



Innovation.  
Quality.  
Experience.





Innovation. Quality. Experience.



Cryogenic storage tanks, distribution systems, auxiliary  
and special equipment: **ALL OF OUR PRODUCTS FOR  
CRYOGENICS AND GAS TRANSPORT**

Testing, maintenance and original  
spare parts **FOR ALL BRANDS  
AND MODELS**





## WHERE WE ARE

VIA DELL'ARTIGIANATO, 32-36  
26867 – SOMAGLIA (LO) – ITALY



# SINCE 2003





# ABOUT US



Cryo Service Srl focused its resources in the cryogenics and gas transport area, and with the help of Truck Center Somaglia, offers a complete service that no other competitor can guarantee.

A relatively young company, Cryo Service Srl has already made a name for itself in the domestic market with the quality of the services it provides and of its maintenance work on all types of vehicles that transport cryogenic gases and on their storage containers. Over the years, it has received recognition from the leading companies of the sector and has become a reference for companies in Italy and abroad.

Following agreements with foreign suppliers, the company obtained the recognition necessary to perform maintenance and work on cryogenic systems and their components, along with ongoing training of their personnel, even on the premises of the supplier companies. Today Cryo Service is increasingly deep-rooted in the domestic market and it has recently started collaborations abroad to serve new markets.



# HISTORY



With a total surface area in excess of 50.000 sq.m and two plants - one of which next generation and built to eco-sustainability standards - today Cryo Service is able to serve markets with a streamlined and efficient production line, and it can boast its leadership in manufacturing equipment for transport and storage cryogenic of gases.

Perfectly integrated with the services centre for transport companies (Truck Center Somaglia) of which it is a member ensuring the customer to benefit from a unique, complete offer.

The technicians and collaborators are able to meet all the needs linked to cryogenic gas transport and to every peculiar aspect of any vehicle. The experience in legislative, road traffic rules and vehicles in general that it has gained over the years make Cryo Service to be an essential partner today.

# OUR PLANTS

An aerial photograph of an industrial facility. The image shows several large, modern buildings with glass and steel facades. There are extensive parking lots filled with numerous white and blue trucks. The facility is surrounded by green fields and some trees. The overall scene depicts a large-scale industrial operation.

The structures are set up by service areas inside the 50,000-metre area, starting from the large store yards for new products and vehicles awaiting to be served. Access to the plant through the steel and glass office building reflects the finishes of the products made, and leads to the acceptance area for recording vehicles undergoing maintenance. The first plant is used for all maintenance on vehicles transporting cryogenic gases. Activities span between initial inerting (first operation for putting the vehicles in safe conditions) and control with specific instruments, such as gas analysers, vacuumeters, mass spectrometry leak detection and high vacuum pumps. The operations for building cryogenic are performed only with specialised labour trained with specific courses in possession of the necessary statements and/or certifications. The second plant, in operation since 2012, has been built with technologies able to guarantee full respect for the environment (eco-friendly) when Cryo Service products are being manufactured.

# MISSION

The purpose of Cryo Service is to provide the customer with the best product, one that is always reliable and easy to maintain.

This is achieved adopting a customer partnership-oriented approach, which entails:

- Anticipating the customer's future requirements, both technical and economic.
- Adapting its processes to the customer's needs and requirements
- Sharing ideas in search for advanced solutions
- Ongoing improvement

Cryo Service works with an integrated management system and boasts many certifications, offering proof of its professional competence and witnessing the quality of the products and services offered.





# A GREEN COMPANY

The recent investments concerning the environment, the extensive use of solar power and of the land as a heating source are proof of the tangible efforts Cryo Service has put into achieving zero-emissions production. Perfect integration with the environment, use of an HSE system and ongoing research for enhanced energy efficiency make the Cryo Service's production totally eco-friendly and based on an environment oriented policy.







SOLAR CELLS



GEOHERMAL SYSTEM

USE OF NATURAL  
AND RENEWABLE RESOURCES

POWERED BY SOLAR CELLS

AND HEATED BY  
A GEOHERMAL SYSTEM

CRYO SERVICE



CRYO SERVICE

# WE ARE MANUFACTURERS OF CRYOGENIC EQUIPMENT

Like storage tanks, road tanks and intermodal tank container as well as battery vehicles and MEGCs (multiple element gas containers) for compressed gases (methane included) and chemicals.

Liquefaction unit Loading bay, Heat exchangers (i.e. ambient-air vaporizers, water bath HEs, electrical HEs )



# MAINTENANCE & SPARE PARTS

The maintenance and spare parts service offered by Cryo Service includes:

Equipment repair and renewal, Cryo Service boasts highly qualified personnel able to restore existing equipment and to make them like new. Cryogenic tanks and vehicles are repaired on-site at the Cryo Service plants. The repair plant is integrated with the production plan, so it uses the state of the art in the design of equipment and in production processes.

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ORIGINAL SPARE PARTS OF ALL BRANDS

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VALVE MAINTENANCE AND REPAIR

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CRYOGENIC PUMP REPAIR AND CHECKING

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CRYOGENIC CONTROL PANEL REBUILDING AND REPAIR

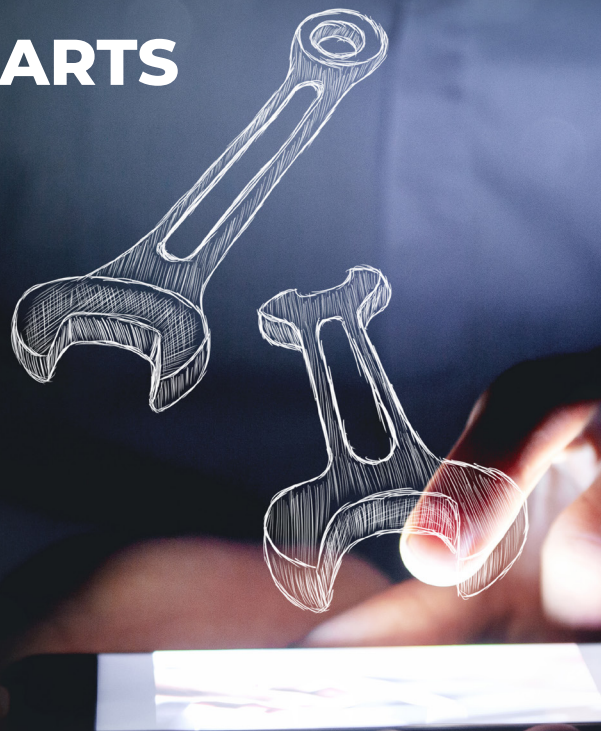
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ELECTRIC PANEL CHECKING AND REPAIR

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VACUUM CHECKING AND MEASUREMENT

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A welder wearing a red and orange protective suit and a welding mask is working inside a large, blue, cylindrical industrial tank. The welder is positioned on the left side of the frame, leaning over a work area. The tank's interior is illuminated with a bright blue light, creating a strong contrast with the welder's suit. The welder's suit has reflective orange stripes. The tank's surface shows concentric circular patterns, suggesting a large-diameter pipe or vessel. The overall scene conveys a sense of industrial scale and precision work.

# **STATIONARY STORAGE TANKS**

is able to design and build any type of fixed cryogenic tank up to a 500,000-litre capacity. Thanks to the in-house engineering department and dedicated software, Cryo Service has already built different non-standard tanks, such as LNG tanks such as multiple LBG/LNG storage tanks with net capacity in excess of 150.000 litres







# VERTICAL STATIONARY STORAGE TANKS





# HORIZONTAL STATIONARY STORAGE TANKS





## BUILDING PROCESS





# TANK VEHICLES

## 7000 to 20,000-litre tank vehicles

These vehicles are often used for sites hard to access, for filling small tanks or, more generally, for small and smart range distribution. The customer can choose and purchase the best suited vehicle to fit its needs, or purchase everything directly from Cryo Service.

The cryogenic tank will be built with double walls in stainless steel, vacuum-insulated with multi-layer super insulation. Working pressures ranges from 3 to 20 bars. The Cryogenic enclosure can be standard or built based on the customer's specifications.



# SEMI TRAILERS

## Transporting LIN-LOX-LAR

Design standard: EN 13530:2002+ A1:2004 And annex "C"

Design temperature:  $-196^{\circ}/+50^{\circ}\text{C}$

Internal shell material: stainless steel - 1.4301 EN10028-7

External shell material: stainless steel - 1.4301 EN10028-7

Insulation: multi-layer super insulation under full vacuum

Approvals: TPED-ADR, IMO8



# SEMI TRAILERS

## Transporting LCO<sub>2</sub>-N<sub>2</sub>O

Design standard: EN 14398-2:2008 And annex "C" if required

Design temperature: -196°/+50°C

Internal shell material: stainless steel-1.4301

Insulation: Polyurethane+aluminum jacketing

MAWP: 22 bar

Tank code as per ADR: R28,6BN

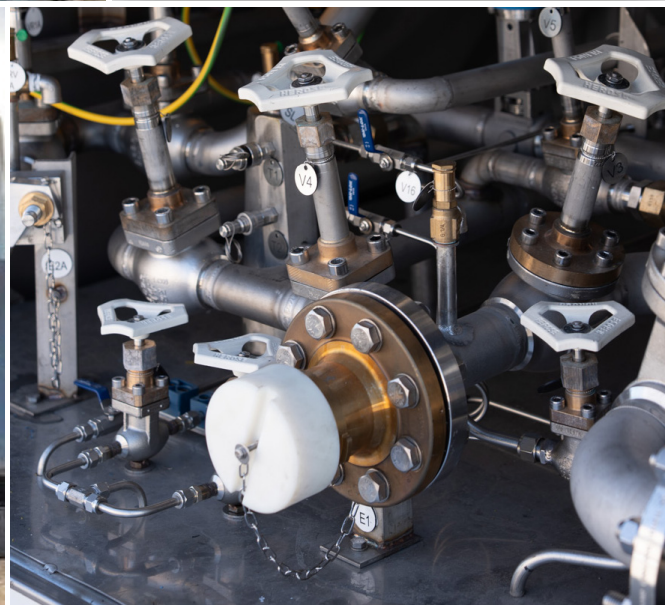
Approvals: TPED-ADR, IMO8







# MOBILE CONTAINERS



# COMPRESSED GAS

CryoService is qualified in the design and construction of tube trailers, MEGCS and racks, with type I or IV cylinders for the storage of compressed gas



# TUBE TRAILERS & RACK

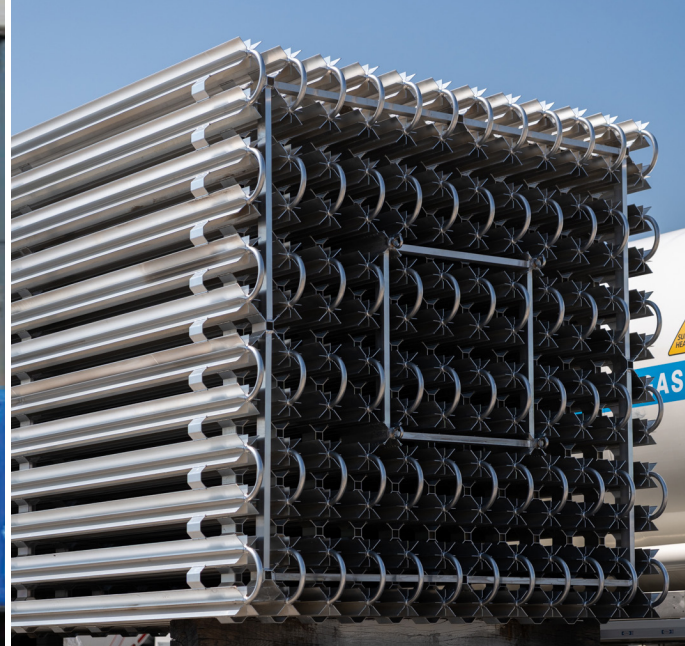
CRYO SERVICE





Multiple elements gas containers

**40' "UN" MEGC**

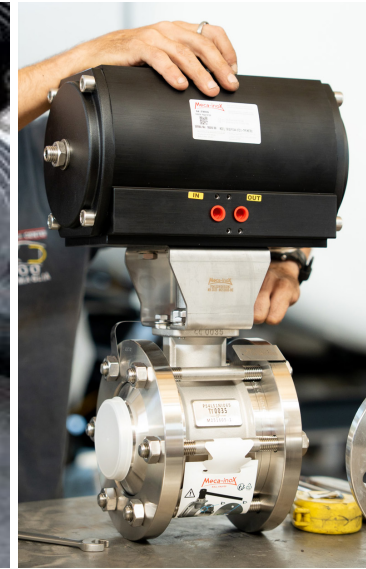


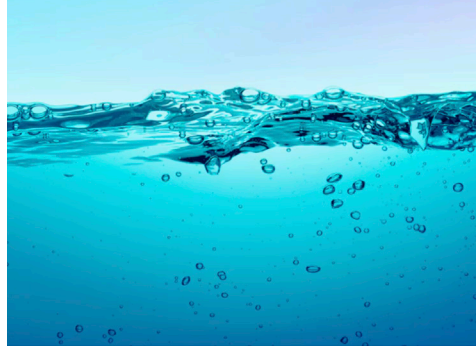


# TESTS ON COMPRESSED GAS TUBES

We prefer periodic testing and retesting according to T-PED and EN13807 standards, with structure reconditioning. Leak testing with the following methodologies:

- Hydraulic test
- Pneumatic test
- Helium leak detection
- Moisture analysis
- Analysis of pressure vessels with acoustic emission





# CRYO SERVICE

Natural / Biogas

Liquefier

with sacrificial

nitrogen

UPTO 500m<sup>3</sup>/h



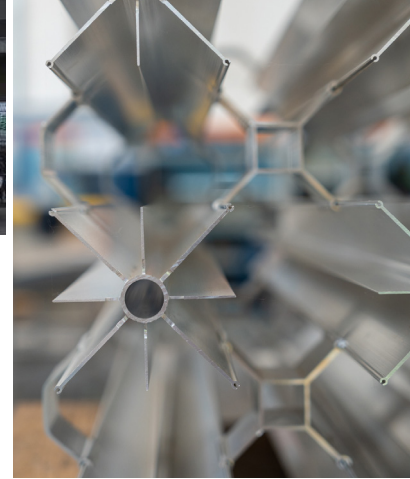
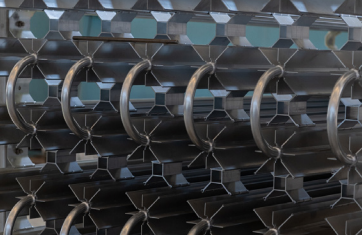




# LOADING AND UNLOADING BAYS

for  
LNG - LBG





## Lp 40 bar Hp 400 bar

The purpose of the atmospheric vaporizer is to heat and vaporize the cryogenic liquids to make them available in their gaseous state.

The key factors for carefully choosing the adequate model are:

- Flow rate
- Pressure
- External climatic conditions



# ATMOSPHERIC VAPORIZERS

CRYO SERVICE

# WATER VAPORIZER

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Exchange fluid:

- hot water
- steam
- direct electric



# CRYOFLOW BL22

The measurement system for liquids other than water is essential on an automatic measurement system for cryogenic liquids (liquid nitrogen, argon and oxygen) that can be installed in cryogenic transport units to use for direct sales operations. The measurement system shows and prints only the measured quantity (volume and/or mass), and not the price. The metrological function of the system is the calculation, display and printing of the quantity of cryogenic liquid transferred (mass and/or volume).





# FOOD & BEVERAGE



## COMPACT REFILLER CO2

CRYO SERVICE

# CERTIFICATION QUALITY

**CERTIFICATO**  
N° 50 100 1076 Rev.001

3. OPERAZIONE: THIS SCOPE OF SUPPLY  
4. ESTENSIONE DI CERTIFICAZIONE: THIS SCOPE OF SUPPLY: PRODUCTION, INSTALLATION AND  
CRYO SERVICE S.r.l.

5.001 PED 2008-2015  
VIA DELL'ARTIGIANATO 20/26  
17-06857 SOMMALIA (SV)

UNI EN ISO 9001:2015

VALORI DI CONFORMITÀ E CERTIFICAZIONE: THIS SCOPE OF SUPPLY: PRODUCTION, INSTALLATION AND  
CRYO SERVICE S.r.l.

Progettazione, costruzione, installazione, manutenzione e controllo  
periodico di stoccaggio di liquidi criogenici. Produzione, installazione e  
manutenzione di sistemi di riscaldamento e di condizionamento  
dell'aria condizionata. Produzione di elementi strutturali in acciaio  
per 17-06.

Design, construction, installation and periodic control of fluid  
and mobile storages. Production, installation and commissioning of  
dynamic measurement systems for liquids other than water.  
Production of structural elements in steel for 17-06.

ACCREDITED BY  
N° 50 100 1076 Rev.001

ACCREDITED BY  
N° 50 100 1076 Rev.001

ACCREDITED BY  
N° 50 100 1076 Rev.001

**ACCREDITED**  
N° 50 100 1076 Rev.001

**CERTIFICATE OF QUALITY SYSTEM APPROVAL**  
N° CE-1370 PED-0-CRT 001-22/14

1. SCOPE OF SUPPLY: THIS SCOPE OF SUPPLY: PRODUCTION, INSTALLATION AND  
CRYO SERVICE S.r.l.

2. ESTENSIONE DI CERTIFICAZIONE: THIS SCOPE OF SUPPLY: PRODUCTION, INSTALLATION AND  
CRYO SERVICE S.r.l.

3. OPERAZIONE: THIS SCOPE OF SUPPLY: PRODUCTION, INSTALLATION AND  
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ISO  
3834-2:2006

ASME  
U-STAMP

ISO  
9001:2015

PED  
MODUL D

**CERTIFICATO**  
CERTIFICATE

Questo è un certificato per l'azienda per la quale è stato emesso in conformità alle  
disposizioni tecniche di cui al regolamento (CE) n. 1701/2003 del Parlamento  
Europeo e del Consiglio del 25 ottobre 2003.

Certificato N° 102 420 2001 Rev 1  
Si certifica che  
CRYO SERVICE S.r.l.  
Via dell'Artigianato 20/26 17-06857 SOMMALIA (SV)  
è conforme ai requisiti della norma  
UNI EN ISO 3834-2:2006  
per i seguenti prodotti e servizi:  
Produzione, installazione e manutenzione di sistemi di riscaldamento e di condizionamento  
dell'aria condizionata.

Descrizione del prodotto o servizio	Norma di riferimento	Modalità di certificazione	Modalità di certificazione	Modalità di certificazione	Modalità di certificazione
Produzione, installazione e manutenzione di sistemi di riscaldamento e di condizionamento dell'aria condizionata	UNI EN ISO 3834-2:2006	1	2	3	4

Il presente certificato è valido per i prodotti e servizi di cui sopra, per i quali è stato emesso in conformità alle  
disposizioni tecniche di cui al regolamento (CE) n. 1701/2003 del Parlamento  
Europeo e del Consiglio del 25 ottobre 2003.

Il presente certificato è valido per i prodotti e servizi di cui sopra, per i quali è stato emesso in conformità alle  
disposizioni tecniche di cui al regolamento (CE) n. 1701/2003 del Parlamento  
Europeo e del Consiglio del 25 ottobre 2003.

ACCREDITED BY  
N° 50 100 1076 Rev.001

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N° 50 100 1076 Rev.001

**CERTIFICATE OF AUTHORIZATION**

The named company is authorized by The American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the ASME Single Certification Mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with the ASME Single Certification Mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY: CRYO SERVICE S.R.L.  
via dell'Artigianato, 20/26  
Somaglia 20017  
Italy

SCOPE: Manufacture of pressure vessels at the above location only

AUTHORIZED: January 05, 2024  
EXPIRES: January 05, 2027  
CERTIFICATE NUMBER: 92504

Board Chair, Conformity Assessment  
Managing Director, Standards & Engineering Services

The American Society of Mechanical Engineers

# CERTIFICATION SEMITRAILERS

CRYO SERVICE



e3\*2018/858\*00118\*00

## CoC - CERTIFICATE OF COMODITY



The logo consists of a horizontal rectangle with a double-line border. Inside, there are two blue triangles pointing towards each other from the left and right sides, framing the text "CRYO SERVICE" in a black, sans-serif font.

CRYO SERVICE

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[www.cryosericesrl.com](http://www.cryosericesrl.com)