STATIONARY FIRE PROTECTION

Faster than fire!

Turnkey solutions from a single supplier.
Effective fire protection
As one of the world’s leading manufacturers of firefighting equipment, Rosenbauer also ensures maximum efficiency and safety in stationary fire protection. Customized extinguishing systems for the most varied of industrial applications also offer optimum protection and reliable prevention in your company. Stationary fire protection from Rosenbauer – the best investment for your plant.
Stationary extinguishing systems – faster than firefighters.

Defense is important. Prevention is even better.

Even before firefighters arrive, stationary extinguishing systems from Rosenbauer can rapidly and effectively protect people and facilities where, sprinkler and spray water systems, for instance, don’t offer the best protection. Ideally even before a fire starts.

The turnkey solutions impress with their excellent extinguishing power. Through integrated measuring and fire detection systems, the Rosenbauer extinguishing system can react within seconds and can extinguish incipient fires literally before they even start.

Stationary extinguishing systems from Rosenbauer can be used wherever machines are at risk of fire and flammable materials require protection. Indoor extinguishing systems are for the protection of people, buildings, and machinery. Turret extinguishing systems are used to extinguish with precision. Tunnel extinguishing systems ensure protection in tunnels, large halls, and in wide-open spaces. The POLY CAFS TWIN AGENT is a semi-stationary firefighting system for the protection of special industrial applications. To allow maximum efficiency and safety, the system concept is always individually adapted to the corresponding protection target.

Stationary fire protection from Rosenbauer impresses with

- individual system concepts,
- turnkey solutions,
- excellent extinguishing performance.

The specialist for special extinguishing systems.

Nearly 150 years of experience in the area of firefighting equipment as well as ongoing research and development make Rosenbauer the technology and innovation leader in fire protection. From planning, development, and start-up right through to maintenance and servicing of extinguishing systems, Rosenbauer is a competent specialist and partner.
firefighters.
Stationary extinguishing systems from Rosenbauer

Individual solutions for special protection.
Stationary extinguishing systems from Rosenbauer are an important part of industrial fire protection. They can already fight fires in the formation stage, prevent their spread, and reduce production downtimes and standstills. Rosenbauer offers customized, integrated solutions with highly effective firefighting equipment. The individual concepts are used in the most diverse of sectors and industrial applications, such as recycling plants, helicopter landing pads, power stations, indoor and outdoor storage areas, conveyor belts or for industrial machine protection.

**Everything from one supplier.**

Every company, machine, and warehouse has different requirements when it comes to fire protection. That is why Rosenbauer develops powerful extinguishing systems for optimum protection together with those responsible for fire protection in your company as well as the responsible engineering offices, insurance companies, and authorities. During the entire project – from the first inspection of the object to be protected right through to maintenance – Rosenbauer’s competent team of experts will support you.

**Innovative, effective, lucrative.**

Stationary and semi-stationary extinguishing systems must correspond to the highest quality and safety standards. That is why Rosenbauer develops and produces the key elements of firefighting equipment and extinguishing agent outlets in-house. Important components such as turrets, CAF systems or self-sufficient POLY systems are manufactured by specialists and meet the usual high Rosenbauer quality standards.

**Three good reasons for stationary extinguishing systems from Rosenbauer:**

- Protection against production standstills and downtimes
- Prevention of consequential damage and image loss
- Possible reduction of insurance rates

**Energy autonomous POLY extinguishing system as an optimum integrated solution:**

- No electricity. No pumps. No electrical lines.
- Simple drive through compressed air
- Simple installation and retrofitting
- Low space requirements
- System size adapted to protection target
In addition to the competence and experience as the world’s market leader, it is primarily the innovative firefighting technology that makes Rosenbauer’s fire protection concepts so effective.

Optimum extinguishing agent.

In order to effectively intervene in an emergency, Rosenbauer’s stationary extinguishing systems use mostly water and foam as extinguishing agents. The extinguishing agent is adjusted accordingly for the objects and materials to be protected. The extinguishing effect of water is based on its ability to cool sustainably. Through evaporation of the water, energy is taken out of the fire which makes it impossible for the fire to sustain. An even better extinguishing result is achieved by admixing film-forming foaming agents. The cooling effect is reinforced as the surfactants present in the foam compound reduces the surface tension of the water and can penetrate deep into the burning material. Through the formation of a foam blanket, the burning material is separated from oxygen, the fire suffocated, and heat radiation is prevented.

Innovative firefighting equipment.

To extinguish particularly effectively in an emergency, Rosenbauer relies on the highly efficient CAFS compressed air foam technology. CAFS offers effective protection for different fire classes in a variety of applications. Through its excellent foam quality and extinguishing performance with small water requirements, CAFS extinguishing systems offer a superb alternative to conventional water extinguishing systems.

The CAFS technology.

In the CAFS mixing chamber the water-foaming agent mixture is actively turned into foam at a certain ratio via the introduction of compressed air. This creates foam of a unique quality, which increases the available extinguishing agent quantity multiple times due to the small air bubbles. The mixing chamber is protected against external influences, so that the foam quality cannot be affected by fumes. CAFS foam is transported in the pipes and distributed over the whole surface of the seat of the fire via the output devices.
Advantages of CAFS:

- Uniformly stable foam quality
- Large throw ranges for a safe distance to the flammable material
- Horizontal and vertical adhesion of the foam to hot surfaces
- Rapid suffocation of the flames through oxygen deprivation
- Increased safety against backburning and sustainable cooling through the compact CAFS foam structure
Rosenbauer – a partner for everything.

Products, consulting, and services from a single supplier.

**Development and installation.**

The extinguishing concept is precisely adapted to the corresponding application and individually to your requirements for optimum protection. The Rosenbauer team of experts will accompany you through all project phases. You will be supported by a competent project team from the start. On-site analysis ensures individual adaptation of the extinguishing system to your protection targets. The customized extinguishing system is manufactured, assembled, and put into operation by Rosenbauer. Of course, Rosenbauer will also take care of the support, maintenance, and servicing of the system.

**Maintenance and servicing.**

Stationary extinguishing system are important first response appliances at the scene of a fire. They can save lives and protect expensive assets. Regular inspections and maintenance by Rosenbauer experts are therefore essential to ensure a long service life. Legal requirements are also fulfilled to maintain operational readiness. Only specially trained staff carry out repair and maintenance works and issue the „Rosenbauer Service Inspection Label.”

**Modernization and refurbishment.**

Even if you already have a stationary extinguishing system, you can benefit from the advantages of innovative Rosenbauer firefighting technology. Simply let the Rosenbauer refurbishment team modernize or expand your system.

**Reliability through high-quality service:**

**Operational readiness of the system**
- Support of the extinguishing system and equipment from a single source
- Expert inspection
- Minimized failure risk
- Full functional readiness

**Cost Savings**
- Timely service and repair work
- Predictable costs
- Increasing the service life of the system
- Value retention of the equipment and systems

**Increased safety**
- Increased safety
- Inspection by authorized personnel
- Maintenance of the system at regular intervals
- High quality service
- Increasing operational safety
Reliable protection from the start:
Rosenbauer fire protection systems.
Customized solutions for the protection of machines, rooms, areas, and people:

- Reliable fire protection around the clock
- Securing ongoing production operations
- Minimization of production standstills
- Prevention of fires spreading to other areas
Turret and indoor extinguishing systems from Rosenbauer – Areas of application:

- Aircraft hangars
- Storage halls and outdoor storage areas
- Engine test benches
- Recycling plants and waste bunkers
- Helicopter landing pads
- Oil jetties

Rosenbauer’s turret extinguishing systems are used where sprinkler and spray water systems no longer offer sufficient protection.

Targeted fire fighting – targeted extinguishing process.

With its flexibility and outputs of up to 15,000 l/min, Rosenbauer turret extinguishing systems offer protection for buildings and objects, such as recycling plants, waste bunkers, storage halls, airplane hangars, helicopter landing pads, or tank farms. The precise turret control and excellent throw ranges allow extinguishing agent application even over large distances. The turret can also be connected to a temperature surveillance system. This enables a targeted extinguishing process after the detection of a hot-spot.

Turret extinguishing systems – advantages:

- Suitable for different extinguishing agents
- (water, foam, CAFS, powder)
- Throw ranges of up to 120 m
- Optimized turret nozzles, also for low pressure
- Intuitive operation and compact design
- Automatic oscillating function
Indoor extinguishing systems

Innovative system technology combined with maximum extinguishing efficiency.

Indoor extinguishing systems protect people, buildings, machinery, and flammable materials. The units are based on the innovative CAFS compressed air foam system, whereby the water/foam mixture is actively expanded into compressed air foam by introducing compressed air. The extinguishing agent is then distributed via full cone spray nozzles.

Rosenbauer extinguishing systems with POLY technology are energy autonomous extinguishing systems and work without pumps, motors, or electrical wiring. When connected to a fire alarm system, the system is automatically activated in the event of a fire.

For mobile first response, Rosenbauer offers two extinguishing units. The drivable POLY TROLLEY SL35/50 CAFS and the portable or drivable POLY PORTEX SL10 can be positioned at a sufficiently safe distance from the fire and are ready for operation within seconds.

Indoor extinguishing systems – advantages:

- Highest extinguishing efficiency through CAFS
- Easy to retrofit
- Possibility of external extinguishing agent feed in
- Small space requirements
- Energy-autonomous operation possible
- Easily, quickly, and cheaply refillable.

Indoor extinguishing systems – Areas of application:

- Conveyor belts
- Machines
- Paint shops
- Transformers
- Vehicles, agricultural machinery
Innovative. Intuitive. Safe.

Tunnel extinguishing systems

Tunnel extinguishing systems from Rosenbauer are compact extinguishing systems that can be attached along a tunnel in small recesses and connected to the local water supply. Water or CAFS can be used as extinguishing agents. The tunnel extinguishing systems meet the Austrian guidelines and regulations for road traffic (RVS no. 09.02.22).

Safety is the top priority.

Thanks to their simple operation, the tunnel extinguishing systems are efficient tools for emergency crews as well as for untrained first responders on the scene. Tunnel extinguishing systems make it possible to fight fires in the initial stage and before firefighters even arrive. Because every minute counts in an emergency. Long throw ranges of up to 25 m allow the operator to extinguish the fire from a safe distance. More than 500 installations across Europe speak for this economical and low-maintenance extinguishing system.

Tunnel extinguishing systems – Areas of application:

While tunnel extinguishing systems were developed for fire protection in tunnels, they are also used in other areas:
- Storage spaces
- Factory and machine halls
- Power station building
- Helicopter landing pads

Tunnel extinguishing systems – advantages:

- Intuitive operation and long throw ranges
- Ready for use immediately and available in the entire tunnel
- Highest extinguishing power and safety against backburning
- Also available with CAFS
- Easy to retrofit
POLY CAFS TWIN AGENT

In order to meet the special requirements for extinguishing systems on the high seas under extreme climatic conditions, Rosenbauer has developed the POLY CAFS TWIN AGENT system.

**Innovative solution for the offshore sector.**

Through its robust construction and the use of corrosion resistant materials like stainless steel, the semi-stationary POLY CAFS TWIN AGENT system is well-suited for offshore applications. It combines powder and CAFS, thus offering the highest extinguishing efficiency, especially when fighting fuel fires.

**Powerful in many situations.**

These systems, which can also be installed in containers or on vehicles, can be used to protect helicopter landing pads and for special industrial applications. Intuitive operation of the extinguishing systems enables rapid operational readiness within a few seconds.

**POLY CAFS TWIN AGENT – advantages:**

- Energy-autonomous operation, intuitive use, refillable
- Highest extinguishing power and high-quality materials
- Large throw ranges for a safe distance from the fire
- Low maintenance requirements

**POLY CAFS TWIN AGENT – Areas of application:**

- Oil rigs
- Oil and gas conveyor stations
- Industrial plants
- Helicopter landing pads
Efficiency in operation:
Rosenbauer fire protection concepts in use.
Fire protection concepts from Rosenbauer ensure the safety and protection of people, buildings, areas, systems, and machinery in many companies. They protect in emergencies in all industries and are the first on site when needed.
Reference 1 – Turret extinguishing system and POLY CAFS system for Remondis GmbH & Co. KG
Remondis is the world’s leading specialist in water and recycling management. Every type of household packaging waste is stored and sorted for further treatment at the Remondis waste sorting plant in Bochum. The highly flammable waste poses a high risk. If the material ignites, a fire could destroy the expensive sorting facility, lead to long production downtimes, and harm the environment. The fire protection system from Rosenbauer guarantees optimum safety for the delivery and storage area as well as conveyor belts and shredders. The combination of early infrared fire detection, turret extinguishing system, and POLY CAFS system ensures operations at Remondis around the clock.
The Liebherr family business was founded in 1949 and is one of the largest construction machinery manufacturers in the world. At the Bischofshofen site, between 2,000 and 3,000 wheel loaders with in-service weights are manufactured annually. All painted parts get their protective and paint coats in the in-house paint shop. The Liebherr compressed air foam extinguishing system is a purely mechanical solution like many Rosenbauer CAFS systems. It works without engines and pumps and does not need an external energy supply. Compressed air functions as the energy carrier, whereby a self-sufficient and reliable operation is ensured at all times in a real emergency.

Reference 2 – Turret extinguishing systems for Tönsmeier Wertstoffe GmbH & Co. KG
Tönsmeier, an environmental service provider and energy supplier with more than 30 treatment, sorting, and recycling plants in Germany, the Netherlands, Poland, and Austria makes a significant contribution to preserving natural resources. In Oppin, Tönsmeier operates an ultra-modern mechanical treatment plant for the recovery of waste, amongst others. The delivered material – mostly plastic and paper – is highly flammable and represents a high fire load. The powerful turret extinguishing system combined with an infrared detection system effectively supplements the existing extinguishing and alarm facilities. If the system detects a hot-spot, it immediately ensures that the affected area is cooled with foam.

Reference 3 – Indoor extinguishing system for the Liebherr Plant Bischofshofen GmbH
The Liebherr family business was founded in 1949 and is one of the largest construction machinery manufacturers in the world. At the Bischofshofen site, between 2,000 and 3,000 wheel loaders with in-service weights are manufactured annually. All painted parts get their protective and paint coats in the in-house paint shop. The Liebherr compressed air foam extinguishing system is a purely mechanical solution like many Rosenbauer CAFS systems. It works without engines and pumps and does not need an external energy supply. Compressed air functions as the energy carrier, whereby a self-sufficient and reliable operation is ensured at all times in a real emergency.
Bharat Forge Aluminiumtechnik (BFAT) is part of the Indian Kalyani Group, one of the largest full-service suppliers of forged engine and chassis components, non-automotive components, and systems worldwide. Industrial aluminum processing holds a multitude of risk factors which could cause fires, as the oils required for production and processing are extremely flammable. This hazard increases as a result of the enormous heat build-up throughout the entire production process. In addition to a machine fire, the press and hydraulic room can also easily ignite. An integrated flame detection system scans the entire extinguishing area around the clock with the help of infrared light and UV rays. If a fire is detected, the extinguishing system control center automatically activates the POLY CAFS extinguishing system and the extinguishing agent is distributed in a targeted manner through the CAFS full cone spray nozzles.
Reference 4 – Indoor extinguishing system for Korn Recycling GmbH

Korn operates one of the most modern commercial waste sorting and refuse-derived fuel treatment plants in the world. The danger of a spark jumping into the system’s shredders is high, which may cause an incipient fire due to the highly flammable materials. A fire could quickly spread to other parts of the plant through the fast moving conveyor belts. With the stationary fire protection system installed by Rosenbauer, sparks and hot surfaces are quickly detected, and the extinguishing process is automatically initiated in less than 0.5 seconds. The conveyor belts are protected against incipient fires by a fully automated CAFS indoor extinguishing system with installed pipework and precise extinguishing. Additional hose reels are available for object protection. The risk of downtime is reduced to a minimum.

Reference 6 – Turret extinguishing systems for the Spreerecycling power plant, Hamburger Rieger GmbH, Power Station division

Spreerecycling is a subsidiary of Hamburger Rieger Papierfabrik Spremberg. About 750 tonnes of treated commercial and municipal waste is delivered there daily, which is then stored in four 32 m high bunkers before it is burnt and converted to energy. Fires can ignite in the bunkers due to the interaction of different stored materials. A stationary extinguishing system was set up to prevent this, the heart of which is made up of six turrets in combination with an infrared system for early fire detection. The infrared system scans the bunkers around the clock. If an incipient fire or a rise in temperature is detected in the bunker, the system sends the coordinates of the hot-spot to the turret extinguishing system. The turrets align themselves to the hot-spot and reach all areas of the four bunkers with a throw range of up to 65 m. The extinguishing process can be performed via remote control or completely automatically.