



Airport Vehicles

Solutions for aircraft rescue and fire fighting.

Innovations for efficient operations at airports.

 **rosenbauer**

Maximum airport safety.

Innovations that cover all requirements.

Safety is the highest priority at airports. Whether for prevention or extinguishing – speed, performance, and the right equipment is what matters in fire fighting operations. Using know-how, craftsmanship, and industrial production of the highest level, Rosenbauer develops integrated ARFF vehicles that effectively support fire departments in operation. As a specialist with many years of experience with ARFF vehicles, Rosenbauer is well acquainted with

the requirements of airports and their fire departments. The worldwide standards, regulations, and guidelines that have to be taken into account are fully heeded in the design of the vehicles.

With customized vehicle designs that are individually tailored to the customer's wishes, Rosenbauer offers a wide selection of aircraft rescue and fire fighting vehicles (ARFF) for every requirement.



Your partner for innovative fire fighting vehicles.

Rosenbauer is the world's leading technology and service provider for defensive fire fighting and disaster control. For nearly 150 years, the name has been synonymous with significant innovations and ground-breaking technology in the manufacture of all types of fire fighting trucks and extinguishing systems.

Rosenbauer offers integrated solutions and individually supports you through complex projects.

Most of our employees are themselves experienced fire fighters. That's why they know what's important in operation. With Rosenbauer you talk expert to expert, right from the start. This know-how produces customized fire fighting trucks that are just right.



Everything from one source.

Integrated solutions - perfectly matched fire fighting equipment.

Highest safety and quality.

All components in an ARFF vehicle from Rosenbauer come from one source and are perfectly matched with one another. Chassis, body, and fire fighting equipment follow an integrated concept, which is ensured by standardized processes, sophisticated production procedures, and an experienced production team. This guarantees the customer the highest safety and quality. This allows for the same high-performance extinguishing technology to be used in different vehicles. The functional design and the intuitive operation of all series' additionally ensures that the vehicles are easy and quick to handle in operation.



The ARFF vehicles from Rosenbauer impress with

- perfectly coordinated system solutions,
- customized, individual vehicle concepts,
- fully integrated solutions,
- innovative fire fighting systems,
- maximum performance and mobility.

Powerful fire fighting systems.

All fire fighting equipment is developed, manufactured, and optimally integrated into the vehicle body by Rosenbauer. This guarantees a reliable, powerful fire fighting system in every operational situation. The functional design and intuitive operation also ensure more safety and comfort.



Primarily, it is the high quality of the vehicles, the customer-oriented service as well as experience and know-how in development, construction, and production that make Rosenbauer the worldwide leader in fire and disaster control.

The service – extensive, reliable, worldwide.

At Rosenbauer, service starts with the first customer contact. System solutions with comprehensive conceptual advice regarding the optimum design of airport fire protection ensures the best possible final result. Thereafter, Rosenbauer service packages ensure regular controls and safe maintenance of the vehicle.

The company – experienced, innovative, leading.

Rosenbauer is the world's largest fire fighting equipment supplier with vehicles, fire fighting equipment, accessories, and telematic solutions and is a pioneer in the industry with its enormous innovative strength. This guarantees customers know-how, quality, and state-of-the-art technology when purchasing specialty vehicles too.

The products – sophisticated, integrated, high quality.

Aircraft rescue and fire fighting vehicles from Rosenbauer are customized, individual vehicle concepts. All components undergo extensive system and quality tests, the standard requirements are intensively tested. The tried and tested components are then effectively used in all series.



Many years of experience - worldwide know-how.

- Consideration of internationally applicable standards
- All products used comply with important standards worldwide
- Specialized knowledge, experience, and team-oriented work with the customer
- Efficient support for fire department operations

The new PANTHER.

The new dimension of ARFF vehicles.

More power, safety, and comfort.

The PANTHER from Rosenbauer is one of the world's most successful, efficient, and variable ARFF vehicles of all time. Its efficiency and multi-award winning design and powerful performance make it the most modern fire fighting vehicle of today. Rosenbauer has continued to develop the PANTHER 4x4 and 6x6 in order to offer emergency crews even more safety, operating comfort, and performance. The next generation of the PANTHER impresses with new and innovative features with maximum performance, safety, and functionality.

The new PANTHER 6x6.

- 700 hp / 750 hp*
- 0–80 km/h in 30 sec / 28 sec*
- Top speed:
115 km/h / 120 km/h*
- Pump output: up to 9,000 l/min.
- Maximum permissible total weight:
39,000 kg
- Compliance with airport safety requirements such as ICAO, NFPA, FAA
- Exhaust gas standard Euro 5/Euro 6
- Cab certified according to ECE R29-3

*Engine Euro 6



Maximum safety.

Achieving the best possible safety of fire fighting trucks and its occupants is a primary goal of the PANTHER's further development. New features like optimized panoramic view, the crash test proven cab, an innovative lighting design, and support systems such as roll stability control or the anti-collision guard make driving and extinguishing even safer for all participants.

High performance.

All fire fighting equipment in the PANTHER is developed, manufactured, and optimally integrated into the vehicle body by Rosenbauer. This guarantees a reliable and strong extinguishing system in every operational situation. New components that are optimally matched like the pump, proportioning system, and turret significantly increase the fire fighting performance of the new PANTHER.

Lots of usage and operating comfort.

If speed is required during an operation, every move must be just right. The new PANTHER offers more freedom of movement for the driver and team. The newly designed cockpit as well as the innovative control handle allow for the vehicle and extinguishing system to be operated intuitively, whether day or night.

Perfect driving dynamics.

The new PANTHER goes from 0 to 80 km/h in 28 seconds thanks to its sporty concept with a 750 hp engine and 8-speed gearbox. The optimized center of gravity results in impressive driving dynamics and safe driving of the PANTHER in any operational situation.



PANTHER ARFF vehicles.

Fire fighting at the highest level.

■ PANTHER 8x8

The elite.

The PANTHER 8x8 offers a high performance package for ARFF vehicles. The specially developed drive concept shifts the power to where it's needed. At start-up, two 1,400 hp engines accelerate the PANTHER 8x8 from 0 – 80 km/h in no more than 25 seconds and then up to a top speed of 135 km/h. During extinguishing operations, these engines are then used directly to power the centrifugal pump. With extinguishing agent of up to 19,000 liters, a pump output of maximum 10,000 l/min., and equipped with trusted Rosenbauer components such as roof and bumper turrets or a STINGER boom, the PANTHER enables particularly efficient vehicle and extinguishing operations.



The PANTHER 8x8.

- 1,400 hp; 0–80 km/h in 25 sec; top speed: 135 km/h
- 19,000 l extinguishing agent; 500 kg powder; pump output up to 10,000 l/min.
- Maximum permissible total weight: 52,000 kg; dimensions: L 13,095 (11,995) x W 3,000 x H 3,650 mm
- Compliance with the relevant standards such as ICAO, NFPA, ADV, CNMSA
- In use worldwide

PANTHER 6x6 S

The all-rounder.

The PANTHER 6x6 S means high-end fire fighting equipment in conjunction with compact vehicle dimensions. With a width of 2.5 m, it can also be used without problems around the airport. The PANTHER 6x6 S offers tried and tested driving characteristics at all times – on paved roads and off-road.



The PANTHER 6x6 S.

- 700 hp; 0-80 km/h in 27 sec; top speed: 120 km/h
- 9,200 l water; 1,200 l foam; 250 kg powder; pump output up to 6,000 l/min.
- Cab for up to 1+4 persons
- Developed for use at airports as well as around airports

The escape stair is conceived purely as a rescue device. All functions are designed for minimal rescue times.



E5000

Escape stair E8000/E5000.

Safely and quickly in the plane and on the ground.

The rescue unit with a lot of space and little set-up time.

The escape stair is a specially developed operational vehicle for rapid evacuation of aircraft passengers and for safe access of emergency crews such as the fire department, rescue, and emergency medical crews into the aircraft. The step width and depth are chosen so that three people can comfortably dismount side by side. And the steps always remain in a horizontal position, regardless of the angle of inclination of the stairs. The E5000 allows access to over 90% of all aircraft types. Additionally, the E8000 also reaches the upper deck of the A380. In conjunction with the E3000 front platform, small types of aircraft can also be easily served with these escape stairs.

Robustness, speed, and ease of use are the main features of the escape stairs. A particular highlight is the intuitive operating concept of the escape stairs from Rosenbauer: all functions can be controlled by just one person. It is operated from the control panels, which are located in the cab or on each of the rescue platforms. Thanks to high-performance hydraulics, the stairs can be braced in less than 50 seconds and extended to maximum height. This means the escape stairs can be deployed very quickly.

The Rosenbauer special solution for evacuation, rescue, and access.

- Usage range from 1.0 to 8.3 m (E8000/E3000) or 2.5 to 5,5 m (E5000)
- All functions can be operated by one person
- Generous space conditions and horizontal steps regardless of inclination angle of the steps
- Glare-free lighting concept for the evacuation area
- Compliance with standards EN 12312-1, EN 1915-1, EN 1915-2, EN 414. EU Machinery Directive 2006/42/EG, TÜV type testing



E8000

Innovations for airfield use.

Practical concepts for effective operation.

■ Buffalo ARFF vehicle

With the CBS series, Rosenbauer offers a highly flexible platform for ARFF vehicles according to ICAO specifications. Both rapid intervention vehicles (RIV) as well as large airport fire fighting vehicles (ARFF) are available within this series. The modular body of the BUFFALO in conjunction with tested Rosenbauer fire fighting equipment impresses with its individuality, which suits the most diverse of requirements.



For the requirements of airport fire departments.

- Quick in operation, highest extinguishing efficiency, modular body
- Available as rapid intervention vehicles (RIV) as well as medium and large airport fire fighting vehicles (ARFFV)
- Innovative, practical solutions – perfectly integrated
- Compliance with ICAO guidelines

The Rosenbauer CBS modular system allows maximum flexibility and individuality in relation to chassis and body for the most varied of vehicle concepts.

EMEREC DEVS

With EMEREC DEVS, Rosenbauer offers an important operations management tool. The Driver Enhanced Vision System supports the driver as a positioning and navigation system in poor visual conditions, providing high precision and user-friendliness. It consists of three components:



EMEREC DEVS positioning and navigation system.

- Precise navigation in airports and difficult terrain
- Improved view through thermal imaging camera
- Overview of all vehicles
- The system corresponds to the following standards:
 - › NFPA 414/2012 (Standard for Aircraft Rescue and Fire-Fighting Vehicles)
 - › FAA Guideline 150/5210-19A (Guide Specification for ARFF Vehicles)

Navigation

EMEREC DEVS allows for extremely precise navigation of vehicles in areas where conventional navigation systems fail. For example in airports, factories, military bases, or in industrial plants. A precision of 1.5 m is achieved thanks to a highly accurate location system.

Locating

The locating system improves navigation for the driver and the operation control center. GPS signals give the user an overview of the real-time positions of all vehicles on the map. These can communicate with each other via the system.

Better view

A FLIR thermal imaging camera (optional equipment) improves visibility in bad conditions such as in smoke, fog, or darkness. The camera image is displayed on a screen in the vehicle.

Service & support worldwide.

Our performance promise for your safety.

Committed to customer orientation.

Inspection and maintenance services ensure uniformly high quality of all Rosenbauer products. The focus is on flawless functionality, a long service life, and the safety of vehicles and equipment. This is achieved with a solid foundation of customized services that consistently focus on the customer's needs.

Full service, around the clock.

In operations, only 100% will suffice. Every piece of technology and equipment must work flawlessly. Every tool ready for action. And when something does fail, fire fighters want it back in operation as quickly as possible. One call to Rosenbauer is all it takes for a technician to arrive within 24 hours from the nearest Rosenbauer Service Station.



High service quality.

Every fire department has unique requirements. To address this effectively, Rosenbauer structures its services to be modular. Services are adapted optimally to the needs of each fire department. As a result, your fleet of vehicles and equipment is maintained and supported on-time and in the most optimal way possible.

Reliable partner.

You can expect fairness and customer-orientation throughout your dealings with Rosenbauer. Rosenbauer guarantees the availability of original spare parts for many years to come. This provides a solid foundation for high operational safety of all vehicles and equipment.

Highly qualified, practical, personal.

Technicians from Rosenbauer Service & Support are highly qualified experts who are ready to handle inspections, maintenance, repairs, and product training whenever you need them. Many of them are active fire fighters themselves and they know the requirements. This experience and years of collaboration with customers result in personalized communications and a solid foundation of knowledge about your vehicles and equipment.



■ Service Center ■ Service Partner ○ More than 50 service partners

Rosenbauer ensures that you can depend 100% on your vehicle and equipment during operations. To this end, Rosenbauer provides maintenance, after sales service, and refurbishments through a service network comprising its own branches and international service partners in over 100 countries worldwide.



