

## Double premiere

### Rosenbauer presents new aerial ladder with XS technology and a new system for fall protection and aerial rescues



- Expansion of the successful XS series with an aerial ladder with a working height of 27 meters
- Maximum performance thanks to a large operational radius and the latest control technology
- New, easy-to-use equipment for working safely at heights and depths

The L27A-XS 3.0 is the latest product in the successful Rosenbauer XS series and, with its working height of precisely 27.6 m, rounds off the range of articulated aerial ladders produced in Karlsruhe. The abbreviation XS (meaning "extra small") refers to the special construction of these aerial ladders with a tiltable cage boom and an inwardly offset swivel joint, which means that they can be used to their full extent even in very tight spaces. In addition, the third-generation XS technology offers maximum performance, safety, and connectivity.

#### Unrivaled operational radius

The large operational radius is one of the many advantages of the L27A-XS. It can be placed up to 5.90 m from the structure and still offer full performance with maximum payload (five people in the cage). As a result, set-up mistakes at low rescue heights or horizontal escapes can be more easily compensated for, and the smaller distance can also be used tactically to ensure successful operations in tight spaces. In addition, the L27A-XS can handle wide building facades with its horizontal reach. This makes it easier to set up and position, because it does not have to be moved or repositioned if several locations at different elevations need to be reached.

#### State-of-the-art control technology

As with all Rosenbauer aerial ladders in the XS series, the new L27A-XS is equipped with a third-generation control system. This provides around ten times more computing power than its predecessor, and meets both safety integrity level SIL 2, category 3, performance level D according to IEC 61508 (functional safety of electrical/electronic/programmable electronic safety-related

systems) and machine directive EN 13849. The new control with up to five CAN buses also offers sufficient connectivity to equip XS ladders with the latest floodlight and camera systems, auxiliary assistance systems and extensive automatic functions.

### **Vehicle with a compact bogie**

The L27A-XS is built on a 2-axle chassis from Mercedes Benz (Atego 1527 F) with a total permissible weight of 15 tons. The ladder set consists of a five-part main boom with a tilting cage boom (4.35 m), featuring a horizontal-vertical outrigger with a width of up to 4.80 m for a solid footing. Its basic firefighting equipment consists of a permanently mounted aluminum tube in the upper ladder section, a water supply integrated into the cage structure, water curtain jet nozzles in the cage floor, and two monitors, which are stored in the equipment rooms and, when required, can be fitted to the cage water supply.

The first vehicle will be delivered to the La Rochelle fire department in France, complete with a compact bogie. Even when rotated 360°, the bogie does not protrude beyond the width of the vehicle's footprint, meaning that the turntable ladder can be positioned very close to a building or other obstacle. The L27A-XS 3.0 thus combines a multitude of functionalities and operational advantages in a single device.

### **New system for securing and rescuing**

Together with the L27A-XS, Rosenbauer is presenting a new system for fall protection and aerial rescues. All components come from a single source and are optimally matched. The system consists of up to 18 attachment points, in accordance with EN 795, which are attached to the cage and its underside, the top of the ladder, the articulation of the ladder set, and to the pivot mounting. The eyelets on the ladder set and the pivot mounting can also be retrofitted to older vehicles. The system also includes a personal fall prevention device, in which the safety belt retractor is located on the person themselves, as opposed to the anchorage point, as is commonly the case. The advantage of this is that the harness is not pulled over edges, but instead hovers just above even during movement, as the belt retracts and unwinds directly on the person. This ensures that emergency crews are optimally secured when working outside the cage, for example when stepping onto a balcony to help an injured person into the cage, or when they need to work along roof edges.

In addition, a complete modular package is available for rescue operations at heights, the individual components of which can be combined according to requirements. This includes, among other things, a manual cable winch (winch module) and a block and tackle block (pulley module) for support when rappelling up and down, a backup module to act as a backup for the block and tackle, the bridle module, consisting of a rescue triangle, and lanyards to carry a basket stretcher and for securing persons inside it, as well as a static line module (two bundled steel ropes with fixed lengths and carabiners), for when a person does not need to be rescued by rappelling, but rather by moving the ladder set or the telescopic boom. The rope system (main rope and backup with rope brake) can, of course, also be used as a fall protection system, for example if emergency services on a roof have to move more than two meters away from the rescue cage. In addition, the system is designed in such a way that it can be used and applied in the correct manner both instantly and intuitively by any crew member who has received "Basic rescue from heights and depths" training.

To the new aerial ladder L27A-XS

---

## **The Rosenbauer Group**

Rosenbauer is an international group and a reliable partner to fire departments all over the world. The company develops and produces vehicles, fire extinguishing systems, equipment and telematics solutions for professional, industrial, plant and volunteer fire services and systems for preventive firefighting. Rosenbauer is represented by its sales and service network in more than 100 countries. With revenues of around € 870 million and more than 3,000 employees, the Group is the largest provider of firefighting equipment in the world.

**For further information, please contact:**

---

Rosenbauer International AG  
Tiemon Kiesenhofer,  
Head of Communications, Company Spokesperson  
Paschinger Strasse 90  
4060 Leonding, Austria  
Tel.: +43 732 67 94-568  
Fax: +43 732 67 94-94568  
E-Mail: [press@rosenbauer.com](mailto:press@rosenbauer.com)  
[www.rosenbauer.com](http://www.rosenbauer.com)