

**SCHMITZ DIESEL Tank Semi-Trailer 10'000 US gallon,
Type STA 27/L 10000-SK-D**



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T E C H N I C A L S P E C I F I C A T I O N
HEAVY DUTY 3-AXLE DIESEL TANK SEMI-TRAILER
TYPE: STA 27/L 10000-SK-D

Volume: approx. 10'000 US gal

WEIGHTS:

fifth wheel load	approx.	20'000 kg
axle load	approx.	27'000 kg
total gross weight	approx.	47'000 kg
dead weight	approx.	9'000 kg

DIMENSIONS:

total length	approx.	11'700 mm
total width	approx.	2'550 mm
total height	approx.	3'650 mm
5 th wheel height*	approx.	1'360 – 1'480 mm – matching to 6x4
* unloaded steers)		(twin

CHASSIS:

Heavy duty reinforced STA 27/L chassis with reinforced air suspension with SAF / BPW axles. Welded frame construction, consisting of I-beams and sectional cross members with heavy duty underrun guard.

RUNNING GEAR AND AXLES:

Pneumatic aggregate in rigid and reinforced construction. Axles equipped with closed S-cam brakes, 420 x 180 mm, asbest free. 1st axle in autotrop lifting axle version.

Axles	:	3 x 9'000 kg	=	27'000 kg
Wheel base	:	2 x 1'310 mm		
spring centre	:	1'300 mm		
units	:	8 - 2 complete spare wheels included		
wheel type	:	disc-wheel		
dimension	:	11.75 x 22.5		
tyres	:	385/65 R 22.5		
brand	:	First class European brand		

KING PIN:

3 ½" SAE-king pin with one king pin position.

MUDGUARDS:

Heavy duty mudguards made of PVC with rubber mud-flaps.

LANDING GEARS:

Mechanical operation with extra large universal base plates, special wide sand plates, total capacity 25 tons. (as in Europe) Operation from one side for uncoupling of the loaded semi-trailer. Handle can be locked during transport.

BRAKES:

Load controlled two-line air brake system according to EC-norm RR EC 71/320, with automatic load sensing valve and hand brake acting on two axles, incl. ABS, type: 2S/2M.

ABS standard connection, ISO 7638.

ELECTRICAL OUTFIT:

system voltage	:	24 Volt, acc. to RL 76/756/EWG
coupling	:	7 poles, incl. 1 parking position for 2 nd cable
rear light system	:	2 pairs of 3 chamber lights for 24 Volt
tracking lights	:	2, mounted on the rear bumper plate, 24 Volt
position lights	:	2 at the front, 24 Volt
reflectors	:	2 triangle at rear

TANK:

Tank shape: elliptical

Manufactured of thick high-grade steel –S235JRG2-, 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 to ADR.

- Tank compartments: 1 (one)

INNERLINING:

Special epoxy inner lining for the transport of JP-8 fuel.

DOME PAN:

Overflow protection welded to the tank with drain pipe and shutoff cock.

The dome pan is designed as an overall protection in order to protect the dome armatures.

WALKWAY:

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

TOP FITTINGS:

One 500 mm dia. manhole cover with 250 mm dia. hinged lid, complete with

One dipstick, increments; 250 ltr.

Flame proofed safety vent valve and pneumatic operated tipping valve DN 65.

One pneumatic / electronic operated level sensor for closing the bottom valve and shut off the external pump, acc. to VOC-regulation.

VAPOR RECOVERY:

Vapor recovery steel pipe DN 100 through the tank to right hand side of vehicle, located in armature box with 4" male camlock coupling.

DISCHARGE FITTINGS:

At the lowest point of the tank one pneumatic bottom valve with filling / discharge pipe, DN 100 leading into armature box on right hand side of the vehicle with 4" dry coupling according to API RP 1004, with sight glass and mechanical dry coupler.

From the pressure side of the pump, one pipe leads to the rear, left and right hand side of the vehicle ending with 2 ½ " male camlock coupling with blind cap.

BOTTOM LOADING SYSTEM:

Complete bottom loading system with scully-system on the right hand side of vehicle, acc. to VOC-regulation according to API RP 1004.

CONTROLL UNIT:

Four (3) emergency shut off switch are mounted as follows:

1 in each armature box

1 at left side of vehicle

1 at rear of vehicle

ARMATURE BOX:

One on right hand side mounted, with discharge outlets. It is equipped with vapour recovery couplings, bottom loading connections, discharge pipes from pump side and operating unit / air serving units and air control systems.

The box is additionally equipped with flow measuring device, indicating 500 ltr / min.

PUMP:

One self-sucking pump, for tank contents mounted to the chassis. Suction and delivery connections are provided with hose coupling and cap. Propulsion of the pump through autonomous diesel engine. The suction pipe is equipped with a suction filter.

Pump capacity: approx. 800 ltr./min.

HOSE REEL:

Spring loaded hose reel, connected to the pressure side of the pump / metering system.

It is equipped with a 12 mtr. discharge hose 1" and discharge nozzle, installed in a armature box.

DELIVERY OPTIONS:

- By gravity, unmeasured, via 4" dry coupling
- with pump, unmeasured, via 2 ½ " coupling to the rear, left and right side
- with pump, measured, via 2 ½" dry coupling to right hand side.
- with pump and hose reel, measured

HOSE CARRIERS / HOSES:

One hose tube on the left and right side, approx. 3 mtr. long.

- 2 x 2 ½ "-suction and pressure hose, approx. 3 mtr. long, fully connected, complete with camlock coupling

ELECTRIC SYSTEM:

Armature box is equipped with ex lightening, which is switched on / off when the doors will be opened / closed.

ADAPTERS:

- 1 x 2 ½ “ female to 4” male
- 1 x 2 ½ “ and 4” adapter for filling

GROUNDING REEL:

Grounding reel with 17 mtr. of wire and grounding glip.

STANDARD ACCESSORIES:

- 2 chock blocks with holder
- 2 heavy duty rubber rear buffer on underrun guard
- 3 units heavy duty spare wheel carriers, 2 x for semi trailer & 1 x for truck tractor with
tyres size: 315/80 R 22.5 or alternative 12.00 R 24
- 2 fire extinguisher, 6kg each
- 1 lockable toolbox
- 1 operating manual

ACCEPANCE TEST:

- leakage testing of tank 0,25 bar
- functional test

PAINTWORK AND FINISH:

- wheels in silver
- hubs KTL coated (jet black)
- landing gear: jet black
- chassis galvanized
- tank body in same colour as driver cab
- Signs on tanker: (flammable, Danger, No-smoking) in Arabic and English

Documentation

All instruction plates and signs in English.

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