



# CT Frame

Compact Technology

Municipal vehicles from 5-14 tons.

Low weight. Powerful.

 **rosenbauer**



**Sometimes  
less is more.**









The name Compact Technology delivers exactly what it says: The CT Frame combines state-of-the-art technologies and compact dimensions to create a powerful and extremely flexible municipal vehicle.







# The CT Frame.

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## A class lighter.

The name says it all: Compact Technology stands for the very compact and at the same time very powerful municipal vehicles from Rosenbauer. Well thought-out and modern technological concepts enable the combination of high performance and small dimensions as well as low weight. The CT family includes the product lines CT Frame, CT Profile, and CT Van.

### **CT Frame: lots of space and low weight**

The challenge for many municipal fire departments is significant: An emergency vehicle should not only transport firefighting systems, but also as much equipment and rescue personnel as possible. Anyway it should not be particularly high, wide, or heavy. The CT Frame from Rosenbauer meets these requirements, because the concept allows it to be built on light chassis. There are even configurations that allow drivers with a C1 driver's license (up to 7.5 tons) to man the steering wheel.

### **Our name is our bond: Rosenbauer**

For over 150 years, Rosenbauer led the way as a pioneer and a partner for emergency services. We are unique in our ability to deliver effective solutions for every single decisive moment in fire and disaster control. From preventative fire safety systems to all types of emergency vehicles, from digital applications to personal and technical equipment. As system provider, Rosenbauer handles all these fields with competence and experience.

For Rosenbauer, perfection means preserving our legacy as a driver of progress. That's why we continue to set new standards with our technological innovations in fire and disaster control. Through in-depth conversations with our clients, we develop exactly the right solutions so that we can be at your side when you need us most. Worldwide. Everything you need to be optimally equipped for that decisive moment.



# The slim one.

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## Saves weight, not payload.

The sandwich construction as well as the load-bearing shell with low material thickness of the CT Frame make it possible to produce a lightweight, space-saving, and yet torsionally rigid large-capacity body. This is achieved with only a few internal longitudinal and transverse walls. By eliminating the classic sub-frame, the CT Frame can be built low and very light. Highest comfort with maximum safety is guaranteed at the same time.







*The sophisticated space concept creates a lot of room for equipment.*

### **Optimized payload**

The unique combination of modern materials, innovative connection technologies, and ingenious superstructures creates a lot of space for the crew and equipment and maximizes the available payload.



# A space-saving wonder.

## Lots of room in small dimensions.

The body of the CT Frame is very low and narrow. In other words: extremely compact. This is made possible, for example, through roller shutters that reach down to the floor, which means that there is no need for climbing aids such as hinged steps. For one goal: maximum use of space.



### Narrow width, low height

The advantages are obvious. When used in urban areas with narrow streets and low clearance heights, in narrow tunnels, or on narrow mountain roads: with a compact vehicle, emergency crews can easily get through.

In addition, the low height means that equipment can be removed safely and conveniently from the floor. The same applies to the crew entering and exiting.

### Stable and extremely maneuverable

The low center of gravity gives the CT Frame impressive driving stability. Thanks to its compact dimensions and optionally very short wheelbases, the vehicle also impresses with excellent maneuverability.

*Access from all sides.  
Its compactness makes it possible.*





The CT Frame is not only light, but also very ergonomic and dynamic to drive due to its low body height. The compact dimensions also ensure excellent maneuverability. Nevertheless, the storage space is huge.

Full-height roller shutters all the way down for convenient removal of equipment.

**Optimum space utilization**

The CT Frame offers large storage spaces and large roller shutters on the sides, which can be optionally operated manually or electrically. Thanks to the well thought-out modular system, a maximum of equipment can be stored clearly arranged and safely in up to four full-height lockers without obstructing body panels or cross braces. The CT Frame also offers customer-friendly flexibility in terms of the interior design as all shelves are continuously adjustable.



# The functional one.

## Intuitive and easy to use.

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.

### Uniform operating concept

The new RBC LCS operating system is not just used in the CT Frame, 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 their 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.



### Central control

The optionally available electric roller shutters on the left, right, and rear can be opened centrally from the driver's cab.

### 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 deployments. 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 therefore be used in different vehicles for many years.



# The all-rounder.

In operation from village to city.



*The body widths range from 2,100 mm to 2,500 mm.*

Thanks to the well thought-out modular system, the CT Frame offers many options for the individual design of the structure, interior fittings, and loading solutions. Every fire department can configure the vehicle the way it suits them.

The CT Frame is available on various chassis and in versions with a total weight of 5-14 tons.

#### **Four different body widths**

Rosenbauer offers the CT Frame in four body widths: from 2,100 mm to 2,220 mm and 2,350 mm up to an impressive 2,500 mm.



*The wheelbases range from 3,300 to 3,900 mm.*



### Variability in the crew cab

With the CT Frame you can choose between a chassis double cab (CDC) or an into the body integrated double cab (IDC) with two different cabin lengths.



*Maximum comfort and safety with the integrated double cab.*

Harmonization on the one hand and high variance on the other - the CT Frame was developed to master this delicate balance.

### Short overhang

In general, the short frame overhang on all CT Frame variants ensures excellent maneuverability. The excellent weight distribution between the axles and the low center of gravity are the main reasons for very good handling, excellent driving stability and safety during dynamic maneuvers.



Come  
what may.









# The crew cab.

## The right variant for all.

The CT Frame also offers a lot when it comes to the crew cab. The superstructure was not only developed for chassis with an original chassis double cab (CDC), the CT Frame can also be used with an integrated double cab (IDC). With the IDC, Rosenbauer can make full use of its expertise and provide fire departments with the most sophisticated space solution.







Simplicity with the original chassis double cab (CDC). Comfort and maximum safety with the integrated double cab (IDC). Rosenbauer offers both options for the CT Frame.

### **CDC: simple and cost-effective**

The chassis double cab offers space for a crew of 1 + 5. In the basic version, the crew cabin has four seats facing the direction of travel. Other variants can also be shown as an option. Some configurations allow the installation of seats with integrated SCBA holders. These make it easy and convenient to put on the SCBA while driving and ensure optimum preparation for the operation.



### **IDC: safety, space, and comfort**

Rosenbauer's into the superstructure integrated double cabs offer the highest level of safety, space, and comfort. The even, continuous cabin floor minimizes the risk of stumbling, the continuous roof lining prevents bumping the head. In addition, the interior is made of high-quality plastic molded parts and a dirt-resistant, easy-to-clean, and skid-resistant plastic floor. Illuminated LED handrails under the inside of the roof and handrails near the doors provide additional support.

The IDC also offers many practical stowage and storage compartments. Equipment can be stored in cleverly integrated storage spaces, such as in seat bench boxes.



### **Pleasant lighting**

Indirect LED lighting ensures glare-free brightness in the integrated double cab of the CT Frame. Ambient lighting, which is available on request, also generates stress-reducing light for night-time emergency journeys. Optional glass inserts in the crew cab door allow even more natural light into the interior during the day.

### **Safe entry and exit**

The safety entrances have a single step, enabling the crew to get in and out very comfortably, even with full protective equipment and self-contained breathing apparatus. This is ensured by the high and wide swivelling doors and the generously dimensioned, non-slip steps.





#### Tested safety

The IDC of the CT Frame complies with the ECE R14 regulation for seat belt anchorages and is built according to the currently valid ECE R29 guidelines for the protection of the occupants.

#### Maximum space, maximum safety

The integrated double cab is available in two length variants and offers ample space for crews from 1+4 to a maximum of 1+8 persons. All seats are equipped with headrests, tested 3-point seat belts, and optionally also detachable shoulder belts. In addition, up to four SCBA holders can be attached against the direction of travel. Their integration into the seat allows the SCBAs to be put on easily and comfortably while driving, thus helping to ensure optimum preparation for the operation.

#### Safe use of roof

The integrated double cab creates a consistently flat surface on the roof. This means that the roof can be accessed without tripping. A rear-mounted ladder with a roof step bar ensures safe ascent. Optimum use of the vehicle roof as a loading area is guaranteed.



# The chassis.

## The right carrier for everyone.

Regardless of whether a TSF-W, MLF or a small (H)LF is required in Germany or a KLF, (K)LF-W or TLF in Austria – Rosenbauer has the right answer on hand with the CT Frame on a suitable chassis.

### Up to 5.5 tons: Mercedes Benz Sprinter

The Mercedes-Benz Sprinter with a maximum total vehicle weight of 5.5 t becomes a reliable, stable and extremely maneuverable all-rounder with the CT Frame lightweight superstructure integrated double cab (IDC). In order to have the right solution for all requirements, the body is available in two different widths: 2,100 mm for the narrowest application situations and 2,220 mm for the largest possible loading volume. The IDC is available in two different lengths for the MB Sprinter and allows for a crew of 1+4 to 1+8 persons. The length of the equipment compartment is adjusted depending on this, in order to be able to use the available payload optimally for loading purposes.

### Up to 7.2 tons: Iveco Daily

The Iveco Daily is an all-terrain vehicle which offers a large loading capacity thanks to its low dead load. It also retains the low removal height in the all-wheel-drive version. Despite the high load volume, the vehicle with the CT Frame body is still very compact and maneuverable and impresses with low dimensions.



#### Mercedes-Benz Sprinter 5.5 t

- 4x2 or 4x4
- Wheelbase: 3,665 mm
- Twin tires (205/75 R 16)
- Body width 2,100 or 2,200 mm
- Integrated double cab in two lengths (crew 1+4 to 1+8 persons)

#### Iveco Daily 7.2 t

- 4x2 or 4x4
- Wheelbase: 3,750 or 3,780 mm
- Twin tires (225/65 R 16)
- Body width 2,200 mm
- Integrated double cab in two lengths (crew 1+4 to 1+8 persons)



**Over 7.5 tons:  
MAN TGL, Mercedes-Benz Atego,  
and Volvo FL**

Thanks to its slim body with short overhangs, the CT Frame retains its high maneuverability even in this weight class. The low body height is also impressive, which offers an enormous advantage especially for low fire stations or clearances.

The CT Frame on MAN TGL can optionally be configured with a chassis double cabin (CDC) or with an integrated double cab (IDC). In addition, the Volvo FL with CDC and the MB Atego with IDC expand the range of variants.



The big one among the little ones: the CT Frame over 7.5 tons on truck chassis.

**CT Frame with integrated double cab**

- in combination with MAN TGL 8.xxx/10.xxx/12.xxx or Mercedes-Benz Atego 8xxF to 13xxF
- 4x2
- Wheelbase: 3,300, 3,600 or 3,900 mm
- Body width 2,350 mm
- Crew up to 1+8 persons

**CT Frame with chassis double cab**

- in combination with MAN TGL 8.xxx/10.xxx/12.xxx or Volvo FL 12t / 14 t
- 4x2
- Wheelbase 3,300 mm and 3,600 mm (MAN) or 3,500 mm and 3,800 mm (Volvo)
- Body width 2,500 mm
- Crew 1+5 persons



# 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 constant force: N25/35 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 the nozzles are reduced to a minimum. Depending on the power take-off of the chassis, the maximum flow rate is 2,500 or 3,500 l/min at 10 bar output pressure.

A weight-optimized N25 pump with a lower output (1,000 l/min at 10 bar pressure) is also available as an option.

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

The pumps of the NH series combine all the advantages of normal pressure pumps with those of the four-stage high pressure pump, 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.

### Extinguishing with greatest efficiency: H5 high pressure pump

The 4-stage H5 as a built-in pump in the rear or under the floor (optional with IVECO Daily) is extremely efficient and resistant to dirt despite its compact dimensions and low weight. With the H5 a fast attack unit can be quickly set up with small firefighting vehicles. Depending on the drive solution, the output is up to 400 l/min at 40 bar.



Central water supply and external side pressure outlets.

### Central water inlet: easy to operate

Thanks to the CT Frame's central water inlet, all supply hoses can be connected to a central point on the vehicle - regardless of whether they are fed by the vehicle or draw 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 pump is the center of every firefighting vehicle. Undisputed, its technology is a core competence of Rosenbauer.



### Polypropylene tanks: emission-free and self-supporting

Water tanks with capacities from 500 to 2,500 liters can be installed in CT Frame vehicles. The tanks are self-supporting, made of polypropylene (PP), and are also suitable for the transport of potable water.



# 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 CT Frame. 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 display elements 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.







*FOX on pull out platform, installed at the rear.*

### Integrated portable fire pump

Rosenbauer uses its proprietary FOX and FOX S for portable pump vehicles with water tanks (TSF-W / KLF-W). The portable fire pump (PFP) is installed at the rear of the CT Frame on a pull out platform or lowering device and optionally connected to the water tank. Thanks to integrated exhaust gas routing, the portable pump can be operated directly in the body and offers almost the same options as a classic built-in pump.

### FOX and FOX S: high performance with low weight

With 1,750 l/min at 10 bar in external suction mode, the FOX offers the highest performance at a weight of only 166 kg. It also impresses with its simple operation via RBC LCS. The smaller version FOX S still offers high performance with 1,050 l/min at 10 bar in external suction mode, but weighs only 150 kg. This device is also operated via the RBC LCS. Optionally, the control panel can also be mounted on the side, or a second panel can be mounted in the vehicle for better handling when standing at an elevated level. A foam proportioning system with proportioning rates of 0.5 % to 6 % can also be integrated in the FOX and FOX S.



### 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.



A photograph of a modern building entrance at night. The scene is dominated by dark, horizontal architectural panels. A bright red light source, possibly a wall sconce, is positioned above the entrance, casting a strong red glow on the wall and creating a dramatic contrast. The entrance itself is a dark, recessed doorway. The floor in the foreground is made of large, dark, textured tiles. The overall mood is mysterious and sophisticated.

**Visibly different.**





FEUERWEHR

MAN

FW2CT-F



# The lighting.

**Bright. Shadeless. Glare-free.**



*High-performance LED strips in the roof gallery.*



*Pneumatically extendable light mast.*

Good visibility is a basic requirement for safety in action. This is why Rosenbauer emphasizes having an optimal lighting concept on its vehicles.

## **Safety through visibility**

The near and far scene lighting integrated in the roof gallery, the rear scene light integrated in the body as well as the 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.

## **Lighting around the vehicle**

With the CT Frame, a pneumatically extendable telescopic mast brings light directly to the point of use. The newest generation of high-performance LEDs achieves maximum light yield with minimal power consumption. The floodlights can be rotated and swiveled, and they are built into the head of the light mast. The whole unit is easy to operate via the display or remote control.





*Glare-free lighting without shadows thanks to LED strips.*

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

### **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 CT Frame uses sophisticated indirect light integrated into the equipment compartments. This ensures quick and secure handling and good color recognition without glare.



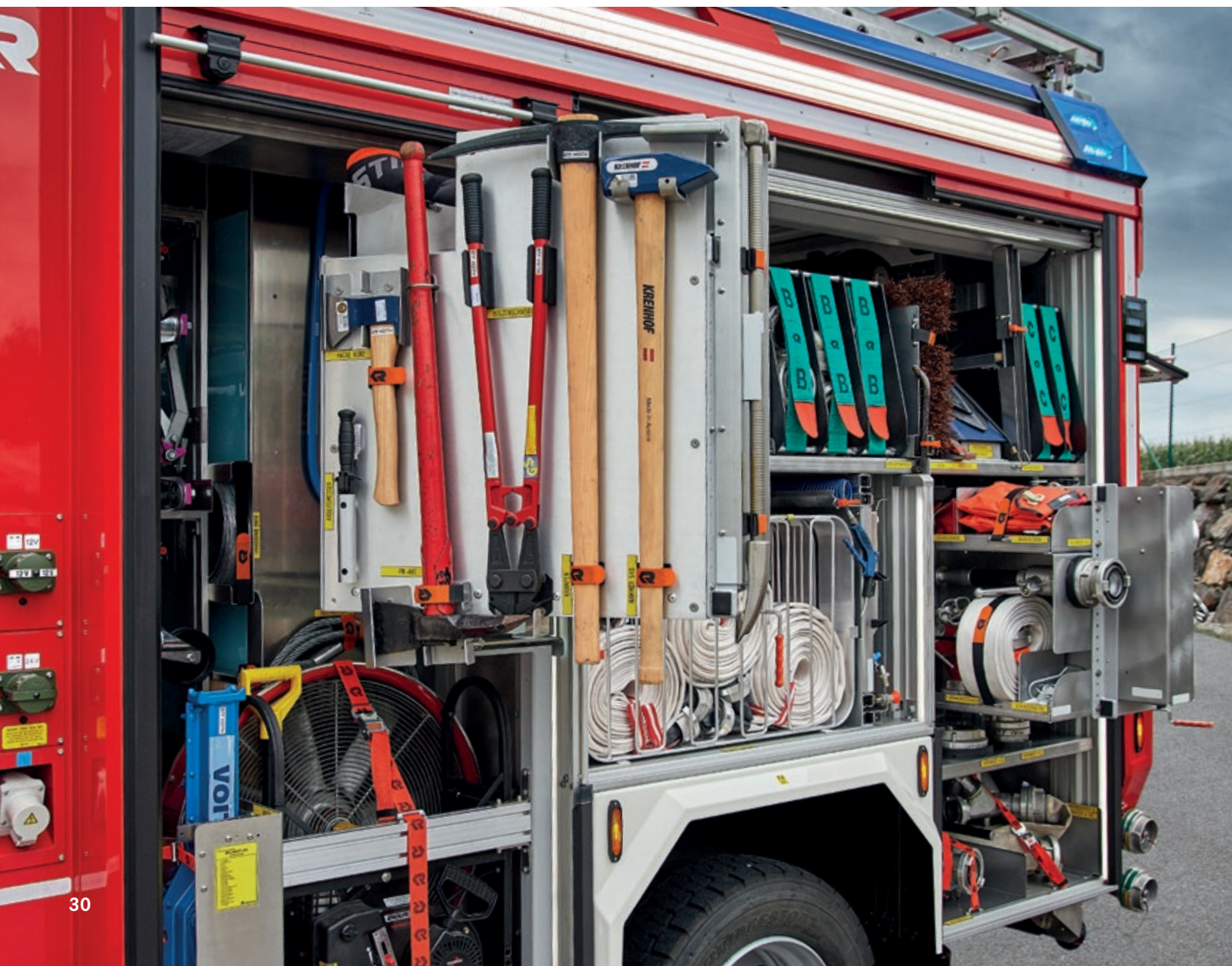
# The smart details.

## 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 stowage system

The COMFORT stowage 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.







*Can be comfortably opened and closed at the press of a button.*

### Electric roller shutters

The optionally available electric roller shutters on the left, right and rear open and close the equipment compartments at the press of a button - from outside or centrally from the driver's cab. This means that the body module can be opened from the cab as soon as the vehicle arrives on scene, thus saving valuable time. If the vehicle is parked with closed roller shutters, the entire body module closes automatically and the equipment is safe from theft.

### Lowering device for heavy equipment

Extremely stable pull-out trays and swing-out shelves for holding equipment weighing up to 250 kg make equipment removal easier with the CT Frame. In operation this means: pull, swivel, remove. Regardless of whether it's a portable pump, generator or other equipment. The COMFORT lowering device simplifies the handling of even higher loads of up to 400 kg. For example, roll-on/roll-off containers can also be placed safely and load-free on the ground.



*Pull, swivel, remove.*

### 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.



The largest of the  
compacts.









# 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.





