



## (H)LF 20

Our pumpers with crew cabin

Upgrade for your fleet on MAN, Mercedes-Benz and Scania 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.

# (H)LF 20

Pumper with crew cabin

Everything you need  
in one vehicle



Superstructure possible on **MAN, Mercedes-Benz and Scania chassis**

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Clearly arranged **loading**

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Clever use of all **storage space**

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Innovative **ZIEGLER features** offer numerous configuration options

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Continuous low **tailboard flaps** from the Z-Cab to the end of the superstructure

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**Ergonomic storage** of heavy equipment in the lower compartment

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## Z-Cab

ZIEGLER security cabin  
for a crew of 1+8

## Maximum flexibility

Our (H)LF 20 impresses with its continuous design. A wide variety of operational focuses can be flexibly configured with a wheel-base of 3.9 m to 4.3 m. Depending on requirements with a large extinguishing water tank, optimized for technical assistance – or with a large hose supply.



Clear and ergonomically optimized  
**pump control unit**

Equipped with proven and innovative ZIEGLER features

**ALPAS**  
Aluminum Panel System

**Z-Control**   
Operating concept

**Z-Vision**   
Ambient lighting

**Z-Protect**   
Crew protection

**Z-Rack**   
Mounting application

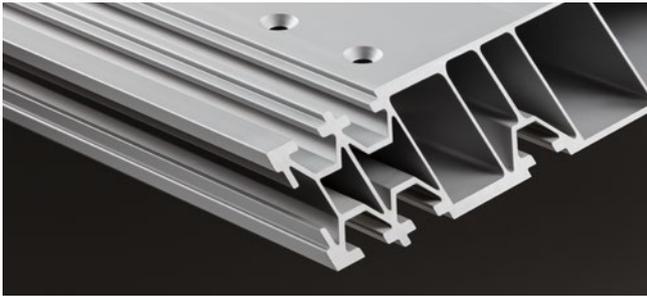
# ALPAS

## Aluminum Panel System

The latest generation of the proven ZIEGLER superstructure



Scan to discover ALPAS



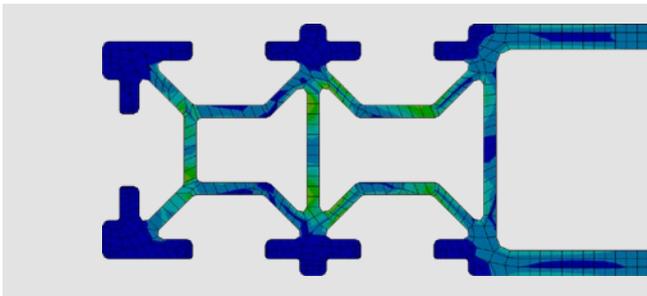
### Assembly without drilling

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.



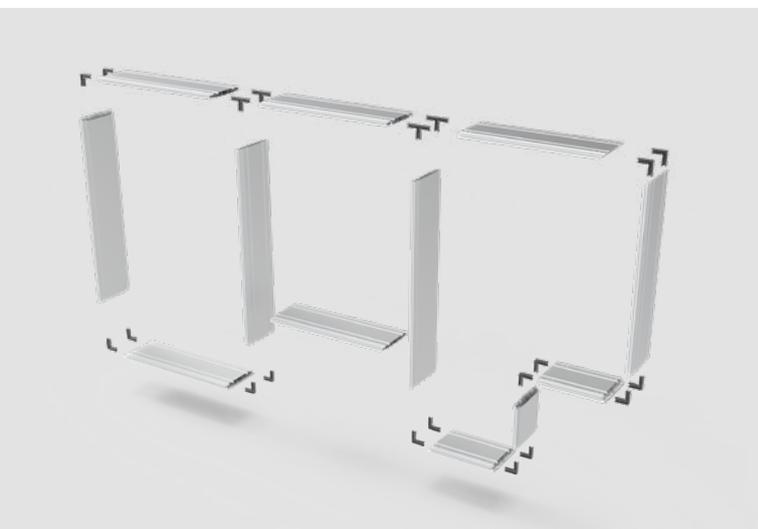
### Durable

After the panels are cut to size and drilled, they receive an extra strong 20 µm anodizing treatment. This provides long-lasting protection against scratches and corrosion. Sealed cutting edges provide a 12-year guarantee on the ALPAS superstructure. Even after a long time, aluminum is recyclable and therefore sustainable.



### As stable as the tough everyday work demands

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



### ALPAS rings provide modularity

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



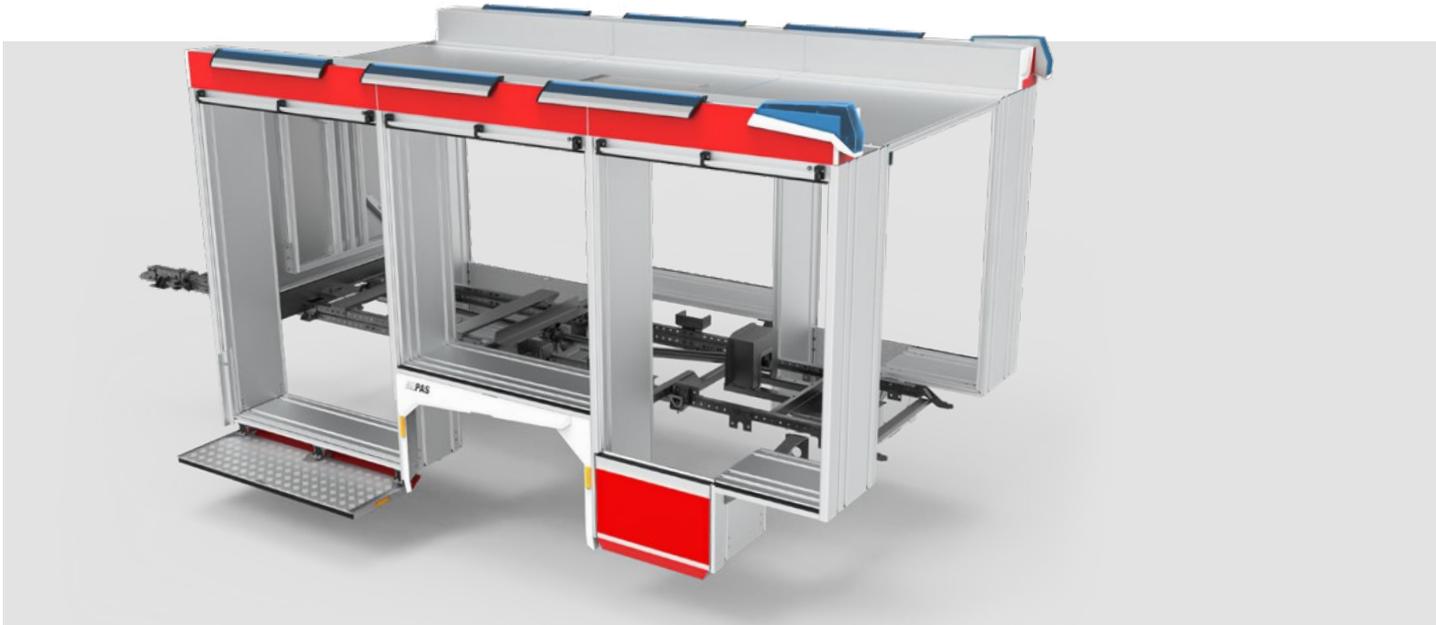
# Superstructure

## From panel to structure

### Awarded

ALPAS is winner of the iF DESIGN AWARD 2021.

Well thought-out construction creates space advantages



**Weight savings** of up to 30 % compared to the previous superstructure

Up to 10 % more **space** in the superstructure due to protected arrangement of the roller shutters on the roof

Increased **load capacity** and arranged 100 mm lower – the new tailboard flaps ensure even more ergonomic load removal and are all at the same height. Stable and safe against slipping and stumbling.



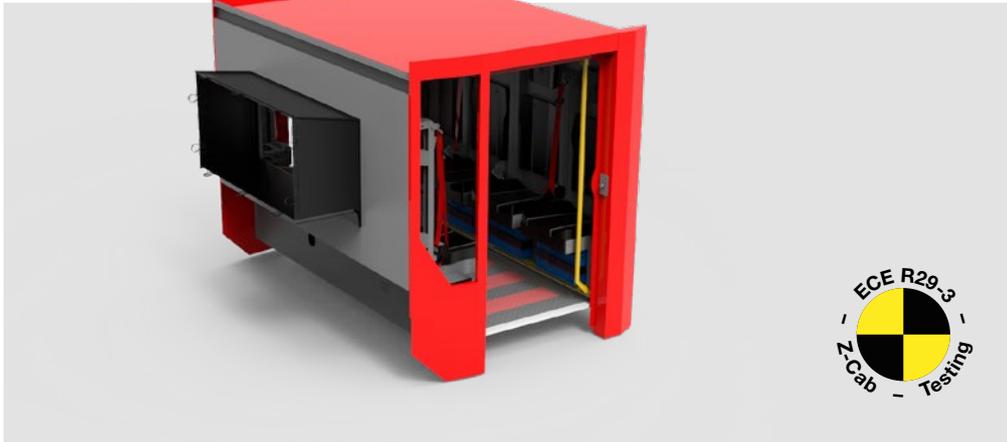
### Interior installation without obstacles

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 was 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 time. 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 tensioning system intervenes when necessary and secures the crew by pulling them firmly onto their seats.



**Z-Cab** 

Security as standard

This cabin has been designed and developed in consideration of ergonomics and requirements for firefighting vehicles.

Excellent handling and spaciousness characterize this group cabin and ensure rapid operation capability on site.

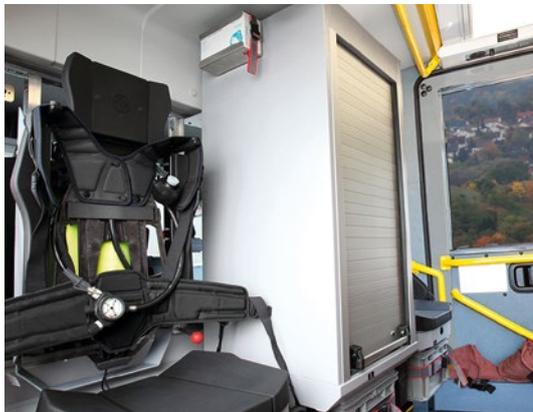
 Scan to discover the Z-Cab





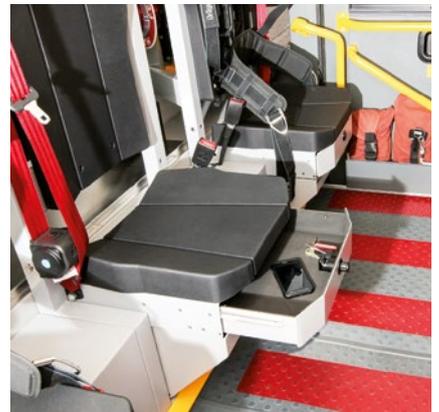
**Ergonomics**

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.



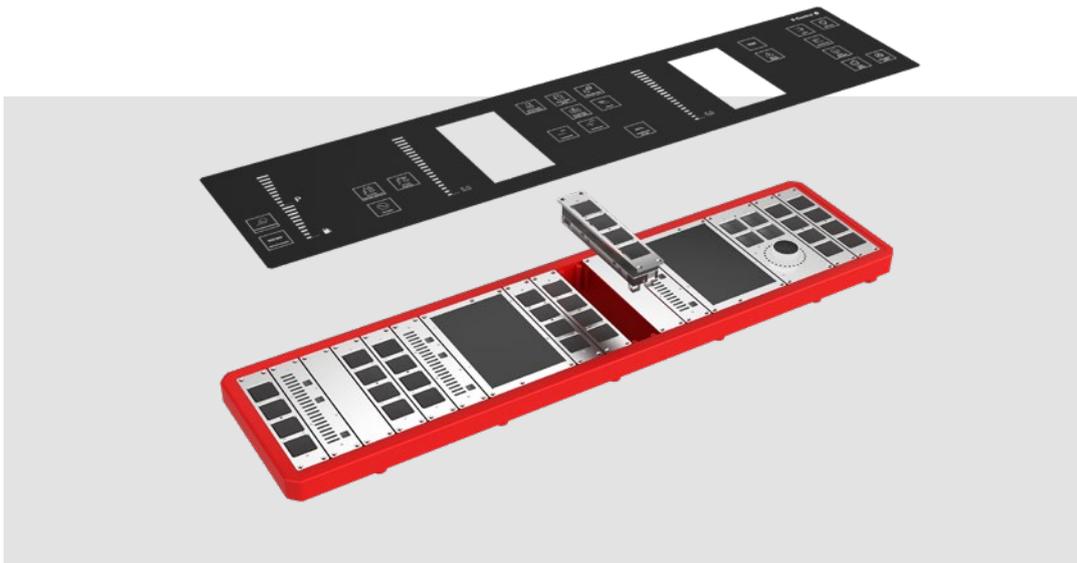
**Functionality**

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

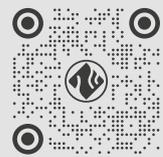
# Z-Control

## Operating concept

One system for all needs



Scan to discover  
Z-Control



### Flexibility through modularity

Due to the new 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.



### Manual control unit for light mast control

Large buttons ensure safe and easy operation even when wearing gloves. The pneumatic light mast can be extended via the manual control unit. The powerful LED spotlights can be rotated up to 360° in the desired direction and tilted into two separate areas.



### Swivel-mounted control panel

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



UX  
DESIGN  
AWARDS  
nominated  
2020

**Intuitive and modern operation – nominated and awarded**

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.



**User-friendly pump control unit**

The very 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 panel.



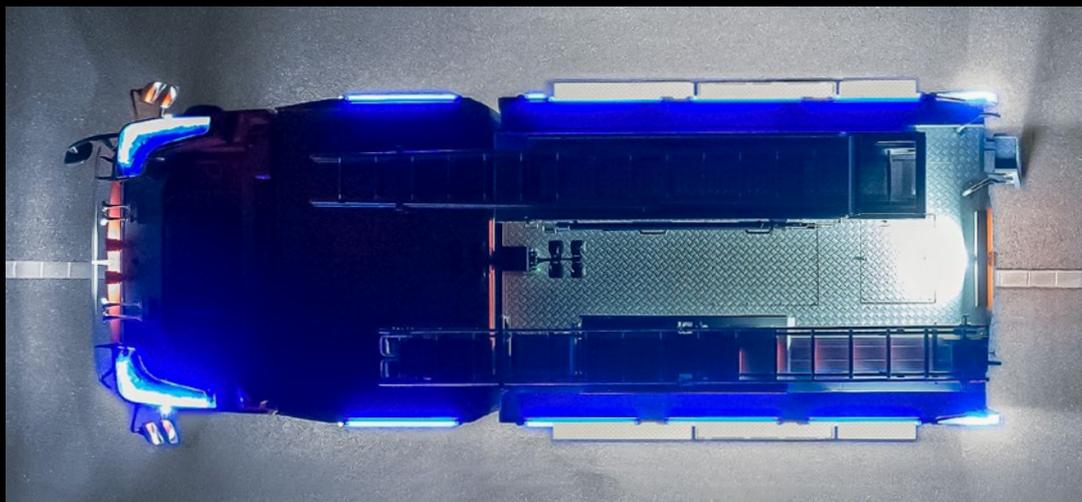
**Ergonomics and clarity in the cockpit**

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

# Z-Vision

## Ambient lighting and beacons

Excellent to see and to be seen



### Ambient lighting and vehicle rear lighting

Vehicle lighting for road traffic – with LED technology as standard. Powerful ambient lighting for optimum illumination of the vehicle's surroundings. The luminance exceeds the required standard value many times over.



### Top Integro roof module

With its flat design, Top Integro is the optimum solution for a low vehicle height. The LED lights are extended far around to the side of the vehicle, cross traffic is warned in the best possible way.



### Tailfin beacon on the end of the superstructure

Integrated into the corners of the superstructure, the Tailfin warns not only while driving, but also when using the access ladder or lowered ladder frame to the rear and sides.



#### Beacons on the side

Up to five LED blue light elements mounted on the side reinforce the rear beacon and thus guarantee the visibility of the vehicle in road traffic.





Strict acceleration and torsion measurements in accordance with internal guidelines on a wide variety of test tracks attest to the very high operational stability of our ALPAS vehicles.

Built on



**TGM** New  
truck generation

# All-rounder

Ready for use in any environment

Checked, tested and certified  
on different chassis



Built on



**P-series**



Scan to discover the cockpit



Emergencies don't follow road maps, often emergency sites have to be reached quickly and safely away from paved roads. Our (H)LF 20 on all-wheel drive chassis offers the necessary power to get to the site of an emergency quickly off-road.

The excellent off-road capability is noticeable off the beaten track. Whether single- or twin-tired, the vehicle has great ground clearance and provides a fording ability of up to 800 mm.

ZIEGLER firefighting vehicles also score points on all roads – whether wide or narrow. Tight spaces are no problem due to a wheelbase of approx. 3.9 m and the maneuverability of the road chassis.



Built on



Mercedes-Benz

**ATEGO**

**The choice is yours**

Built on an MAN, Mercedes-Benz or Scania chassis, our (H)LF 20 is perfectly equipped for emergencies thanks to the proven ZIEGLER features, so that assistance can be provided where it is urgently needed.

# Loading

Customized according your needs

Whether all-wheel drive or road chassis



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

## HLF 20

Loading example  
All-wheel drive  
chassis





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 the foam system installed.

Especially in the initial phase, it is important to have complete equipment for firefighting and assistance. Our vehicles meet this very requirement. The superstructure can be specifically adapted to your individual requirements thanks to modular elements.

**HLF 20**  
Loading example  
Road chassis



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



Scan to discover ZIEGLER pumps



## The heart of a firefighting vehicle

More than 100,000 ZIEGLER centrifugal firefighting pumps are in proven service and perform reliably worldwide.

## Foam System

Yellow stands for foam: Our admixing system sits well arranged behind the control panel and can be operated in the usual comfortable way.



## Optimum handling

Practical solutions such as the roll-off type ladder frame and the new, hydraulic lowering device enable the ladder to be removed safely and quickly from the ground at the push of a button.

Avoiding roof access and the resulting risk of accidents is our philosophy.



#### 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.



#### Secondary loading

Not only on the swivel wall, but also in the walk-in space behind it, every centimeter is optimally used for storing equipment.



#### 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.

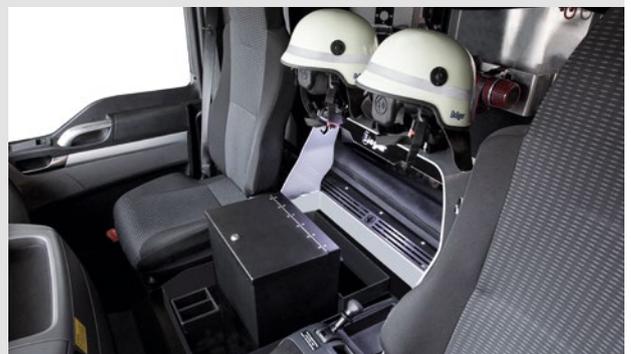


#### Rear flap with integrated roller shutter

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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