



# The PANTHER

ARFF vehicles

Faster. Stronger. Safer.

Follow Perfection.

 rosenbauer

# Fascination with

Faster. Stronger. Safer.



# PANTHER.



The PANTHER: the ideal vehicle solution for efficient firefighting and disaster control at airports. Developed and built by people for people who know what matters.



### A partner for innovative fire-fighting vehicles.

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

With vast experience and innovative strength, Rosenbauer offers integrated solutions and individually supports you through complex projects.

Most 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. Rosenbauer uses this knowledge and background to produce customized fire-fighting vehicles that are just right for your fire department. 100% PANTHER.



# Fascination with PANTHER.

## Always cutting edge.

The Rosenbauer PANTHER is one of the most successful, efficient, and variable ARFF vehicles worldwide. Its multi-award-winning design and powerful performance make it the most modern fire fighting vehicle of our time.

### A promise for the future.

Rosenbauer does not rest on its laurels. On the contrary, success encourages us to become even better! To provide emergency crews with the best possible safety, usage and operating comfort as well as extinguishing power, Rosenbauer continues to press forward with the development of the innovative PANTHER series. The entire series (4x4, 6x6, 6x6 S and 8x8) impresses with state-of-the-art features for maximum power, safety, and functionality.



# Everything you need for effective and safe

## Full service and top competence.

### Services from one source.

Rosenbauer's high system performance is based on the innovative PANTHER concept as well as the extensive advice offered for detailed solutions throughout the entire project.

The professional order processing starts with an on-site analysis, which serves as the basis for the requirement profile of the new vehicle. At the same time, the ideal vehicle configuration is determined by your competent partner Rosenbauer. The process is further facilitated by calculating travel times and explaining the concept of the extinguishing vehicle.

The vehicles are also manufactured to the highest standard. Rosenbauer takes advantage of industrial manufacturing methods through special system solutions. The PANTHER must pass many quality tests before it is ready for delivery. Only then is it cleared for use by customers.



# operations.

Your single-source supplier:  
from chassis and vehicle body to  
extinguishing and other equipment!  
Your benefit: integrated, powerful,  
and highly efficient solutions.



### **Powerful extinguishing systems.**

Rosenbauer develops and manufactures all fire fighting equipment and optimally integrates it into the vehicle body. The “single-source supplier principle” guarantees a reliable and powerful extinguishing system in every situation. The high degree of user friendliness, efficiency, and low need for maintenance is impressive.

# The concept of success.

## Extinguishing performance at the highest level.

### The PANTHER offers optimal system integration.

Some brands have history, others are said to have great potential for the future. When it comes to the Rosenbauer PANTHER, both are true. This is demonstrated by its outstanding performance capabilities, extremely safe driving behavior, and multi-award winning design. Behind the successful performance is a concept that manifested over the course of the vehicle development, has stood the test of time to this day in all models, and is expandable.

Rosenbauer's own chassis, the frame of which ensures outstanding torsional stiffness, offers optimum handling in any situation with the single axle suspension. The low center of gravity and the almost uniform axle load distribution achieve superior driving performance. Ergonomic operation integrated in modern design.

Typical PANTHER values like high durability, long service life, and corrosion resistance as well as optimal overall weight are based on the most careful selection of materials. Rosenbauer always uses the most suitable material for every individual element.

The fire fighting equipment is stored in easily accessible, large equipment compartments. Electronic control systems developed by Rosenbauer ensure the highest level of operational safety. And, equipped with a screen to monitor all functions, the driver's cab is a safe and ergonomic workplace for the crew.

The PANTHER concept stands for optimal system integration of chassis, bodywork, and fire fighting equipment. A guarantor for sustainable aftercare of ARFF vehicles!

### Tested for the toughest of operations.

The PANTHER series includes ARFF vehicles on 2-, 3- and 4-axle chassis with permanent all-wheel drive, engine outputs between 500 and 1,450 hp as well as tank capacities of 5,600 to 19,000 liters.

All models have already been tested for usability and durability during development by undergoing the most modern simulation methods and intensive tests.



# Follow Perfectio

The PANTHER series at a glance.



n.



# PANTHER series.

The ideal solution for every operation.

## PANTHER 8x8

**Top tier:** With up to 1,450 hp, a maximum speed of 135 km/h, and up to 19,000 liters of extinguishing medium capacity, the PANTHER 8x8 sets the standard for engine power and extinguishing power. In addition, the 10,000 l/min of pump output and acceleration from 0 to 80 km/h in less than 25 seconds put the model in a class of its own.



## PANTHER 6x6 S

**Off- and on-road:** The 6x6 S is entirely road-friendly thanks to a 2.5 m superstructure, while also featuring the full off-road capabilities of the PANTHER. High performance: Being lighter than its big brother allows the S-model to accelerate even faster. Info at a glance: 700 hp engine, maximum speed of 115 km/h, up to 10,300 liters of extinguishing medium capacity, 7,000 l/min pump output and acceleration from 0 to 80 km/h in less than 28 seconds. Optional: Sliding rear for easy service access!





Perfect: The PANTHER series covers the requirements of modern ARFF vehicles perfectly, thanks to a sophisticated model classification system.

#### PANTHER 6x6

**Benchmark:** The PANTHER 6x6 features an impressive engine power of 750 hp, maximum speed of 120 km/h, up to 14,000 liters of extinguishing medium capacity, 9,000 l/min pump output, and acceleration from 0 to 80 km/h in less than 28 seconds. Extra safety: RCS (Roll Stability Control) optionally available!

#### PANTHER 4x4

**Sprinter:** The PANTHER 4x4 owes its sprint quality to its light weight combined with an engine output of 700 hp. More info at a glance: Maximum speed of 115 km/h, up to 6,950 liters of extinguishing medium capacity, 9,000 l/min pump output and maximum acceleration from 0 to 80 km/h in less than 22 seconds.



# The innovations of the PANTHER model.

For optimal safety, operating comfort and dynamics.

## Innovative features outperform requirements

The company's strength in innovation has made the PANTHER the most successful and well-known ARFF vehicle worldwide. Each PANTHER model is full of innovations that make the vehicle faster, more powerful and safer.

The PANTHER developers have always paid special attention to the highest driving and vehicle safety, maximum usage and operating comfort, as well as optimum driving performance.

The Birdview system, for example, provides a realistic image of the entire vehicle environment. This comprehensive monitoring of the surroundings increases safety in emergencies.

Thanks to its reduced dimensions, the user-optimized control panel enables the best possible view of the outside and, therefore, all operational activities.

With features like these, the PANTHER meets and exceeds the requirements of the current worldwide standards, including EURO 6 and all airport requirements, such as ICAO, NFPA, and FAA.



### High quality technology and production.

The PANTHER pursues its unique visionary vehicle concept in all phases of development. Its innovative features, in particular, make it a state-of-the-art combination of application-oriented functionality and emotive design language.

The production in the world's most modern fire fighting vehicle factory ensures a consistently high and tested quality at the ultimate technological level. The chassis, bodywork, and fire fighting equipment are optimally matched. This is possible because all of these components are developed and manufactured completely within

the Rosenbauer Group, using standardized processes, sophisticated production methods, and an experienced production team.

The industrial principles of Rosenbauer are evidenced by a modern development process with computer-aided 3D construction in conjunction with finite element calculations. Not to mention simulations and a fully integrated DNC production process. All of these technologies are applied to ensure the highest production quality for custom orders.



### Maximum safety.

Achieving the highest possible safety for the vehicle and its occupants is one of the primary objectives in the ongoing development of the PANTHER. Special features like the crash-test-proven cab, an optimized all-round view, roll stability control, and an innovative light design ensure the highest standard of safety for all crew members during travel and extinguishing.

### Highest performance.

Rosenbauer develops and manufactures all fire fighting equipment in the PANTHER and optimally integrates it into the vehicle body. The result is a guaranteed reliable and powerful extinguishing system in any operational situation. Components developed in-house, like the turret, proportioning system, and pump, increase the extinguishing performance of the PANTHER model even more.

### Unique usage and operating comfort.

Professionals know that operations depend on speed and that every step taken must be just right. In an emergency, comfort becomes a safety aspect. The PANTHER offers the emergency driver and team in the cockpit very important freedom of movement. The ergonomically optimized arrangement of the operating elements and the specially designed control handle simplify any operational situation.

### Unyielding driving dynamics.

From 0 to 80 km/h in under 28 seconds\* - thanks to its sporty concept with 750 hp Euro 6 engine, and 8-speed gearbox, the PANTHER is at full throttle in seconds. Its lower center of gravity gives it excellent driving dynamics in every situation - whether on paved roads or challenging off-road terrain.

\*Depending on total weight.



*Integrated additional displays for infrared and color cameras as well as EMEREC DEVS*

*Folding center console*

*Enlarged visual field through size-optimized A-column and control panel*

*User-optimized control panel*

*Illuminated turret operation*



Industry pioneer! As the world's largest fighting equipment supplier, Rosenbauer provides the absolute best in vehicles, fire & safety equipment, and telematic solutions. With tremendous innovative strength, the company maintains a strong lead in technology.



*Optimized service accessibility for cab electronics*

**High-tech standard – for series production and custom solutions.**

The high-tech standard of the new PANTHER is based on many years of experience, creative minds, highly qualified technicians, and industrial fabrication at the highest level. Maximum flexibility in production allows for customized solutions.

# Maxi



# imum safety.

Tested to be absolutely sure.



# Trendsetting components.

Protection, comfort and performance all rolled into one.

## Cutting-edge technology for maximum safety.

The specially developed, FEM-optimized, and crash-tested cab – certified according to ECE R29-3 – guarantees the best possible protection for the crew.

The ultramodern front end design provides the crew with improved all-round visibility and gives the PANTHER a more distinctive look. The lighting design not only sets creative accents, but also contributes to better vehicle safety. The layout of the instruments in the cockpit is based on ergonomics and functional requirements and maximizes the usage and operating comfort of the PANTHER.

The optional tire pressure control warns if the tire pressure is too low, thus allowing the driver to react immediately. Also optional are side airbags for the side crew seats as well as the belt tensioners for the rear and side crew seats. Airbags and belt tensioners ensure even more passive safety during accidents by reducing the risk of injury to passengers from impacts on the outer vehicle wall.



Crew/operation



Birdview screen



Driving through corners at high speed without / with RSC

Absolutely safe: Rosenbauer is testing the driver's cab of an ARFF vehicle according to ECE R29-3 in real crash tests. Your advantage: Optimum occupant protection and maximum safety for the crew.



Cockpit: clear instruments



Light

**Safe and efficient when speed is of the essence.**

Continuous improvements and the innovative features of the PANTHER ensure an optimized view, the highest protection for occupants, and more vehicle safety in borderline situations in terms of driving dynamics.



Crash test

**Optimized safety.**

**Standard solutions:**

- Crash tested driver's cab
- User-optimized control panel

**Optionally available:**

- Birdview (camera-generated real-time view of surroundings)
- RSC (Roll Stability Control) for PANTHER 6x6
- Side airbags and belt tensioner for crew
- Tire pressure monitoring

# First-Class perfo

Optimized to set the standard.



rmance.



# Highest technological level.

Competence as the basis for progress.



## More power when extinguishing.

The top-notch PANTHER fire fighting equipment is based on competence, many years of experience, and continuous further development. Special pumps, proportioning systems, and turrets increase the extinguishing performance of the world's strongest ARFF vehicle.

Ongoing improvements and innovative features boost the output rate, throw range, and the ability to deliver large volumes of extinguishing agents from ground level.



### Competence for the best performance.

The development and production of fire fighting systems and extinguishing components are two of Rosenbauer's core competencies. And the history behind this could not be more impressive: Rosenbauer has developed and manufactured its entire range of fire fighting systems for more than 100 years.

The fire fighting equipment of the PANTHER series forms a completely integrated and powerful system that opens a world of possibilities:

- Pumps with an output of up to 10,000 l/min with suitable automatic foam proportioning systems
- Roof and front turrets for an output quantity of up to 9,000 l/min and a range of up to 100 m
- HRET booms
- CAFS compressed air foam systems as well as
- High and ultra-high pressure systems

Plus the elements of the fire fighting equipment that have been developed further, such as the turret, bumper turret, and pump, make the PANTHER even more powerful.



Unique PANTHER focus: The fire fighting components built into the PANTHER is a fully matched and powerful system developed and manufactured entirely by Rosenbauer with a keen eye on operational needs!

### The system highlights:

- RM 80 turret (perfectly adapted to pump N 80)
- RM 35 turret (optional)
- HVLA bumper turret with RM 35 (optional)
- N 80 centrifugal pump
- FIXMIX 2.0 proportioning system

# Higher usage and

Optimized to set the standard.



operating comfort.



# User-oriented functionality.

## Functionality requires space, overview, and efficiency.

### Easier to operate – quicker to react.

The ergonomically optimized control handle with backlit keys ensures straight-forward and easy operation of the turrets. And with the electrically darkened roof window, enough overhead visibility remains without the risk of glare, simply at the press of a button.\* The folding center console enables quick changing between driver and passenger seat as well as a direct exit on the opposite side. The optimized loading room allows the rear box to be loaded up to the lower edge of the body, and the innovative method of opening ensures quick access.

The extra-long full height locker on the left side provides additional loading space. The optimal illumination of all important areas, such as access, pump compartment, rear box, and the full-height lockers provides high usage comfort.

*\*optionally*



Folding center console



Rear compartment



Storage compartment in the entry area

### Excellent maintenance and service friendliness.

- Optimized maintenance accessibility
- Easier access, especially to components that require more frequent maintenance
- Check the oil level at the press of a button from the driver's cab
- Foldable control panel covers facilitate easy access to the electronics
- The removable floor mats are quick and easy to clean

### Highest level of usage and operating comfort.

The continuously optimized and innovative features of the PANTHER enable a better overhead view in the cockpit and simpler control of the turret. The functional and high-tech driver's cab impresses with its space-optimizing design and additional storage compartments and stowage options.

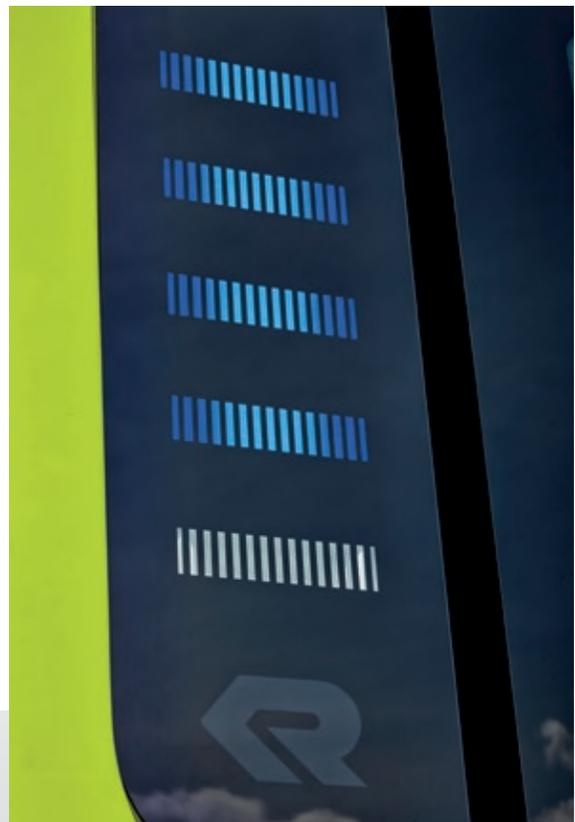


Joysticks

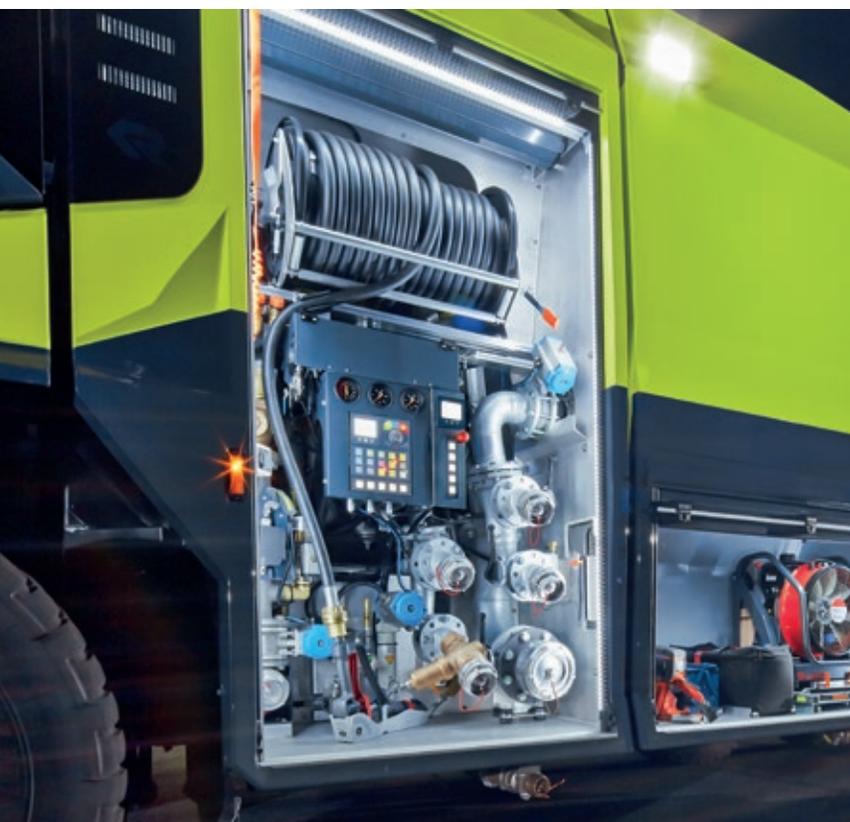
All developments of the PANTHER in the area of usage and operating comfort are aimed at better ergonomics, visibility, and freedom of movement.



Cockpit with roof window



External tank indicator



Pump compartment illumination

**The comfort highlights:**

- Consistent and intuitive, backlit operating system with LCS 2.0 and innovative joysticks or control handles.
- New external tank display that is easier to view from all angles, even in daylight.
- User-optimized, ergonomic control panel, in which the switches are located exactly where they are needed and with which the operating sequence is observed.

# Unparalleled



# driving dynamics.

The aim to match speed with safety.



The new PANTHER is available with two different drive variants: basic with Volvo Euro 5 engine and 6-speed gearbox or performance package with Volvo Euro 6 engine and 8-speed gearbox.



# Strong drive concept.

## Perfect mobility without compromise.

### The features for unparalleled driving dynamics.

The PANTHER impresses with tremendous maneuverability and speed. The low center of gravity of the vehicle and an impressively even longitudinal distribution of the weight on all axles enables optimum driving dynamics. The innovative undercarriage is balanced for the highest possible stability in the high speed range and maximum all-terrain ability. With all these dynamics in play, the optimized cab suspension makes it easy to react in any situation. Notable is also the disk brake system, which can also be used with 16R20 wheels.

### Maximum maneuverability and mobility.

The available performance package with Volvo Euro 6 engine and 750 hp in combination with an 8-speed gearbox ensures optimized acceleration from 0 to 80 km/h in 28 seconds and a top speed of 120 km/h.



# 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.



