are thousands of Stat-X installations protecting lives and property on six continents.



**Telecommunications**



**Mining**



**Electric Cabinets**



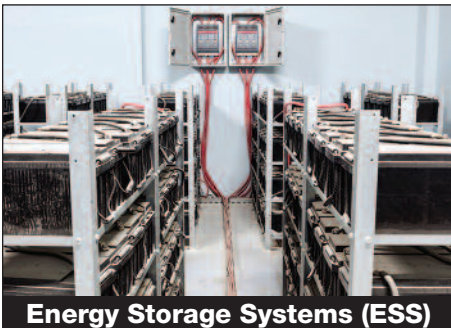
**CNC Machines**



**Transportation**



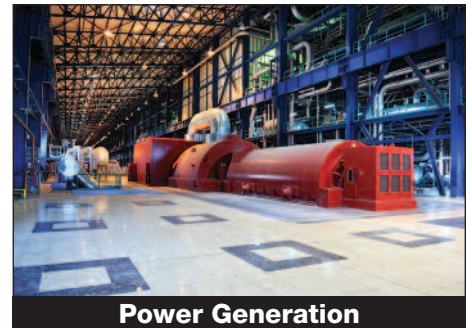
**Flammable Liquid Storage**



**Energy Storage Systems (ESS)**



**Rolling Stock**



**Power Generation**

### **Approvals and Homologations**

The advanced technology used by Stat-X products is covered by NFPA® 2010 Standard for Fixed Aerosol Fire-Extinguishing Systems. Current approvals are shown below and more are pending. Contact your Stat-X representative for details, limitations, and the latest listings.



### **Committed to Quality and Technology**

Stat-X is manufactured by Fireaway Inc. Fireaway implements a Management System, certified by QAS according to Standard ISO 9001:2015 (US2635) in Minnetonka, MN.

Contact an authorized distributor partner or Fireaway direct for more information.

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<https://statx.com/privacy-policy/>

### **Authorized Distributor**



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