

**CIMC ENRIC**  
BEST VALUE IN THE WORLD

SHIJIAHUANG ENRIC GAS EQUIPMENT CO., LTD.

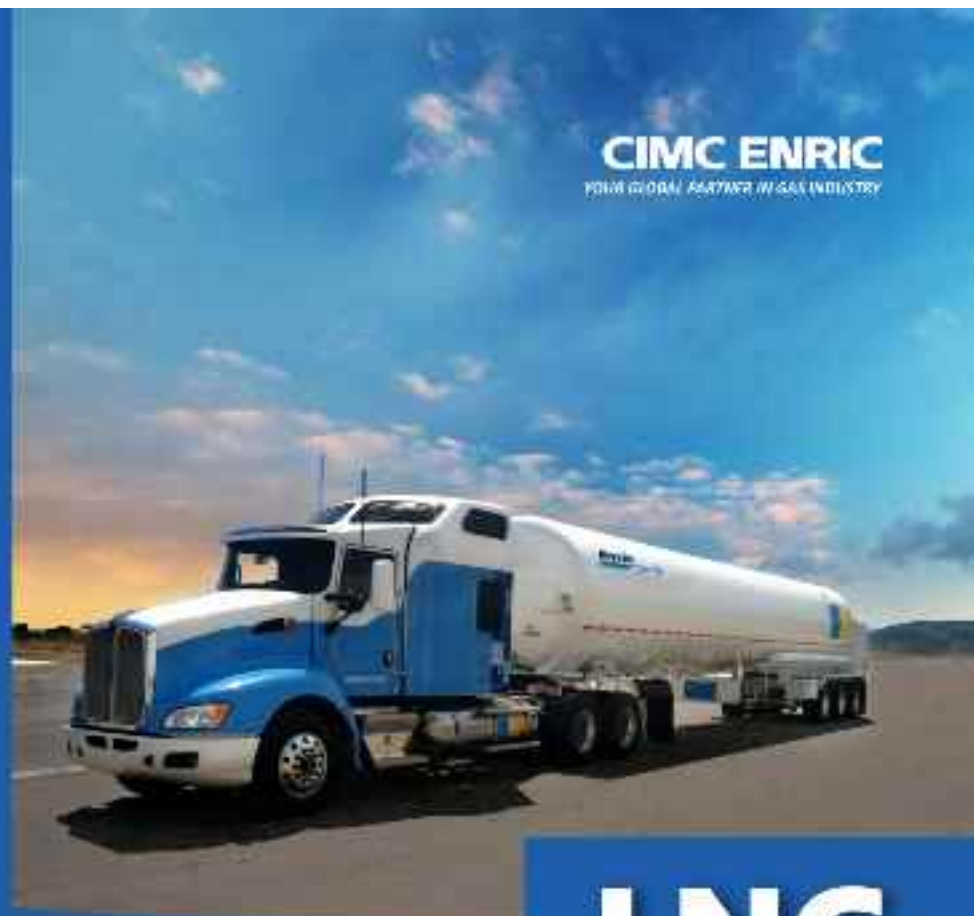
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**CIMC** 中集  
EQUIPMENT GROUP



Company Profile

**CIMC ENRIC**  
YOUR GLOBAL PARTNER IN GAS INDUSTRY



**LNG**  
Liquefied Natural Gas

Clean  
Efficient  
Reliable

SHIJIAHUANG ENRIC GAS EQUIPMENT CO., LTD.  
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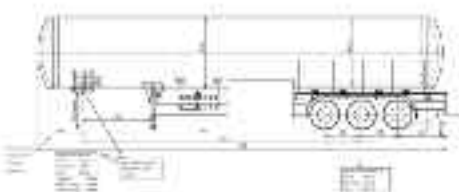
# LNG ROAD TRANSPORT



## LNG ROAD TANKER

LNG Road Tanker is designed to transport 1000 kg (1000 L) of liquefied natural gas (LNG) in a single trip. The tank is designed to meet the requirements of ISO 6346 for road transport of liquefied gases. The tank is designed to meet the requirements of ISO 6346 for road transport of liquefied gases. The tank is designed to meet the requirements of ISO 6346 for road transport of liquefied gases.

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Capacity (kg)	Design Code	Working Pressure (bar)	Working Weight (kg)	Tank Height (kg)	Total Weight (kg)
1000	1000000000	10	1000	1000	2000
2000	2000000000	10	2000	2000	4000
3000	3000000000	10	3000	3000	6000
4000	4000000000	10	4000	4000	8000

\*The above information is for reference only. Please refer to the actual product specifications.

## LNG ROAD TANKER

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#### LNG STORAGE TANK

LNG Storage Tanks are double-walled tanks mainly designed for cryogenic storage of LNG. LNG bottles are available with 10m high and can be further low alloy. According to the different design requirements, the tanks can be vertical or horizontal type with different volume capacities. These tanks are widely used in different LNG liquefaction plants, LNG/CNG Receiving Station, Receiving Station and other industrial applications, etc.

Capacity (M <sup>3</sup> )	Type	Design Code	Filling Rate	Structure (kg)	Loading Weight (kg)
30	LNG	A3ME/PD/04	95%	Vertical Horizontal	11410
30	LNG	A3ME/PD/03	95%	Vertical Horizontal	11200
40	LNG	A3ME/PD/03	95%	Vertical Horizontal	23200
40	LNG	A3ME/PD/03	95%	Vertical Horizontal	20900
100	LNG	A3ME/PD/03	95%	Vertical Horizontal	35700
150	LNG	A3ME/PD/04	95%	Vertical Horizontal	54200
200	LNG	A3ME/PD/04	95%	Vertical Horizontal	70900
250	LNG	A3ME/PD/04	95%	Vertical Horizontal	90700
300	LNG	A3ME/PD/04	95%	Vertical Horizontal	114100

\*The weight can be adjusted according to the design details.





### LNG ISO CONTAINER

Q147, Q467, and Q467T are double the length of standard 40' ISO tanks. They are built with the world's highest quality materials with annual capacity of more than 30,000 units. These ISO (90) tanks are widely adopted in oil & gas, energy and chemical industries (flight simulators, and various transportation markets).

Q467E ISO contains an air delivery system as an LNG vehicle tank, cryogenic tank, bulk storage and other industrial tanks, storage containers, and portable liquid gas tanks. LNG ISO Containers are made under vacuum condition and are used to transport liquefied gas products by road, rail, and ship. ISO 4670, ISO 4671, ISO 4672, ISO 4673 and ISO 4674 are in standard sizes, and they feature high cryogenic performance and modular design for easy to move, to be used in various scenarios.



Q147 ISO 4670



Q467E ISO 4671



Q467E ISO 4671

Size	Capacity (M <sup>3</sup> )	Design Code	Wt. (kg)	Loading Weight (kg)	Tare Weight (kg)	T.G.W. Weight (kg)
Q147	170	40D4670000	8000	3000	5000	10,000
Q467	340	40D4671000	8000	3000	5000	10,000
Q467T	340	40D4671000	8000	3000	5000	10,000
Q467E	340	40D4671000	8000	3000	5000	10,000

\*The weight is based on the maximum design pressure of 4.0MPa.

### LNG FUEL TANK

Enric supply a wide range of low carbon emission LNG Fuel Tanks, which is normally used for LNG powered forklifts and other transport equipment with integrated flame arrester and regulator. The LNG flows from the fuel tank into the regulator to the form of gaseous without gas and feed the work to engine. When the engine is working, the system will release gas from the top of the tank, so to keep the tank pressure. The pressure control system is adjusted to a precise pressure for the pressure of the engine's fuel system.

Enric ISO Fuel Tank (Q467E) can be used for transporting and storing liquefied natural gas in various industries, and also working at 10°C to 10°C. It will get higher and working with 20MPa pressure. Enric ISO Fuel Tank (Q467E) has high performance, safety, and low cost. It is suitable for various scenarios.



Capacity (liters)	Single Tank	Pressure (MPa)	Loading Weight (kg)	Tare Weight (kg)
170	40D4670000	4.0	3000	5000
340	40D4671000	4.0	3000	5000
340	40D4671000	4.0	3000	5000
340	40D4671000	4.0	3000	5000
340	40D4671000	4.0	3000	5000
340	40D4671000	4.0	3000	5000

\*The weight is based on the maximum design pressure of 4.0MPa.



# LNG REGASIFICATION

## LNG REGASIFICATION SYSTEM

LNG will be delivered by LNG Storage Tanker from the LNG Import to the LNG Storage Tanker. Regasification is a process of converting liquefied natural gas (LNG) or -162°C (-257°F) temperature back to normal gas at atmospheric temperature. In the regas system, the Offloading Receiver (OR) (TR) together will transfer the gas to the tank, and the feed water is pumped from the LNG from the storage tank to the Offloading Receiver (OR) Storage Tank. The feed water is pumped from the OR Storage Tank to the Feed Water Vaporizer through differential pressure created by storage tank pressure. The OR (TR) together will transfer the LNG to the Feed Water Vaporizer after heating and storage process in the Feed Water Vaporizer, and will be delivered to conversion pipeline of Gas Use after passing through monitoring and safety control system.



- Main Equipment in this Regasification System**
- LNG Storage Tanker
  - LNG Storage Tank
  - Offloading Receiver (OR) (TR)
  - Feed Water Vaporizer
  - Feed Gas Vaporizer
  - Gas Storage Tank
  - Feed Water Vaporizer
  - Feed Gas Vaporizer
  - Gas Storage Tank
  - Feed Water Vaporizer
  - Feed Gas Vaporizer
  - Gas Storage Tank



CIMC ENRIC

# LNG VAPORIZER



#### LNG / L-CNG REFUELING STATION

The provided full package includes and includes parts of LNG Delivery System, including LNG Storage Tank, submerged pump, receiver, LPS detector, control system and safety alarm system, along with other related parts. It is the ideal development and perfect solution with complete regulated features at a competitive price and fast delivery service.



#### System Features

1. Modular design, suitable for easy operation and maintenance.
2. Remote operation is available for long-distance.
3. The emergency shut-off valve is adopted to avoid leakage generated LNG.
4. In order to make the design compact, a 6000W motor is adopted in the system.



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#### LNG MOBILE FILLING TRUCK

The integrated LNG Mobile Filling Truck is applied for flexible operation of refueling in remote areas. The system is composed of 4400-liter tank, 1100 storage tank, submerged pump, 1400 receiver, 7400 receiver and unloading pump, liquid filling pipe and pressure-releasing pipe. Other systems include instrument air system, automatic system, lighting system and PLC control system.



Vehicle (m <sup>3</sup> )	Truck Weight (kg)	Power	Working pressure (bar)	IMO Data	Total Weight (kg)
10.0	8000	100	18	14.1	10000
24.0	10000	130	18	14.1	12000
40.0	12000	160/200	18	14.1	14000

\*The weight includes the weight of the 3000 liter storage tank.

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LNG plant



Wellgas recovery plant



## LNG LOADING/UNLOADING



### LNG LOADING/UNLOADING ARM

The world's most advanced LNG loading/unloading Arm (LNU) application. LNU from Enric provides a complete solution for loading & unloading of containers (LNU) which are used by LNG carriers to load/unload and pack/unpack LNU vessels. It is made of stainless steel (316) by special high speed welding techniques.

LNU Arm has self diagnostic system detecting & alerts, automatic loading the flow meter, flow is regulated, temperature controlled, stop and hold by selector, DCS, which are. The control system detects the pipeline status through the valves, and make a power order according to it, ensure the safety and success of the whole loading process.



### Main Functions:

- providing the control of the (LNU) loading/unloading
- flow rate control
- Pressure and temperature controlled
- Temperature control (cooling system, pressure and flow control)
- remote control of the valves, pumps, etc.
- starting and monitoring the loading/unloading
- alarm operation with abnormal conditions
- Connected with the vessels loading system through automatic control system to achieve perfect cooperation for all the docking alternatives.





## SERVICE & SUPPORT

Our global network of service and support facilities is the largest in the world. We have over 100 service and support facilities in 100 countries, providing the right support for your needs.

We develop customised strategies to fit your capital and O&M needs. Our systems, standards and procedures are based on our 30 years of experience to deliver the most value from your assets and 24/7 worldwide projects.

- Technical assistance
- Spare parts supply
- Assistance in Installation & Commissioning
- Training of Operators and Maintenance
- Inspection Services (China)
- Maintenance Service



We are CIMC ENRIC, the World-leading Manufacturer of Large Seamless Steel Pressure Vessels for Compressed Gases and Cryogenic Tanks for Liquefied Gases.

## GLOBAL MARKET



### OUR VISION

To be the world's leading provider of Large Seamless Steel Pressure Vessels for Compressed Gases and Cryogenic Tanks for Liquefied Gases.

- Headquarters
- Subcompany
- Business Office
- Main market