



**AT**

Advanced Technology

Municipal vehicles from 10 to 20 tonnes

For the most demanding requirements.

 **rosenbauer**

# AT Advanced Tec

Powerful. Flexible. Innovative.



# hnnology.



The AT combines all the components, that make up a modern fire fighting vehicle: It is compact and maneuverable, safe and comfortable, easy to use and reliable, powerful and efficient as well as robust and durable.





# The AT.

## Perfect for operations.

We strive for perfection with all of our designs. We leverage our many years of tradition and experience, striving for the highest quality. That is why in the AT we have combined everything that makes our fire fighting vehicles unique and powerful, with the addition of a couple of technological innovations. A sophisticated vehicle design with maximum flexibility offering numerous custom configurations.

### The AT sets standards.

Rosenbauer has been making the AT for 20 years. The experience gained from the production of almost 5,000 vehicles is finding its way back into innovations and technical innovations. Whatever has stood the test of time is developed further. And in addition to this, there are always new innovations that provide even more speed and safety in operation.

The AT is also a pioneer when it comes to environmental protection. Because it fulfills the latest EURO 6 exhaust emissions standard and is made from recyclable materials to a large degree.

### Your partner for innovative fire fighting vehicles.

Rosenbauer is the worldwide leading technology and service provider for defensive firefighting and disaster control. For nearly 150 years, this name has been synonymous with significant innovations and ground-breaking technology in the manufacture of all types of fire fighting vehicles 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 municipal vehicles that are just right.

# Compact and maneuverable.

More space. Less weight. More performance.

## Down to the smallest detail.

The AT is designed with the most up-to-date development and simulation methods. The production process was also perfected further.

All components are precisely tested in numerous practical tests. The body concept also sets new standards: Now the AT is more durable, more resistant to corrosion and is really impressive with its high level of precision. High-quality materials guarantee the best possible overall quality.

The systematic optimization of the AT series decisively simplifies the operational activity for fire departments.

The AT is extremely compact and has a clear style. This makes it possible to provide a lot of space at a low weight while remaining maneuverable and powerful at the same time.



*Maneuverable, even in the narrowest alleys*



*Flexible body module for individual solutions*

### **Compact.**

The body module width and height are ideally adapted to the various chassis types. Even in the narrowest old town alleys the vehicle can still move well thanks to the short overhang.



*More storage room for equipment through optimum space utilization*

### **Roomy.**

The body provides more room for equipment within the same space.

- Variable configuration: as per your specific wishes and requirements
- All free space is used: stowage space under the seat benches and above the rotating steps
- Adjustable holders: the fixtures can be quickly and variably shifted if your requirements change

**Integrated crew cab – safest handling characteristics with more space and comfort.**

In the AT, the integrated crew cab has been developed further with numerous safety and ergonomic features. The interior offers the crew even more space. SCBA holders in the crew cab can be installed both in as well as against the direction of travel. 3-point safety belts on all seats and a complete rollover airbag system on request with belt tighteners for the outermost seats in the crew cab provide even more safety for the crew. The safety of the crew is also ensured in the driver's cab. Rosenbauer is certified according to the ECE R29 guideline.

The additional intercom system integrated in the neck supports allows stress-free and clear communication, even with open windows or when the siren is switched on.

There is more space for equipment in separate equipment compartments thanks to the proven crew cab concept. Despite of this the driver's cab can easily be tipped over. So the operator can quickly get to the vehicle engine for maintenance. Additionally, the compact design improves the driving behavior of the vehicle.



**The crew cab – more safety, more comfort**

The indirect LED illumination in the AT ensures glare-free, homogeneous lighting, while the built-in rollover airbags and the 3-point safety belts provide even more safety. The overall ergonomic concept of the crew cabin optimally supports the firefighters in action.





*Safe entry and exit in every situation*

**Patented crew cab exit.**

The Rosenbauer rotating steps 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.

# Intuitive and functional.

Operating with just a few steps **Fast. Efficient.**



*Operating display in driver's cab*

**Inform, operate, control – from the driver's cab.**

The operating display in the driver's cab quickly and comprehensively provides the driver with an overview of the status of the entire vehicle. It informs about tank contents, open equipment compartments, and much more. Also all signal units, lighting system as well as extinguishing systems can be controlled from this unit. It is also possible to connect a reversing camera and a thermal imaging camera.

**Your advantages:**

- Highest operational safety
- Clear, quick operation from driver's cab
- Rapid and permanent self-diagnosis
- Tested quality
- Maximum reliability
- Self-explanatory menu navigation
- Glove operation
- Operating display can be tilted and the contrast is adjustable

**FIRECAN – the standardized interface for electronic systems in the AT.**



The FIRECAN system allows full operation of components such as generators and portable pumps from integrated vehicle displays. The central monitoring device provides better availability of information in operation. For the firefighter this means: more operating comfort with a uniform operating philosophy.

In addition, the information provided by FIRECAN plays an important role for diagnostics, maintenance, and repair. The plug-and-play solution of the system also ensures component-compatibility independent of the fire fighting vehicle. Advantage for the fire department: better use of the components over many years.

**Inform, operate, control – from the rear.**

Virtually all devices such as engine, pumps, traffic control device and light mast can be easily, quickly, and clearly operated via the rear LCD flat screen of the AT. Important information can be called up on the devices at the same time.



*Operating display in rear*

**LCS 2.0 (Logic Control System) – everything at a glance.**

The LCS 2.0 is the "Operator's assistant" with which the operator communicates with the vehicle and the installed devices. It supports the operator optimally in operation.

**Hose magazine – ergonomic and space-saving.**

With the hose magazine, hoses are no longer stored next to each other, but above one another: once the first hose has been pulled out, the next one automatically slides downwards for removal. This saves time, space, and significantly simplifies the removal. In addition, the equipment compartment is then optimally utilized from top to bottom.



*The hoses are stored above one another in the magazine*

### Holder system with colour coding.

The holder system enables the quick and easy removal of equipment. The uniform colour concept also simplifies the work. All operational and graspable devices are marked with the signal colour orange.



*Quick and easy removal of equipment*



*Uniform colour coding*



*Nozzle – unlocked in one step*

### Ergonomic nozzle removal: easy and efficient.

All Rosenbauer rapid intervention nozzles are positioned on so-called one-finger latch mounts. They can be unlocked and removed very easily with both hands and just the press of a thumb.



The safe AT.

# Operations



in a new light.

# The safe AT.

## More light. Better view. More safety.

### Innovative LED lighting concept.

A majority of operations take place at dusk or in darkness. The AT is fitted with a special lighting concept that produces daylight-like lighting conditions, even in the dark. It increases safety and efficiency during the operation. The lighting technology is based on LED technology and provides light where it is needed. Daylight-like conditions are created in conjunction with underfloor, scene, and equipment compartment lighting as well as the light mast. LED does not glare and is extremely energy-efficient. Natural colour perception, less shadowing, and homogeneous illumination of the whole scene facilitates working at night.



Crew cab lighting with LED

### Crew cab – optimally lit.

The LED roof module provides ideal and glare-free interior illumination of the crew cab, without irritating the human eye. This way the eye is not fatigued and can re-adjust more quickly to dark areas of the deployment site. The grab rails are fitted with indirect LED light units as standard.





Halogen and LED lighting in direct comparison. LED is significantly brighter, illuminates more. The enormous lighting power and effect of the special LEDs create operating conditions similar to daylight.



**Equipment compartment – quick access to everything.**

LED strips in the roller shutters, whether across the top or the sides, illuminate the entire width of the compartment better than ever before. So the crew can immediately see where what equipment is: faster deployment, decreased risk of loss. The modern LED technology guarantees optimum safety, visual and colour recognition, and does not produce any glare.

**FLEXILIGHT LED –  
flexible light all round the vehicle.**

The FLEXILIGHT LED is the most flexible way of providing light around the vehicle and directly at the scene with the light mast. The newest generation of high-performance LEDs achieve the highest light yield with minimal power consumption. The floodlights are movable in the light mast head and can be adjusted between scene and spot lighting. With the FLEXILIGHT LED it is also possible to light 180° upwards to illuminate certain points on a house facade such as balconies, for example.

LED lighting systems are highly energy-efficient, extremely durable, robust, glare-free, and virtually maintenance-free.

**Light mast –  
maximum illumination.**

The light mast can be fitted with halogen, xenon, or optionally with eight LED modules. The LED light mast stands for maximum illumination with low power consumption and a long service life.



*FLEXILIGHT LED illuminates everything*



Everything under control at the press of a button

### Scene arrival button.

Just one press of a button is enough to activate numerous and individually selectable functions – for example:

- Hazard flasher system
- Scene lighting
- Pump
- Traffic warning device
- Floodlights
- etc.

Rosenbauer offers you flexible functional packages, which can be adapted to the respective operational requirements.

### Ground contour lighting.

The ground contour lighting switches on when the parking brake is engaged. So the crew can see where they are walking even with dark, damp, or dirty ground conditions. If the equipment compartment flap is open, the light stays on and lights the steps.



Ground contour lighting



The powerful AT.  
**Efficient and**



powerful.

# Superior performance during firefighting.

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## Integrated solutions for more efficiency.

At the heart of every firefighting vehicle is the firefighting equipment. Rosenbauer offers a very wide selection of extremely efficient extinguishing systems.

All firefighting equipment is developed, manufactured, and optimally integrated in your individual body module by Rosenbauer. This ensures an extinguishing system that always functions flawlessly. Best performance with absolute robustness and long service life. So that you can always rely on your extinguishing system.



**EPS – Electric Power System – electrical power at maximum efficiency.**

The innovative and patented EPS is a completely new way of powering all consumers in the vehicle right through to the centrifugal pump. Via a high-performance generator directly on the second PTO, electrical energy is produced at high power – depending on the chassis up to 80 kVA. Direct injection foam proportioning systems, CAFS compressors, and all consumers are then supplied with a 230 V or 400 V electric drive via the converter. In addition, the vehicle can be used as a mobile emergency power supply. The individual components are stored in the body module or in the frame to save space, thus leaving more space for the equipment.



*Space-saving generator installation in the frame*

**Supply – easy to operate High extinguishing performance.**

Thanks to the central feed, the hoses in the AT are only coupled to one central point on the vehicle – regardless of whether the water comes from a hydrant or a stream. In combination with the tank system, up to 4,500 l/min can be fed and processed.



# Truck-mounted pumps.

## Many types. Many solutions.

### Combined normal and high pressure pump – well-equipped for operation.

The AT series is fitted with high-quality Rosenbauer normal and high pressure pumps. Compliance with all standards and safety regulations was very highly valued during the construction and production process.

Above all, the systems impress with their robustness and their operational safety. Their ease of operation is another big advantage: all pumps are controlled via the self-explanatory Rosenbauer LCS 2.0 (Logic Control System). This takes the pressure of the operator.

A further feature is the flexibility of the pumps: They can be adapted specifically to the chassis, the environment, and the operator. The operation is also selectable depending

on the requirements: from manual to fully automatic. The performance range of normal pressure pumps reaches from 750 l/min up to 4,500 l/min in suction mode. The high pressure pumps from Rosenbauer provide up to 400 l/min at 40 bar\*. Radial impellers make the high pressure pumps impervious to dirt.

The flat characteristic curve reduces pressure surges when closing the nozzles. The large range of options of the normal pressure and high pressure pumps from Rosenbauer as well as the best possible integration of foam proportioning systems offers firefighters highly efficient solutions for effective fire fighting on the scene. Rosenbauer truck-mounted pumps are certified according to EN 1028 and NFPA 1901 (UL classified).



User-friendly control

### Normal pressure output\*\*

Pump	Flow	Pressure	Suction lift
N25 / NH25	2,500 l/min	10 bar	3 m
N35 / NH35	3,500 l/min	10 bar	3 m
N45 / NH45	4,500 l/min	10 bar	3 m

### High pressure performance

Pump	Flow	Pressure
NH25/NH35/ NH45	250 l/min	40 bar
NH25/NH35/ NH45	400 l/min	40 bar

\*) Pump outputs always depend on the corresponding PTO.

\*\*) The outputs achieved always depend on the suction hose used.





Easy handling, powerful extinguishing

**Certified according to EN 1028**

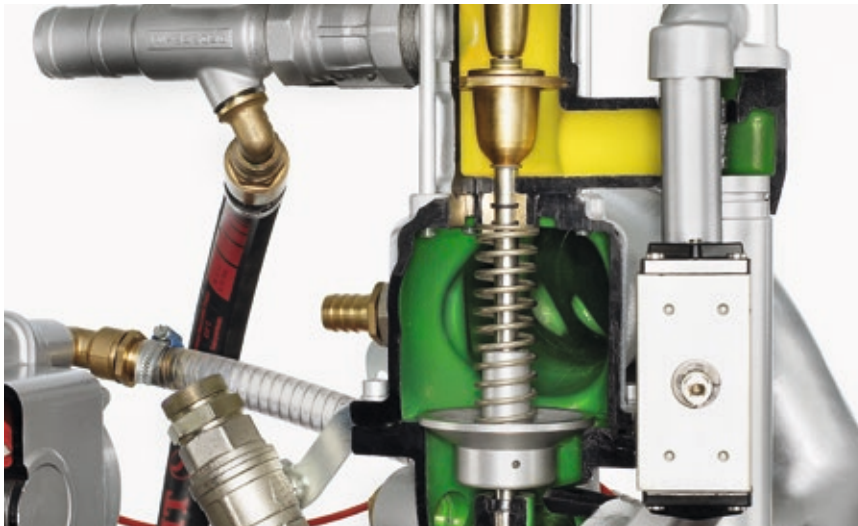
P	Q	N25	NH25	N35	NH35	N45	NH45
FPN 10	- 750	x	x				
FPN 10	- 1000	x	x				
FPN 10	- 1500	x	x				
FPN 10	- 2000	x	x	x	x		
FPN 10	- 3000			x	x		
FPN 10	- 4000					x	x
FPH 40	- 250		x		x		

**UL-classified in accordance with NFPA 1901**

P	Q	N25	NH25	N35	NH35	N45	NH45
UL 150	- 500	x	x				
UL 150	- 750			x	x		
UL 150	- 1250					x	x

# Proportioning systems and turrets.

**Fast. Individual. Maintenance-free.**



FIXMIX

**Around-the-pump foam proportioning system FIXMIX – automatic, space-saving, and maintenance-free.**

The FIXMIX is a mechanically-operated, around-the-pump foam proportioning system that is completely integrated into the pump, available for pumps of the N/NH series (N25, N35, N45, NH25, NH35, NH45). The system works automatically and adjusts to the pump output and pump pressure. It is completely maintenance-free. On the normal pressure side, up to three different fixed pre-set proportioning ratios can be selected.



HP-FIXMIX

**High pressure FIXMIX – foaming at high pressure.**

With the high pressure FIXMIX, foam compound can be mixed purely on the high-pressure side. The system works mechanically, is maintenance-free, and completely integrated into pumps of the NH25, NH35, and NH45 series. A proportioning ratio of 0.5, 1, 3 or 6 % can be selected. This means foam can be discharged on the high pressure side and water simultaneously on the normal pressure side.



DIGIMATIC

**DIGIMATIC – pressure proportioning system for mixing minimal foam compound amounts.**

The DIGIMATIC is an electrically driven, electronically controlled additive direct injection foam proportioning system for the smallest proportioning amounts (from 0.1 l/min), specially developed for wetting agent applications. Even small amounts of foam compound increase the extinguishing effect and protect the environment. The proportioning ratio is continuously adjustable from 0.1 to 6 %. Through the max. proportioning ratio of up to 42 l/min., the system offers a broad range of uses for the most diverse of foam compound applications.



AQUAMATIC

**AQUAMATIC – the water-operated direct injection foam proportioning system.**

The AQUAMATIC is a water-operated double piston pump with Venturi proportioners on the outlets. The proportioning ratio at normal pressure is adjustable from 0.5 to 3 %. The water power is self-regulating, so that the necessary amount of foam compound is always available. The AQUAMATIC 24 delivers up to 24 l/min of foam and can be used for normal pressure as well as for high pressure (proportioning ratios: 1, 3 and 6 %). The maximum foam quantity of the AQUAMATIC 96 that can be used for normal pressure is 96 l/min.

**RM 15 turret – electronic front or roof turret with large throw range.**

The electronically controlled RM 15 with a maximum output of 2,000 l/min at 10 bar\* impresses as a front or roof turret with a throw range of up to 70 m as well as with numerous options. The turret is equipped with an O-stream nozzle with electrical discharge adjustment as standard. Optionally, the turret can be fitted with a foam branch pipe and deflector. The turret is not only suitable for water, but also for foam, CAFS, and powder.

**RM 25 turret – the ideal, high-performance roof turret.**

The electronically controlled RM 25 with a maximum output of 2,500 l/min at 10 bar is the ideal roof turret for the AT: the low build height is perfect for vehicles with a low overall height.

**RM 24 turret – large throw range for comfortable operation.**

The RM 24 is a manual turret with a maximum output of 3,000 l/min at 10 bar. The turret is characterized by comfortable operation, a large throw range of 80 m at 10 bar, easy quantity and stream pattern adjustment, and numerous options. The optionally available foam branch pipe with deflector can be fixed or swivel-mounted. The turret can also be positioned independently of the vehicle by means of a supporting frame.

Optionally, the RM 24 can be equipped with self-priming nozzles, with which the volume is adjustable (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.

*\*depending on installation position*





The high quality AT.

Professional d  
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t technology.

# The high quality AT.

## Developed. Tested. Manufactured. At the highest level.

Fire fighting vehicles are subjected to the highest stresses: heat, dust, sand, water, dirt, and much more. Which makes it that much more important that only the best material is used. For the AT body, only high-quality aluminum and plastic is used, therefore making the structures extremely robust and corrosion-resistant. Thanks to the light and space-saving aluminum sandwich construction, it is possible to produce large body modules from thinner load-carrying shells. This creates the maximum amount of space.

Optimizations were implemented component by component in order to increase the equipment capacity. The first-class finish also played an important role alongside the material. New production methods ensure more consistent quality. For the AT, modern joint and mounting processes were used such as FSW welding, punch riveting, thermal drilling, special screw systems, etc. The entire loading space contains system profiles with special rhomboid nuts for continuously flexible and level loading in all equipment compartments. Brackets can be moved on demand with millimeter accuracy, even after many years.

Further refined details: the full height locker hinges are not arranged directly in the dirty area but rather on the side behind the equipment compartment walls.

That protects the hinges from stresses and dirt from sand, salt, slime and the like.

In order to better protect devices, equipment, and usable spaces from damage and wear, anti-slip, damping surfaces are installed in many areas where devices are stored. The new extruded section flaps with lip and non-slip surface coating are also unbeatably safe, robust and compact.

### 3D CAD for a professional design.

Innovative and customer-oriented solutions are possible through the use of modern 3D CAD technology. In order to minimize the weight in the development phase, state of the art calculation and construction technologies are used.

### Industrial fabrication.

To build more innovative fire fighting vehicles, we work with the latest materials and use state of the art production methods. We ensure high quality by industrial fabrication in our ultra-modern production sites in Austria and Germany. All components – from vehicle body and extinguishing technology right through to the equipment – are developed, constructed, and built by Rosenbauer. The integrated solutions are optimal coordinated for maximum performance and reliability. The robust, all-terrain, light, and space-saving fire fighting vehicle superstructures from Rosenbauer set standards.



State of the art production halls at all locations

The AT was tested under the toughest conditions by our developers. The result: extreme robustness and many years of operational readiness.



**State-of-the-art technology.**

Laser-cut, bent aluminum sheets are processed in clearly defined work processes and then built in self-supporting and torsion-resistant aluminum and ribbed construction into high-strength superstructures, additionally strength-

ened by lightweight materials. The new assembly method with punch riveting and thermal drilling is clean, quick, and has minimal distortion. All these refinements make the AT extremely light and increase the quality and handling of the vehicle.



*Precision and customization*



*Precise construction*

# The flexible AT.

## Individual and customized.

Like all Rosenbauer vehicle series', the AT is customized according to the customer's wishes. It is the result of a wealth of flexible and innovative solutions for a powerful and efficient fire fighting vehicle.

Rosenbauer's concept is simple: you choose the vehicle type and standard vehicle and tell us what requirements you have for your new vehicle and which components are important to you. Then our experienced sales advisors put together a customized fire fighting vehicle with you and support you during the entire manufacturing process and beyond.

The body concept of the AT is so compact and flexible that it fits on many chassis': from light to the heavy class, from compact small vehicles to high-volume vehicles, from tank fire trucks to rescue vehicles – depending on what you currently need. We also put together the suitable pump system (manual to fully automatic), the corresponding exterior design, the optimum crew cab equipment, and the perfect light design as a package for you.



### Overview of chassis/standard vehicles

Austria	MB Atego	MB Axor	MB Actros	MAN TGM	MAN TGS*	SCANIA* P360 CB / P400 CB	VOLVO* FMX
LF	x			x			
LFB	x			x			
TLF 2000	x	x	x	x	x	x	x
TLF 3000	x	x	x	x	x	x	x
TLF 4000	x	x	x	x	x	x	x
TLF 5500		x	x	x	x	x	x
RLF, RLF-T	x	x	x	x	x	x	x

\* Weight and height may deviate from the standard and must thus be tested separately!





Germany	MB Atego	MB Axor	MB Actros	MAN TGM	MAN TGS*	SCANIA* P360 CB / P400 CB	VOLVO* FMX
(H)LF 10	x			x			
(H)LF 20	x	x	x	x	x	x	x
TLF 2000	x	x	x	x	x		
TLF 3000	x	x	x	x	x		
TLF 4000	x	x	x	x	x	x	x
RW	x	x		x			
LF 20 KatS	x			x			

\* Weight and height may deviate from the standard and must thus be tested separately!

# 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, firefighters 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 firefighters 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, customer service, and refurbishments through a service network comprising its own branches and international service partners in over 100 countries worldwide.



