



## TLF 4000

### Our Tankers

Maximum firefighting power on MAN and Mercedes-Benz chassis



We provide security.

[www.ziegler.de](http://www.ziegler.de)



# We are ZIEGLER

As a future-oriented group, the ZIEGLER Group focuses on long-term business based on performance, reliability and sustainability.

A firefighting vehicle is an investment in the future. To ensure that this investment pays off for our customers, we guarantee the highest level of quality and innovation. That means: perfect craftsmanship, outstanding stability, optimal corrosion protection and flexibility for individual customer requirements.

This is complemented by our extensive range of firefighting equipment and components, which also meet the highest quality standards.



**We provide security.**

Our brand promise makes clear what ZIEGLER stands for: We see the protection of public security as our ultimate objective. In order to accomplish this task, it is our motivation and our approach to offer the best and most competitive portfolio of firefighting and emergency management solutions. We assume responsibility with respect to customer requirements and their satisfaction.

# TLF 4000

## Tankers

State-of-the-art firefighting technology for maximum efficiency in emergency situations



Built on **MAN and Mercedes-Benz chassis**

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Neatly arranged **cargo**

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Maximum quantities of **extinguishing agents**

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Innovative **ZIEGLER Features** offer numerous configuration options

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**Fully accessible roof surface** for additional roof boxes or ladder storage

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Configurable **bumper and roof turrets** for water and foam

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A more intuitive and ergonomically optimized **pump control panel**

## Maximum fire-fighting capacity

Our TLF 4000 impresses with its high firefighting agent capacity and state-of-the-art ZIEGLER pump and proportioning technology.

The intelligent ALPAS superstructure, adaptable to the chassis, combined with flexible equipment options, makes the vehicle suitable for a wide range of applications – from urban and industrial environments to remote and rough terrain.

Equipped with proven and innovative ZIEGLER Features

### **ALPAS**

Aluminum Panel System

### **Z-Control**

Operating concept

### **Z-Connect**

Management platform

### **Z-Vision**

Ambient lighting

### **Z-Rack**

Cockpit mounting application

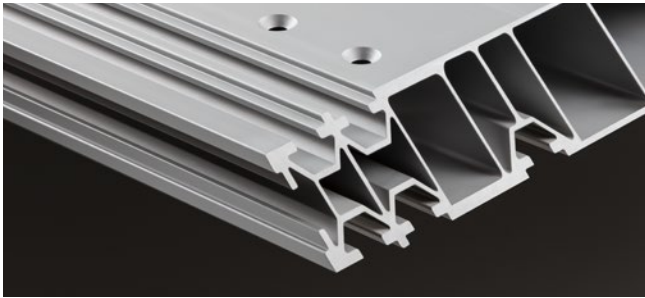
# ALPAS

## Aluminum Panel System

The latest generation of the proven ZIEGLER superstructure system



Scan to discover ALPAS



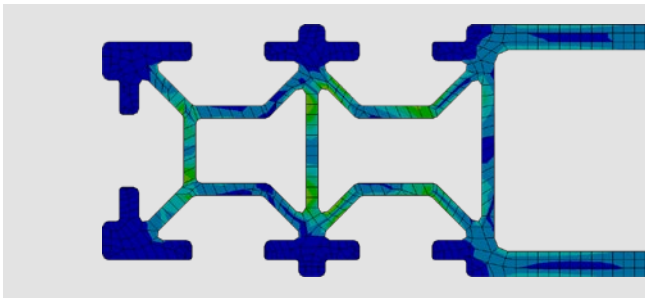
### Assembly without drilling

Channels on both sides, called load paths, allow stepless mounting inside and outside the superstructure without drilling. A conversion by the customer is possible at any time.



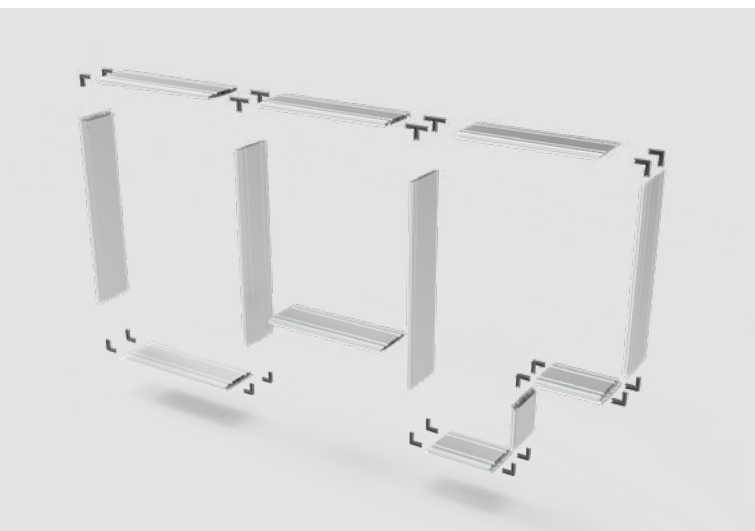
### Durable

After the panels are cut to size and drilled, they receive an extra strong 20 µm anodizing treatment. This provides sealed cutting edges and long-lasting protection against scratches and corrosion. Even after a long time, aluminum is recyclable and therefore sustainable.



### As stable as the everyday work demands

Many years of design experience, computer calculations and measurements under real conditions ensure excellent stability.



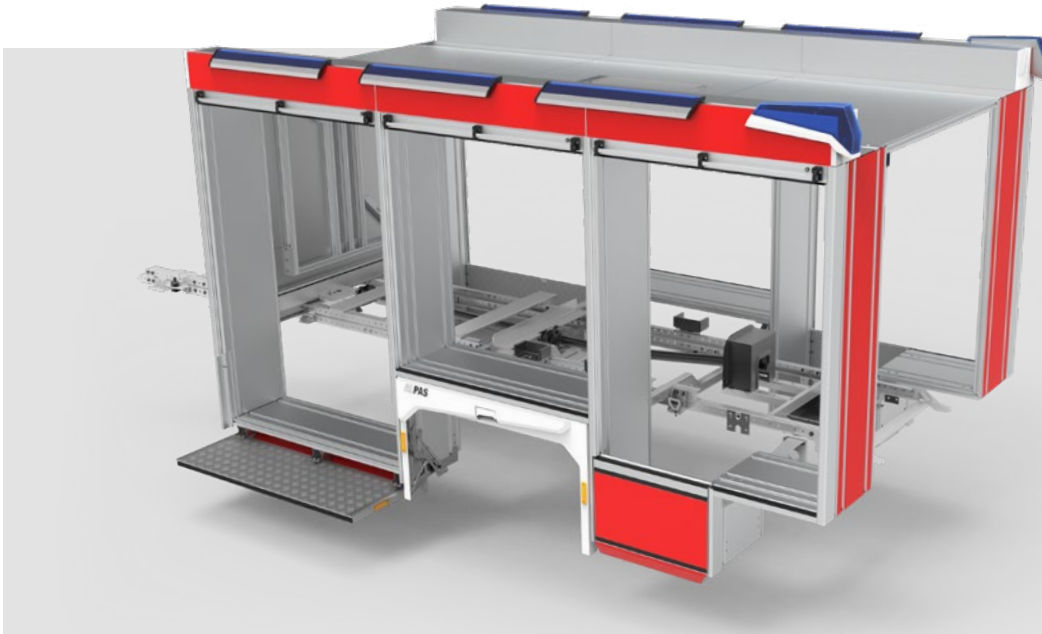
### ALPAS segments provide modularity

Increased stability due to self-contained segments. Modular superstructure consisting of front, axle and rear segments.

# Superstructure

## From panel to structure

Well thought-out construction  
creates space advantages



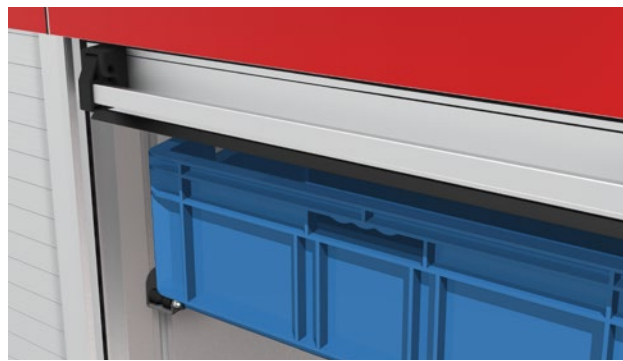
Internal extinguishing agent tanks for up to 6,000 liters of water offer **optimum weight distribution** and the best possible driving behavior. The space for **additional equipment** in the side compartments is therefore maximized, also thanks to the protected arrangement of the roller shutters on the roof.

High **load capacity** and arranged low – the tailboard flaps ensure an ergonomic load removal and are all at the same height. Stable and safe against slipping and stumbling.



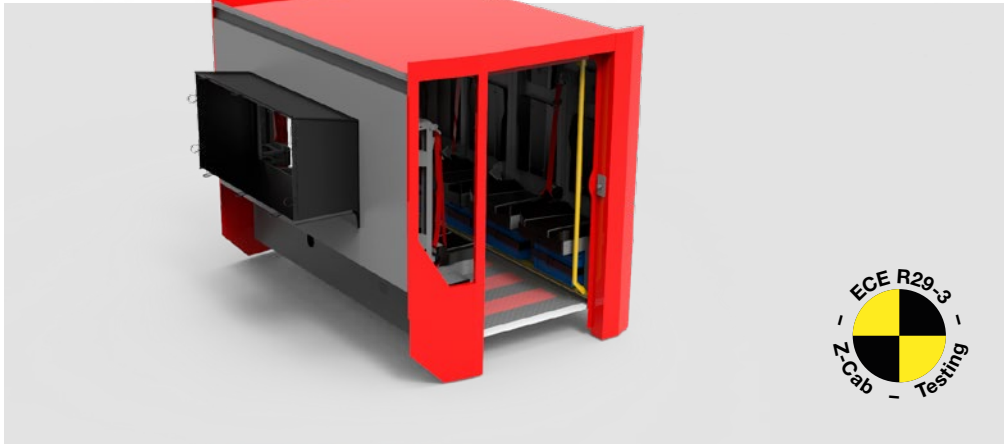
### Interior installation without obstacles

Direct access to the load paths under the roof. Thanks to the roller shutter installation on the roof, the load paths in the compartment are accessible from all sides.



### Integrated functions

Integrated roller shutter trays and lighting save material in interior installation. Better overview and accessibility for loading with glare-free, cold-white LED light for high-contrast illumination.



**Crash tested superstructure**

Crew protection is our main focus. Accordingly, the Z-Cab is developed and built according to the latest insights and state-of-the-art methods. At no time during the ECE R29-3 crash test the crew was at risk through deformation – survival space is guaranteed at all times. This test also confirmed the calculated rigidity of the cabin in the physical test and exceeded the requirements of ECE regulations.

**Z-Protect** 

ZIEGLER crew protection

With two systems, Z-Protect ensures maximum protection for the crew. An airbag system with one airbag in the head area of each of the outer seats with tested and certified ZIEGLER airbags protects against serious head injuries in an emergency. In addition, a seat belt tensing system intervenes when necessary and secures the crew by pulling them firmly onto their seats.



**Z-Cab** 

Safety as standard

Thanks to a wide range of configuration options, our TLF 4000 models can be optionally equipped with the proven Z-Cab crew cabin. It offers excellent maneuverability and a spacious interior, ensuring rapid deployment on site.



Scan to discover the Z-Cab





### Ergonomics

The three-step entry ensures a particularly effortless entry and exit.



### Flexibility

If the firefighters' needs change, action tower cabinets and individual seats can be exchanged against each other – even years later.



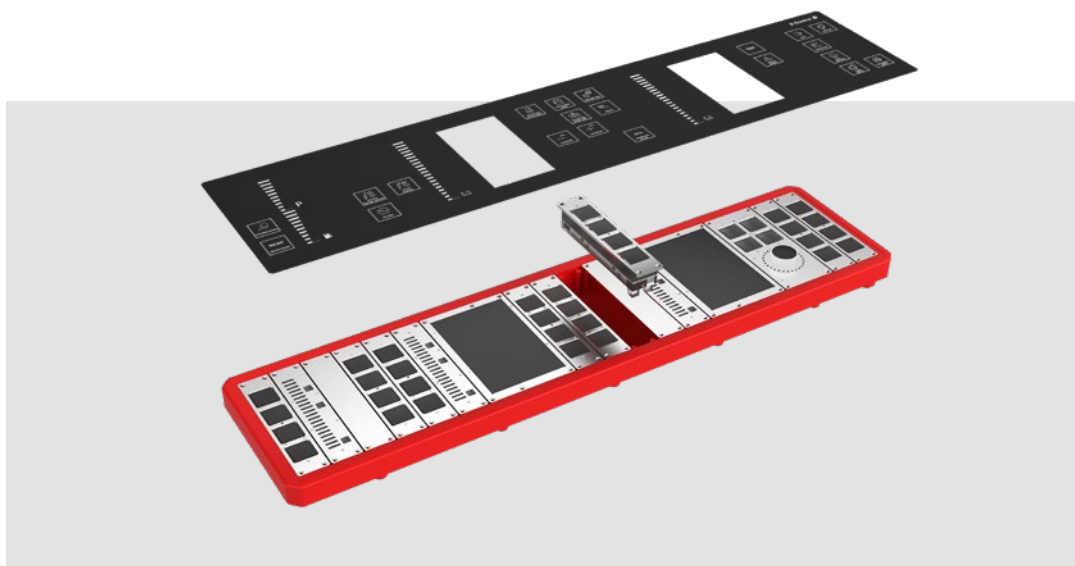
### Functionality

Each seat can be customized with drawers, flap chutes or customary plastic boxes.

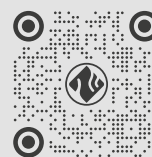
# Z-Control

## Operating concept

One system for all needs



Scan to discover  
Z-Control



### Flexibility through modularity

Due to the modular user interface, a maximum of flexibility is given. Single modules are used in the control panel of the pump control unit, in the cockpit control panels and in manual control units.



### Z-Control manual control units

From the 360° rotation of the light mast and the tilt of the LED spotlights to the pneumatically lowerable ladder frames and the control of turrets – thanks to long spiral cables, the operator can keep an eye on every movement with the manual control unit. Pressures and fill levels can also be read.



### Swivel-mounted control panel

Easy accessibility of the components for inspections and emergency operation is ensured by a swivel-mounted installation.



### Intuitive and modern operation

At the push of a button, the extinguishing functions necessary to extinguish a fire are executed. Thanks to Z-Control, the machine operator has an overview of the work processes, the operating status, the water and foam flow rate and the proportioning rate at all times. Large buttons ensure safe and easy operation even when wearing gloves.



### User-friendly pump control unit

The clear structure characterizes the ZIEGLER pump control unit. The operator has all functions in view and is supported by a user-guided operating sequence. The assisting system only shows activatable functions on the Z-Control user interface.



### Ergonomics and clarity in the cockpit

The machine operator and crew leader can easily overview and control all important functions via two separately arranged control panels.

# Z-Control Hub

## All-round connectivity

All apps, data and services  
in one place



Scan to  
discover  
Z-Connect



**Z-Control Hub** serves as the central gateway to ZIEGLER's digital world. As an intuitive platform, it brings together applications, data and services, making it easy and efficient to take advantage of digital connectivity.

## Z-Connect

Management platform

**Z-Connect** provides digital vehicle and fleet management and lays the foundation for modern fire department and incident management. Vehicles, equipment and personnel are interconnected via a powerful data platform. This provides a transparent, real-time overview of resources, vehicle status and incident information. The processed data helps incident commanders assess situations more quickly and make informed decisions. A growing portfolio of digital applications continuously expands the platform – from the visualization of operational and vehicle data to digital situational awareness and analysis functions. This creates a networked system that simplifies processes and connected operations more efficiently.

## Z-Remote

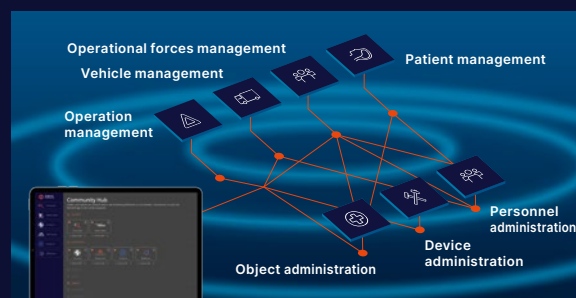
Remote service

**Z-Remote** is the remote access and service feature of our digital solutions. Authorized technicians gain secure remote access to vehicle systems to perform diagnostics, analysis and software updates remotely. Faults can be detected more quickly and support processes can be expedited. This reduces downtime and ensures that emergency vehicles are reliably maintained and kept ready for service.



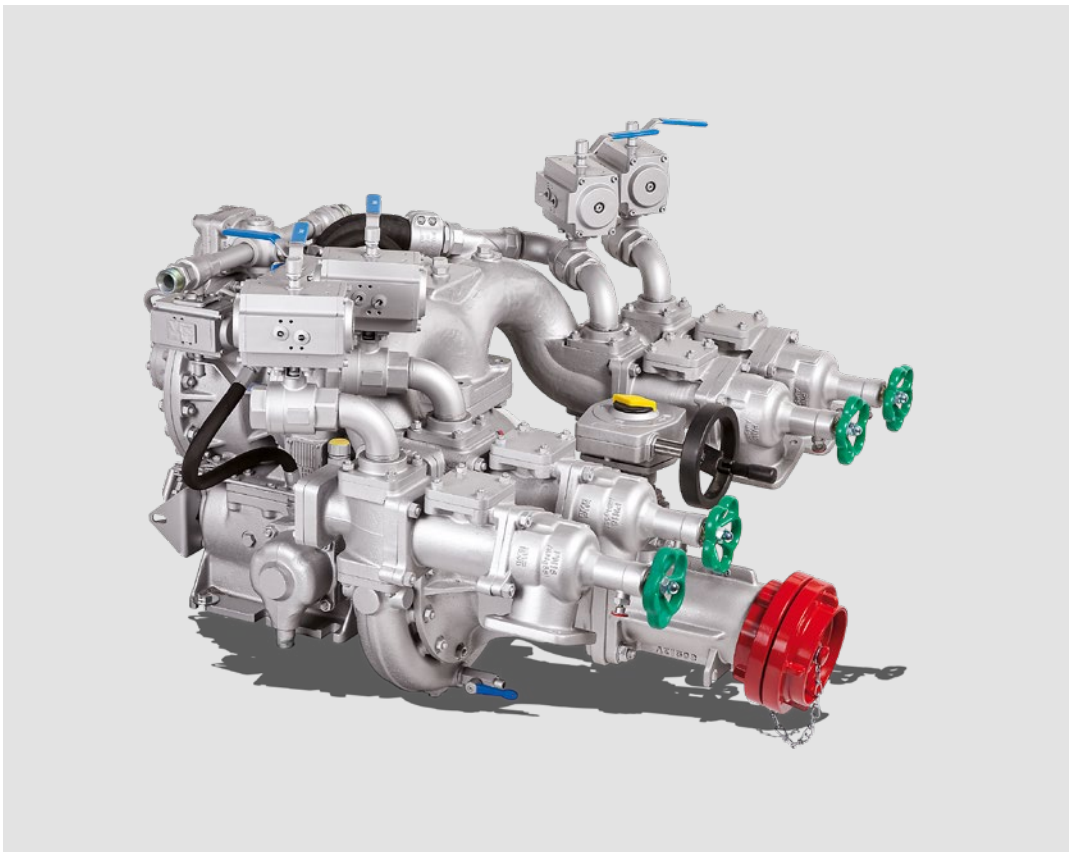
**IMBOS** is establishing a Europe-wide data and information exchange between fire departments, emergency services and civil protection agencies. The neutral platform integrates data in real time and supports situational assessment, incident command and post-incident analysis. This sets new standards for security, availability, administration and data protection within government agencies and organizations responsible for public safety.

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# Extinguishing technology

## ZIEGLER pump technology



Scan to discover ZIEGLER pumps

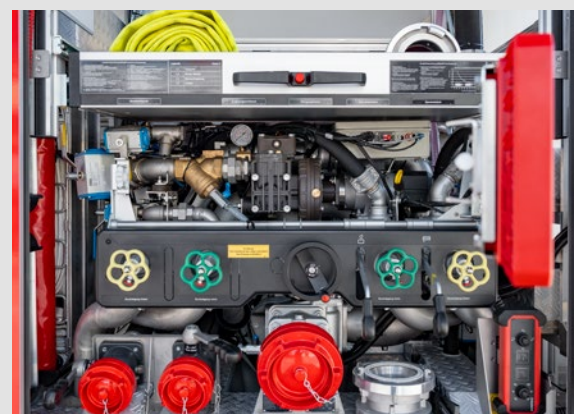


**The heart of a fire-fighting vehicle**  
More than 100,000 ZIEGLER centrifugal firefighting pumps are in proven service and perform reliably worldwide.

### Z-Foam

ZIEGLER proportioning system

Our pressurized mixing system is neatly housed behind the control panel and can be operated with the usual ease from above. It requires space only in the equipment compartment at the rear. The maximum space for cargo is available on the sides of the vehicle. Thanks to the particularly low overall height of the Z-Foam S 24, the space above the pump can be used to store suction accessories in an ergonomic drawer.



# Extinguishing technology

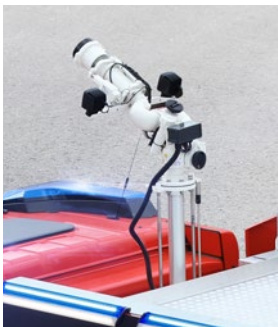
## Bumper and roof turrets



### Bumper turret and self-protection system

Our tankers are tailored to the specific needs of fire departments and can be equipped with a front spray bar featuring two D-couplings for self-protection, a discharge outlet, or an electrically operated bumper turret. Depending on the configuration, these systems can be operated with water or water and foam.

All nozzles in the self-protection system can be shut off individually. Each nozzle is equipped with a lateral D-outlet for fighting vegetation fires.



### Roof turret and operation via Z-Control

As an alternative to the manual roof turret, ZIEGLER tankers can be equipped with a remote-controlled roof turret with a flow rate of up to 3,000 l/min. The system is operated via a standard Z-Control handheld unit located in the passenger compartment. The extra-long coiled cable enables convenient operation outside the vehicle with a direct view of the roof turret.





### **Cab options**

Short cabs with a rear extension allow for fire suppression tanks with a capacity of up to 6,000 liters of water and an integrated 500-liter foam tank. Optional panels between the cab and the ALPAS superstructure ensure a cohesive design.

Long cabs prioritize storage space for crew equipment.

# Loading

Customized to your requirements

Available as three-piece or four-piece superstructure



Even more space for loading is available due to the flexible ALPAS superstructure of the latest generation.

## TLF 4000

Loading example  
4-pc. superstructure





The equipment compartment design provides ample storage space for technical rescue and firefighting equipment, tailored to individual requirements.

From the lower compartment to the top level, ALPAS ensures ergonomic and safe load removal.

The integration of the fold-out tailgate can be done without any difficulties in terms of space, even with Z-Foam system installed.

**TLF 4000**  
Loading example  
3-pc. superstructure  
with Z-Cab



Should your needs ever change, it is still possible to flexibly retrofit the interior and your loading without any problems – even after years.



# Features

Well thought out in every detail

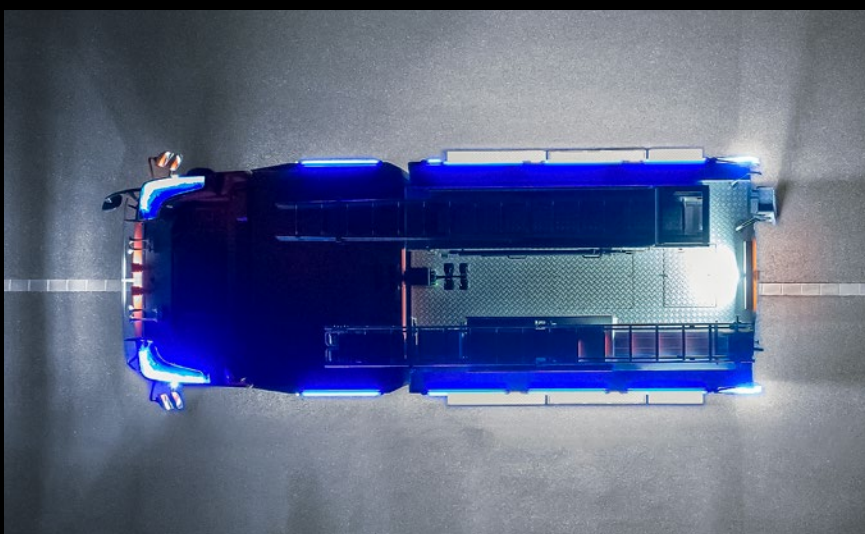
Long-proven and popular solutions from ZIEGLER

## Z-Vision

ZIEGLER signal and lighting concept

Flat Top Integro warning lights on the cab, featuring five side-mounted LED blue light elements and Tailfin rear warning lights, ensure maximum visibility on the road – even for cross traffic.

The powerful LED ambient lighting ensures optimal illumination of the vehicle's surroundings.



### Optimum handling

Thanks to practical solutions such as a fold-out ramp, the 50 kg wheeled powder extinguisher can be removed safely and quickly. This allows it to be rolled over the side panel flap and down to the ground.



**Hygiene board Push**

A “push” with the elbow is all it takes to have a water tap, soap, towels and a compressed air gun available for initial cleaning at the emergency site.



**Ergonomically stowed**

Respirators are stored so that they can be donned directly from their mounting position, ensuring immediate operational readiness.



**Optimum use of every space**

Pull-out equipment walls make it easier to remove equipment items and use space wisely.



**Heavy equipment in the lower compartment**

The hydraulic rescue kit is loaded in a way allowing quick and effortless removal.

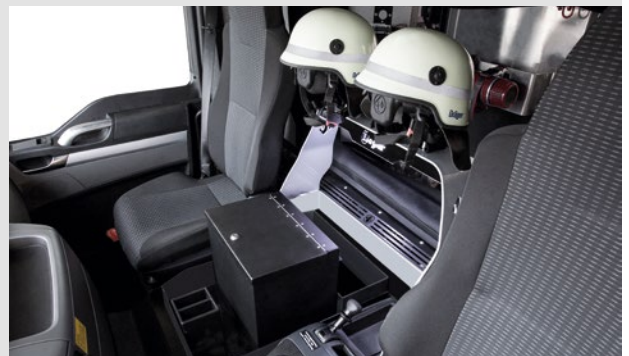


**Rear flap with integrated roller shutter**

The rear flap serves as weather protection. Due to the integrated roller shutter, everything can be seen and coupled without restriction even in the narrow equipment shed.

**Z-Rack** 

ZIEGLER mounting application in the cockpit



Document box and charging holders for handheld radios and lights can be placed in the free space between driver and co-driver. With putting the helmets on the holders with closed chin straps you already fix them in place.

Developer, manufacturer,  
trader and service provider –  
all from one source.



Extinguishing technology



Control and Operation



Firefighting vehicles



Hoses and Equipment



Service



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**We provide security.**  
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