



# CBS

Customized body system

Customized fire fighting trucks for municipalities, industry, and airports.

Individual. Multifaceted. Flexible.

 **rosenbauer**

# CBS Customized



# Body System

Individual. Multifaceted. Flexible.



# Maximum individuality.

## Many different versions. Flexible solutions.

With the CBS Customized Body System, Rosenbauer offers fire fighting trucks whose bodies can be individualized for any requirement. The series is characterized by high flexibility and robustness. Based on a professionally developed, modular, and industrially manufactured body in the most up-to-date aluminum design, CBS vehicles are especially designed for the needs of municipal, industrial, and airport fire departments. All of the vehicles have one thing in common: powerful extinguishing systems for all requirements.

All modules of the CBS body concept are fabricated by Rosenbauer and are perfectly matched to one another. Thus, the Customized Body System offers optimum system integration of body and fire fighting equipment from a single source and thus guarantees long-term availability of spare parts.

The CBS series consists of individualized vehicles with tank capacities of 2,500 to 18,000 l, whose body concepts were developed specifically for various 2- to 4-axle standard chassis.

### Your partner for innovative fire fighting vehicles.

Rosenbauer is the worldwide leader in technology and services for defensive fire fighting and disaster control. For nearly 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. 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 is what produces customized fire fighting trucks that are perfectly adapted to your requirements.





# Everything from one source.

Experience. Efficiency. Know-how.

## High production standard.

As the market leader, Rosenbauer is a significant contributor to the technical progress made in the fire fighting industry due to its many innovations. The CBS series, with its modular body, is also at the forefront of the latest production technology. This is where individual vehicle bodies of the successful Rosenbauer CBS series are developed, fabricated, and installed. The products used satisfy all important standards in Europe, America, and Asia.

In addition to engagement and competence, it is also Rosenbauer's close proximity to its customers that make the customized solutions in the CBS fire fighting trucks not only the highest quality but also the best value on the market. Special system solutions allow all advantages of industrial fabrication to be utilized while still being able to produce the CBS vehicles to the individual specifications of the customer.



**Fabrication of customized solutions:** With its modular body concept, the CBS series offers maximum individuality. The body modules are separately fabricated according to the requirements and desires of the customer, including all fire fighting equipment, and then fully assembled. The individual modules then only need to be positioned and attached onto the chassis.





**Powerful extinguishing systems.**

All fire fighting equipment is developed, manufactured, and optimally integrated into the vehicle body by Rosenbauer. This guarantees a reliable and strong extinguishing system in every operational situation. All high-performance extinguishing systems prove their value through high user friendliness and low need for maintenance.



**The CBS series.**

- Flexible adaptation of the modular superstructures to the requirements of the customer
- Compact design
- Highest quality of materials and processing

**Positioning the first module:** In the first step of assembly, the pump box module is positioned on the very rear of the chassis. To accomplish this, a subframe with flexible support for the body components is mounted on the chassis, to which the first module is then anchored.



# Suitable for every requirement.

Modular design concept. Individual fabrication.

## Variety of choices and designs.

A wide array of various equipment options, such as the professional COMFORT stowage concept, simple operating elements with conventional controls, ultra-modern CAN-Bus control systems, and additional extinguishing components and systems make the CBS body concept incredibly flexible.



**Positioning all body modules:** Over the course of fabrication, the additional body components, such as the HRET module, tank module or tool box and foam proportioning system module are integrated into the new vehicle.





### Maximum individuality.

The CBS series provides the highest degree of individuality in the design and manufacture of fire fighting trucks.



### Modular design.

CBS fire fighting truck bodies are modular. Depending on the wishes of the customer, the vehicle can be individualized by combining a variety of components for varying requirements.

**Fixation of the modules:** Once all modules are in position, they are aligned on the frame, bolted together, and installed. All electrical and mechanical interfaces are then connected.



# The highest standard in every detail.

High quality. Innovative. Integrative.

## Combining components.

The high flexibility of the CBS series with its individual body modules is supported even further by the integrated concept that all key elements installed in the vehicle are developed and produced directly by Rosenbauer. Thus, the user can trust that all parts work together optimally and function perfectly when combined. Extinguishing and vehicle technology and communications and safety equipment communicate by way of CAN-Bus and form an integrated overall system. Modern telematic solutions such as the service tool service4fire.com and EMEREC operations management supplement the systems.



## Innovative and practical.

One of Rosenbauer's most significant strengths is its number of employees who themselves have worked in fire departments. Their professional experience in the field carries right over to product developments.

**The HRET module:** The stinger high reach extendable turret (HRET) is a boom developed by Rosenbauer with long reach and an extremely large range of motion. If the customer desires this to be part of the CBS system, it is positioned, fitted, and attached as soon as all modules are bolted down.





**CBS for the requirements of municipal fire departments.**

The CBS series provides the highest degree of individuality in the design and manufacture of fire fighting trucks for municipal use.



**CBS for the requirements of industrial fire departments.**

The CBS series offers the necessary flexibility and a high degree of adaptability to meet the special needs and requirements of industrial fire fighters.



**CBS for the requirements of airport fire departments.**

The Rosenbauer BUFFALO aircraft rescue and fire fighting vehicle from the CBS series satisfies the requirements of airport fire departments with its optimally matched components.

**The result:** Upon completion of Rosenbauer's modern fabrication, the customer will receive his individual CBS series emergency vehicle, specially built to meet his needs and requirements.



# CBS Customized

Individual f



# Body System

re fighting trucks for municipalities, industry, and airports.





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# Individual municipal vehicles.

## Customized solutions for every requirement.

### Highest level of individuality.

The requirements of municipal fire departments are as diverse as their operations. Whether skyscraper fires, traffic accidents involving hazardous waste spills, or tunnel or forest fires – a fire fighting vehicle must be equipped for all eventualities. For this reason, the CBS series offers a high degree of flexibility and is specially tailored to the requirements of urban and rural areas.

The modular body concept ensures a high level of individuality and is suitable for various standard chassis. The CBS is designed with the latest state-of-the-art 3D engineering and finite element calculation methods. The corrosion-resistant body is manufactured from aluminum sheet metal. Laser-cut, bent aluminum sheets are built using a tried and tested, bonded design on a high-strength subframe with flexible support of body components.

- High flexibility
- Compact dimensions and high maneuverability
- Industrial fabrication at the highest quality level
- Reliability and durability



### Innovative design. High operating comfort.

The equipment is stored in a safe and orderly manner in the continuous full height compartments provided for this purpose by the professional COMFORT stowage concept. Simple operating elements with conventional controls to ultra-modern CAN-Bus control systems are represented in this concept. The self-supporting CBS water tank is also suited to transport drinking water.



# Solutions for municipal fire departments.

## Individual. Professional. Powerful.

### Highest extinguishing performance.

The CBS municipal vehicles include tank and large tank extinguishing vehicles on 2-, 3-, and 4-axle chassis with tank contents of 4,000 to 18,000 l.

Rosenbauer fire fighting equipment is at the heart of the CBS municipal vehicle series. The product palette ranges from normal pressure pumps with pump outputs of up to 5,500 l/min as well as combined normal and high pressure pumps, at which up to an additional 400 l/min

can be discharged at 40 bar. Optional pumps with discharge quantities of up to 10,000 l/min are available. Also available are proportioning systems ranging from premixing systems integrated into the pumps and pressure proportioning systems through to compressed air foam systems (CAFS). The roof turret with an output volume of 600 to 15,000 l/min and a throw range of up to 120 m in combination with optionally available CAFS compressed air foam systems, ground sweep nozzles as well as rapid intervention system and much more, perfects this skillfully matched overall concept of vehicle and fire fighting equipment.

### In operation worldwide.

Rosenbauer CBS municipal vehicles are specifically adapted to respective national standards and requirements. They satisfy national and international regulations concerning range of application, operational tactics, compactness, and maneuverability.





**Many different versions. Flexible solutions.**

Rosenbauer CBS municipal vehicles offer

- a twin cab for a crew of up to 1 + 8 persons,
- a broad range of tank contents and extinguishing agents,
- an extinguishing system for every operational purpose,
- ergonomic support and removal systems for a growing number of devices.



With individual and flexible twin cab solutions, CBS municipal vehicles ensure the highest levels of safety and comfort.

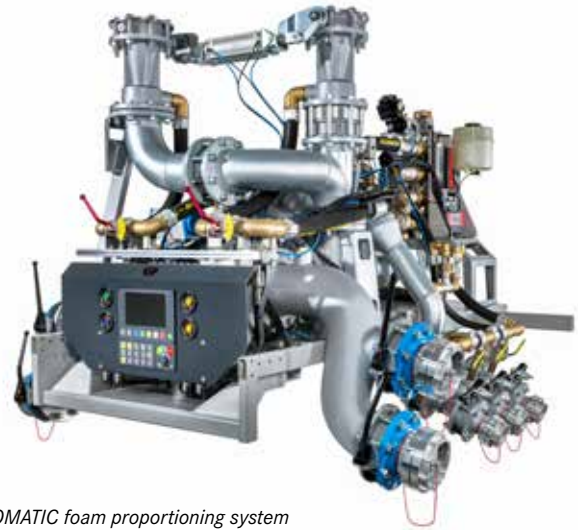
# Individual industrial vehicles.

## Customized right down to the smallest detail.

### Highest level of flexibility.

The requirements of industrial fire departments are incredibly demanding and also very specific. They stand ready, day and night, to protect their respective facilities. To protect people, the environment and property in the challenging environment of the chemicals industry, they need fire fighting trucks built for their special needs and requirements. The CBS series provides industrial fire protection at a high level of flexibility and adaptability.

The universal tank fire fighting vehicles of the tried and tested Rosenbauer CBS series are primarily used for fighting fires in industrial plants. The extremely stable and corrosion-resistant body of this vehicle type is made from laser-cut, bent aluminum sheets in tried and tested bonded design. It guarantees a long service life, even under the most extreme operating conditions. The installed Rosenbauer fire fighting equipment is a particularly powerful system. It provides fire department with extensive product innovations as a reliable partner in difficult operating conditions.



*HYDROMATIC foam proportioning system*

- High flexibility
- Individually adapted, high-performance extinguishing components
- Robust lightweight construction
- Efficiency on scene
- Flexible design of individual modules

### Extensive choices.

Extensive equipment variations are designed in accordance with individual customer requests and requirements. The professional COMFORT storage concept allows for equipment to be removed fast and easily. Simple operating elements with conventional control systems through to ultra-modern CAN-Bus control system are available in the vehicle concept.





# Solutions for industrial fire departments.

## Flexible. Efficient. Powerful.

### Highest extinguishing performance.

CBS industrial vehicles are available as tank, foam, and universal extinguishing vehicle. The extinguishing systems prove their value with pump outputs of up to 10,000 l/min, which in feed-in mode can be increased to up to 14,000 l/min. Individual foam proportioning rates can be set continuously using industrial foam proportioning systems with outputs of up to 700 l/min of foam compound. The systems impress with their user-friendliness and low need for maintenance. Optional roof turrets with an output of up to 15,000 l/min achieve a throw range of up to 120 m. Additional extinguishing components with powder (with a capacity of up to 3,000 kg) or CO<sub>2</sub> contents are also optionally available.

### Flexible design for individual requirements.

Rosenbauer CBS industrial vehicles offer

- highly developed Rosenbauer extinguishing systems,
- flexible design for the individual needs of industrial fire departments,
- special customized solutions,
- pump systems with outputs of up to 14,000 l/min in feed-in mode, industrial proportioning systems, and optional compressed air foam systems (CAFS).

### Advanced usability.

Rosenbauer CBS industrial vehicles are produced in line with modular design principles and thus are comprised of self-contained base and extension modules, which can be combined into complete vehicles in accordance with individual customer requirements. This flexibility means the vehicles are perfect for operating in a variety of industrial conditions.

### CBS tank fire fighting vehicles

The main task of CBS tank fire fighting vehicles consists of ensuring fire protection in large industrial companies. The main feature of this fire fighting vehicle is a large extinguishing water container, which enables initial fire fighting without an external water supply. This vehicle type is available in various sizes.

### CBS foam fire fighting vehicle

The operational range of the CBS foam fire fighting vehicle lies primarily in fighting liquid fires and reducing emissions in the event of leakages.

### CBS universal fire truck

CBS universal fire fighting vehicles are optimally suited as special services fire apparatus for fire fighting and as emergency vehicles in accidents with hazardous materials.







# Individual aircraft rescue and fire fighting vehicles (ARFF vehicles).

**BUFFALO – strong, robust, innovative.**



- High flexibility
- Powerful integrated fire fighting equipment
- Industrial fabrication at the highest quality level
- High acceleration values and top speeds
- Superb handling

## Highest degree of mobility.

The situations that airport fire departments have to deal with range from preventative fire protection through to dramatic rescue operations in the event of a plane crash. Rosenbauer BUFFALO ARFF vehicles of the innovative CBS series provide rapid and efficient support for operations on runways and difficult off-road terrain. Thanks to its powerful engines and its remarkable all-terrain ability, the Rosenbauer BUFFALO is not just the best vehicle for disaster operations on airport runways, but also demonstrates its efficient operational strength on rough terrain. The modular body of the BUFFALO impresses with its individuality, which suits the most diverse of requirements. Rosenbauer's in-house design is based on state-of-the-art methods.



## Can be used anywhere.

With fast acceleration and top speeds designed especially for airports, the BUFFALO meets the requirements of directives and standards all over the world. Therefore, it is especially suited for the challenges of airfield operations.

# Solutions for airport fire departments.

**Fast. Safe. Powerful.**

## Highest extinguishing efficiency.

The CBS series of the BUFFALO includes ARFF vehicles on 2- and 3-axle chassis with permanent all-wheel drive, single tires, and tank capacities of 2,500 to 11,000 l. Additional systems, such as an optionally available dry powder units as well as CO<sub>2</sub> systems, complete this series. The vehicles are divided into small high-performance rapid intervention vehicles (RIV) as well as mid-size to large ARFFVs. Both vehicle types can be designed as Customized Body Systems according to international standards and individual airport requirements.

## Integrated concept.

CBS BUFFALO aircraft rescue and fire fighting vehicles offer

- everything from one source,
- perfectly matched components,
- flexible design,
- fulfillment of all national and international directives as well as the standards of ICAO, FAA, and NFPA.

The fire fighting equipment of the BUFFALO vehicle is developed and manufactured by Rosenbauer. It is a self-contained, high performance system, which is completely integrated into the vehicle concept:

- Rosenbauer fire fighting pump with an output of up to 8,000 l/min at 10 bar and with optional high-pressure output of up to 500 l/min at 40 bar
- Pump drive via power take-off of hydraulic drive or via own pump engine for simultaneous driving and fire fighting
- Fully automatic foam premixing system integrated into the pump for large output volumes on the turrets
- Water/foam roof turrets with or without foam branch pipe
- Turret with ChemCore nozzle (combined water/dry powder nozzle) - in accordance with airport standards
- Ground sweep nozzles on all wheels and on the front of the vehicle
- Rapid intervention hose reels with hose reel
- CAFS compressed air foam systems, dry powder units and CO<sub>2</sub> extinguishing systems are available as options.





**Individual special solutions. High operating comfort.**

The CBS BUFFALO ARFF vehicle is produced to the exact requirements of the respective fire department and its operations. Various cab designs and sizes are also available. Efficient fire fighting is achieved, on one hand, via the pump & roll switch and, on the other hand, via a perfectly ergonomic operation of both turrets (roof and bumper turrets), which makes the handling of the extinguishing system easier many times over.



# 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.



