

Albert Ziegler GmbH · Giengen/Brenz · Germany

World's first ARFF with HYBRIDDrive Technology sold ZIEGLER secures contract to deliver Z-Class to Cranfield Airport

Giengen, October 2022 - ZIEGLER Group has announced its contract to supply the world's first hybrid aircraft rescue and firefighting (ARFF) vehicle to a customer. Cranfield Airport, owned by Cranfield University will be the first Airport to receive this first vehicle.

It is only 3 months after ZIEGLER has announced the [electrification of the game-changing Z-Class](#) in June 2022.



The Z6 HYBRIDDrive by ZIEGLER is a 6x6 ARFF which can drive in three modes. Pure electrical mode; combined electric and combustion mode; and purely with a conventional, low emission engine.

Therefore the emissions can be reduced significantly, but – in case of an emergency – the maximum power output can reach up to 1,150 HP, with the acceleration from 0-80 km/h within 25 s.

“It's the perfect concept for future airport

firefighting: Combination of both – green airports concept and maximum power for the rapid deployment”, said Angus Yan, CSO of ZIEGLER Group.

This award will change the sector of the aviation firefighting appliance in general by implementing the latest state of the art technology of ZIEGLER and boosts Cranfield Airport's decarbonising activity.

“Cranfield Airport is used to ground-breaking projects in areas such as our Digital Air Traffic Control Centre, the integration of manned and unmanned aircraft and enabling the future of electric and hydrogen flight. This contract represents another milestone on our support to the zero carbon aviation agenda.”, said Rob Abbott, Cranfield Airport Director.

Cranfield Airport's new Z-Class HYBRIDdrive will be manufactured at the headquarters of ZIEGLER in Giengen/Brenz and then sent to West Yorkshire-based Venari, exclusive agent of ZIEGLER in the UK, for finalisation such as stowage fitment, communications instalments and livery. Venari will also take over the service activities in the future.

Starting from 2021, Venari and ZIEGLER joined forces to actively introduce the Z-Class to the UK market. “The 2021 UK Z-Class launch essentially provided the UK aviation firefighting industry with much needed competition at a time when innovation was required. But, to respond to requests for further advancements – to allow airports to improve operational performance whilst achieving increased environmental targets in parallel – has shown the unbelievably high quality of our partner, ZIEGLER.”, said Oliver North, CEO of Venari Group.

Fabian Schmidt, Product Manager ARFF vehicles at ZIEGLER adds: “After several years of continuous development of our Z-Class, we feel confident that our new Z6 HYBRIDDrive will prove to be a firm favourite for the UK airport fire and rescue services, not only to achieve tough environmental targets, but to improve overall operational effectiveness.”

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Technical data Z6 HYBRIDDrive

Basic information	Vehicle type	Z6-RT HYBRIDdrive
	Customer	Cranfield University Airport
Chassis	Type	Titan T39-770 6x6 HYBRIDdrive
	Motor and engine power	<ul style="list-style-type: none"> ▪ Consumption engine: Scania DC16 386, V8-Cylinder, 16.4 Liter, 566 kW / 770 HP ▪ Electric system Scania Electric-Power-Train 230 kW (Continuous), 280 kW (Peak) Lithium-Ion Battery with 104 kWh ▪ HYBRIDdrive parameters Total output max. 846 Kw / 1150 HP
	Emission Stage	Emission free in electric drive mode / Stage V
	Gearbox	Kessler LV3000-PTO
	Acceleration	0-80 km/h in < 25 seconds
	Top Speed	> 130 km/h
Superstructure	Permissible weight	39,000 kg
	Measurements	11.700 x 3.000 x 3.800 mm
	Cabin / Crew	Z-Cab AiR / 1+3
	Water tank	Up to 12,500 l
	Foam tank	1,500 l
	Pump	ZIEGLER FPN 10-10000-1M
	Turret	Roof turret: ZT 8000 Front turret: ALCO APF3
	Extinguishing powder	250 kg Powder extinguishing system
	Admixing system	Foam System EAD
Further adjustments	Special equipment	<ul style="list-style-type: none"> ▪ Z-Control of the latest generation ▪ Z-Vision ▪ Light mast with 8 LED-Spotlights 24V/50 W ▪ Rear view camera ▪ Rapid intervention hose reel water-foam ▪ Rapid intervention hose reel powder ▪ ZIEGLER Self protection system

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About ZIEGLER

ZIEGLER Group 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/Brenz, Germany. Other ZIEGLER manufacturing facilities are located in Germany (Rendsburg and Mühlau) as well as the Netherlands, Croatia, Italy and Indonesia.

<https://www.ziegler.de>.