



TATRA TAKES YOU FURTHER



TATRA TRUCKS

Czech Manufacturer of Unique Heavy-Duty Trucks



TATRA TRUCKS SITE

The Kopřivnice-based company, known for their NW and **TATRA** vehicle brands, is one of the oldest truck makers in the world. During more than 170 years the existence of continuous production of vehicles has greatly contributed to the worldwide treasury of the design of many vehicle segments, esp trucks with a combustion engine. **TATRA TRUCKS** is part of the industrial-technological holding **Czechoslovak Group** and the engineering-oriented **Promet Group**.



TATRA PROVING GROUNDS

Users and customers of **TATRA** vehicles expect not only excellent driving characteristics and technical parameters like efficiency and operational safety, but also guaranteed durability and reliability.

The systematic approach of **TATRA TRUCKS** naturally includes extensive testing of the durability and reliability of individual components, assemblies and the vehicle itself. Testing has a long and distinguished tradition here. For more than half a century, the company has benefited from extensive in-house test facilities, which include a unique set of test sections and test tracks. The **TATRA** test track is the only one of its kind and scale not only in the Czech Republic, but on the entire European continent.

TATRA TRUCKS'commercial partners can also use the test track.



COMPETITIVE DNA	26-27
FOR SUSTAINABILITY	24-25
SPECIAL PROJECTS	22-23
CURRENT MODEL RANGES	10-21
WITH OWN AGGREGATES	08-09
TATRA CONCEPT	06-07
TATRA TRUCKS	04-05
TATRA SITE, TATRA PROVING GROUNDS	02-03

TATRA TRUCKS

COMPANY



1850

Ignác Šustala – commencement of carriage production in Kopřivnice



1897

First car with internal combustion engine



1919

TATRA designation was used for the first time



1934

TATRA 77 - application of aerodynamics in the passenger car design



1952

TATRA 805



1957

TATRA 141



1967

TATRA 813



1972

TATRA 148



1986

First start at the Rallye Paris - Dakar



1996

TATRA 815-6 (FORCE)



1999

TATRA 163 (JAMAL)



2007

TATRA 810 (TACTIC)



2015

TATRA PHOENIX Euro6



2023

Third generation of TATRA FORCE

1881

Production of railway cars started



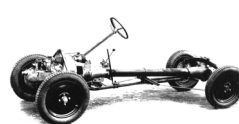
1898

First truck



1923

Introduction of the Tatra chassis concept design



1943

TATRA 111



1956

TATRA 603



1959

TATRA 138



1983

TATRA 815



1989

TATRA 815-2



1997

TATRA TERRN⁰¹



2006

TATRA 815-7 (FORCE)



2011

TATRA 158 (PHOENIX)



2018

TATRA TERRA



2024

Third generation of TATRA PHOENIX





TATRA CONCEPT

The unique Tatra concept of the vehicle's chassis is combined with a drive train of in-house proprietary development and production or the products of global partners. The range includes all-wheel drive and non-all-wheel drive chassis, while multi-axle versions can be equipped with steered rear axles, including the possibility of so-called „crab“ operation.

CHASSIS

Independently swinging half-axes

- Vibrations - by up to 35% lower than in a vehicle with a rigid axle on a hard surface
- Low tilting torque, high driving stability

Central backbone tube

- High torsional and bending rigidity
- Modular system enabling the production of multi-axle vehicles
- Driveline shafts protected from external influences
- Low operating costs

Benefits

- Developed for difficult terrain conditions
- Excellent go-anywhere ability
- High riding comfort
- High transport speed in difficult terrain
- High vehicle stability when cornering and driving on slopes
- Minimal maintenance
- Minimal risk of damage to the drive train
- With steered, steerable and driven rear axles or liftable axles
- In versions with extended axles (over 2.5 metres), even more stability for vehicles with purpose-built superstructures

AXLES

The axles of **TATRA** vehicles are of a unique design with swinging half-axes and a differential mounted in a central backbone tube.

- With drum or disc brakes
- Standard without wheel hub reduction gears, alternatively with hub reduction gears (depending on overall weight, type of operation, etc.)
- With air or combined suspension (combination of air and mechanical suspension); also with hydropneumatic suspension on special request
- Always with mechanical differential locks
- Optional in versions exceeding the standard width of 2.5 metres



COMPETITIVE
DNA
26-27

FOR
SUSTAINABILITY
24-25

SPECIAL
PROJECTS
22-23

CURRENT MODEL
RANGES
10-21

WITH OWN
AGGREGATES
08-09

TATRA
CONCEPT
06-07

TATRA
TRUCKS
04-05

TATRA SITE,
TATRA PROVING
GROUNDS
02-03

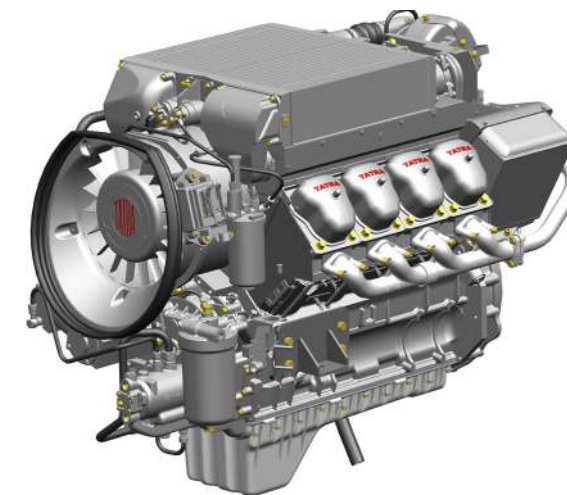


WITH OWN AGGREGATES

TATRA trucks use air-cooled V engines of their own proprietary design or liquid-cooled engines of foreign origin for propulsion. Manual, automated or fully automatic transmissions using the latest technology are available, always in conjunction with TATRA auxiliary (drop-box) gearboxes of its own design.

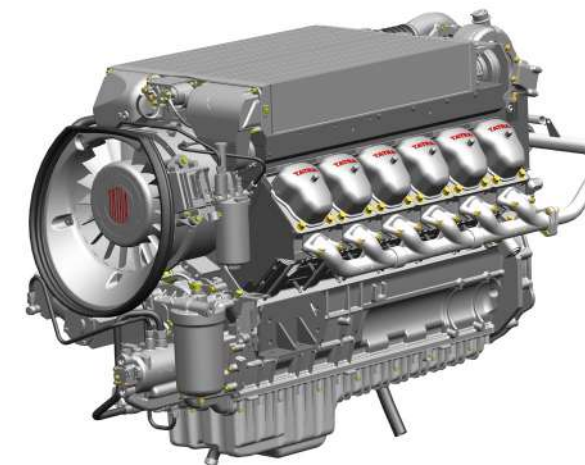
TATRA ENGINES

TATRA V8



An electronically controlled air-cooled V-8 diesel engine, supercharged, with a charge air intercooler integrated directly on the engine, with a capacity of 12.666 litres and a power output of up to 368 kW (490 hp) depending on the emission level. It allows the seamless use of standard F-34 military fuel or high-sulphur diesel while offering above-average longitudinal and lateral gradients.

The engine offers the Euro III emission level, alternatively Euro V (in combination with SCR technology) or on special request without an emission standard.



TATRA V12

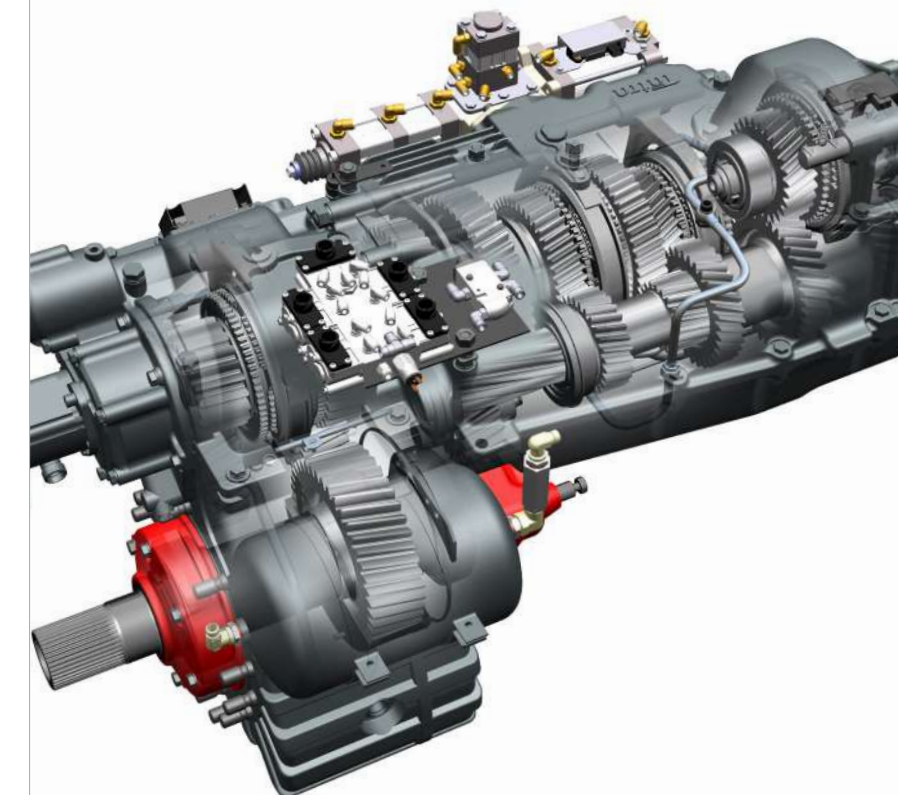
The V-12 engine is derived from and highly unified with the eight-cylinder version, with all its characteristics (F-34, high-sulphur diesel, longitudinal and transverse gradients). It has a capacity of 19 litres and a maximum power of up to 515 kW (690 hp) depending on the emission level.

This engine is also offered in Euro III, Euro V or zero-emission versions.

TATRA TRANSMISSION

TATRA vehicles can be equipped with manual TATRA transmissions exclusively with electronic shifting (F-shift), as well as highly modern automated or fully automatic gearboxes from renowned international manufacturers (ZF, Allison).

An integral part of the chassis support structure includes TATRA auxiliary transmissions (drop-boxes), which are connected to the central backbone tube and a wide variability of gear ratios makes it possible to choose the variant optimal to the customer needs and expectations.





**TATRA
PHOENIX**

**TATRA
FORCE**

**TATRA
TACTIC**

CURRENT MODEL RANGES

Current civil production is represented by the **TATRA PHOENIX** model range, whereas the **TATRA FORCE** range represents vehicles primarily for the firefighting and defence segment. Purely defence production is represented by **TATRA TACTIC**. Vehicles with alternative drives are called **e-DRIVE**.





TATRA PHOENIX

The third generation of vehicles in the **TATRA PHOENIX** range benefits from the original TATRA chassis concept design with a central tube and air suspension on all axles. It features a modern cab with excellent visibility and an ergonomic interior. State-of-the-art engineering and technology guarantee a high level of safety.



The new generation of the **TATRA PHOENIX** model range in the Euro VI engine version complies with the GSR (General Safety Regulation) and CySe (Cyber Security) regulations without exception. These vehicles are equipped with standard 12-speed ZF TraXon automated transmissions and PACCAR MX-11 or MX-13 engines. The most modern chassis variant is equipped with a DAF XDC cab. Excellent visibility from the cab is made possible by the low bottom edge of the windscreen together with its rounded side sections. A second window located in the right door (optional) provides an even better view. For a view of the rear hemisphere, the Digital Vision and Corner View camera systems are available on request.

The unique solutions of the **TATRA PHOENIX** include the combination of the XDC cab and the MX-13 engine, or the combination of this engine with the Allison fully automatic transmission. It goes without saying that an approach angle of at least 30 degrees is maintained and it comes with a flexible lower step for getting into the cab.



COMPETITIVE DNA	26-27
FOR SUSTAINABILITY	24-25
SPECIAL PROJECTS	22-23
CURRENT MODEL RANGES	10-21
WITH OWN AGGREGATES	08-09
TATRA CONCEPT	06-07
TATRA TRUCKS	04-05
TATRA SITE, TATRA PROVING GROUNDS	02-03



For vehicles intended for firefighters and rescue workers, the protection of electrical harnesses and air bundles with heat-resistant material and beacons that do not increase the overall height of the vehicle are a matter of course.





TATRA FORCE

EURO6

The new generation of **TATRA FORCE** range vehicles can also be equipped with in-line liquid-cooled engines manufactured abroad in the **Euro VI** emission version.



reddot winner 2024

The third generation of the **TATRA FORCE** range is equipped with an advanced electronically controlled air-cooled eight-cylinder Tatra engine in its basic version. Selected variants can also be equipped with the new generation of the air-cooled 12-cylinder Tatra engine.

The standard range also includes liquid-cooled Cummins engines that meet Euro VI emission limits, combined with automated or fully automatic transmissions. **TATRA FORCE** vehicles also fully comply with GSR and CySe regulations.

Even in the Euro VI engine version, **TATRA FORCE** vehicles guarantee excellent approach angles, fording ability and safety.



	
COMPETITIVE DNA	26-27
FOR SUSTAINABILITY	24-25
SPECIAL PROJECTS	22-23
CURRENT MODEL RANGES	10-21
WITH OWN AGGREGATES	08-09
TATRA CONCEPT	06-07
TATRA TRUCKS	04-05
TATRA SITE, TATRA PROVING GROUNDS	02-03



TATRA FORCE

DEFENCE POWER FORCES

Almost two decades of experience in operating heavy-duty trucks of the **TATRA FORCE** model line, including extensive deployment in a wide range of defence missions on many continents of the world, gives the customer the confidence that they are using the best and most efficient vehicles.



The third generation of the **TATRA FORCE** range reflects the long-standing experience and requirements of customers not only in the special and defence vehicle sector. The features they offer include the low overall height of the vehicle, which in selected variants enables transport by NATO standard transport aircraft.

The standard cab offers a high level of safety for the entire crew, including the offer of filtration equipment to protect against the effects of chemical or biological weapons. An excellent approach angle, high ground clearance and fording ability of up to 1,500 mm and high ride stability guarantee excellent handling characteristics. A significant added value is the possibility of using F-34 fuel or high sulphur fuel as appropriate.

TATRA FORCE vehicles for the defence segment are prepared for the alternative mounting of armoured cabs. These provide various levels of ballistic and mine protection according to STANAG 4569 standards. The advantage is the maximum unification of the controls with the standard cab, facilitating the operation of the vehicle.



	
COMPETITIVE DNA	26-27
FOR SUSTAINABILITY	24-25
SPECIAL PROJECTS	22-23
CURRENT MODEL RANGES	10-21
WITH OWN AGGREGATES	08-09
TATRA CONCEPT	06-07
TATRA TRUCKS	04-05
TATRA SITE, TATRA PROVING GROUNDS	02-03



TATRA TACTIC

DEFENCE POWER FORCES

A range of highly mobile trucks with the classic design and the rigid, portal axles of **TATRA's** proprietary design, ladder frame, modern cab and liquid-cooled engine.

The new generation of the **TATRA TACTIC** (also referred to as **T 810 M**) builds on the success of the original logistics vehicle with design innovations and improvements. In several model versions of the previous generation, the vehicles serve to the customer satisfaction on several continents.

The classic ladder frame is equipped with two or three rigid, portal axles of the original **TATRA RIGID** design with mechanical suspension. All axles are driven, equipped with a tire inflation system and disc brakes. Under the modern cab is a liquid-cooled six-cylinder engine. The drivetrain includes a main and auxiliary transmission, both manufactured abroad.

TATRA TACTIC vehicles offer premium ground clearance, excellent wheel suspension travel and high approach and crossing angles. They are offered in 4x4 and 6x6 configurations up to a total weight of 13 t and 15.5 t respectively.



COMPETITIVE DNA	26-27
FOR SUSTAINABILITY	24-25
SPECIAL PROJECTS	22-23
CURRENT MODEL RANGES	10-21
WITH OWN AGGREGATES	08-09
TATRA CONCEPT	06-07
TATRA TRUCKS	04-05
TATRA SITE, TATRA PROVING GROUNDS	02-03



SPECIAL PROJECTS

TATRA's wheeled chassis and mobile platforms are a unique and efficient solution not only in the civil segment but especially in the defence and special equipment segment. Complete vehicles provide fast movement, go-anywhere ability and a high level of safety, in any type of terrain and under extreme weather conditions.



The exclusive ability to deliver unique added value to customers in the form of **TATRA MOBILITY** means the ability to provide a wheeled chassis or platform with the required number of axles, configured with an air-cooled or liquid-cooled inline six-cylinder engine, manual, automated or fully automatic transmission and cab preparation, or a complete superstructure for any customer project.

The structure of the „Tatra concept“ chassis protects the complete superstructure from the effects of excessive torsional and bending stresses. This extends the overall service life of the vehicle and gives it high operational value. At the same time, it facilitates the fitting of any type of bodywork without the need for compensating elements.

TATRA MOBILITY delivery options:

- Fully mobile and functional chassis in a version with a so-called transport cab
- Immobile chassis with a set of required “free parts”
- Chassis parts for assembly at the customer's location - in the form of CKD or SKD sets, including the possibility of licensed production





FOR SUSTAINABILITY

TATRA FORCE e-DRIVE are vehicles equipped with alternative drives with locally zero pollutant emissions and represent the fulfilment of **TATRA TRUCKS'** commitment to environmental protection. They contribute to reducing the environmental footprint of the transport sector and support the transition to the use of sustainable energy sources.



reddot winner 2024



The basic philosophy of the **TATRA FORCE e-DRIVE** range is to preserve 100% of **TATRA MOBILITY**. They therefore use the backbone tube chassis with integrated auxiliary transmission, swinging half-axes and air suspension. The traction electric motor, which can be combined with a multi-speed transmission, is always located in a protected zone above the backbone tube.

The vehicles can be designed as Battery Electric Vehicle (BEV), Fuel Cell Vehicle (FCEV), or Battery Electric Vehicle + Range Extender in the form of an internal combustion engine (BEV REX), either for diesel or hydrogen gas.

The upcoming applications for emission-free vehicles in the **TATRA FORCE e-DRIVE** are the result of **TATRA TRUCKS'** commitment to sustainable development. This is also evidenced by their activity in the field of infrastructure, as the truck maker offers a mobile hydrogen filling station for FCEVs with the dimensions of a standard container, transportable by conventional trucks to the vehicle's deployment sites.



TATRA SITE, TATRA PROVING GROUNDS	02 - 03
TATRA TRUCKS	04 - 05
TATRA CONCEPT	06 - 07
WITH OWN AGGREGATES	08 - 09
CURRENT MODEL RANGES	10 - 21
SPECIAL PROJECTS	22 - 23
FOR SUSTAINABILITY	24 - 25
COMPETITIVE DNA	26 - 27



COMPETITIVE DNA

For almost four decades, the outstanding driving characteristics and technical and design innovations of **TATRA** vehicles have been tested on the tracks of Dakar-type competitions around the world, including the toughest and most prestigious **Dakar Rally**, or **Africa Eco Race**.



6x Rally Dakar winner
5x winner of the Africa Eco Race



COMPETITIVE
DNA
26-27

FOR
SUSTAINABILITY
24-25

SPECIAL
PROJECTS
22-23

CURRENT MODEL
RANGES
10-21

WITH OWN
AGGREGATES
08-09

TATRA
CONCEPT
06-07

TATRA
TRUCKS
04-05

TATRA SITE,
TATRA PROVING
GROUNDS
02-03



TATRA TAKES YOU FURTHER

TATRA

TATRA TRUCKS a.s.

Areál Tatry 1450/1
742 21 Kopřivnice
Czech Republic

+420 556 491 111

  
@TATRATRUCKS

WWW.TATRATRUCKS.COM