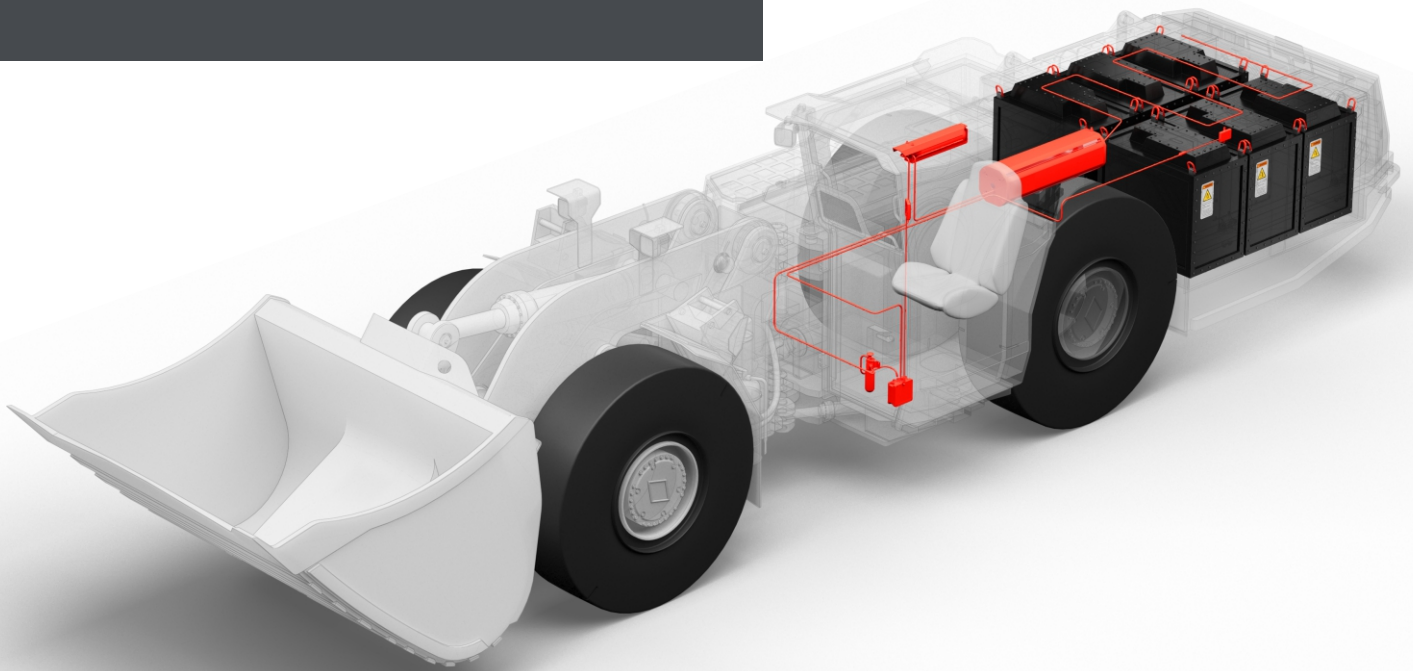


As the owner of a vehicle with a Dafo Vehicle Fire Suppression System, you have taken a major step in fire protecting your employees, equipment and business.



## Fire Suppression Systems for buses and heavy-duty vehicles

Heavy equipment faces a significant risk of fires due to extended operating hours under extreme conditions and exposure to flammable fuels like diesel, hydraulic fluid, and grease. High-temperature surfaces, such as engine blocks and exhaust systems, can easily ignite these materials, creating hazardous conditions. Fires often lead to costly repairs, lengthy downtime, and even loss of business. In severe cases, they can cause injuries or fatalities. Acknowledging these risks, many insurance companies and regulations require reliable fire suppression systems for heavy-duty vehicles. The Dafo Vehicle fire suppression system consists of four integrated elements: Detection, Alarm, Suppression and Control, which work together in a coordinated, fast and efficient way to suppress fires.



**DAFO**  
Vehicle  
BY UNITED SAFETY

## Safeguarding your journey



### The Forrex EVO suppression agent

- Effective, non-corrosive, and environmentally friendly.
- 100% Fluorine Free.
- Creates a protective layer that clings to all surfaces and prevents reignition
- Freeze protection to  $-40^{\circ}\text{C}$ .
- Easy cleanup: rinse with water.

### Agent tank type SV-K and SV-B

- Works in any orientation.
- High flow and even pressure.
- Non-pressurized in resting state
- Corrosion-resistant and patented design.
- Sizes: 5L (1.25 gal) to 25L (6.5 gal)



### Linear detection wire

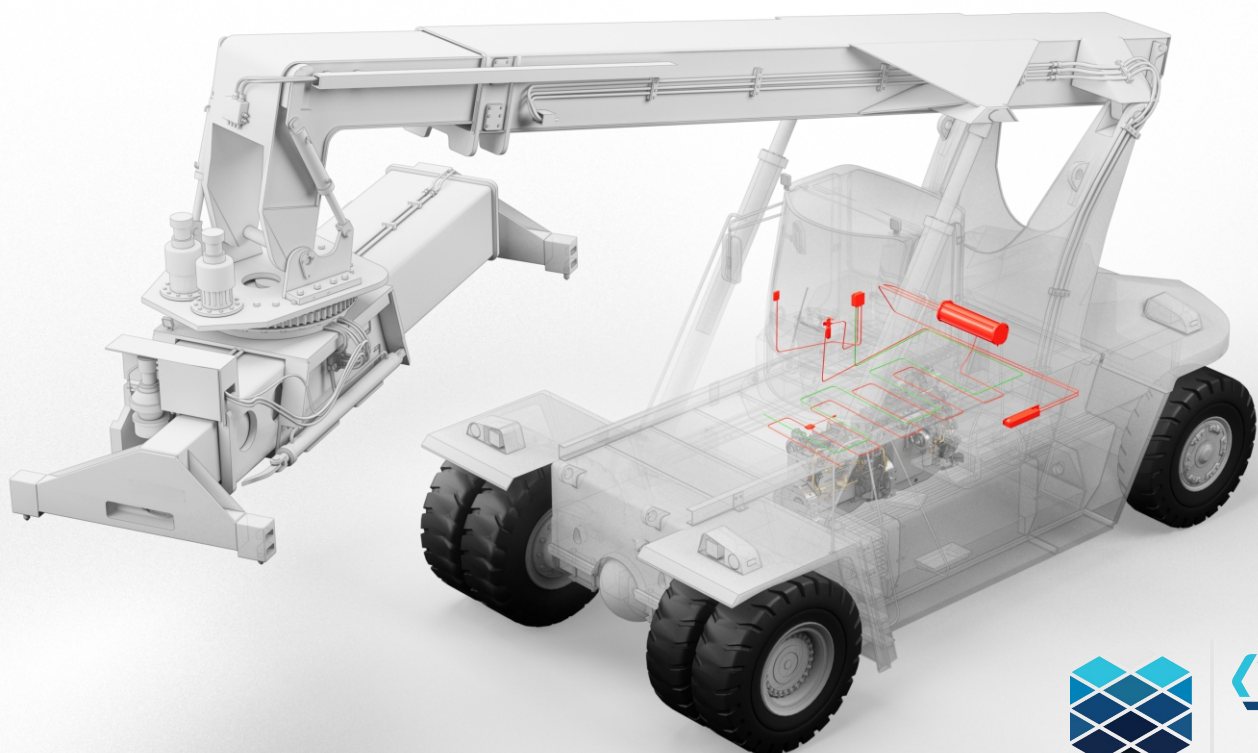
- Enhanced hazard area coverage.
- Available in different triggering temperatures.
- Rapid fire response.

### Audible and optical alarm

- Alarm lamp and horn activate on discharge.
- Manual mode: The alarm signals the driver to actuate the system via the control panel or manual release unit.
- Automatic mode: Detection triggers system release immediately.

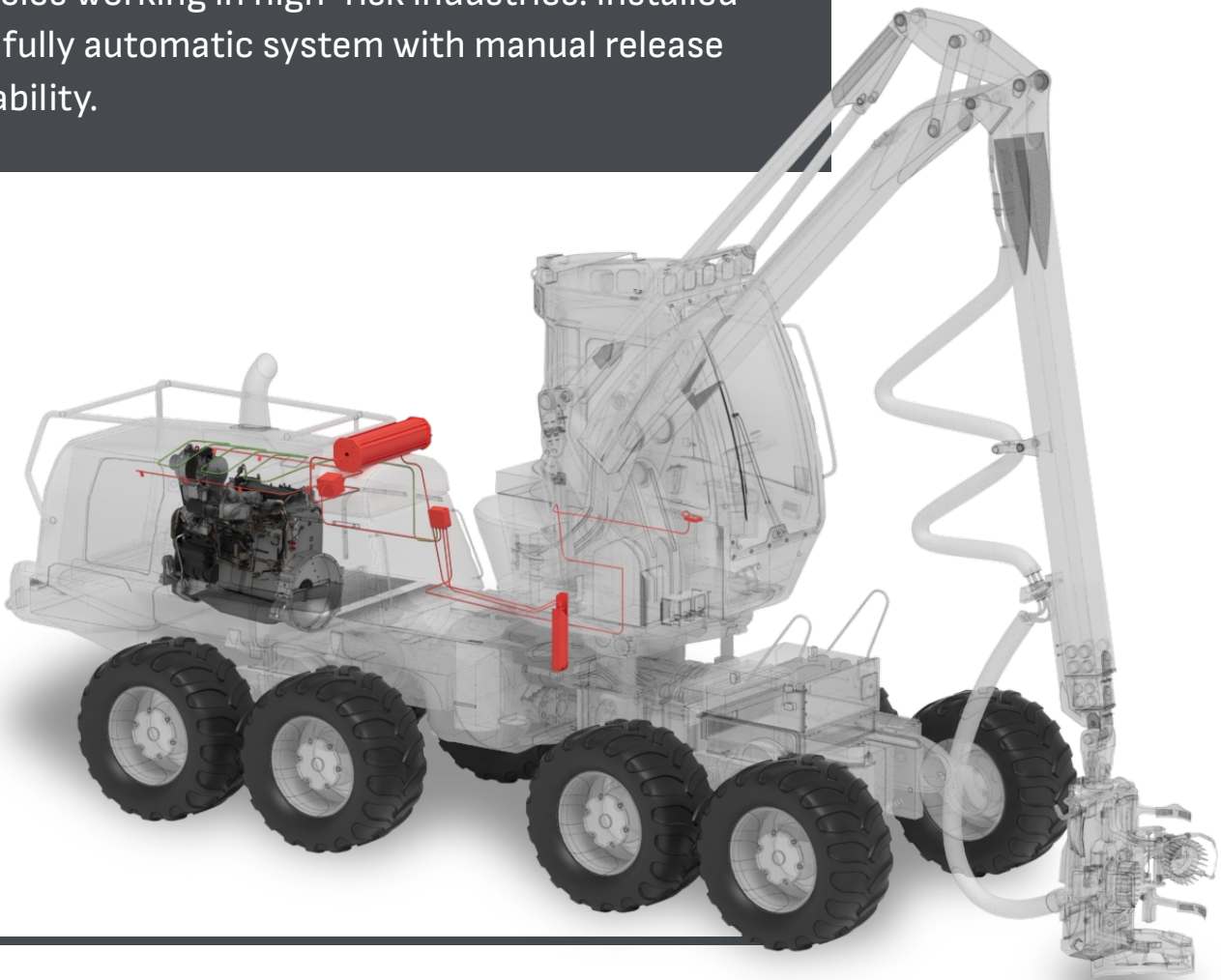
### Forrex Nozzle

- $100^{\circ}$  spray pattern with 1.5 m (5 ft) range.
- Produces optimally sized droplets for effective cooling.
- Durable silicon cap prevents blockage.



**DAFO**  
Vehicle  
BY UNITED SAFETY

A Fire Suppression System specially designed for vehicles working in high-risk industries. Installed as a fully automatic system with manual release capability.

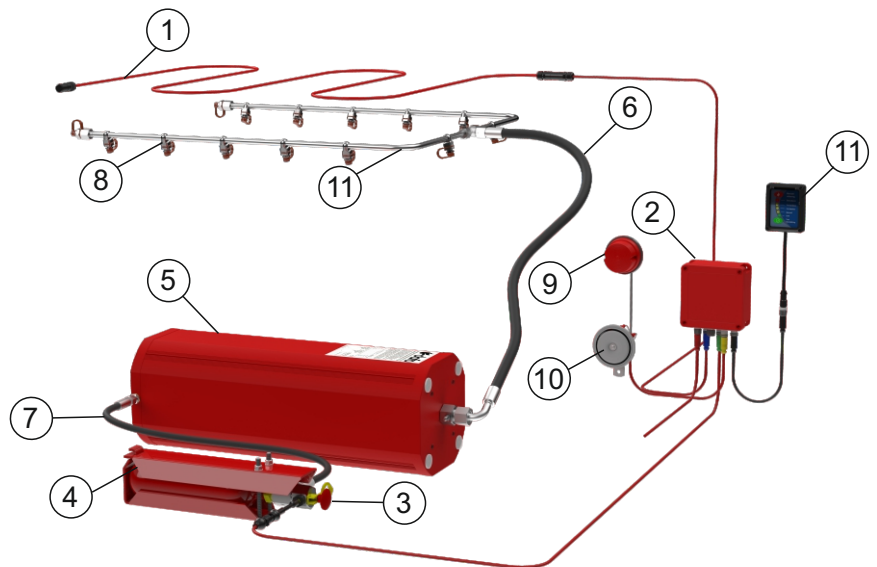


### Operation

Fire is detected by the linear detection wire (1), which sends a signal through the control unit (2) to the actuator (3) which releases the nitrogen cartridge (4). The nitrogen cartridge pressurizes the agent tank (5) which releases the agent at a pressure of 20 bars (290 9psi) through the distribution system (6 & 7) and the nozzles (8). When the system releases, the visual alarm lights (9) and the alarm horn (10) is activated. The alarm is indicated on the alarm panel (11) in the cab.

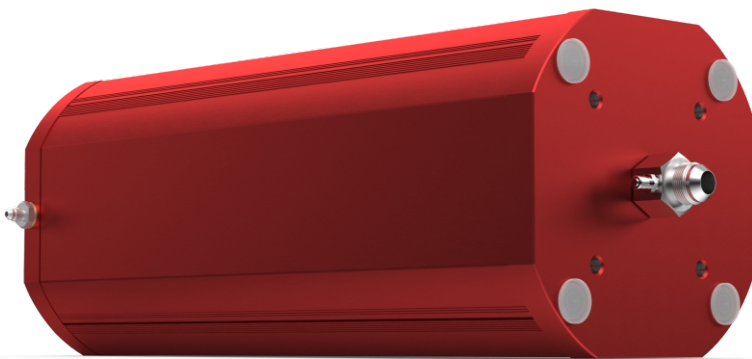
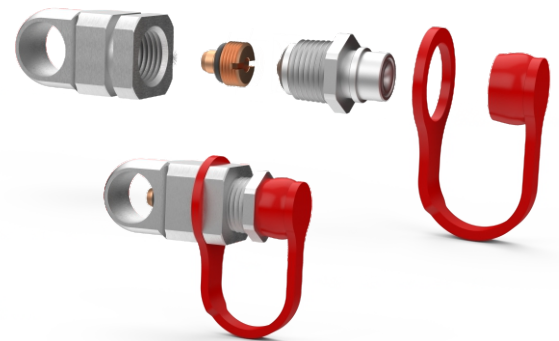
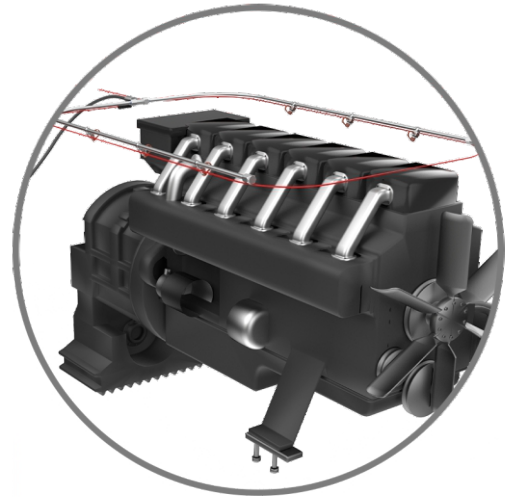
### Actuation

- Manual release from the pneumatic or electric actuator (3).
- Automatic release from the linear detection wire (1).
- Manual release from the alarm panel (11).



# Benefits

- A well-integrated and effective system solution based on thorough Risk Assessment, Design, Installation and Documentation.
- The robust design resists vibration, extreme temperatures, chemicals, and mechanical stress.
- Low Total Cost of Ownership
- Non-pressurized system simplifies maintenance, service, and recharging.
- Contributes to increased profitability through less downtime for the operator.
- Supports both manual and automatic actuation.
- Compliant with SBF regulations, ensuring 3 liters of suppression agent per m<sup>3</sup> of engine volume.
- Backed by over 40 years of proven expertise in vehicle fire suppression.
- Tested in accordance with AS5062, approved, and compliant with SBF127:17, UNECE R107 etc.



The nozzles are optimized for use in Forrex VFSS where the flow and discharge time are critical, the nozzle is designed for the best possible flow and coverage.

