



# Technical Specifications for 3 Axles Semi Trailer chassisless Fuel Tank 45,000 Ltr

## **1- Tank Capacity:**

Tank overall capacity is 45,000 liters approx. [ 45000 liters + 6 % expansion ].

## **2- No. of compartments:**

The tank is divided into 3 equal compartments each 15000 ltr in addition to expansion ratio.

## **3- Dimensions:**

Length of semi trailer tank is : 12.775 m approx..

Height of semi trailer tank is :

3.6 m approx. (for fifth wheel height 1.4m approx.) unladen

Overall width of semi trailer tank : 2.6 m approx.

## **4- Weights:**

G.V.W is 51.75 ton .

Dead weight of tank is 13.5 ton approx

Payload is 38.25 ton ( for density up to 0.85 ton/m<sup>3</sup>).

## **5- Load distribution:**

on first axle is 11.75 ton .

on second axle is 11.75 ton.

on third axle is 11.75 ton. .

on king pin load is 16.5 ton.

## **6- Tank body:**

The tank shell ( TV shape ) is produced from steel37 of 4 mm thickness and equipped with inside baffles of 4 mm thickness designed to permit the easy flow of fuel inside the tank and not to obstruct the tank cleaning operation . Both front and rear ends are made from steel37 of 5 mm thickness.The Tank is inside treated by Epoxy.

## **7- Manhole opening:**

- Each compartment is equipped with Aluminium manhole 560mm outside diameter cover fitted with bolts and nuts, internal safety valve built into the main hole .  
this manhole is provided with security seal , double locking mechanism to open such a 250 mm manlid.



### **8- Discharge:**

The tank is **top loading** through manholes and discharged by gravity through manually operated ball valves 4" , located into a lockable discharged box (at one side of tank).

Each compartment is equipped with a lower valves 4" .

### **\*Note that manhole is to be opened during discharging of tank**

### **9- Upper basin:**

The tank is equipped with upper basin which is equipped with two rear drain tubes that cross the tank. This basin is higher than all equipment at top of tank while it is closed..

### **10- Walkway:**

The tank is equipped with upper walkway manufactured from stretched steel sheet and equipped with steel walkwall .

### **11- Ladder:**

The tank is equipped with a front movable ladder to facilitate the arrival to manholes.

### **12- Side hose support:**

The tank is equipped with 2 side hose carriers ( without hoses).

### **13- Chassis:**

The chassis is of box shape at rear area only ( chassisless ) stiffened with cross members.

### **14- Axles and Suspension:**

- 3 axles .
- Suspension complete with hangers, equalizers & torque rods type VB.
- Leaf spring :Qty = 6

### **15- Landing gears:**

-Two landing gears mechanically actuated with flat pads

### **16-King pin:**

2 inch or 3.5 inch

### **17-Rims and Tires:**

12 disc rims + 1 spare  
12 tyres + 1 spare



**18- Brakes:**

Two line air brake system.

Mechanical parking brake manually operated

**19- Lighting system:**

24 volts complete with stop lights & reflectors.

**20- The semi trailer tank is equipped with:**

- 2 spare wheel carrier working by two spare wheel machine
- Tool box (without tools)
- Mud guards
- fire extenguish holder (without extenguish)
- Qty 2 brass bolt for earthing connection.
- Under protection guards at front and rear sides.

**21- Painting:**

- Exterior surface treatment by shot blasting.
- Painting by high solid primer directly on the surface
- Painting inside special paint booth with the cargo cabin color or the color chosen by the customer

**\* Note :**

This offer is for example but we can cover all the customer requirements.