

TECHNICAL SPECIFICATION

HEAVY DUTY 3-AXLE FUEL-TANK SEMI-TRAILER

TYPE: TSA 40 SD

Volume: approx. 40 000 ltr +3% expansion

Weights

approx.	42 500 kg
approx.	13 500 kg
approx.	56 000 kg
approx.	36 000 kg
approx.	20 000 kg
	approx. approx. approx.

Dimensions

Total length	approx.	12 500 mm
Total width	approx.	2 550 mm
Total height	approx.	3 700 mm
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5th wheel height* approx. 1 415 mm – matching to 6x4

All data mentioned above, are approximations. Depending on additional options and accessories as well as the selected tractor unit, deviations are possible.

Chassis

Heavy duty reinforced TSA 40 SD chassis with reinforced axles.

The tank's framework consists of two fabricated steel beams of high-quality steel. The two beams are fully welded all over their length on the tank. The beams are strongly connected with the cross members supporting the suspension and the kingpin upper coupler.

Upper coupler plate with JOST 3 ½" king pin Skid plate bolted on frame.

^{*} unloaded

Running gear

3-axle, BPW capacity 12 T each in heavy-duty execution, with special shock absorbers and reinforced hangers with additional arrester cable to withstand heavy-duty operation

All axles with ASA (automatic slack adjuster), ECO-Hub system 420 mm brake drums, with S-cam.

Air-suspension

Air suspension type WABCO, with levelling system, load divider, including lifting and lowering device

1st and 3rd axle as lifting axles

Wheel and tyres

Units : Twin mounted tyres 12 + 1 complete spare wheel included

Wheel type : Disc-wheel, type 9,00x22,5

Tires : 315/80R22,5

Brand : First class European brand, approved for off road operation.

Mudguards

Heavy duty mudguards made of PVC with rubber mud-flaps. Side-guard made of aluminium mounted between landing gear and 1st axle

Landing legs

Two (2) speed landing gear, with large pad feet, one-side operation, 24 tons total lifting capacity and 50 tons static.

Brake

Two-line compressed air brake system with mechanically operated brake pressure regulator and release valve, diaphragm-brake-cylinder.

EBS brake system installed with integrated load depending brake-valve according EU regulations

Two (2) air couplings ISO 1728 without connection hoses

Connections mounted on the front bearer.

Electric system

System voltage : 24 Volt, acc. to RL 76/756/EWG

Coupling : 15 poles

Rear light system : Two (2) 6 chamber lights for 24 Volt, protected in rear

bumper with steel protection

Side-marking lights: Four (4) mounted on each side, 24 Volt

Position lights : Two (2) at the front, 24 Volt Reflectors : Two (2) triangles at rear

Additional LED rear stop-, tail- and indicator lights are mounted on the upper part of the rear tank body.

All cables fixed with protection, either in steel tubes or PVC hoses

Tank body

Tank shape: Elliptical Compartment: Four (4)

10 000 ltr / 10 000 ltr / 10 000 ltr / 10 000 ltr

Total volume: Approx. 40 000 ltr. + 3% expansion

Manufactured of thick high-grade steel –S235JRG2-, thickness min. 4 mm electrically welded throughout with accurately finished welding seams. Dished bulkheads on both sides and appropriate nos. of splash walls. The splash walls are mounted not less than 900 mm and not more than 1750 mm between each other *according ADR*.

Dome-pan

Overflow protection welded along the tank with drain pipe and shutoff cock at the rear and front. Drainage pipes leads downwards to the chassis

The dome pan is designed as an over-roll protection in order to protect the dome armatures.

Walkway

Open mesh walkway on the right-hand side of the manhole cover, with rear mounted access ladder.

One (1) collapsible handrail made of aluminum, operated manually, fixed as safety barrier, according UVV regulation along the dome-pan, right-hand side.

Operation of handrail next to access ladder.

Top fittings per compartment

One (1) according DIN EN 13094 certified dome-covers (ADR chapter 6.8.2.6), DN500, including 265 mm dia. hinged lid. Flame proofed safety vent valve (90mbar/10mbar) and pneumatic operated tipping valve DN 65.

Complete with one (1) dipstick each, increments 500 / 500 ltr.

Discharge fittings per compartment

At the lowest point of each compartment one (1) pneumatic bottom valve DN 100 with filling/discharge pipe DN 80.

For all four (4) compartments together, one (1) discharge leads to the right-hand side, ending with 4" MAPI coupler, sight-class and strainer, leading into armature box.

Bottom loading

Bottom loading via external pump, including all necessary valves and fittings. When reaching approx. 95% volume of the compartment, the overfill sensor activates a 3" pneumatic valve, which closes the filling pipe. Bottom loading via 4" MAPI coupling.

Armature box

Right hand side between the landing gear and 1st axle one (1) armature box mounted with discharge outlets, 4" MAPI coupling and pneumatic operations.

Delivery options

- discharge by gravity via 4" MAPI coupling
- bottom loading via 4" MAPI coupling
- filling from top

Hose and hose-carrier

Two (2) galvanised, painted and lockable hose-tubes, one (1) on each side of the tank with two (2) hoses.

Hose type: NW 80 with 3" Cam-lock coupling

Hose length: approx. 5,00 m

Standard accessories

One (1) spare wheel carrier mounted on main-frame

PVC mudguards with rubber mud-flaps

One (1) lockable tool box, mounted on chassis frame

Four (4) each earthling pieces welded on each site of the chassis

Two (2) fire extinguishers 6 kg each

Two (2) wheels choke

Paintwork and finishing

Tank body: Sand blasted, base coated, synthetic enamel finish one (1) RAL-colour Chassis: Sand blasted, base coated, synthetic enamel finish one (1) RAL-colour Accessories partially galvanised

Additional signs

Yellow reflective safety line, 5cm wide, mounted on the side and rear of tank body. Three (3) warning boards according GGVSE/ADR Speed limit disk

Acceptance test

Leakage testing of tank, 0,35bar, according ADR Functional test according ADR Material certificate according ADR

Documentation

One (1) spare part list and one (1) operating manual All instruction plagues, lists, manuals and signs in English/French.