

# Fire protection for waste bunkers

## Turret extinguishing systems



### Initial situation

The most diverse of waste is temporarily stored in waste bunkers. The continuous supply and removal of waste leads to interaction and friction of different materials, which produces heat and which can result in fire. Another risk is posed by exploding spray cans, for example.

The waste which is stored in preparation for refuse-derived fuel (RDF) has an extremely high calorific value. If a fire breaks out, it is often difficult to contain and can lead to enormous financial damage and negative effects on the environment.

### Solution

Effective firefighting starts before the fire breaks out. In combination with an infrared detection system, the Rosenbauer extinguishing system recognizes dangers early and isolates them before an ignition occurs.

The fire monitors along the bunker walls target the source of the fire with utmost precision. The extinguishing agent (CAFS or foam) penetrates deep into the burning material and cools it down sustainably.

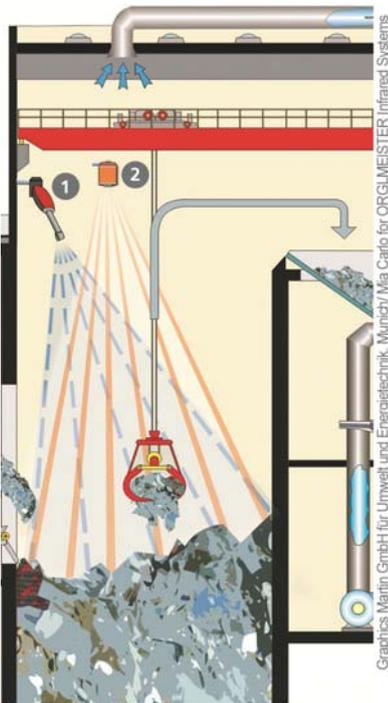
The entire process - from fire detection right through to extinguishing procedure - can be fully automated. So the Rosenbauer turret extinguishing system offers around the clock protection - even outside operating hours.

### CAFS - Innovative firefighting technology

- Consistently stable foam quality
- Highest extinguishing efficiency
- Sustainable cooling
- Deep penetration into the flammable material by reducing the surface tension of the water
- Excellent burn-back protection
- Rapid smothering of the flames through oxygen deprivation
- Lower application rates and limitation of water damage
- CAFS foam sticks to hot surfaces - also vertically
- Multiplied extinguishing agent volume through active foam expansion to CAFS

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## Turret extinguishing systems



- 1 Rosenbauer turret extinguishing system in waste bunker
- 2 PYROsmart®- installation in waste bunker



Sliding and protection unit



Turret RM15C



PYROsmart infrared system



FireDos foam proportioning system

## Fully automated extinguishing system

If the infrared detection system detects a hot-spot, its coordinates are sent to the turret and the extinguishing system is activated. As a result, the pump starts operating, foam expansion begins, valves in the affected area open, and the water-foam mixture is fed through the pipelines to the turrets. The flaps of the turret protection unit are opened, the turret moves out of its protective housing and automatically focuses on the source of the fire. The extinguishing process can be started fully automatically via the PYROsmart IR system or also manually via a joystick in the crane cockpit.

### RM15C / RM25C turret

- Electronically controlled turret
- Flow rate: up to 1500 l/min (400 GPM) or 2500 l/min (660 GPM) respectively
- Throw ranges of up to 65 m (213 ft) or 70 m (230 ft) respectively
- Compact design
- Automatic control via infrared detection system
- Easy operation also via joystick
- Automatic oscillating function
- Electric stream adjustment

### Turret extension & protection unit

- To protect the turret from dust and mechanical damage
- In emergencies the flap opens and the turret automatically moves out of its housing
- Within a short amount of time the extension device moves the turret into attack position

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