

# TRUCK MOUNTED LPG TANKER

*Special For Danger*







curious **for better.**

## ***What curiosity means to us, A better future.***

The unique reason that the human “bring into being” is curiosity. Curiosity is the first “set a foot on the moon”. Because curiosity; to realize a better and more beautiful future, ask questions, try to understand, produce innovative solutions, explore and never give up. It always takes us a step further.

Our job is always to move your business “one step forward”. That’s why we’re curious. We recognize the needs of the trailer and superstructure equipment sector “before needs appearance” and produce innovative, user friendly and efficiency based products. We dominate the technologies that can go beyond your expectations. Due to our curiosity, we have changed the habits of the sector with every new project we made. We have broken grounds; but we have never been curious about being ahead only with the numbers.

The quality documents we have obtained being a catalyser that enable us to produce new technologies, make progress and be more curious. We curious not just about our sector, we curious about the whole world. For the nonce we are in 3 continents. We are constantly building strong values and collaborations for all of our stakeholders by producing special solutions for the needs of new geographies day by day.

Curiosity means to us not only innovation, engineering and technology. It means to us more beautiful and profitable day for the future.





## ■ LPG TANKER TRUCK MOUNTED

## Special For Danger

To carry all UN-Coded LPG substances in ADR Class-2 in the carriage of dangerous goods, suitable for flow and drainage, different pressure and temperature calculations, as well as pressure vessel steel quality and thickness determined according to our customers' technical requirements, suitable to ADR, EN 12493, 2010/35 / EC (TPED), AD 2000 Markblatter legislation and applicable geographical region, climate and road conditions and designed as the cylindrical section LPG Tanker Truck, we produce **"Special For Danger"**.



10 ~ 34 m<sup>3</sup>  
Volume Range



-40 ~ +50 °C  
Design Temperature



18 ~ 21 Bar  
Design Pressure



8 - 12 mm  
Material Thickness



P18BN P21BN  
Tank Code





### Precision Engineering

Required design and pressure calculations for filling, transporting and discharging operations of liquid petroleum gases are developed with precision engineering solutions.







### Modular Options

Specially designed alternative volume, discharge systems and hardware options solve your work.



## OUTSTANDING FEATURES



### Sun shield

Provides protection at high temperatures and reduces the pressure inside the body



### ADR type approved body

Provides full and secure inspection by the expert team in national and international current legislation compliance.



### Aluminium armature discharge box's cover

Light, without creating a risk of sparks, provides mobility and ergonomic handling even in the narrow area.



### Homogeneous paint application with advanced technical equipment

Provides surface gloss in varnish quality.





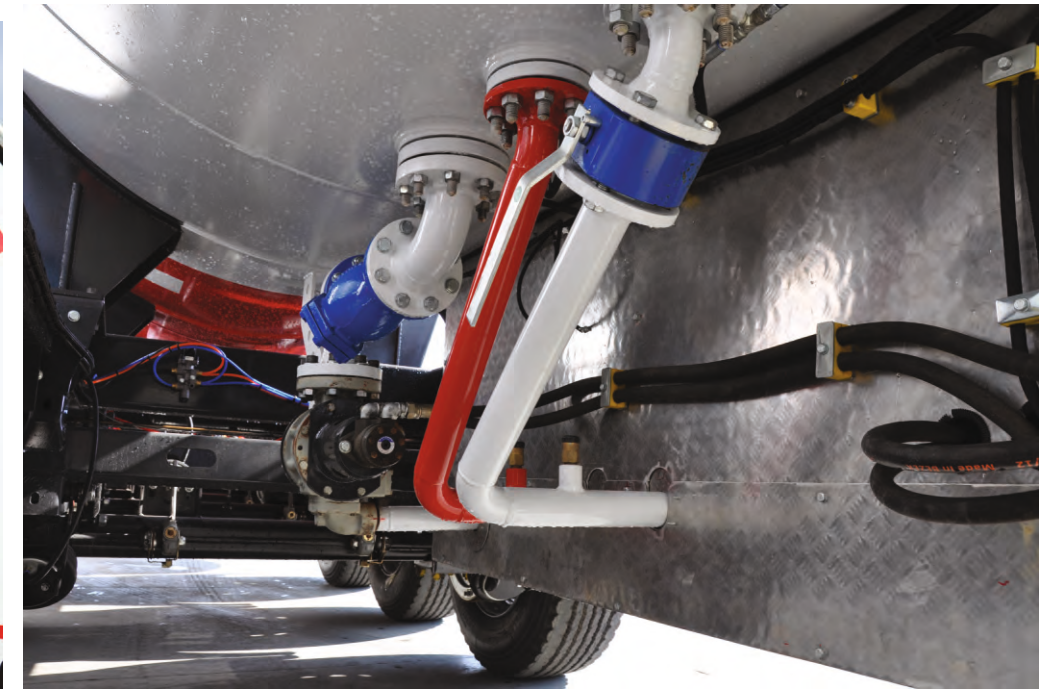
#### Seamless high performance Robotic welding technology

Minimizes welding faults on the body due to tension and human factors and secures against impact.

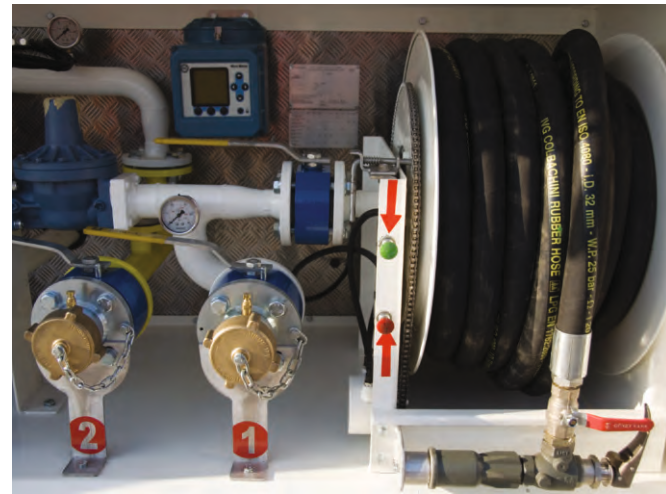
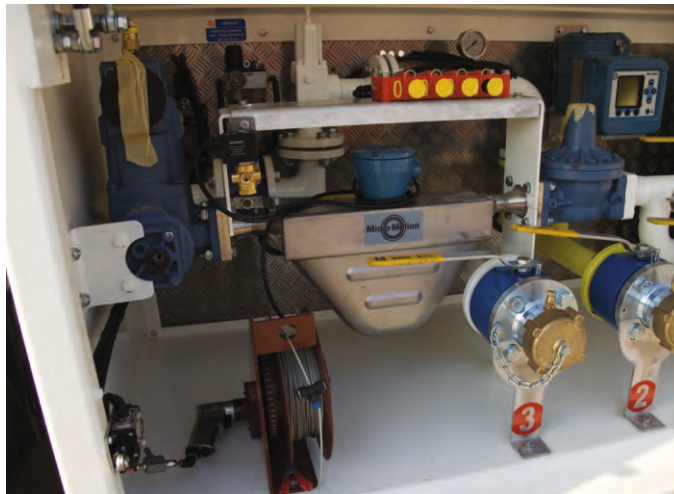


#### OMEGA mounting slots and bolted connection system on the chassis

Perfect fit between body and chassis under all kinds of road conditions, increase strength, reduce tension by distributing coming force to the body











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## 1. Dimensions

### Width

can vary depending on your choice.

## Height

## Dead Weight

#### 4. Chassis Equipment

## Mudguard

: Semi-circle rigid plastic fender mounted on each

wheel with aluminium clamp

## 2. Dead Weight

### Geometrical Volume

$$:10 \sim 34 \text{ m}^3 \ast$$

## Mudflaps

: Conform 109/2011/EU directive type approved

anti-spray mudflaps

### 3. Tank

## Lateral Protection

: Conforms ECE R73 regulation protection

**Tank Code**

: P18BN | P21BN \*

equipment (lateral protection etc.)

### Design Pressure

:18 bar | 21 bar \*

## Design Temperature

: -20°C +50°C | -40°C +50°C \*

## Tank Class

: Class 2

**Construction Material Serial**

: Pressure Vessel Steel

## Transported Materials

: LPG, Propan, Butan \*

## Certification

: ADR, EN 12493, 2010/35/AT (TPED),

AD 2000 MERKBLATTER \*



# TECHNICAL SPECIFICATIONS

## 5. Tank Body

- » Cylindrical section design conforming to EN 12493 design standard.
- » The pressure loaded body parts according to the EN12493 standard, high temperature steels according to EN 10028-2 standard (P ... GH) or at the fine-grained steels according to 10028-3 standard (P.N or P ... N ...), high strength, special "P" series of pressure vessel material.
- » Front and rear 1 each torispherical or ellipsoid dished heads, to inhibit fluid movement in the body and a half full transport (the gross volume of the tank to 20% of 80% of the use) FR to make 12,493 accordance with its design standards, driving direction is positioned perpendicular to the cross-type baffle.
- » ISO 3834 Welded manufacturing quality qualification approved.
- » Plates, bended according to the bending direction are joined by robotic welding technology in the form of longitudinal rings by circumferential welding to obtained a cylindrical body structure conforms to the EN 12493 design standard.
- » The emergency intervention manhole located in the horizontal axis which will provide full discharge in the tank in case of possible rollover.

## 6. Loading/Discharge Line

- » The loading/ unloading piping according to EN 10216-1 or EN 10217-1 standards or both.
- » Piping fitted to prevent damage due to thermal expansion and shrinkage, mechanical shock and vibration.
- » Closed circuit loading and discharging through ball valves in the armature discharge box.
- » Independent triple (bottom valve - loading/discharge valve - blind flange or cap) closing fitting for bottom loading or discharge distantness.
- » Emergency stop system connected to loading and discharge line.
- » The thermal expansion valves, arranged for evacuation at a pressure not above the design pressure of the tank, positioned in such a way that the liquid cannot be confined to the pressurized vessel and not placed in the lower quadrant of the horizontal piping.
- » ISO 3834 Welded production quality qualification approved, the patented paddles are welded, loading / discharging line extending from the bottom valves to the loading / discharging valves.

## 7. Subframe

- » Suitable for body design, rollover safety special design subframe made of steel material that can be adapted to bolt connection according to the manufacturer's superstructure installation instructions for all types of truck chassis.
- » OMEGA® monoblock connection saddles provide a rigid structure with excellent fit to the chassis mounting slots and increase strength.
- » The spring connections used in the front subframe connections of the tank reduce the tension by distributing the force coming to the body from the road conditions.
- » Chassis construction parts are manufactured in perfect harmony with synergic welding machines by certified welders under the approval of ISO 3834 Welded manufacturing quality qualification.

## 8. Paint

- » At least 2 coats of epoxy primer.
- » "OVEN-DRYING" application on topcoat with 2 coats of acrylic paint.
- » Improved technical equipment ensures homogeneous distribution on each side of the body and surface gloss of varnish paint gloss.



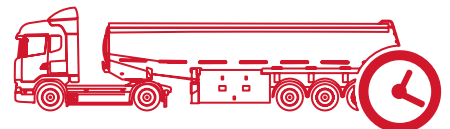
## Safe Lightness

We do not underestimate the weight!  
It is carried out the weight optimization under difficult conditions, with dynamic loads at high pressure, without compromising on the philosophy of safe lightness and ergonomics of use.





GALLERY



Performance Needs Source

Durable body structure, superior production technology and premium equipment, turn into the long lifetime to income.





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