



T815-7

TATRA T815-7



This new range of vehicles is designed for operation on extreme terrain and in severe climatic conditions, carrying out and supporting peacekeeping missions and deployment in combat operations in war conflicts worldwide.

The outstanding driving characteristics of the Tatra chassis on difficult terrains and its resistance to torsion, flexion and vibrations makes TATRA vehicles extremely suitable for transporting not only people, but also special and sensitive military material and special-purpose truck bodies, such as ammunition transport containers, electronic equipment, radar and other special containers and box bodies. The chassis is also suitable for fire brigades and intervention forces.

The vehicles were designed with particular emphasis on military vehicle requirements according to the standards applied by NATO and armies worldwide, including the Czech Republic army. In addition, the vehicle design respects civilian legislation requirements and these models can be used as a special-purpose chassis in the civilian sector, for example cranes or fire trucks.

The new range of vehicles has many common features and many engines and driving mechanisms can be installed in them. Tatra's own air-cooled engines and water-cooled engines from various manufacturers can be used and the engine outputs can be matched to mechanical or automatic transmissions of various brands.

STANAG 4569 supplementary armour plating for the cabin in several levels of protection can be installed on this range.

The most important advantages of this range are:

- Low overall vehicle structure so that it can be transported by air in a Hercules C-130
- All wheel drive with lockable differentials and a system for maintaining tyre pressure while driving
- High payload on and off road
- The user can have additional ballistic protection for the cabin; installation of supplied additional armour plating set including windows
- Advanced pneumatic suspension for variable ground clearance
- Small turning circle

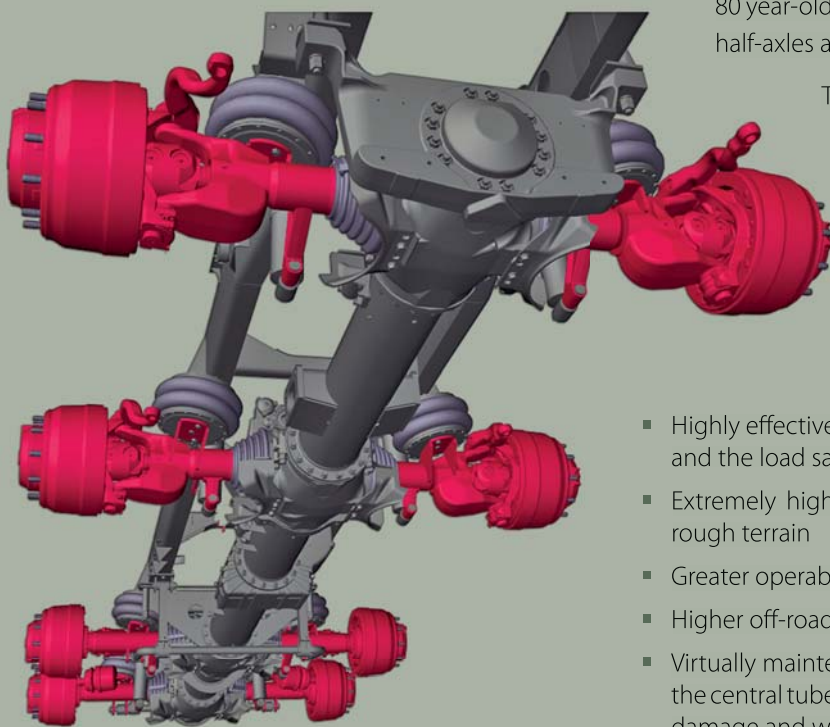


TATRA chassis concept

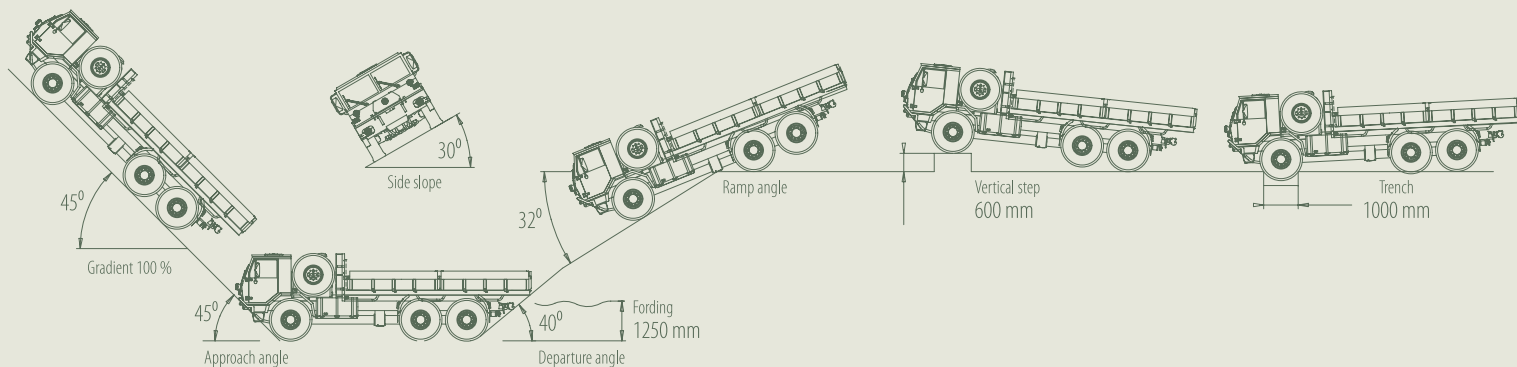


The chassis is a state-of-the-art version of the proven, more than 80 year-old concept with independent suspension using swing half-axes and a rigid space frame with a central tube.

The unique chassis concept gives the vehicle excellent driving characteristics particularly on heavy terrain. The design is based on swing half-axes with independent suspension and a space frame comprising a central tube connected to a ladder-type frame.



- Highly effective vibration absorption to keep the crew comfortable and the load safe
- Extremely high resistance to frame torsion and flexion when on rough terrain
- Greater operability on heavy terrain
- Higher off-road travel speed compared to conventional vehicles
- Virtually maintenance-free and low cost chassis operation because the central tube protects the driving mechanism against mechanical damage and weather effects



Engine:

Various types of engines with a wide range of outputs can be installed in T 815-7 vehicles. In addition to air-cooled TATRA engines the vehicles can be fitted with liquid-cooled CUMMINS and CATERPILLAR engines.

TATRA T3-928 engine

Diesel, air-cooled, turbocharged V8 engine with direct fuel injection and charged air intercooler. The engine meets the legislation requirements of EURO II, EURO III and EURO IV standards without an electronic fuel injection system.



Clutch:

A single-disc dry friction clutch with a pressure disc spring and hydraulic control with pneumatic booster.

Transmission:

The mechanic manual synchronised fourteen-gear TATRA

transmission is the standard transmission for T 815-7 vehicles.

ZF mechanical transmissions are also available with this range.

Allison or Twin Disc automatic transmissions can be installed as an option.

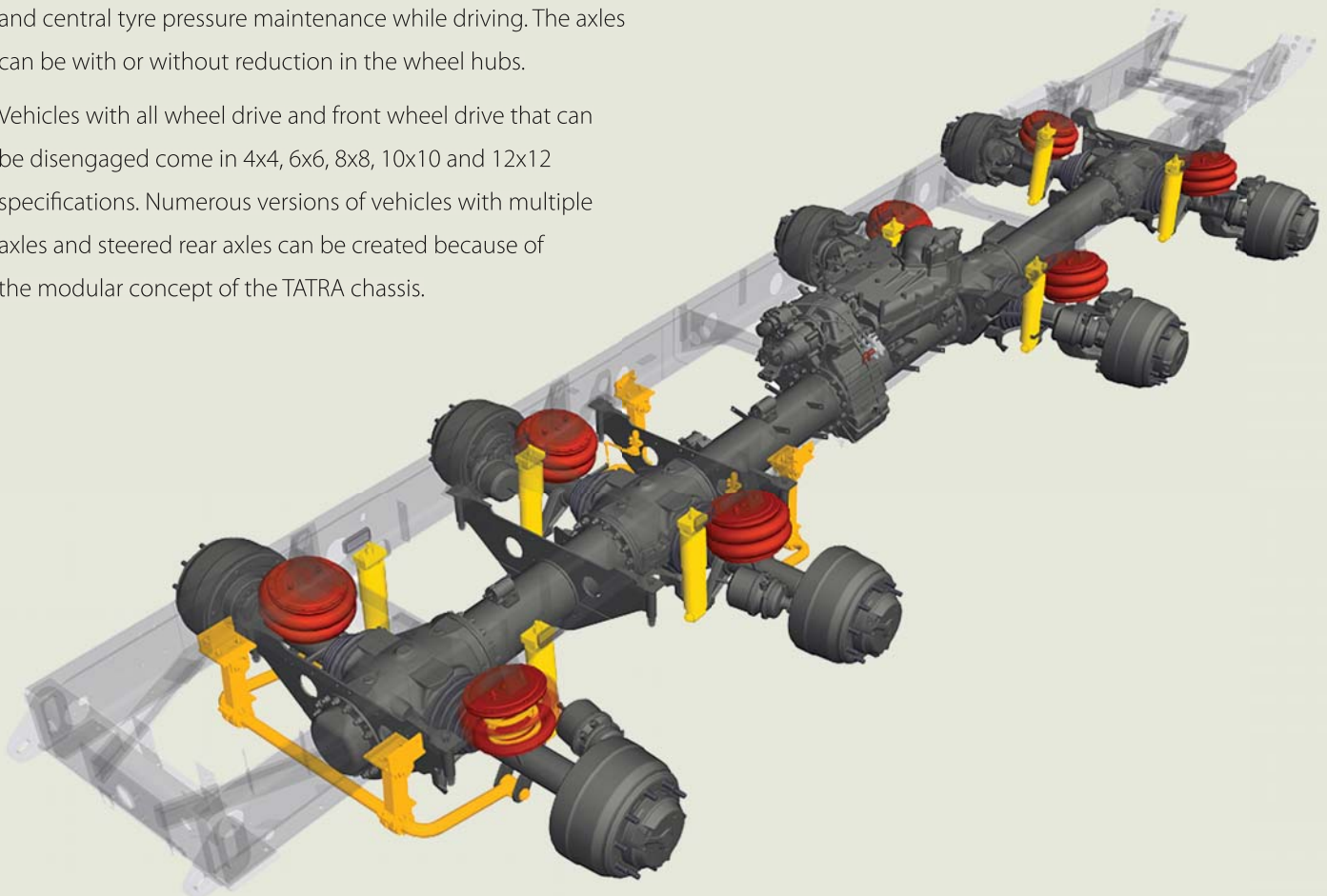
Axles:

The driving mechanism used in T 815-7 vehicles is based on the traditional "Tatra concept" comprising a central tube and swing half-axes with independent suspension, lockable differentials and central tyre pressure maintenance while driving. The axles can be with or without reduction in the wheel hubs.

Vehicles with all wheel drive and front wheel drive that can be disengaged come in 4x4, 6x6, 8x8, 10x10 and 12x12 specifications. Numerous versions of vehicles with multiple axles and steered rear axles can be created because of the modular concept of the TATRA chassis.

Axle suspension:

The front and rear axles have identical suspension with air bellows under the frame supplemented by hydraulic dampers and torsion stabilisers, if required.



Ground clearance regulation:

The vehicle's ground clearance can be increased or reduced using the pneumatic suspension on all axles. This makes it easy to carry the vehicles in Hercules C-130 aircraft and helps transport by rail, negotiating extremely difficult terrains and passing under low bridges or tunnels. The ground clearance can be regulated by a cabin switch while the vehicle is in motion. The clearance can be reduced by 105 mm or increased by 90 mm while driving.

Cabin:

The all-metal foldable cabin is available in three versions:

- Two-door for 2÷4 people
- Extended two-door with a bed
- Four-door for up to 8 people

The driver and the passenger seat, if fitted, is an unsprung adjustable seat with a 3-point seatbelt and an adjustable headrest.

Low cabin structure so that the vehicle can be transported in the C-130 Hercules aircraft.

The cabin and the vehicle itself have been designed so that various levels of additional armour plating protection, including the windows, can be added. The standard cabin does not have armour plating but is ready for it to be installed. The required additional armour plating can be ordered and installed when needed. The armour plating can be removed at any time.

Brakes:

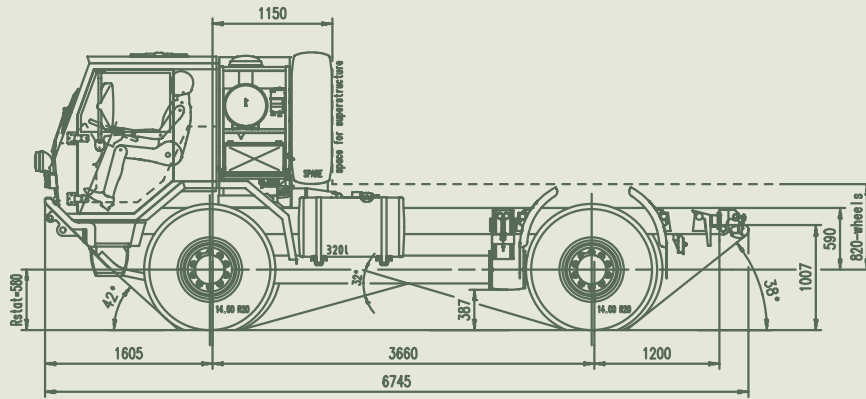
Drum brakes with a PERROT brake expander, automatic brake shoe adjustment, ABS anti-lock braking system and AZR automatic load regulation. The braking system is fitted with noise dampeners.

Service brake – dual circuit, overpressure braking system on all wheels. **Emergency brake** – spring braking system on both rear axle wheels with a link to the trailer brake. **Parking brake** – spring braking system on both rear axle wheels. **Continuous service retarder** – engine braking.

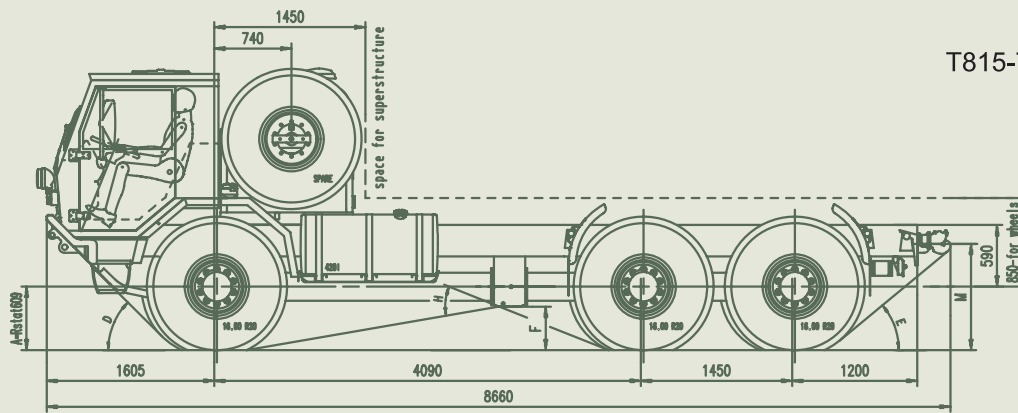


- The roof is designed for multiple versions with hatches, observation and gun turrets and preparation for a gun carriage;
- Integrated heater with optional air conditioning;
- An independent heater can be installed as an option;
- The cabin is perfectly sealed for NBC pressurised filtered ventilation use;
- The cabin design meets the valid legislation requirements (field of vision, action radius, external protrusions and edges)
- Universal cabin skeleton for both left-hand and right-hand steering.

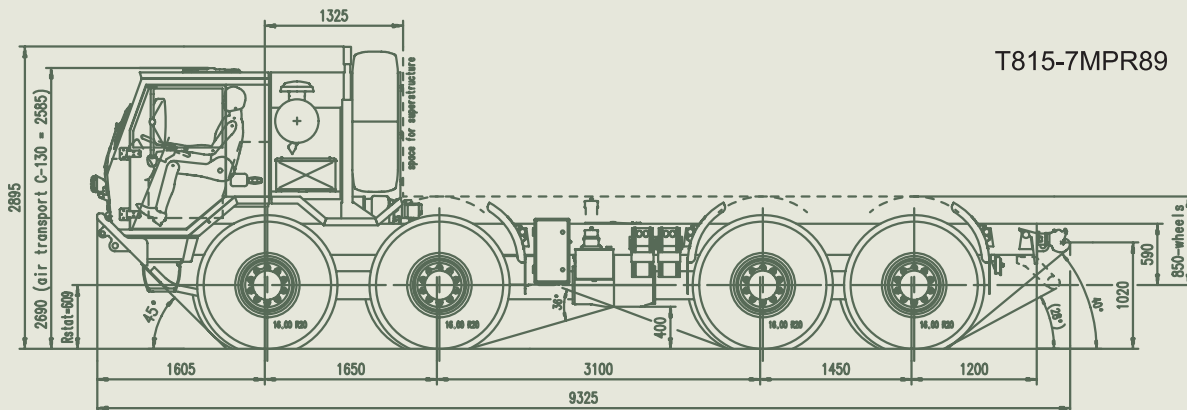
T815-7 - product range



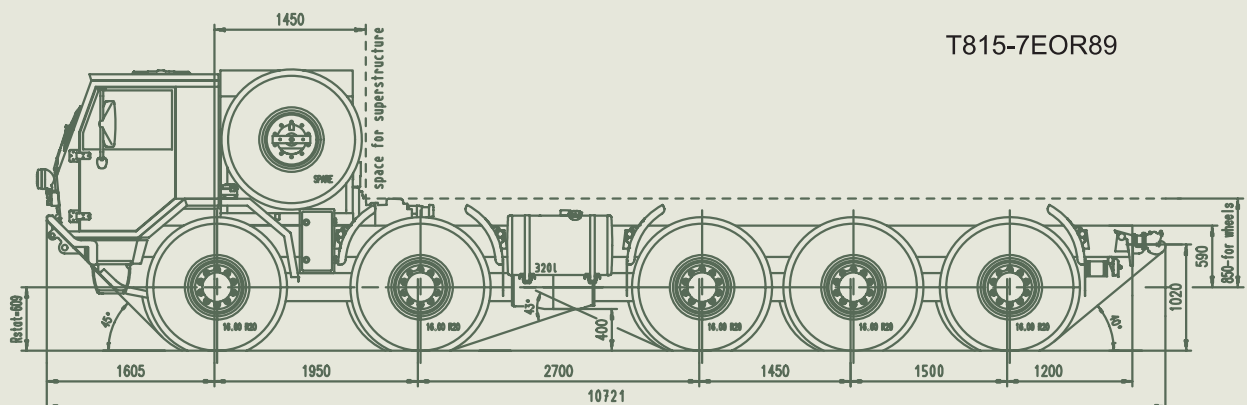
T815-7LOR42



T815-78OR89



T815-7MPR89



T815-7EOR89



TATRA, a. s.

Štefánikova 1163

742 21 Kopřivnice

Czech Republic

Tel.: + 420 556 49 48 42

Fax: + 420 556 49 29 59

E-mail: army@terex-tatra.com, ou@terex-tatra.com

www.terex-tatra.com

April 2006, the manufacturer reserves the right to make changes.