

LPG/LNG Tank Trailer Truck Specification Sheet

LPG bullet tanks in Q370R steel and aluminium alloy 5083, and LNG and liquid nitrogen cryogenic vessels with vacuum multi-layer insulation.

20+	Years Manufacturing
40+	Countries Served
60,000+	Trailers Exported
420,000m2	Factory Area
200+	Trailer Models

Factory: Liangshan, Shandong, China. Sales: Huizhan West Road 88, High-tech Zone, Jinan City, Shandong, P.R. China
Email sales@sinoheng.com | WhatsApp +86 186 6378 6580

The Problem This Family Solves

LPG and LNG are not the same transport problem. One is a pressure vessel at ambient temperature; the other is a vacuum-insulated cryogenic tank at -160 degrees and below. Buying the wrong one is not a configuration mistake, it is a safety failure.

Core Advantages

- Q370R 11mm pressure vessel plate on LPG bullet tanks, not general structural steel
- Metal double-cylinder vacuum fibre insulation on every cryogenic build
- Aluminium alloy 5083, 5182 and 5454 tanks and aluminium main beams to recover payload
- Rear operation boxes grouping and protecting valves and instruments
- Vapour recovery, calibrated level gauges and specified relief valve settings available

Stainless LNG Liquid Natural Gas Cryogenic Storage Vessel

A stainless cryogenic vessel for liquefied natural gas, built on the metal double-cylinder vacuum fibre insulation structure that LNG transport requires: an inner vessel holding the cryogenic liquid, an outer shell, and a vacuum layer with fibre insulation between them. The rear carries an operation box where the valves and instruments are grouped and protected. The chassis runs three 13 ton FUWA axles on 10-piece leaf springs with a 50mm kingpin, two-speed manual heavy duty landing gear, Triangle 12R22.5 tires in 12 plus a spare on 9.0-22.5 rims, a 500mm manhole cover, 4 inch disc discharge valve and 4 inch seamless steel discharge pipe.

End Plate	Q235/6mm steel sheet
Discharge Valve	4 inch disc valve
Discharge Pipe	4 inch seamless steel tube
Manhole Cover	500mm
Axle	3 axles, FUWA brand axles 13 ton Leaf spring Leaf spring 10 pieces
Kingpin	50mm
Landing Gear	two-speed, manual operating ,heavy duty
Tire	Triangle brand 12R22.5 12+1
Rim	9.0-22.5 12+1 spare rim

Tool Box	1 piece, 1m x 0.5m x 0.5m,with some small gadgets
-----------------	---

Liquid Natural Gas LNG Tanker Three axles Semi-trailer China Factory Direct Sale

A three-axle LNG tanker with a 52.6 cubic metre S30408 stainless tank at 0.68MPa design pressure, on an aluminium alloy main beam that brings the curb weight down to 6 tonnes. That is a significant saving on a cryogenic trailer, where the vacuum insulation itself is heavy and the chassis usually eats into payload. The end plate is 6mm in 30408 or Q345R, braking is dual line pneumatic, the kingpin is an interchangeable 2 or 3.5 inch, landing gear is a 28 tonne two-speed manual unit, and suspension is leaf spring or air bag. A vapour recovery system is available as a customer option and the finish can be original aluminium or painted.

Type	LNG tanker semi-trailer
Design Pressure	0.68MPa
Curb Weight	6 tons Filling Medium LNG Welded joint coefficient 1 Volume 52.6CBM
Rim	12 units + 1
Suspension	Leaf spring or Air bag
Brake System	Dual line pneumatic
ABS	Main Beam Aluminum alloy
Tank Body	S30408
End Plate	6mm(30408\Q345R) Vapor Recovery System Customer Optional
King Pin	2" or 3.5" Interchangeable type
Landing Gear	28 Tons , Two speed manual operation
Painting	Original aluminium or painting as your requirement
Tool Box	One

LNG Cryogenic Liquid Natural Gas Storage Tank truck Semi-trailer

A cryogenic LNG tank trailer built with an aluminium alloy tank body in 5083, 5182 or 5454 alloy, which is the marine and cryogenic grade family chosen for low-temperature toughness and weight. The vessel uses the metal double-cylinder vacuum fibre insulation structure standard for LNG, with valves and instruments grouped in a rear operation box. The chassis carries three 13 ton FUWA axles on 10-piece leaf springs, a 50mm kingpin, two-speed manual heavy duty landing gear, Triangle 12R22.5 tires in 12 plus a spare, a 500mm manhole cover, 4 inch disc discharge valve and 4 inch seamless steel discharge pipe.

Tank Body	Aluminum Alloy 5083/5182/5454
End Plate	Q235/6mm steel sheet
Discharge Valve	4 inch disc valve
Discharge Pipe	4 inch seamless steel tube
Manhole Cover	500mm
Axle	3 axles, FUWA brand axles 13 ton Leaf spring Leaf spring 10 pieces
Kingpin	50mm
Landing Gear	two-speed, manual operating ,heavy duty
Tire	Triangle brand 12R22.5 12+1
Rim	9.0-22.5 12+1 spare rim
Tool Box	1 piece, 1m x 0.5m x 0.5m,with some small gadgets

Off Road LPG Liquefied Petroleum Gas Tanker Semi-trailer

An off-road cryogenic tanker with a 52600 litre capacity on a 13000x2500x3950mm chassis, rated at 40000kg total weight with 19830kg curb weight and 20170kg payload. The specification is built for deep cryogenic service: a design temperature of -196 degrees Celsius, 0.55MPa design and working pressure, a 06Cr19Ni10 stainless inner tank inside a 16MnR or Q345R shell, vacuum multi-layer insulation using aluminium foil and adiabatic paper, and a relief valve opening at 0.61MPa. The source specification lists liquefied natural gas as the applicable shipping medium. It runs three BPW 13 tonne axles, a steel mechanical damping system, pneumatic brakes, a 24V circuit and 12 plus 1 tires in 12R22.5.

Type	Off road LPG tanker semi-trailer
Curb Weight	(Kg) 19830
Payload	(Kg) 20170
Total Weight	40000
Dimensions	13000x2500x3950 capacity 52600 L
Unit Volume Filling Weight	0.38
Design Temperature	196
Design Pressure	0.55mpa
Applicable Shipping Medium	Liquefied natural gas(LNG)
Working Pressure	0.55mpa
Inside Tank Material	06Cr19Ni10
Tank Shell Material	16MnR/Q345R
Adiabatic Way	Vacuum \ multi-layer
Adiabatic Materials	Aluminum foil, adiabatic paper (Relief valve) opening pressure(Mpa) 0.61
Tire	(12R22.5) 12+1 set
King Pin	1 set Spare tire carrier 2 set Steel mechanical damping system 1 set Pneumatic
Brake System	1 set 24V circuit system 1 set

Large Capacity LNG Three Axles Semi Trailer Tank China Manufacturer

A large capacity tri-axle LNG tanker at 13000mm x 2500mm x 3500mm with a payload between 20001kg and 25000kg. The tank body is aluminium alloy in 5083, 5182 or 5454 with a Q235 6mm end plate, built on the metal double-cylinder vacuum fibre insulation structure that LNG requires, with an operation box at the rear. Fittings include a 500mm manhole cover, a 4 inch disc discharge valve and a 4 inch seamless steel discharge pipe. The kingpin is available as 2 inch 50mm or 3.5 inch 90mm in JOST or another brand, tires are 11.00R20, 12.00R20 or 11R22.5, and colour is to your requirement.

Type	Tri
Dimensions L x W x H	13000X2500x3500mm
Max Payload	20001-25000 kg Brand Name MAXWAY
King Pin	2"(50mm) or 3.5"(90mm) JOST or Other Brand Color As Customer's Require
Tire	11.00R20 12.00R20 11R22.5
Tank Body	Aluminum Alloy 5083/5182/5454
End Plate	Q235/6mm steel sheet
Discharge Valve	4 inch disc valve
Discharge Pipe	4 inch seamless steel tube
Manhole Cover	500mm
Kingpin	50mm
Landing Gear	two-speed, manual operating ,heavy duty
Rim	9.0-22.5 12+1 spare rim
Tool Box	1 piece, 1m x 0.5m x 0.5m,with some small gadgets

Pressure Vessel LPG Tank Trailer Three axles 60 CBM LPG Liquid Propane Gas Bullet Tank Semi-Trailer

A 60 cubic metre LPG bullet tank trailer at 12370*2490*3970mm, built as a pressure vessel in Q370R 11mm plate with a Q370R EHA2476x11mm end plate. LPG is carried under pressure at ambient temperature, so the tank is a certified pressure vessel rather than an insulated cryogenic one, and the plate grade and thickness are what define it. Payload is 22.3 tonnes of LPG with 23.16 tonnes maximum. Axles are FUWA on mechanical suspension, braking is dual line pneumatic with a WABCO relay emergency valve, the kingpin is a 2 or 3.5 inch JOST, landing gear is a standard 28 tonne unit, and four tire sizes are available.

Dimensions L x W x H	12370*2490*3970mm
Max Payload	23.16Ton Brand Name MAXWAY
Axle	FUWA
Suspension	Mechanical
Payload	22.3Ton Medium LPG
Landing Gear	Standard 28Ton
King Pin	2"(50mm)or3.5"(90mm) JOST Color Customers Optional Brake WABCO Relay Emergency Valve
Tire	11.00r20 12r22.5 315/80r22.5 385/65r22.5 Condition Brand-new
Tank Body	Q370R, 11mm
End Plate	Q370R, EHA2476x11(11)mm
Rim	12 units + 1
Brake System	Dual line pneumatic
Painting	Original aluminium or painting as your requirement
Tool Box	One

High Quality LPG Propane Gas Tanker Semi Trailer China Factory

An LPG propane tanker at 12370*2490*3970mm with a total volume between 46 and 60 cubic metres, built with a 6mm aluminium alloy 5083 tank body and end plate at a 7700kg tare, plus or minus 5 percent. Aluminium alloy 5083 is a marine-grade alloy, and using it here brings the tare down substantially against a steel pressure vessel of the same volume. Two 500mm stainless steel manholes are fitted. Payload is 22.3 tonnes of LPG with 23.16 tonnes maximum. Axles are FUWA on mechanical suspension, braking is dual line pneumatic with a WABCO relay emergency valve, and four tire sizes are offered.

Dimensions L x W x H	12370*2490*3970mm Total Volume(m ³) 46-60m ³ Tanker Body
Material	6mm aluminum alloy 5083
Tare Weight	(kg) 7,700 kg(±5%)
End Plate	6mm aluminum alloy 5083
Manhole Cover	stainless steel manhole ,diameter 500mm,two pieces
Size	12370*2490*3970mm
Max Payload	23.16Ton Brand Name MAXWAY
Axle	FUWA
Suspension	Mechanical
Payload	22.3Ton Medium LPG
Landing Gear	Standard 28Ton
King Pin	2"(50mm)or3.5"(90mm) JOST Color Customers Optional Brake WABCO Relay Emergency Valve

Tire	11.00r20 12r22.5 315/80r22.5 385/65r22.5 Condition Brand-new Item LPG
Tank Body	Q370R, 11mm
Rim	12 units + 1
Brake System	Dual line pneumatic
Painting	Original aluminium or painting as your requirement
Tool Box	One

Liquid Nitrogen Tanker 31000L Semi-trailer China Factory for Sale

A 31000 litre cryogenic tanker for liquid nitrogen at 10610 x 2500 x 3820mm, tare 16254kg and payload 23764kg within a 40000kg gross, all plus or minus 5 percent. The trailer height is adjusted to suit the tractor specification, and the traction pin sits 1320mm from the ground. Pressure-bearing components are S30408 stainless with a design pressure of 0.91MPa, a working pressure of 0.8MPa, a relief valve opening at 0.8MPa, and zero corrosion allowance. Insulation is vacuum multi-layer. Unit volume filling weight is 0.766kg per litre, which reflects the density of liquid nitrogen against lighter cryogenic products. Axles are 13 tonne FUWA.

Type	31000L liquid nitrogen tanker semi trailer Parameter
Dimensions L x W x H	10610x2500x3820*7mm(The height will be adjusted according to the tractor specification)
Tank Volume	31000L
Unit Volume Filling Weight	0.766 Traction pin height from the ground 1320mm
Tare Weight	(kg) 1,6254 kg(±5%)
Payload	(kg) 2,3764 kg(±5%)
Gross Weight	(kg) 40,000 kg(±5%)
Adiabatic Way	Vacuum \ multi-layer
Adiabatic Materials	wind (Relief valve) opening pressure(Mpa) 0.8Mpa Filling medium Liquid Nitrogen Fluid property Liquefied nitrogen
Design Pressure	0.91MPa
Working Pressure	0.8MPa Corrosion allowance 0mm Major materials of bearing pressure S30408
Axles	13 TON FUWA
Tool Box	1 set

LNG Liquid Nature Gas Three axles Semi-trailer

A three-axle LNG tanker at 18890kg tare and 21110kg payload within a 40000kg gross, all plus or minus 5 percent, with a 30408 end plate. The instrumentation is specified rather than left generic: an MZC-IIA level gauge reading 0 to 1500mm mounted inside the cabinet, with a DN25 connection. Knowing the level accurately matters on cryogenic work, where you cannot simply look into the tank. The chassis runs three 13 tonne FUWA axles on FUWA leaf spring suspension with 13 x 90 x 10 packs, 12 wheel rims at 9.0 x 22.5 and 12 Triangle 12R22.5 tires.

Type	3 axle Liquid Nature Gas semi trailer Parameter
Tare Weight	(kg) 1,8890 kg(±5%)
Payload	(kg) 2,1110 kg(±5%)
Gross Weight	(kg) 40,000 kg(±5%) Fluid property Flammable
End Plate	30408 Configuration
Axles	3 13 TON FUWA
Suspension System	1 FUWA leaf spring suspension 13*90*10 Wheel rim 12 9.0*22.5 Tyre 12 Brand :Triangle,12R22.5

LPG/LNG Tank Trailer Truck Questions

What Is the Difference Between an LPG and an LNG Tanker

LPG travels under pressure at ambient temperature in a certified pressure vessel. LNG must be held at cryogenic temperature in a vacuum-insulated double-cylinder vessel. The two builds are completely different and are not interchangeable.

Why Is Cryogenic Payload So Low

A vacuum-insulated vessel is inherently heavy. On a 40 tonne gross, payload is typically 20 to 24 tonnes. Aluminium alloy tanks and aluminium main beams are how we recover some of it.

Can You Supply Vapour Recovery

Yes, as a customer option on the cryogenic range. It is worth specifying where boil-off must be captured rather than vented.

What Certification Comes With a Pressure Vessel

Pressure vessel documentation appropriate to the build. Requirements differ by destination, so tell us the country and we will confirm before shipment.

Can the Same Trailer Carry Different Gases

No. Tell us the exact medium, working pressure and design temperature and we will specify the materials, insulation and fittings for that product.