T 810-1R3R32 6×6.1R

6×6 SHELTER CARRIER

A medium class all-wheel-drive (6×6) off-road logistic truck that, unlike other TATRA trucks and chassis-cabs, is based on the standard chassis concept - rigid portal axles and a ladder frame. The truck was developed according to specifications given by the Czech Army for a replacement of their aging fleet of medium trucks. As it was required, this high mobility off-road truck has been designed at the borderline of medium and heavy truck classes (N2/N3) and is designated for transporting superstructures up to 5.7 t, and also for towing of trailers on both paved and unpaved roads, as well as in difficult off-road conditions. The chassis with 6.5 t capacity portal axles and bolted ladder frame can carry special superstructures, bodies, shelters or standard containers. Central tyre inflation system operating on the fly is a standard feature. The 3-seat cab has an HVAC unit. The 177 kW 6-cylinder in-line Renault engine meets Euro 3 emission standards.
T 810-1R3R32 6x6 1R

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ENGINE
Water-cooled, four-stroke turbocharged and charge-air-cooled direct injection, diesel, EURO 3.
Model RENAULT Dxi7 240-EC01
Number and arrangement of cylinders 6 in line
Bore/stroke 108/130 mm
Swept volume 7145 ltrs
Max. power output 177 kW/2,300 RPM
Max. torque 920 Nm/1,200-1,700 RPM

CLUTCH
SAE2, 395 mm diameter, single plate, with diaphragm spring. Hydraulic control with a pneumatic booster.

TRANSMISSION
Model ZF ECOLITE 6S 1000 W0
Number of speeds - forward/ reverse 6/1
Semiautomatic split. Except of the reverse gear, all gears are synchronmeshed. PTO output.

TRANSFER BOX
Model ZF STEYR VG 750/270
Dual speed with torque divider.

FRONT AXLE
TATRA, steered, rigid, portal with hub reductions and side differential lock.
Sprung by coil springs and telescopic shock absorbers, sway bar.

REAR AXLES
TATRA, rigid, portal with hub reductions, axle and interaxle differential locks. Sprung by leaf springs.

STEERING
Left-hand drive, integral power assisted.

BREAKING SYSTEM
Dual circuit, pressure-air; disc brakes with ABS, air dryer.
Service brake - dual circuit-pressure-air brake acting on wheels of all axles.
Emergency brake - spring type, acting on wheels of rear axles.
Parking brake - spring type, acting on wheels of rear axles.
Auxiliary brake - engine brake, flap type exhaust brake.

WHEELS
Single tyres on all axles, with CTIS operating on the fly.
Rims 20-11
Tyres 365/80 R20

CAB
Cab-over-engine type, all-steel, manual hydraulically assisted tilt. 1+2 seats, sprung fully adjustable driver’s seat with seat belt, firm double co-driver’s seat with seat belts. HVAC unit.

WEIGHTS
Curb weight 10,150 kg
Payload max. 2,850 kg
GVW max. 13,000 kg
Trailer 12,000 kg
GCW max. 25,000 kg

ELECTRIC EQUIPMENT
Nominal voltage 24 V
Alternator 28 V/100 A
Batteries 2x12 V/180 A
Main switch
Black out light and convoy light system

WINCH
Hydraulic winch (optional equipment)
Pulling force 78 kN
Rope length 60 m
Front/ rear rope output direction

EQUIPMENT
Basic tools
Fuel tank capacity 320 ltrs
Trailer hitch, pin dia 76 mm

PERFORMANCE
Max. speed 106 km/h
Max. grade at GVW 100 %
Side slope at CW 39 °
Turning circle diameter (curb to curb) 16.5±1 m
Climbing ability - vertical step 600 mm
Crossing ability - trench width 900 mm
Fording capability 1,200 mm
Cruising range (on road) cca 800 km
Operating temperature -25 to +49 °C

SHELTER
Suitable for C4I (command, control, communication, computer and intelligence/ information systems).
Inner working place for four people.
Hermetic shelter is firmly connected with chassis, roof with cut corners to comply with railway-tunnel profile, four roof windows 500×500 mm, roof ventilating open 600×600 mm, antiskid floor.
Equipment - independent heater; air conditioning; electrical system 127V/220V/380V/60Hz and 24 V; electrical sockets; lighting; data/communication network; earth-wire; furniture - cabinets, desks, rolling chairs (3 pcs), foldable seats with seat belts (3 pcs); refrigerator 24 V
Dimensions - L × W × H = 4,860 × 2,460 × 2,057 mm