

Innovation Rollout 2020

ZIEGLER presents its portfolio of the next generation turrets

Metzingen, September 2020 – At the ZIEGLER Innovation Summit 2020 on September 17th the new generation of ZIEGLER turrets was presented – next to the premium class of firefighting vehicles – for the very first time live. The selected customers and journalists were enthusiastic about the possibilities which the new ZIEGLER turrets offer fire departments.

From 1932 to today: more than 85 years of experience in the field of firefighting technology

With the start of production of the first ZIEGLER pump in 1932, the foundation stone for extinguishing technology has been laid. This extinguishing technology was and is a pioneering product for the firefighting industry. ZIEGLER turrets of the most varied performance, also known as Viper, Boa, Mamba etc, were a part of this success story for more than 35 years.

The track record of the ZIEGLER turrets is characterized by continuous development and integration of the latest technologies. In the early 1990s, ZIEGLER was one of the first in the industry to introduce contour control. This system prevents the roof or front turret from colliding with vehicle components and thus damaging itself or the vehicle.

Since the turn of the millennium ZIEGLER has produced more than 1,500 of the previous successful models such as the Boa, Python and Viper. These are mainly used in ZIEGLER firefighting vehicles. Then and now, the success story of ZIEGLER extinguishing technology is based on development and testing close to the field in order to be prepared for the special requirements worldwide. With the help of ZIEGLER turrets, ZIEGLER vehicles meet and even exceed the current norms and standards, such as ICAO, NFPA, EASA, CCCF and many more.

Good reasons for ZIEGLER turrets in general

ZIEGLER turrets have always combined optimum throwing distance and maximum stability with the lowest possible weight. Due to the interaction of the ZIEGLER pump and the ZIEGLER turret in a ZIEGLER firefighting vehicle, the optimal coordination of all components now allows throwing distances of over 100 m which has never been reached before. Due to their modular construction ZIEGLER turrets can deliver water, foam or powder as desired and can be further modified with customer and application-specific equipment modules.

The consistent reduction of wear and tear parts and the use of highly resistant materials result in a particularly long service life and maximized operational capability.

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If the product is so good – why is there still room for improvement?

One of ZIEGLER's promises is the consistent further development and improvement of the products. This requires that even successful products and systems are constantly questioned and continuously improved. It is very important for ZIEGLER to meet or even exceed the current and future standards and needs of our customers worldwide.

There, we have not even stopped at ZIEGLER turrets. With the help of the most modern simulation programs we have been able to reduce the pressure losses in the turret by up to 50 % which considerably improves the efficiency of the entire extinguishing technology and leads to significantly higher throwing distances for the same performance. Taking into account practical experience, customer feedback and incorporating new trends and technologies, the design team of the ZIEGLER Group was able to set a new benchmark in the field of turrets. For example, with the latest generation of Z-Control a unique control option was implemented which combines the advantages of intuitive operation of a gaming controller with the tough requirements of a fire department.

How have the new turrets been developed?

In different phases of the development and innovation project, various workshops were conducted internally and externally with different partners. The development process was accompanied by constant calculations and test procedures. Among other things, virtual simulations were used for this purpose, which are state of the art.

Topics such as minimizing pressure losses, increasing extinguishing efficiency and higher throwing distances were at the forefront of the development of the new turrets. Another important point was to minimize the overall height in order to have more compact vehicle dimensions.

In order to obtain realistic results, a prototype of the turret was and is subjected to various physical tests. In addition to fulfilling customer requirements, ZIEGLER also focuses on not only meeting, but also exceeding current national and international standards. For users and customers this means that ZIEGLER offers tested and certified turrets which have passed all practical tests with flying colors.

Of course, the new turrets have some advantages. Exactly which ones they do, is shown in the 10 points on the next page.



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10 reasons for the new generation of ZIEGLER turrets

- 1** Increase in extinguishing efficiency for ZIEGLER vehicles through optimal coordination of all extinguishing components. Reduction of performance losses by up to 50 % by using Z-Turret.
- 2** Higher throwing distances of more than 100 m due to verifiable reduction of pressure losses thanks to a new, optimized water flow.
- 3** The compact construction leads to a reduction of the construction height of the turret by up to 23 %.
- 4** Reduction of wear and tear parts, thereby increasing the service life and operating time through the use of modern, brushless electric motors.
- 5** Use of highly resistant materials guarantees a particularly long service life. The seawater-resistant, hard anodised aluminum alloy can be CDC coated additionally on request.
- 6** Available in the performance classes ZT-6000 (rated output 6,000 l/min) and ZT-8000 (rated output 8,000 l/min) equipped with a certified foam branch pipe, a wide variety of multi purpose nozzles or powder nozzles
- 7** Universally configurable with high performance LED headlights, signal lights, cameras etc. and therefore precisely tailored to your requirements. These can even be retrofitted using Plug'n'Play due to modular design.
- 8** Standardized communication via FireCAN, thanks to Plug'n'Play the turret is immediately ready for use
- 9** Unique control options with the latest generation of Z-Control, which combines the advantages of intuitive operation of a gaming controller with the tough requirements of a fire department.
- 10** With the increased horizontal turning range to almost 360° and a vertical turning range of at least 90°, almost any point around the vehicle can be reached with the turret.

The new turrets are available from now on and are already being used in the first ZIEGLER firefighting vehicles.

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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 Slovenia and China.

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