



MAN TGE turns into a rescue vehicle

Fulda, 17/05/2019

At the RETTmobil trade fair (Fulda, 15 – 17 May 2019) in hall 6, MAN Truck & Bus is presenting for the first time two ambulance vehicles based on the TGE van. Outside, the market leader for fire service vehicles in Germany is also showcasing two firefighting trucks as well as a logistics vehicle with pump.

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- **Première for the MAN TGE as an ambulance (RTW) – both as a box-type van as well as with a box body in hall 6, stand 603**
- **Vehicle body expertise proven over decades, now also for vans**

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It may be the latest offspring of the MAN commercial vehicle family, but it is nevertheless a fully-fledged member. And, contrary to popular opinion on the “youth of today”, the MAN TGE is extremely helpful. This year the MAN Truck & Bus van will be demonstrating this fact for the first time at the RETTmobil in Fulda, which is Europe’s leading trade fair for rescue and mobility (2018: 540 exhibitors from 20 countries). In hall 6, stand 603, the TGE will celebrate its trade fair début as an upgraded box-type ambulance from Ambulanz Mobile, as well as an ambulance with box body from WAS Wietmarscher Ambulanz- und Sonderfahrzeug.

The equipment highlights of the two TGE exhibits in Fulda include the high-torque engine with 177 hp, as well as the 8-speed automatic gearbox; two features which are crucial when it comes to deployment in emergency rescue scenarios. In addition to the top engine with 177 hp (130 kW), the TDI engine with a capacity of 1,968 cm³ is also available in the performance graduations 102 hp (75 kW), 122 hp (90 kW) and 140 hp (103 kW). A 6-speed manually operated gearbox is installed as standard.

With the MAN TGE, a crucial aspect in all driving scenarios is safety: the van is equipped with Emergency Brake Assist as standard. This ensures the

MAN Truck & Bus is one of Europe's leading commercial vehicle manufacturers and transport solution providers, with an annual revenue of some 11 billion euros (2018). The company's product portfolio includes vans, trucks, buses/coaches and diesel and gas engines along with services related to passenger and cargo transport. MAN Truck & Bus is a company of TRATON SE and employs more than 36,000 people worldwide.



safety of ambulance service personnel and patients in extreme situations and is an innovation in the vehicle class of up to 3.5 tons. Furthermore, an extremely comprehensive, optional range of driver assistance systems ensures safety and makes the driver's tasks easier; they can then concentrate on the traffic and the reactions of other road users when responding to an emergency. MAN TGE vehicles can optionally be equipped with the active Lane Guard System, Adaptive Cruise Control (ACC), multi-collision brake, blind spot assistant or assisted high-beam headlights, among other things. When driving at night and with restricted visibility, the optional LED main headlights also add to the level of safety.

In order to ensure the climate in the vehicle is always pleasant for the patient and the ambulance service personnel in all climatic conditions, in addition to an air-conditioning system, the TGE trade fair vehicles are fitted with independent air heating and an auxiliary water heater/electrical auxiliary air heater. This is just one example of the comprehensive range of special equipment enabling every ambulance service to configure a vehicle to their particular needs. This also includes the option to choose between front, rear, and particularly safe all-wheel drive. The TGE box-type van is available in three roof heights, two wheelbases and two rear overhangs. The TGE cowl, on which the box bodies are mounted, are also available in two wheelbases and with two overhang variants. The maximum overall length for the cowl is 7,211 mm; for the box-type van 7,391 mm.

The ambulance vehicles' highlights

At its stand in hall 6, MAN is presenting two ambulances: one upgraded box-type van from Ambulanz Mobile, as well as a box body from WAS Wietmarscher Ambulanz- und Sonderfahrzeug. The ambulance upgrade from Ambulanz Mobile is the Delfis CR model, which can be used as a type B emergency ambulance or type C ambulance. The highlights here include a structured spray-coated floor, central electrical system with central control of the vehicle functions and touchscreen, as well as LED blue light with the highest level of effectiveness. The stretcher used is the Stryker M1 Rugged model, which rests on a suspended table with an automatic loading position in the vehicle. On the roof, the aerodynamic blue light consoles, as well as the electronic sirens with their ambulance siren simulation, are also noteworthy.

The ambulance box body from WAS is a type C ambulance. The WAS 500 RTW ambulance, with its internal dimensions of 3,590 x 2,080 x 1,975 mm



(L x W x H) has a right-hand sliding door that is 1.2 m wide with a sliding window, as well as double folding doors at the rear (lockable at 90° and 270°). To facilitate working practices and to optimise ergonomics, the emergency cases and rucksacks can be reached via the sliding door on the right-hand side. The underfloor storage compartment to the front left also houses the rescue tools. All of the inside and outside lighting in the WAS RTW 500 uses LED technology. Further technical highlights are the Brigade 360° camera system including 4 cameras and 7" monitor, as well as an automatic system for controlling the air-conditioning system and independent heating. The air-conditioning system has a bacteria filter in the evaporator which reduces bacteria, streptococci and fungi through photocatalysis using LED light.

MAN vehicle body expertise put into practice

With their trade fair presence in Fulda, MAN is emphasising the fact that their body expertise, gained over decades in the truck sector, can be transferred over to vans for emergency services vehicles. At the core of the MAN body philosophy is the concept that the body manufacturer is considered to be a partner with whom the best solution for the customer is created. The fact that the MAN TGE is increasingly gaining popularity amongst body manufacturers as the basis of their vehicles can be seen from other stands at RETTmobil. The manufacturers AMZ, Binz, Freytag, hospiMobil and Rodriguez Lopez Auto are exhibiting ambulance and fire service vehicles on the basis of the TGE.

From a technical point of view, when it comes to the TGE, the customer-specific function unit should be highlighted amongst other things. This unit simplifies the actuation of special body functions. With the unit, for example, the second air-conditioning system can be actuated, using the additional function for deactivating the automatic start-stop system for consistent air-conditioning operation.

Additional advantages of the MAN TGE as the basis for emergency services vehicles, are the dense European network of service workshops, along with the their understanding of the particular requirements of rescue organisations and fire services. This is reflected in long opening hours and flexible appointments, amongst other things.

Captions:

P_TGE_EST_RETTmobil_RTW_WAS_1.jpg



P_TGE_EST_RETTmobil_RTW_WAS_2.jpg

P_TGE_IOT_5180_Ambulance_03

MAN Truck & Bus is now also proving its experience in dealing with demanding body structures in the area of transporters for emergency services: Here with ambulance set-up of WAS

P_TGE_EST_RETTmobil_RTW_AM.jpg

P_TGE_IOT_4180_Ambulance_01

Trade show premiere as emergency transporter: The MAN TGE 3.180 - here with a box-type vehicle from Ambulanz Mobile – arrives quickly at its place of operation thanks to a strong engine and automatic transmission. Photo: Ambulance Mobile

P_TGE-TGM_EOT_Rettmobil_01

MAN presented at the RETmobil 2019 trade fair the new MAN TGE als Ambulance and fire-fighting trucks on MAN TGM.

P_TGE_IOT_Rettmobil_02

MAN presented at fair RETTmobil 2019 two ambulances on the basis of the TGE van for the first time.

P_TGM-TGL_EOT_Rettmobil_03

MAN presented at fair RETTmobil 2019 fire trucks on MAN TGL and MAN TGM basis.

P_TGE_EOT_4180_Ambulance_02

Manufacturer Rodriguez Lopez Auto exhibited an ambulance on MAN TGE 4.180 on RETTmobil 2019 trade fair.

P_TGE_IOT_6180_Command_01

Command Car on MAN TGE 6.180 at fair RETTmobil 2019.



Technical data

Model	MAN TGE box-type vehicle upgraded by Ambulanz Mobile	MAN TGE cowl with box body from WAS
Type	3.180 FWD	5.180 RWD
Engine	1,968 cm ³ , 4 cylinder in line, diesel	
Power/maximum torque	130 kW (177 hp) at 3,600 rpm / 410 Nm at 1,500 – 2,000 rpm	
Gearbox	8-speed automatic gearbox	
Permissible gross weight	3,880 kg	5,000 kg
Permissible axle load (front/rear)	2,100 / 2,380 kg	2,200 / 3,500 kg
Wheelbase	3,640 mm	3,640 mm
External dimensions (L x W x H)	5,986 x 2,040 x 3,080 mm	6,200 x 2,100 x 2,715 mm
Tyres	235/65 R16	205/75 R16
Special equipment	Storage package 1, active Lane Guard System, 2nd battery with cut-off relay and battery monitoring, electr. auxiliary air heater (1,400 W), Climatronic air-conditioning system, programmable independent air heating with remote control, Media Van Advanced package, rear-view camera, left seat "Comfort Plus", right seat "Comfort", reinforced front axle, 2nd heat exchanger and 2nd evaporator	Storage package 2, ACC, battery increased capacity, electr. auxiliary air heater (1,400 W), 2nd battery with cut-off relay and battery monitoring, high-beam headlight assistant, Climatic air-conditioning system, LED main headlights with LED daytime driving lights, Media Van Advanced package, rain sensor, automatic low-beam headlights, "Comfort Plus" seats, programmable auxiliary water heater with remote control