



## **PERFORMANCE & DATA SHEETS**

TATRA MILITARY AND SPECIAL-PURPOSE VEHICLES

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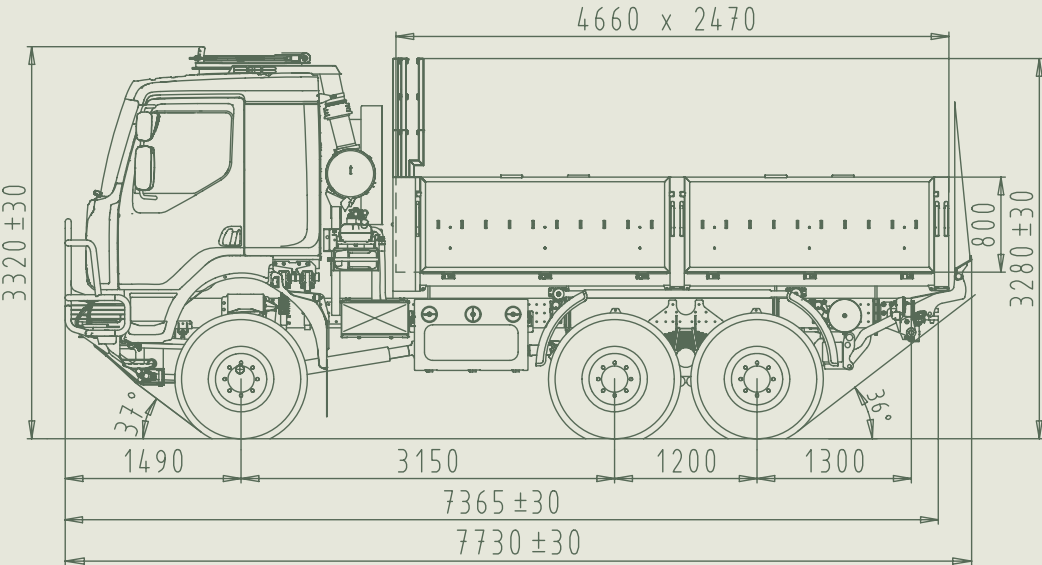
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# T 810-1R0R26 13 177 6x6.1R



## 6x6 CARGO TRUCK WITH CARGOLIFT PLATFORM



The TATRA 4x4 fuel filler designed for rough terrain, difficult climatic and environment conditions. Due to its specific design features, this truck is particularly suitable for expeditionary forces and for deployment overseas.

The vehicle can be used for refuelling of vehicles, special military vehicles and other machines and equipment by diesel or gasoline. Design and equipment according international standard for transporting of danger liquid – ADR – code LGBF and other STANAG standards.

Aluminium alloy tank body, special design with one crossing baffle. One chamber, geometrical volume 6 060 l, pump output 40 – 500 l/min. Four hose reels hydraulically powered.

Equipment for discharging and loading: • Pump with flow from 60 to 500 lt/min • 4 hydraulic aluminium alloy drums with 15 m long hoses, DN 5/4" • automatic switch-off pistol DN 5/4" with tapping valve • mechanical counter with mechanical printer – maximum discharge capacity up to 500 l/min. • two bottom loading/ discharge outlets, DN 2" and DN 3"

Filling/discharging abilities: • bottom and top loading • discharge through gauge with counter for all hoses wound on drums • direct pumping between two tanks, from one tank to other one without using tank on the truck • self filling

Air springs all-round, along with the independent wheel suspension, care for low vertical vibration, and thus provide high ride comfort, enabling also fast drive in rough terrain.

• C-130 transportable • Adjustable vehicle height and clearance • All-wheel drive • Differential locks • CTIS operated on the fly • Optional add-on armoring kits to be implemented by the end-user when needed

### ENGINE TATRA T3C-928-81 EURO 3

Air cooled, four stroke turbo-charged and charge-air-cooled direct injection Diesel.

|                     |                    |
|---------------------|--------------------|
| Number of cylinders | 8                  |
| Bore/stroke         | 120/140 mm         |
| Displacement        | 12.7 ltrs          |
| Power output        | 270 kW/1,800 RPM   |
| Max. torque         | 1,850 Nm/1,000 RPM |

### CLUTCH

MFZ 1x430, single plate, with diaphragm spring. Hydraulic control with pneumatic booster.

### TRANSMISSION - TATRA 14 TS 210L

|                   |           |    |
|-------------------|-----------|----|
| Number of speeds: | - forward | 14 |
|                   | - reverse | 2  |

Semiautomatic split. Except of the crawler and reverse gears, all gears are synchromeshed.

### TRANSFER BOX

Type TATRA 2.30 TRS 1.85 (0.8). Speed reducing. Pneumatic control.

### FRONT AXLE

TATRA steered and driven swing half-axle with independent wheel suspension, axle differential lock and front drive disconnect. Wheel hub reductions.

Air springs and telescopic shock absorbers, swing bar.

### REAR AXLE

TATRA driven swing half-axle with independent wheel suspension, axle differential lock. Wheel hub reductions. Air springs and telescopic shock absorbers. Swing bar.

### STEERING

Left/right hand drive, integral power steering.

### BRAKES

Wedge type self-adjustable drum brake units, ABS.

Four separate brake systems: service, emergency, parking, and engine brake.

### WHEELS

Single tactical tyres on all axles with CTIS.

|                                |            |
|--------------------------------|------------|
| Rims                           | 20 -10.00V |
| Tyres                          | 16.00 R20  |
| Beadlocks, run-flats as option |            |

### CAB

COE type, forward tilting, all-steel, two doors, driver's adjustable seat with safety belt, firm 3 seats with safety belts, flat 2-piece windscreen, right-left design, roof manhole. Rifle racks, sun visors, HVAC unit. C-130 transportable. Add-on armoring.

### ELECTRIC EQUIPMENT

|                 |                |
|-----------------|----------------|
| Nominal voltage | 24 V           |
| Batteries       | 2x 12V, 170 Ah |
| Alternator      | 80 A/28 V      |

### DIMENSIONS

|   |          |
|---|----------|
| Width   | 2,500 mm |
| Track - front/rear  | 2,072 mm |
| Clearance   | 380 mm   |
| Clearance can be temporarily raised/lowered by suspension on the fly. |          |

### WEIGHTS

|                                |           |
|--------------------------------|-----------|
| Curb weight (w/ armoured cab)  | 12,800 kg |
| Payload max. (5,300 l of fuel) | 4,500 kg  |
| GVW                            | 17,300 kg |
| Rated GVW                      | 19,000 kg |

### PERFORMANCE

|  |              |
|--|--------------|
| Top speed                              | 110 km/h     |
| Gradeability at GVW (calculated)       | 100 %        |
| Side slope                             | 45%          |
| Turning circle diameter (curb to curb) | 18.5 ± 1 m   |
| Fording capability                     | 1,500 mm     |
| Crossing ability - trench width        | 900 mm       |
| Fuel tank                              | 320 ltrs     |
| Cruising range (on road)               | 900 km       |
| Climbing ability - vertical step       | 500 mm       |
| Operating ambient temperature          | -32°C ÷ 49°C |

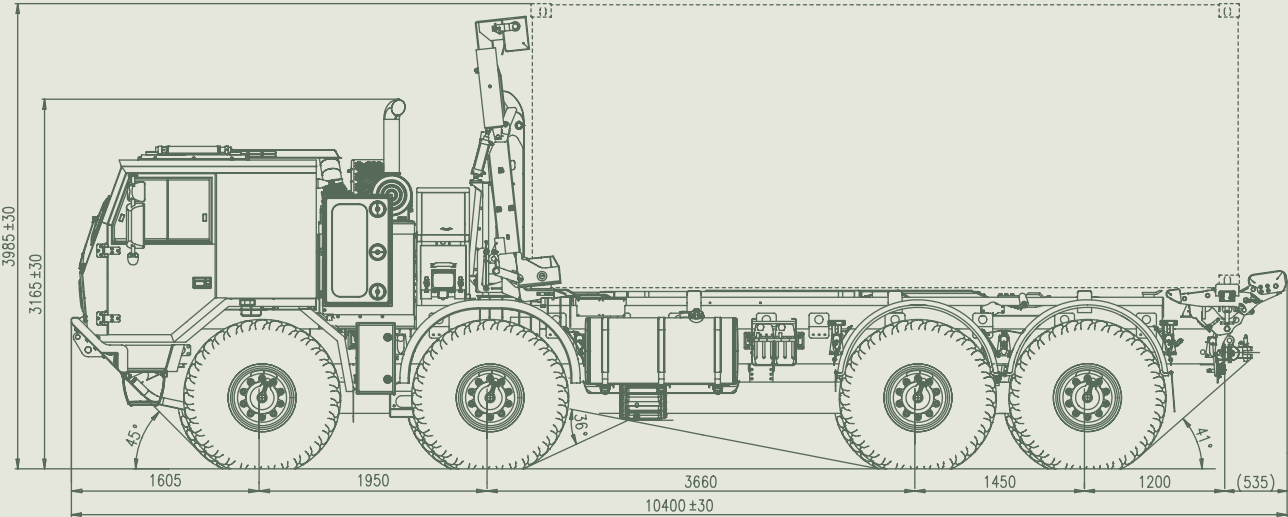
### EQUIPMENT

Two 6kg fire extinguishers in plastic boxes, hydraulic circuit including pump and hydraulic reservoir, rear door with lock, two cases for hoses, working light in rear technology part, grounding cable.

# T 815-790R99 38 300 8x8.1R



## 8x8 HMHD CHASSIS CAB WITH LOAD HANDLING SYSTEM



The TATRA T815- 6MWR8T 12x12 special off-road chassis has been designed to carry special superstructures in extreme terrain and climatic conditions - up to +50 deg C ambient temperatures. The 12x12 all-wheel drive chassis employs the unique features of the TATRA-concept chassis, which has excellent ability to negotiate difficult terrains. The unique system of TATRA chassis, composed of central backbone tube and independent swing half-axes, is extremely resistant against torsion and bending and makes it possible to negotiate difficult terrain and rough surfaces at higher speeds and with better ride comfort than conventional chassis. The backbone tube also covers all parts and components of the driveline and in this way protects them from impacts and damage. 6-speed fully automatic electronically-controlled transmission is incorporated directly into the backbone tube and forms an integral part of the chassis structure. This design makes it possible that the transmission works also as a transfer box, so no transfer box is needed. Permanent drive of 4 axles, additional 2 axles can be connected in rough terrain. All differentials lockable. Two front and two rear axles steer able. Semi-automatic TATRA CTIS is standard equipment operated on the move.

### ENGINE

Water-cooled, four-stroke turbocharged and charge-air-cooled direct injection Diesel

|                                     |                             |
|-------------------------------------|-----------------------------|
| Make                                | CUMMINS Engine Company Ltd. |
| Model                               | ISM 440E                    |
| Number and arrangement of cylinders | 6 in line                   |
| Bore/stroke                         | 125/147 mm                  |
| Displacement                        | 10.8 ltrs                   |
| Max. power output                   | 324 kW/1,800 RPM            |
| Max. torque                         | 2,100 Nm/1,200 RPM          |

### TORQUE CONVERTER

|       |              |
|-------|--------------|
| Make  | Twin Disc    |
| Model | 8-FLW-1754-1 |

Equipped with lock-up clutch and 2 PTO's.

### TRANSMISSION

|       |           |
|-------|-----------|
| Make  | Twin Disc |
| Model | TD61-1177 |

Electronically controlled, fully automatic.  
Integrated into the chassis backbone tube

|                  |           |   |
|------------------|-----------|---|
| Number of speeds | - forward | 6 |
|                  | - reverse | 1 |

Limp-home function, shift-and-fault indicator.  
Eliminates transfer box.  
Lockable front/rear torque divider integrated.

### AXLES AND SUSPENSION

Independent suspension with swinging half-axes, integrated into the chassis backbone tube. All axles equipped with leaf springs and rubber limiters. Two front and two rear axles equipped with hydraulic shock absorbers.

### STEERING

Left-hand drive, hydraulic power-assisted. Two front and two rear axles steerable.  
Two independent circuits with emergency steering pump.

### BRAKE SYSTEM

Drum brakes with wedge-type actuator, and self-adjustment feature.  
Load sensing brake control at rear axles connected to the air springs.  
ABS with switch-off feature for rough terrain driving conditions.  
Service brake - pressure-air, dual-circuit, acting on wheels of all axles.  
Emergency brake - spring-type, acting on wheels of two middle axles.  
Parking brake - spring-type, acting on wheels of two middle axles.  
Auxiliary brake - engine compression brake type Jacobs.  
Trailer coupling for service, emergency and parking brakes.

### WHEELS

Single tyres on all axles, with semi-automatically controlled CTIS.

|       |             |
|-------|-------------|
| Rims  | 20 -10.00 V |
| Tyres | 16.00 R20   |

Bead locks

### CAB

Cab-over-engine type, all-metal TATRA two-door cab with bent windscreen and manhole in the roof. 2 full-size seats +1 emergency seat located at engine cover. Manual, hydraulically operated cab tilt. Cab heater, A/C, NBC protection kit.

### ELECTRIC EQUIPMENT

|                 |                  |
|-----------------|------------------|
| Nominal voltage | 24 V             |
| Ground pole     | negative         |
| Alternator      | 28 V/70 A        |
| Batteries       | 2 x 12 V, 180 Ah |

### DIMENSIONS

|                  |                                  |
|------------------|----------------------------------|
| Width (max.)     | 2,500 mm                         |
| Length           | 14,030 mm                        |
| Height (max.)    | 3,100 mm                         |
| Wheelbase        | 1,650+5,000+1,450+2,110+1,650 mm |
| Track            | - front 2,074 mm                 |
|                  | - rear 2,074 mm                  |
| Approach angle   | 39°                              |
| Ground clearance | 390 mm                           |

### WEIGHTS

|             |           |
|-------------|-----------|
| Curb weight | 18,440 kg |
| Payload     | 33,560 kg |
| GVW         | 52,000 kg |

### PERFORMANCE

|  |               |
|--|---------------|
| Max. speed                             | 81 km/h       |
| Gradability                            | 85%           |
| Side slope                             | 30°           |
| Crossing ability - trench width        | 2,000 mm      |
| Climbing ability - vertical step       | 600 mm        |
| Fordability                            | 1,250 mm      |
| Turning circle diameter (curb to curb) | 34.2 m        |
| Fuel tank capacity                     | 570 ltrs      |
| Cruising range - on road               | cca 500 km    |
| Operating temperature                  | -30 to +50 °C |



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