



RT

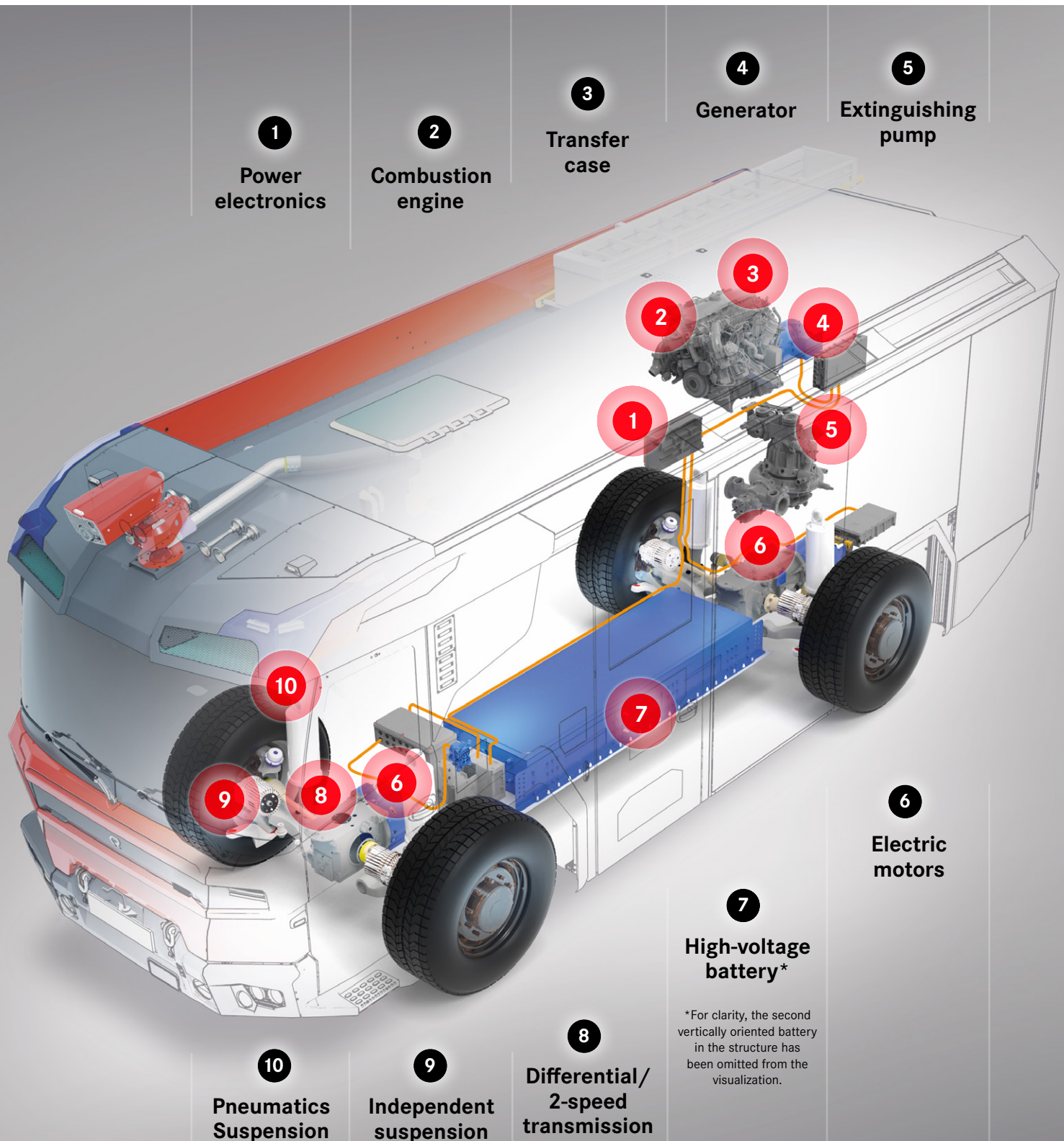
Revolutionary Technology

Municipal firefighting vehicles up to 18 tons.

Ergonomic. Agile. Electric.

 **rosenbauer**

Powerful drive. Uncompromising power.



132 kWh capacity

Purely electric
throughout the working day.

Large battery and energy backup system

A battery with a capacity of 132 kWh supplies power to the drive system, fire extinguishing equipment, and all other consumers. In most cases, this allows multiple consecutive emergency runs to be completed purely electrically and without the need for a recharge. However, the RT can also easily handle extended operations and pumping: The built-in energy backup system switches on automatically when the battery level is low and generates electrical energy via a highly efficient diesel engine.

Always enough power

Two powerful electric motors—each connected to an axle—are responsible for the RT's propulsion. This results in a finely controlled all-wheel drive system that can instantly react to the current driving conditions or different road surfaces. Furthermore, the powerful electric drive, in combination with a 2-speed transmission, ensures unparalleled acceleration. This allows for safe and rapid merging, even in dense city traffic.



Emission-free energy supply

The RT's high-voltage system ensures a high output power: Several external consumers with up to 18 kW power consumption can be supplied with energy via the vehicle, for example, multiple submersible pumps, fans, or tools for technical assistance. This means that there is no engine running at the deployment site that emits exhaust fumes or causes constant noise pollution. This benefits both the emergency crews and the local residents.

Start

100 %



Vehicle check

30 min standby
1 min pumping operation

95 %



Fire alarm false alert

3 km total driving distance
15 min standby

90 %



Traffic accident

5 km driving distance
60 min standby
30 min power supply

75 %



Trash can fire

2 km driving distance
10 min standby
5 min pumping operation

65 %



Vehicle fire

4 km driving distance
60 min standby
20 min pumping operation

40 %



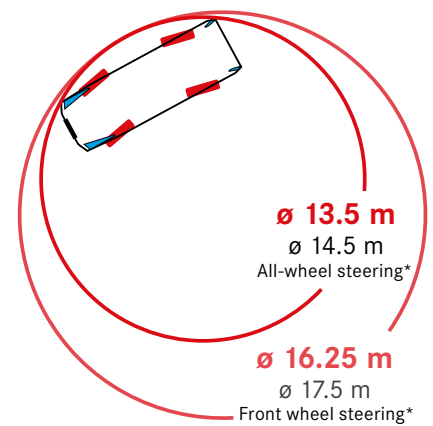
Apartment fire

6 km driving distance
30 min standby
15 min pumping operation

20 %

Percentage figures are calculated values.

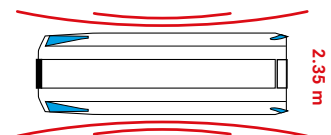
Revolutionary agility. Unmatched driving safety.



**Turning circle diameter +/- 0.5 m –
with a wheelbase of 4,100 or 4,400 mm*

Turning in the tightest of spaces

The wheel suspension developed by Rosenbauer enables a significantly wider steering angle—even with all-wheel drive. This significantly reduces the turning circle compared to conventional vehicles of similar size, and allows reversing in very tight spaces. All-wheel steering dramatically increases maneuverability.



Narrow superstructure

Due to its unique vehicle design, the RT is only 2.35 m wide, despite its spacious interior.

This allows emergency services to reach their destination faster, even through narrow routes and streets lined with parked cars.

Height-adjustable chassis

To facilitate entry and equipment removal, the RT's chassis can be lowered in operation mode. For rough roads or water crossings, the suspension can also be raised to increase underaxle clearance.





Impressive longitudinal dynamics and cornering stability

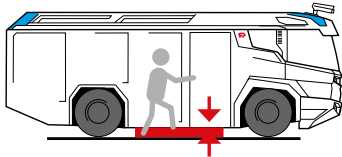
The powerful electric drive is able to continuously accelerate the RT, making it uniquely fast among fire engines. This significantly reduces the travel time to the scene of an operation. But in addition to pure longitudinal dynamics, the design-driven lower center of gravity and more balanced axle load distribution deliver unprecedented cornering stability. This significantly reduces the risk of accidents.



Assistance systems for increased active safety

- Digital exterior mirrors without blind spots
- Reversing camera for good rear view
- Collision warning system or turning assistant to prevent collisions with people and objects in unclear situations
- Bird's-eye view: top-down view for a complete overview
- Tire pressure monitoring

Unrivalled space. Unparalleled ergonomics.



Entry height only 260 mm

Low entry and safe removal

The elimination of the driveshaft and the extremely compact electric drive allow for a downward expansion of the usable space. Combined with the height-adjustable chassis, this makes a noticeable difference in both the crew compartment and the cargo area: Since the floor of the crew compartment is only 260 mm above street level at the scene, the RT can be accessed without steps. And there is no longer a need for hinged steps to remove equipment. This significantly reduces the long-term strain on emergency personnel, especially in professional fire departments.



More equipment space, increased safety

Generously sized storage compartments provide more storage space at a low height. In order to optimize axle load distribution, the water tank and pump unit have been positioned as far forward as possible. This creates a practical and spacious equipment compartment in the rear of the vehicle. The optional ladder lowering device – manual or electric – avoids peak loads and thus prevents injuries.





Cabin structure facilitates communication

The RT's cockpit and crew cab have been completely redesigned: the crew and driver areas are no longer separated. The driver's and commander's seats can be rotated. This simplifies communication, and even allows for a conference seating arrangement for operational briefings. The cabin's high-strength construction also ensures a high degree of passive safety.



Integrated lighting

The integrated high-performance LED strips with their powerful luminosity ensure shadowless illumination of the operating environment and, in many scenarios, even make a lightmast superfluous.

State-of-the-art firefighting equipment. Broad spectrum of application.

Various foam systems

FIXMIX 2.0

In the RT, the foam proportioning system is electronically controllable, can be integrated into the pump, and offers both fixed and continuously adjustable proportioning rates.

High-pressure FIXMIX

This mechanical high-pressure proportioning system is maintenance-free and can be fully integrated into the pumps. It allows foam on the high-pressure side and water on the normal-pressure side simultaneously. One of four mixing ratios is available (0.5%, 1%, 3% or 6%).



RFC Admix Variomatic

This direct injection proportioning system enables independent proportioning at each outlet as well as stepless adjustment of the proportioning rate. The foaming agent is injected directly at the discharge outlet, making the system easier to clean after use.

Compressed air foam system (CAFS)

Compressed air is used to create a firm foam directly at the point of mixture of water and foaming agent, enabling particularly long throw distances.

Remote-controlled turrets

Two turrets are available: The compact RM 15 offers a maximum flow rate of 2,000 l/min at 10 bar and can be mounted at the front or on the cab roof. The RM 35 offers a maximum flow rate of 3,500 l/min at 10 bar and is mounted on the cab roof.



Powerful pumps and centralized supply

The RT is available with standard and high-pressure pumps with flow rates of up to 4,500 l/min. The polypropylene (PP) water tanks have a capacity of up to 3,000 liters. A central water supply allows all supply hoses to be connected at a single point. The reliable separation of potable and non-potable water during hydrant supply operation allows for a tank inlet that complies with DIN standards.



The RT at a glance.

The development of the RT fire engine did not simply involve replacement of the internal combustion engine with an electric motor. Instead, the designers at Rosenbauer developed an entirely new architecture that offers countless advantages and could only be realized thanks to the electric drive. The result: a groundbreaking municipal firefighting vehicle.

Extreme agility

The RT features a powerful electric motor on each axle, ensuring impressive agility. The resulting all-wheel drive can instantly react to current driving conditions and different road surfaces, thus ensuring safe travel in all driving situations. In addition, the consistent high power of the electric drive ensures unparalleled acceleration, both from a standstill and in flowing traffic. This allows for quick and safe merging, even in dense city traffic.

Unmatched driving safety and maneuverability

The flat chassis with motor and transmission between the wheels is the starting point for a very low center of gravity. This means the RT is significantly more stable than conventional fire engines when cornering at high speeds. Furthermore, the electric drive allows for an extreme steering angle, thus enabling quick maneuvering in tight spaces. Thanks to rear axle steering, the turning circle is reduced even further: from 16.25 m to 13.5 m (4.10 m wheelbase) or from 17.5 to 14.5 m (4.40 m wheelbase). The parallel steering of the axles even allows for diagonal driving.

Ample space in compact dimensions

Another advantage is the RT's small width and height. The chassis without a driveshaft allows for downward expansion of the cargo area. No other vehicle with comparable firefighting and transport performance is as compact as the RT. This maximizes maneuverability and, as a result, effectiveness, especially in urban areas. The forward-positioned pump system enables a practical rear compartment, in addition to the familiar storage compartments. The crew cab is also exceptionally spacious. The crew members sit facing each other parallel to the longitudinal axis, enjoy ample headroom and good visibility, and can also communicate directly with the driver and commander.

Unprecedented ergonomics and minimal strain

Thanks to the height-adjustable chassis, the body can be lowered, allowing the crew cab to be entered without stairs. The height of the equipment compartments in the RT is also reduced to an absolute minimum: thanks to a maximum retrieval height of just over 2 m, most items of equipment can be removed comfortably and safely without having to stretch. Heavy equipment generally needs to be lifted less often and does not require hinged steps. Both minimize the risk of injury. Another benefit for the crew's health is the very low noise level. When the vehicle is stationary, there is no engine running while operating on battery power. This means virtually no noise pollution and no vibrations. In turn, this makes communication between people noticeably easier and reduces stress levels. Furthermore, no exhaust fumes are emitted, which also benefits the emergency crews.

Assistance with driving and operation

An electronic mirror system without blind spots and a reversing camera make emergency journeys even safer. A bird's-eye view feature is available as an option, and distance warning sensors that detect obstacles can also be installed. Intuitive touchscreens, conventional switches plus an arrive-at-scene button in the central display are available for operations and monitoring.

Enduring in operation

The RT's 132 kWh battery supplies the drive motors, extinguishing and lighting systems, and also the air conditioning, and acts as a powerful power supply (with a maximum output of 18 kW) for connected consumers such as submersible pumps or tools. Charging takes place either at up to 22 kW (AC) using a wallbox or at up to 150 kW (DC) using a fast charger. Experience shows that, even in high-traffic urban environments, it is usually possible to operate the vehicle in all-electric mode, which means zero local emissions. However, if the situation calls for it, the RT can be used for many hours without needing to stop to recharge, thanks to its built-in Energy Backup System: Every RT is equipped with a state-of-the-art diesel engine that serves as an alternative power source and can generate electricity via a generator. This secondary drive switches on automatically as soon as the battery level drops below a certain threshold.

Would you like to find out more
about the RT product line?
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