



**AT**

**Advanced Technology**

**Municipal vehicles up to 20 tons.**

The ultimate choice.

 **rosenbauer**

# The all-rounder.

Powerful. Safe. Intuitive.





The AT is both uncompromisingly modern and familiar. Its well-known unique features are now emphasized even more, and it combines all the functions that are needed in a modern firefighting vehicle. A true all-rounder: equipped for any operation.





# The AT.

## Developed for maximum performance.

The name is the product. Advanced Technology stands for the most innovative and advanced firefighting and rescue vehicle superstructures in the world. AT means: always up-to-date and familiar at the same time.

The well-known advantages of the AT now have an even greater effect. It combines all the functions and components that make a superior firefighting vehicle. It is multi-talented: safe and comfortable, compact and maneuverable, intuitive and simple, powerful and efficient and last but not least reliable and durable.

### The AT sets standards

Rosenbauer strives for perfection in all its developments. Since the AT is not subject to any lower standards, it has set the benchmark for firefighting and rescue vehicles since its introduction. The mature vehicle concept and the wide range of custom configurations of the AT product line are winning over customers all over the world.

### One name, one promise: Rosenbauer

For over 150 years, Rosenbauer has been a pioneer and a partner for emergency personnel. We are the only company to specialize in providing practical solutions for all decisive moments in fire and disaster protection. From preventative fire protection to vehicles for every scenario, from digital applications to personal and technical equipment. Rosenbauer covers it all with its expertise and experience as a system provider.

For Rosenbauer, perfection means staying on the front foot. For example, we set new standards in fire and disaster protection with technologically advanced innovations. Through intensive discussions with our customers, we find exactly the right solution and are on location when needed. Worldwide. We leave no stone unturned to ensure that you are optimally equipped when it matters.

# The evolutionary AT.

## Familiar, yet modern through and through.

Rosenbauer even took it up a notch for the AT: state-of-the-art LED lighting, the latest operating concepts, and the newest firefighting equipment and telematics. Its well-known advantages have been retained, of course: despite its high performance, the AT is compact, clearly arranged and maneuverable, and combines plenty of space with minimum weight.

Rosenbauer has refined the functional design of the AT.



Scene lighting with high-performance LED strips.

### Proven quality in materials and production

Fire-fighting vehicles are subjected to extreme stresses. And therefore it is all the more important that only the best materials and the most modern connection technologies are used for their construction. Rosenbauer uses high-quality aluminum and modern plastics, thereby making the structures extremely robust and corrosion-resistant. Thanks to self-supporting and space-saving sheet metal construction in combination with sandwich-aluminum parts, it is possible to produce large-scale bodies with a thin, load-bearing shell. This provides maximum space for the crew and equipment.



Height-adjustable RBC LCS 10" display with DIGIPOT in the rear.



Clear and compact payload.



The AT guarantees well thought-out and proven functionality at the highest quality standards.

*Swivel steps and hinged steps - all on one level.*

# The versatile AT.

Equipped for every type of use.



## Always in the best hands

Rosenbauer's experienced customer advisers provide support throughout the entire procurement process: from the initial idea to the configuration, detailed design, the finished vehicle and even beyond.

## Adaptive concept

The body concept of the AT is not only well thought-out, but also adaptive, i.e., it fits a wide variety of chassis. Be it for professional or volunteer fire departments. Whether pumping vehicle or rescue vehicle: the AT always offers the right answer on the right chassis.

## Individual equipment

Depending on the requirements, Rosenbauer brings together the appropriate pump unit (manual to fully automatic), the perfect lighting design and the optimum interior fittings or loading solution as a package. All packaged in an attractive exterior design.



The AT leaves little to be desired in terms of equipment and its chassis.



**The Rosenbauer AT - the all-rounder:**

- Body on different chassis
- Short overhang of just 2,004 mm
- Wheelbases between 3,600 and 4,550 mm
- Excellent weight distribution over and between the axles
- Water tank size between 500 and 5,500 l
- Excellent handling thanks to intelligent construction and low center of gravity
- Optimum load concept

A photograph of a modern building entrance at night. The scene is dominated by dark, horizontal panels on the left and a large glass door on the right. A bright red light source at the top center casts a strong glow on the upper part of the building. A blue light source on the right side of the door frame casts a cool glow. The ground is a dark, textured surface. The overall mood is mysterious and high-tech.

**Visibly different.**



SCANIA

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# The safe AT.

## High-tech for perfect visibility during operation.

Good visibility is a basic requirement for safety during operations. This is why Rosenbauer attaches particular importance to an optimal lighting concept for the AT. LED lighting systems are highly energy-efficient, extremely durable, robust, glare-free, and almost maintenance-free.



When opened, the rear hinged door not only serves as rain protection, but also provides the operator with glare- and shadow-free light.



*Flexilight and traffic guidance system.*

### **Flexible lighting around the vehicle**

The Flexilight brings light directly to the operational site. The newest generation of high-performance LEDs achieves a maximum light yield with minimal power consumption. The floodlights, which can be moved, are installed in the head of the telescopic light mast and can switch between scene and point lighting. The Flexilight can also swivel upwards, to illuminate house facades or balconies, for example.

### **Safety through visibility**

The near and far scene lighting integrated in the roof gallery as well as the rear scene lighting placed in the rear console and LED spotlights placed on the front ensure extensive illumination of the entire operational area. State-of-the-art LED strips are installed on the sides. Not only are they very bright, they are also glare-free and avoid the formation of shadows.

A colored LED strip can be integrated over the entire length of the roof gallery and controlled with the emergency light function.

### **Ground contour lighting for safe footing**

When the parking brake is applied, the ground contour lighting is automatically switched on. This enables the emergency crews to see exactly where to step on in the darkness. If the equipment compartment flap is open, the light stays on and illuminates the steps.

# The comfortable AT.

## Stress reduction in the interior.

When called out to an emergency, the rescue crews often experience very high levels of stress. However, external influences can noticeably improve the situation: Pleasant lighting and good communication facilities help to reduce stress. For this reason, the functional design of the crew cab is very important to Rosenbauer.



### Glare-free crew cab lighting

The LED roof module provides optimum illumination of the crew cab. It is indirect and, therefore, glare-free. In this way the eye is not fatigued and can re-adjust more quickly to dark areas of the scene. The right light intensity also ensures sufficient alertness and comfort.

### Equipment compartment lighting: bright, but no glare

During operations in the dark, the eyes soon become overwhelmed by glaring direct lighting. For this reason, the AT uses sophisticated indirect light integrated into the equipment compartments. This ensures quick and secure handling and good color recognition without glare.

LED strips in the roof gallery, rear flap, and equipment compartments always ensure optimal visibility – in, on, and around the vehicle.



*Scene and equipment compartment lighting as well as floor contour lighting.*

## The intuitive AT.

### Safety is a matter of course.

The operation of a fire-fighting vehicle should not be a mystery - especially when out on a call. Rosenbauer therefore relies on a modern, self-explanatory operating system that is uniform across all vehicles.



The new RBC LCS operating system is not just used in the AT, but in all new Rosenbauer vehicles. This enables operators to seamlessly switch between different emergency vehicles.





10" RBC LCS display: HD resolution, touch function, and automatic color switching adapted to the surrounding conditions.

### Logic Control System: intuitive operation and reliable monitoring

With the RBC LCS, installed devices and integrated systems from pump to generator can be operated intuitively, and operating states can be quickly recorded. All functions are color-coded, the main operating path is highlighted in color and runs from left to right or from top to bottom. This allows each operator to find its way around the control panel immediately. The LCS includes a 10" high-resolution display as well as a smaller 3.5" display, an endless rotary key with pushbutton function (DIGIPOT), and various key panels.



#### Quick start button

When the scene of the emergency is reached, all it takes is a keystroke to automatically enable previously selected systems, e.g., scene lighting, hazard lights, traffic guiding light, or the electric power system.

#### FIRECAN: the standardized interface for electronic systems

Thanks to FIRECAN, all vehicle components can be operated from the displays, and helpful information can be more easily called up during operation. For the emergency crews this means: more operating convenience with a uniform user interface. FIRECAN also provides support for maintenance and servicing and ensures the integration of the various components independent of the firefighting vehicle through plug-and-play. They can thus be used in different vehicles for many years.

Well equipped.





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# The crew cab.

**Safe. Convenient. Practical.**



*Indirect crew cab lighting.*

## **Plenty of space and safety in the interior:**

- SCBA holders can be installed both in as well as against the direction of travel.
- 3-point safety belts on all seats and an optional complete rollover airbag system with belt tighteners for the outermost seats
- 3-point seat belt with optional detachable shoulder belt
- Seating variants range from 1+4 to 1+8, with or without SCBA holders

The demands made on the AT in terms of compactness and integration are also evident in the integrated double cab (IDC): this represents maximum safety, maximum comfort for the emergency crews, and maximum practicability. With the IDC, Rosenbauer can make full use of its expertise, and provide fire departments with an optimally thought-out spatial solution.

## **Integrated double cab: for safety, space, and comfort in operation**

The even, continuous cab floor reduces the risk of stumbling and the continuous roof lining protects heads against impacts. The interior of the crew cab is fitted with high-quality molded plastic parts and a dirt-repellent plastic floor. The latter is also skid-resistant and easy to clean. Illuminated LED handrails on top and handrails near the doors provide additional support when required.



### Clever space utilization

More space for equipment in separate equipment compartments thanks to the crew cab concept. Additional equipment can be stowed away in cleverly integrated storage spaces, such as bench chests. The driver's cab can easily be tipped over, which makes maintenance work easier. Additionally, the compact design improves the driving behavior.

The optional intercom system, integrated in the neck supports, allows stress-free and clear communication, even with open windows and when the acoustic warning device is switched on.

A standard was set with the Rosenbauer swivel steps. These allow the crew to enter and exit the vehicle quickly and safely, even while wearing heavy breathing protection and when the door can only be opened halfway.



# The core part.

## Powerful. Robust. Sophisticated.

Not only can pump technology be regarded as Rosenbauer's core competence, it is also at the heart of every firefighting vehicle.

The rear-mount pump can also be encapsulated. The machinist is protected against noise in the best possible way.





### Equipped for every eventuality: NH25/35/45 combined pumps

The pumps of the NH series combine all the advantages of normal pressure pumps with those of the four-stage high pressure pumps, without requiring a separate drive for the respective high-pressure pump. The counter-rotating arrangement of normal pressure impeller and high pressure impellers also results in optimum axial thrust equalization. Radial impellers make the high pressure pumps impervious to dirt, and in high pressure operation the pump output reaches 400 l/min at 40 bar.

### The constant force: N25/35/45 normal pressure pumps

The single-stage centrifugal pump achieves optimum efficiency thanks to the spiral housing, and it also impresses with a flat pump output characteristic curve. Pressure surges during opening and closing of nozzles are reduced to a minimum. Depending on the power take-off of the chassis, the maximum flow rate is up to 2,500, 3,500 or 4,500 l/min at 10 bar discharge pressure.

### Polyethylene tanks: emission-free and robust

AT vehicles can accommodate water tanks with a capacity of up to 5,500 l. These are made of rotation-sintered polyethylene (PE), which makes them very stable and also suitable for the transport of portable water.

### Central water inlet: easy to operate

Thanks to the AT's central water inlet, all supply hoses can be connected to a central point on the vehicle - regardless of whether they are fed by a source or draw in from a body of water.

Optionally, a free tank inlet can also be implemented, which is required in Germany according to DIN and ensures safe separation of drinking water and non-drinking water in hydrant operation.



# The firefighting systems.

**Automated. Precise. Efficient.**

## Firefighting systems "Made by Rosenbauer"

Rosenbauer offers a very large selection of efficient extinguishing systems, which can be optimally integrated into the AT. The fact that the vehicle is developed hand in hand with the firefighting systems is what makes Rosenbauer stand out from the crowd and guarantees the perfect interaction of the components within the vehicle. This is exactly what ensures maximum extinguishing performance in operation. Moreover, Rosenbauer extinguishing systems stand for incomparable robustness and maximum service life for an extinguishing system that always functions perfectly.

## Perfect operation: everything in view, everything under control

The extinguishing technology is ergonomically and easily actuated via a display or operation panel in the pump compartment. Depending on the requirements, the operating elements can be electronic or mechanical. The gauges are arranged clearly above the operating elements.

Just like the built-in pumps, proportioning systems and turrets are also Rosenbauer's core competencies. They are not only manufactured in Leonding, but also developed there.





### Electronically controlled turrets

Three different electronically controlled turrets are available in the AT. These turrets are CAN-bus controlled and enable, among other things, absolute position recognition and indication on the display, as well as infinitely variable stream patterns.

#### RM 15

The RM 15 turret with a maximum output power of 2,000 l/min at 10 bar is a compact and intuitively operated turret. It can be used both as a front and roof turret.

#### RM 25/35

The RM 25/35 turrets with a maximum output power of 2,500 l/min or 3,500 l/min at 10 bar is intuitive to operate. The forces generated during operation require the turret to be mounted on the crew cab or body roof.

### Manual turret

A manual turret with particularly high output and throw range is also available:

#### RM 24

The manual turret with a maximum output of 3,000 l/min at 10 bar is characterized by simple operation, a maximum throw range of 80 m and easy adjustment of the quantity and stream patterns. The optionally available foam barrel with deflector can be fixed or swivel-mounted.



The RM 24 can also be positioned independently of the vehicle by means of a supporting frame. Optionally it can also be equipped with self-educing foam nozzles with a manual flow rate adjustment (2,400/2,000/1,600 l/min or 1,600/1,200/800 l/min). Connection to the foam tank in the vehicle is possible.



### Foam proportioning systems

The Fixmix 2.0 mechanical around-the-pump foam proportioning system can be integrated into the pump. This automatically adjusts the foam compound quantity to the flow rate. Operation is manual or via the RBC LCS. Three proportioning ratios can be set on the normal pressure side. An electronic control is also available as an option, which displays the flow rates and optimally adjusts the proportioning, even for foam compound with higher viscosity.

With the high-pressure Fixmix, foaming agents can be added purely on the high pressure side. The system works mechanically, is maintenance-free, and completely integrated into the pumps of the NH series. Foam with one proportioning rate on the high pressure side and water on the normal pressure side can be discharged simultaneously.

The electronically-controlled RFC Admix Variomatic direct injection foam proportioning system is characterized by its single- or multi-channel capability. The foam proportioning can be controlled separately for each outlet according to requirements.

With the Compressed Air Foam System (CAFS), water and foam agent are already mixed with compressed air inside the pump. This foam enables great distances. The RFC CAFS from Rosenbauer is particularly compact, and easy as well as safe to use.

# The problem solver.





# The smart details.

## Practical solutions for operations.

Many times it is the little things that make a big difference. Rosenbauer therefore pays particular attention to details that make the hard work in firefighting operations easier.



### **COMFORT: the unique storage system**

The COMFORT storage system is characterized by its safe, simple and ergonomic use. The functions of the device fixings, the device manipulation systems, and the equipment carrier are optimally suited for installation in equipment compartments. The uniform color concept is very easy to grasp: All manipulable elements are marked with the signal color orange - for fast and easy removal of the equipment.

*The COMFORT hygiene wall.*



Thanks to networking, the system status of the AT can be recorded, e.g., by means of a tablet. Alternatively, information from the operations center can be sent directly to the vehicle and displayed there.

### EPS XS: the built-in power generator

With the Electric Power System XS, it is now possible to generate a three-phase alternating current with 400 V and single-phase alternating current with 230 V by means of an integrated generator. The system corresponds to DIN 14687-2:2017-07. The EPS XS is installed directly in the engine compartment and is powered by the vehicle's engine. That means there is no need for a separate drive with fuel tank and exhaust system. The converter and control box are flexibly positioned within the body module. The position of the sockets can also be freely selected according to the load.

### Digital solutions: software for emergency crews

In addition to its well thought-out physical components, the AT also incorporates digitalization and networking. Rosenbauer is the only provider to develop not only state-of-the-art hardware for fire departments, but also the appropriate software solutions. This supports emergency crews in their daily work, starting with the preparation and post-processing of operations, but also with maintenance and checks and, of course, where the benefit is greatest: in operational management. The product palette is, therefore, extremely versatile.

### Ergonomic nozzle removal

The Rosenbauer rapid intervention nozzles are attached with so-called one-finger latch mounts. They can be easily released and removed with the press of a thumb.

### Smart hose magazine

The hoses are stacked on top of each other in the hose magazine. When the first hose is pulled out, the next one slides in automatically for removal. This saves time and space, and simplifies the removal significantly.



*The simple mounting concept from Rosenbauer - only one hand needed.*

# Service & support.

## Our performance promise for your safety.

### Committed to customer orientation

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

### A reliable partner

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



### High service quality

Every fire department has unique requirements. To address this effectively, Rosenbauer structures its services to be modular. Thus, the services for each customer can be optimally tailored to their needs. Within this framework, fleets of vehicles and equipment are maintained and serviced optimally and on time.

### 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 from the nearest Rosenbauer Service Station to arrive within 24 hours.



■ Service Center ■ Service Partner ○ more than 50 Service Partners

Rosenbauer ensures that emergency crews can depend 100% on their vehicles and equipment. To this end, the company provides its customers with maintenance, customer service, and refurbishment through a service network consisting of our own branches and international service partners, with a presence in more than 100 countries around the world.



