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Innovation Rollout 2020

ZIEGLER presents the new Z-Class

Metzingen, September 2020 – ZIEGLER enters the highlight of the Innovation Rollout 2020 with the presentation of the new Z-Class.

The moment everyone has been waiting for has finally arrived: ZIEGLER presents the new royal class of airport firefighting vehicles and thus enters a new era. The new Z-Class shows unprecedented acceleration values, the most powerful drive motor on the market, an extremely spacious cabin (Z-Cab AiR) and much more. Of course the new Z-Control and the new ZIEGLER turrets are also part of the equipment. All information about airport firefighting vehicles at ZIEGLER as well as the development and the top 10 reasons for the new Z-Class can be found here.

From 1969 until today: more than 50 years of experience with airport firefighting vehicles

ZIEGLER's first airport firefighting vehicle was the FLF 30/50-5 for Kopenhagen airport. It was delivered in 1969.

After the development of the first Z-vehicle in 1988 (Z1, Faun chassis, 6x6), the first Z8 (MAN chassis, 8x8) was produced in 1992 in close cooperation with Nuremberg Airport. Further development steps contained the introduction of ALPAS in the Z-Class in 2002 for Stuttgart Airport, the extension of the vehicle range with the Z6 in 2010 (Z6 Brussels Airport) and furthermore the first Z8 on a TITAN chassis for FRAPORT. The product family of the Z-Class was completed in 2015 by the design and production of the first Z4 for a customer in China.

Until today, 115 Z8, 110 Z6 and 10 Z4 have been produced and delivered in the well-known ZIEGLER design. Then and today, people trust in ZIEGLER's proven extinguishing technology to be prepared for special requirements within operations at the airport. All relevant norms and standards are not just met with the Z-Class, they are even exceeded. Good examples to name here are the ICAO, NFPA, EASA, CCCF, ADV, etc.

Good reasons to choose Z-Class in general

The Z-Class has always connected high operational strength with a functional design. ZIEGLER relies on cooperation with experienced manufacturers of vehicle chassis. Thereby, every partner can concentrate on his core competencies which leads to optimal values regarding driving performance and extinguishing technology of the Z-Class.

The modular design ensures the weight distribution when considering the optimal arrangement of each component. In addition, the large cabin of the Z-Class (Z-Cab AiR) provides comfort and is very spacious with 1,80 m standing height.

If the product is so good – why does it still have to be improved?

One of ZIEGLER's promises is the consistent development and improvement of its products. This presupposes that even successful products and systems are constantly questioned and continuously improved.

It is very important for ZIEGLER to meet and even exceed the current and future needs and requirements of customers worldwide. Therefore, ZIEGLER has not even stopped at its proven Z-Class. Nowadays

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topics such as occupant protection, effectiveness and an easy and intuitive operation also play a role in the development.

The engineering department of ZIEGLER Group has taken the Z-Class up to the next level by the implementation of practical experience, customer feedback and the latest trends and technologies. For an optimal result, the plans were fundamentally revised. The approach therefore was a consequent platform concept. ZIEGLER aspires to enable the standard requirements through creating a well thought, modular design with the necessary and optional vehicle equipment.

How has the new Z-Class been developed?

In different phases of the development project – or rather innovation project – various workshops were held, both internally and externally with different partners. The development process was accompanied by constant calculations and internal and external test procedures. Among other things, virtual simulations that correspond to the latest state of the art were used for this.

Topics such as dynamics, acceleration and driving security were top priorities in the development of the new Z-Class. It was also important to find a low center of gravity for the new Z-Class. Another key point was the development of the Z-Cab AiR. Comfort, security and clarity played an important role here. Of course, all the proven components of ZIEGLER's extinguishing technology had to be installed in the new Z-Class as well. ZIEGLER also relies on the consistent use of Z-Vision in the new Z-Class.

In order to obtain realistic results, a prototype of the Z6 was and is subjected to various physical tests. The vehicle is tested on its performance and has to be put to the test on various testing grounds.

Thus, not only the material properties, stability and durability, but also possible vehicle configuration and its structure were inspected. Since the new Z-Class is compatible with both Z-Control and the new ZIEGLER turrets, these ZIEGLER core competences were also put through their paces in the tests. In addition to fulfilling customer requirements, ZIEGLER's priority is not only to meet current national and international standards, but to exceed them. For users and customers, this means that ZIEGLER offers a tested and certified airport firefighting vehicle that has passed all practical tests with flying colors.

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Top 10 reasons for the new Z-Class

- Most efficient (drive) engine on the market (Z4 and Z6: 770 HP; Z8: 1,540 HP)
- The vehicle concept is perfectly adjusted to the high performance requirements (therefore the maximal power transmission of the driving motors is possible)
- Innovative, continuously variable transmission with best acceleration values in this market (0 - 80 km/h / 0 - 50 mph: < 28 s with Z6; < 20 s with Z4 and Z8)
- Pump & Roll mode can be activated in every driving mode and at any speed
- The modular concept, weight distribution and a low center of gravity enable the largest possible quantity of extinguishing agent up to 19,000 l water / extinguishing foam
- Certified crew cabin designed according to the highest requirements in terms of ergonomics and user-friendliness (Z-Cab AiR) e.g. ECE R29-3 certified
- Extremely spacious crew cabin with a headroom of > 1,80 m
- Cabin with all-round visibility thanks to large-scale glazing
- User-friendly operating concept (intuitive user guidance) for airport firefighting vehicles by the latest generation of Z-Control
- Consistent, functional design of the vehicle; all components of the extinguishing system from one source (pump, foam ad mixing system)



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About ZIEGLER

The Albert Ziegler GmbH is a leading international supplier of vehicles for firefighting, civil protection and the police, as well as firefighting accessories and technology. The comprehensive product range includes clothing for the firefighting services to highly specialized pumping and fire extinguishing systems to all kinds of emergency vehicles. Out of currently more than 1,400 employees worldwide, around 680 are employed at our headquarters in Giengen an der Brenz, Germany. Other ZIEGLER manufacturing facilities are located in Germany (Rendsburg and Mühlau) as well as the Netherlands, Croatia, Italy and Indonesia. Sales and service offices can also be found in the Slovenia and China.

<https://www.ziegler.de>