6×6 SEMITRAILER TRACTOR

The 6×6 semitrailer tractor of the TATRA PHOENIX family is the so-called commercial off-the-shelf (COTS) product; it is a vehicle just with a few modifications to its serial civilian version, designed to be operated on public roads and for off-road operation, especially in rough terrain conditions. A big advantage of the TATRA PHOENIX range trucks is their reliability and efficiency in the off-road environment.

The new range of TATRA PHOENIX vehicles intended for defence and military segment is particularly suitable to be operated as a logistic and administrative support under tough terrain conditions.

It is still the same TATRA vehicle concept, i.e. a rigid backbone-tube frame and independently suspended half-axles, and its well-known advantages over competitors such as high off-road speed, driving comfort and vehicle stability. The suspension system is the same as of the T815-7 family of special military vehicles, therefore driving comfort and performance are at a comparable level.
ENGINE
Water cooled, four stroke, turbocharged, aftercooled, direct injection diesel, electronically controlled.
Model: PACCAR MX300 EURO 3
Numbers of cylinders: 6 in-line
Bore/stroke: 130/162 mm
Displacement: 12 900 cm³
Max. power output: 300 kW (408 bhp)/1,500 - 1,900 RPM
Max. torque: 2,000 Nm/1,000 - 1,410 RPM
Note: EURO 5 optional.

TRANSMISSION
Model: ZF 16S 2230 TO
Manual, no. of gears forward/reverse: 16/2

TRANSFER CASE
Model: TATRA 2.30 TRK 0.76/1.44
Two-speed, shifted at halt.

FRONT AXLE
Steered, driven with swinging half-axles, disengaging front-drive, axle differential lock, wheel hub reductions. Air springs and telescopic shock absorbers, sway bar.

REAR AXLES
Driven, with swinging half-axles, axle differential locks and inter-axle differential lock, wheel hub reductions. Combined suspension of air springs and coil springs, telescopic shock absorbers, sway bar.

STEERING
Left hand drive, integral power steering.

BRAKE SYSTEM
Drum brakes, pneumatically assisted, wedge type self-adjustable brake units, EBS.
Four separate brake systems: service, emergency, parking and engine brake.
MX Engine Brake and Transmission retarder.

WHEELS
Tyres: 325/95 R24 TL, dual mounting
Discs: 8.5

CAB
Forward control cab, middle cab, tilted manually, 2 adjustable seats with safety belts. HVAC unit, roof hatch, two bunks.

DIMENSIONS
Overall width: 2,550 mm
Wheel track - front/rear: 1,984/1,780 mm
Ground clearance: 340 mm

WEIGHTS
Curb weight: 11,630 kg
Fifth wheel load: 29,370 kg
Gross vehicle weight (max.): 41,000 kg
Front axle capacity: 9,000 kg
Rear axles capacity: 2×16,000 kg
Max. gross combination weight: 110,000 kg

ELECTRIC EQUIPMENT
Circuit voltage: 24V, negative pole grounded
Battery: 2×12 V, 180 Ah
Alternator: 28 V/80A

FUEL TANK
Capacity: 340 l

PERFORMANCE
Max. speed with speed limiter: 85 km/h
Grade ability at 41t GVW (calculated): 100 %
Grade ability at 110t GCW (calculated): 31 %
Turning circle diameter (curb to curb): 17.5±1 m
Fording capability: 800 mm
Operating temperature: -18 to +50 °C

EQUIPMENT
Fifth wheel ORLANDI 3,5"
Driver’s tools for maintenance and common repairs.
2kg ABC fire extinguisher, jack, 2 wheel chocks.