



TATRA TAKES YOU FURTHER

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# TATRA PHOENIX Euro 6

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A new generation of trucks is coming. A new generation based on a unique chassis concept that has been tested to perfection for nearly a century - all over our planet. For decades this unique concept has inspired other manufacturers' chassis designs - but TATRA still remains the one true original.

As technology develops, it brings changing demands on operations, safety, performance and efficiency. Of course, it also brings the requirement to minimize impacts on the natural environment - including all the types of terrain where TATRA's off-road pedigree truly excels.

**The TATRA PHOENIX Euro 6 is coming.** Built on the proven TATRA chassis, driven through the toughest terrain by powerful, efficient yet environmentally friendly PACCAR engines meeting the stringent Euro 6 emission limits.





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## Be **PRODUCTIVE**

Any cargo, any destination. With the TATRA PHOENIX, you can carry heavier loads over difficult terrain - whether roads, forests or fields, in the most challenging conditions. The unique chassis design does not require an additional subframe for mounting tipper bodies. Other superstructures can be fitted simply, without any need to use compensating assembly parts. After all, every extra kilo you can load makes a big difference to your business. Independent swinging half-axles with air suspension enable your vehicle to travel at higher speeds and thus increase its total transport capacity. Higher performance will get your business further.

## Work **EFFECTIVELY**

Your journey to the very top requires more than just speed and power. Success speaks the language of numbers. Keep operating costs firmly under your control. Powerful yet economical PACCAR MX engines, a wide range of transmissions, protection of important powertrain parts by the central back-bone tube, and the solid chassis design that protects the vehicle superstructure against twisting or bending - all these features mean that you can keep the operating costs of your new TATRA PHOENIX as low as your business allows. The TATRA PHOENIX will become your universal assistant both on and off the road, so your investment will be used to the maximum throughout its operational lifespan. With a TATRA, you make the road. TATRA takes you further.

## Stay **SAFE**

For us, a truck means a perfect harmony between exemplary ergonomics, excellent comfort and uncompromising technology. For you, it means the safety and comfort of your employees - or if you are the driver, it means simply enjoying your work behind the wheel of the new TATRA PHOENIX. Whether on rough terrain, paved roads or asphalt surfaces, you will be surprised by the high level of driving comfort, achieved thanks to the unique TATRA design of independently suspended half-axles with air suspension on all axles - combined with a spacious and comfortable cab, where all the important functions are situated exactly where you need them. You will appreciate the stable driving position, even at high lateral inclinations. You will be astonished by the speed and certainty with which you can move off road. TATRA PHOENIX is uncompromising off road. TATRA PHOENIX takes you further.

# Durable and reliable CHASSIS

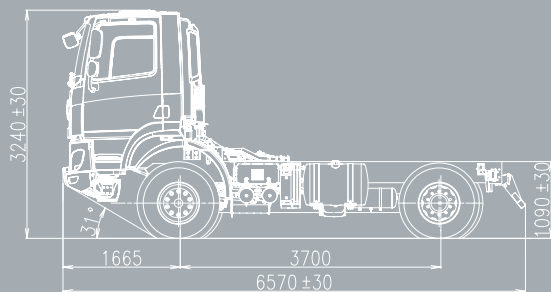
The TATRA chassis design gives the vehicle, and in particular its driveline, increased resistance to environmental effects. Dirt, mud and sharp stones will not damage the drive shafts, and the protecting central backbone tube makes powertrain maintenance very simple and affordable. We even offer an extended warranty for the driveline. For safe off-road travel, the vehicle is equipped with differential locks on all axles, plus inter-axle differential locks. The connectable front-axle drive means that you can take full advantage of all-wheel drive whenever ambient conditions require, while on paved roads driving without the front-wheel drive

will enable you to streamline the operation of the vehicle. The air distribution through the chassis is now controlled by a new electronic management system, which optimizes air consumption and compressor operation and helps to reduce fuel consumption.

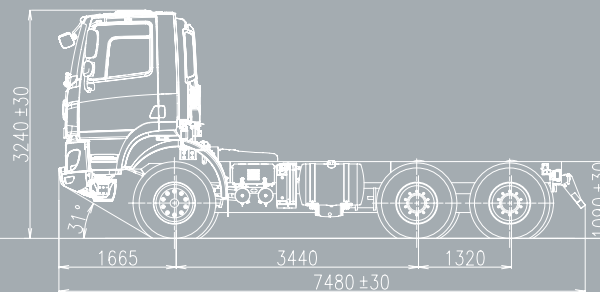
Cooperation with top racing teams competing in challenging long-distance races – including the toughest of them all, the Dakar Rally – helps us implement constant improvements to the TATRA chassis design, including air suspension on all axles, new front shock absorbers, and front axle steering.

Depending on customer requirements, the chassis of the TATRA PHOENIX is also equipped with the following features:

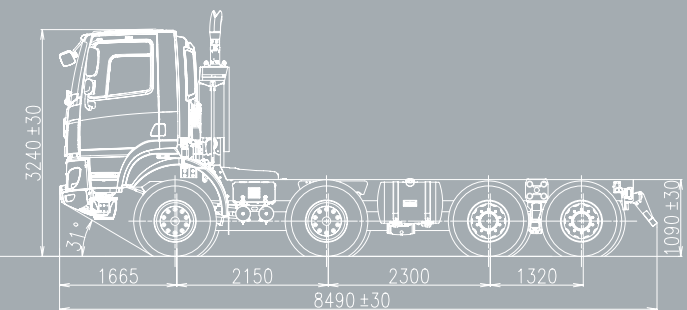
- Light or heavy-duty combined air suspension with permissible load up to 16 tons
- Wheel-hub reductions
- Steerable front axles with load up to 10 tons
- Special protective coating offering increased resistance to chemicals and abrasive materials
- Configuration options for up to seven driven axles



Other possible standard wheelbase: 4,090/4,500 mm



Other possible standard wheelbase: axle 1-2: 3,900/4,500 mm  
axle 2-3: 1,450 mm



Other possible standard wheelbase: axle 2-3: 2,560/2,950/3,360 mm  
axle 3-4: 1,450 mm







# Powerful and efficient ENGINES

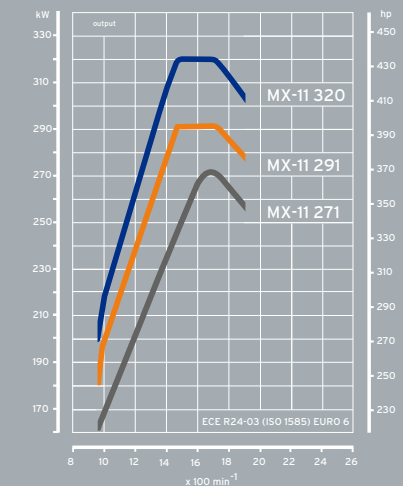
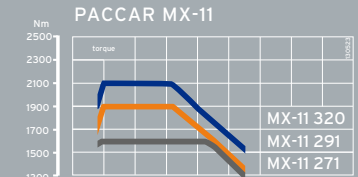
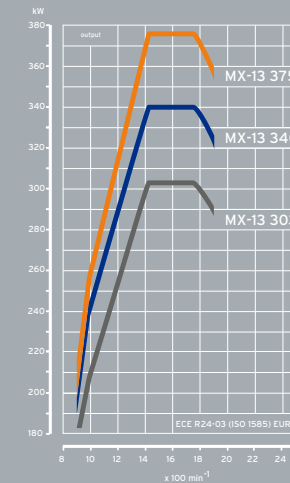
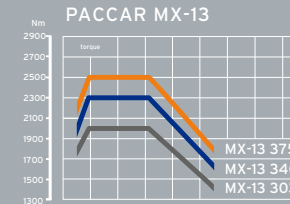
The newly developed PACCAR MX engines are manufactured by DAF Trucks N.V., whose technology has been proven in the United States in compliance with EPA 10 emission limits. The engines feature high performance, a flat torque curve, excellent driving characteristics, and exceptionally low fuel consumption. The most striking characteristics include the use of Common Rail injection, integrated directly into the engine block, and a turbocharger with variable turbine geometry (VTG), which significantly improves engine response at different speeds, reducing fuel consumption and emissions. Exhaust gases are processed to meet stringent Euro 6 emission limits. In addition, the systems used in the engine - EGR, the Diesel Particulate Filter and the SCR based NOX reduction system - are designed to maximize economy and efficiency. These principles have also driven other key improvements in the MX-13 engine, such as the lighter oil pan made of composite materials, the combined fuel filter and heated water separator, or the use of only one belt to drive auxiliary equipment.

Although the exhaust gas aftertreatment system has primarily been designed to achieve the lowest possible content of harmful substances in gas emissions, the overall system tuning, exceptional insulation and innovative solution used for the covering layers of the SCR system mean that the engine's operation has been optimized to achieve maximum economy and efficiency in terms of fuel and AdBlue consumption and DPF filter servicing intervals.

## Depending on customer requirements, the TATRA PHOENIX Euro 6 can be driven by:

- 12.9-liter MX-13 engines with outputs of 303, 340 and 375 kW, torque of 2,000, 2,300 and 2,500 Nm achievable at low rpm
- 10.8-liter MX-11 engines with outputs of 271, 291 and 320 kW, torque of 1,600, 1,900 and 2,100 Nm achievable at low rpm

For all engine versions the MX engine brake is available, with excellent power output reaching 75% of maximum engine power even at 1,500 rpm.



### PACCAR MX-13, Euro 6 engines

Engine type	Maximum power	Torque
MX-13 303	303 kW/412 hp (1,425 - 1,750 min <sup>-1</sup> )	2,000 Nm (1,000 - 1,425 min <sup>-1</sup> )
MX-13 340	340 kW/462 hp (1,425 - 1,750 min <sup>-1</sup> )	2,300 Nm (1,000 - 1,425 min <sup>-1</sup> )
MX-13 375	375 kW/510 hp (1,425 - 1,750 min <sup>-1</sup> )	2,500 Nm (1,000 - 1,425 min <sup>-1</sup> )

### PACCAR MX-11, Euro 6 engines

Engine type	Maximum power	Torque
MX-11 271	271 kW/369 hp (1,650 min <sup>-1</sup> )	1,600 Nm (1,000 - 1,650 min <sup>-1</sup> )
MX-11 291	291 kW/396 hp (1,450 - 1,700 min <sup>-1</sup> )	1,900 Nm (1,000 - 1,450 min <sup>-1</sup> )
MX-11 320	320 kW/435 hp (1,450 - 1,700 min <sup>-1</sup> )	2,100 Nm (1,000 - 1,450 min <sup>-1</sup> )

## Wide choice of **TRANSMISSIONS**

With the TATRA PHOENIX Euro 6 you now have a wider choice of transmissions. The transmissions of renowned brands, ZF and Allison, work ideally in conjunction with the powerful and economical PACCAR engines. The manual ZF gearboxes are represented by the EcoSplit range - only a 16-speed box is available with the TATRA PHOENIX vehicle range. For those who prefer ease of vehicle control, the 16-speed ASTronic automated gearbox is available - this is ideal for all operations where different drivers alternate behind the wheel. It helps to reduce fuel consumption, and it protects the clutch and the engine itself from damage due to driver faults. Customers who require uninterrupted torque transmission to the entire powertrain can choose the 6- or 7-speed Allison automatic transmissions, where a hydrodynamic torque converter is used instead of a standard clutch. The software and shift strategy in these robust and durable long-life transmissions is tailored to the off-road operation of TATRA PHOENIX vehicles. Both Allison and ZF transmissions can be supplied in a version featuring an integrated retarder. The transmissions are complemented by a one- or two-speed TATRA auxiliary transmission. For single-speed transmissions you have a choice of three basic gear ratios, while the two-speed transmission offers two versions of gears shiftable at standstill, making your vehicle an even more universal means of transport and maximizing your efficiency both off road and on paved roads.

## Spacious and comfortable **CAB**

The new cab of the TATRA PHOENIX Euro 6 provides more space, comfort and safety for the driver. As soon as you climb in, you will know that the vehicle is right for you. Comfortable seats and an ergonomic control layout maximize comfort inside the cab. For added comfort we provide numerous storage compartments, as well as the cargo control with an optional footrest integrated into the cab side. The five-inch color display provides drivers with a wide range of essential information, including data that can be used to improve and streamline driving style. The new cab also brings newly designed crumple zones for greater driver and front passenger safety, as well as a three-piece steel bumper - reducing the cost of routine replacements of these exposed parts. The cab cushioning and chassis air suspension bring another dimension to this perfect combination.

## High-quality and easily available **SERVICING**

We will take full care of you from the very beginning - starting with the moment when you need to specify the equipment for your new vehicle. Our dealers provide top-quality warranty and after-warranty servicing. To help our partners meet the many strict requirements placed on them, we have constantly improved and expanded our network of authorized sales and service dealers. It is our mission to provide you with the widest possible range of services - whether you're visiting one of our service points or we're sending our service personnel out to deal with your vehicle on-site. The 24/7 TATRA Service Assistance package is also available. We will arrange supplies of original spare parts for you through our authorized dealers. We can also offer driver training - from basic vehicle operation to programmes helping your drivers improve their skills and driving style in off-road conditions. This will help you to use your operational resources as efficiently as possible, while minimizing the risk of equipment damage due to incorrect operation.



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Please contact our authorized dealers and ask about a new TATRA PHOENIX vehicle to meet your needs. For a list of authorized dealers and service partners visit [www.tatratruck.com](http://www.tatratruck.com)

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