



COMPANY PRESENTATION

January 2025

Company Overview

- Karbonsan is a **leading global manufacturer of cryogenic stationary and transportable tanks**, along with related equipment.
- Established in 1988, Karbonsan is headquartered in Istanbul with state-of-the-art fabrication facilities in Orhangazi, Bursa, Türkiye.
- **Strategically located** 70,000 m² facility with 19,000 m² of shop space is just **65 km from Istanbul and close to major ports and airports**, ensuring efficient global logistics.
- KARBONSAN delivers integrated, **tailor-made solutions** for its customers with recognized for its **short lead times** and **high quality** standards.
- Our comprehensive capabilities include the design, engineering, procurement, manufacturing, repair, testing, and servicing of **cryogenic LNG, LCO₂, LIN, LOX, LAR vertical and horizontal storage tanks, semi-trailers, rigid tankers, ISO containers, ambient evaporators, heaters, and vacuum-jacketed piping**. All products adhere to European PED, ASME, and ISO standards.
- KARBONSAN is **ASME-certified with U, S, and R stamps** and holds internationally recognized certifications including **EN ISO 3834-2, ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, AD 2000-Merkblatt HP0, EN 12542, EN 13445, and ADR**. All stationary pressure vessels are **CE-marked in compliance with the PED 2014/68/EU directive**.

Highlights

| | |
|-----------------------------------|---|
| #1 Player in the Region | >90 Countries |
| 70,000 sqm Facility | >2,700 tanks delivered to date |
| 19,000 sqm shop space | >350 tanks per annum |
| 65 km from Istanbul | 250 Employees |

Our Vision



To design, manufacture, and deliver high-quality, state-of-the-art cryogenic stationary and mobile tanks and equipment globally, with a commitment to safety, timeliness, and competitive terms.

Our Mission



To be the best-in class and preferred supplier of demanding customers and operators for cryogenic products and solutions

Our Values



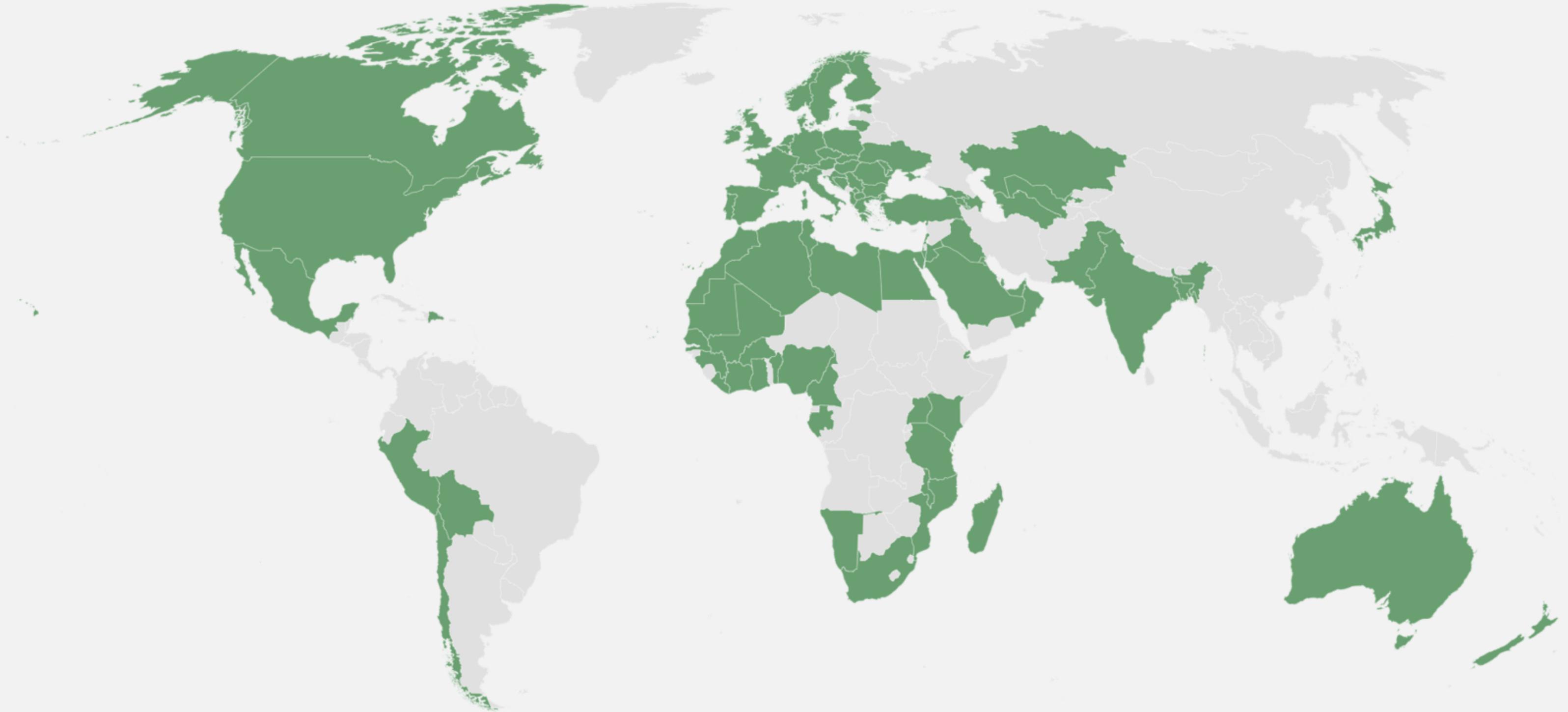
- ✓ Safety and the continuous development of our employees' skills and competencies.
- ✓ The satisfaction and trust of our customers
- ✓ The quality and reliability of our products
- ✓ A steadfast commitment to ethical conduct, environmental sustainability, and social responsibility.

KARBONSAN FACTORY OVERVIEW



REFERENCE LIST

We delivered more than 2,700 cryogenic tanks, tankers, and equipment to over 100 countries.



CRYOGENIC STORAGE TANKS

FOR LIQUEFIED AIR GASES, LNG AND LCO₂

KARBONSAN designs and manufactures cryogenic pressure vessels with vertical and horizontal orientation starting from 1 m³ up to 1.000 m³ capacity and working pressure range from 3 bars up to 36 bars. The pressure build up vaporizers are designed according to our customers site requirements and consumption rates.

With the excellence in design and manufacturing, KARBONSAN cryogenic tanks have proven their performance in durability world-wide and providing a maintenance free operation for several years.



CRYOGENIC STORAGE TANKS

PUR INSULATED FOR LCO₂

KARBONSAN design & manufactures PUR insulated Co₂ Storage tanks for countries with mild climates or for short term storage of CO₂. These tanks are delivered with carbon steel or stainless-steel inner vessel, with AISI316L stainless steel piping & valves and with optional cooling coil system that provides a long-term storage of Co₂ with zero losses preventing the release of Co₂ into atmosphere and assuring a sustainable and green environment.

KARBONSAN manufactures PUR insulated CO₂ tanks with gross volume from 5 m³ up to 1.000 m³ size in both vertical and horizontal orientation



SEMI-TRAILERS

FOR LPG

KARBONSAN manufacture LPG Semi-trailers and rigid tankers with 17.5 bars and 21 bars design pressures depending on the gas mixture type. The design temperature is between -20°C and +70°C.

The LPG semi-trailer and rigid tankers can be equipped with emergency discharge valves, manometers, temperature indicators, diesel, electrical or ex-proof hydrometer plumping system, liquid and phase level indicators.

KARBONSAN LPG Semi-trailers and Rigid Tankers are designed and constructed in conformity with ADR TPED, EN 12493, ASME Code and they also comply with the applicable local road legislation.



SEMI-TRAILERS FOR CRYOGENIC LIQUEFIED GASES, LCO2 AND LNG

KARBONSAN design & manufactures Ultra-Light Cryogenic Semi-Trailers with excellent rollover and handling stability thanks to a lower centre of gravity, lighter tare, shorter length and wider wheelbase. Excellence in vacuum technology and adapted insulation solutions provide users an incomparable cost-effective transport capability with minimal evaporation losses, permitting our customers to operate the trailers for several years on the challenging road conditions.

KARBONSAN is a market leading manufacturer of Cryogenic transport solutions holding matchless operational and design advantages for worldwide clients with optimized designs and with certification as per ADR regulations.



SEMI-TRAILERS

B-TRAIN TYPE ROAD TANKERS FOR LNG

KARBONSAN is the unique manufacturer in Turkey certified by Ministry of Transport of Canada for manufacturing B-Train trailers. This type of trailers is designed for countries like USA, Canada and Australia with highest possible payload limits minimizing the customer's transport expenses at each single trip.

The capacity of B-Train trailers may reach up to 90.000 liters capacity with double trailers. For countries like Australia, it is also possible to use triple or four trailers connected to each other which are rather called as «Road Trains». These trailers are manufactured as per ASME VIII Div 1 standard with US DOT certification.



RIGID TANKERS AND SKID MOUNTED TANKS

Cryogenic Air Gases and LCo2

Truck mounted rigid cryogenic tankers are designed for the maximized transport of liquefied cryogenic gases; LIN, LOX, LAR, LNG and LCO2 considering their densities just as in the case of cryogenic semi-trailers. They are available in 5,000-to-14,000-liter versions with pressures ranging from 3 to 23 bars providing the operators for liquid transfer by using a transfer pump or by pressure difference.

Like Cryogenic semi – trailers, KARBONSAN rigid tankers are also designed as per EN 13530-2 standard and certified to ADR / TPED standards.

KARBONSAN offers a wide range of choices for truck mounted tankers designed according to the chassis specifications of the customer's vehicle.



ISO TANK CONTAINERS

FOR CRYOGENIC AIR GASES, LCO2 AND LNG

KARBONSAN designs 20 ft Cryogenic Multi Layer Super Insulated ISO containers with 21.000 liters gross volume and with a design pressure starting from 17 barg up to 24 barg optimized for LIN LOX, LAR and LCo2. These containers can be equipped with transfer pumps and metering system as optional items.

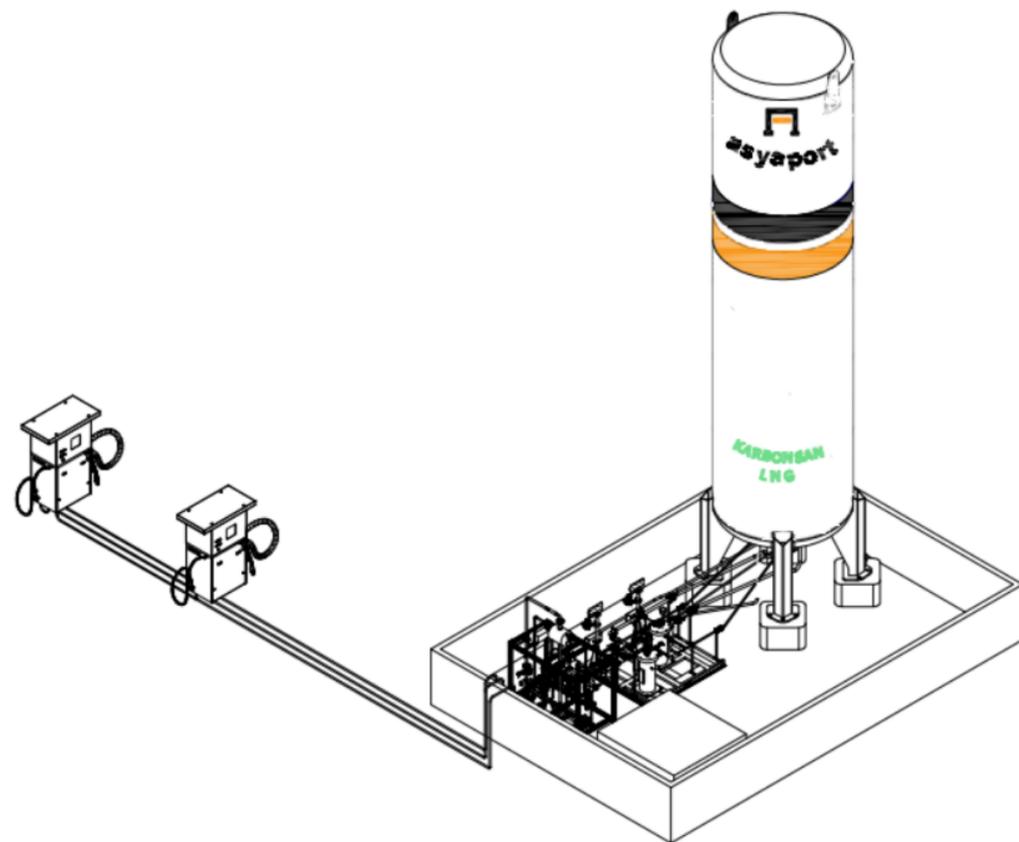
KARBONSAN 40 ft Cryogenic Multi Layer Super Insulated ISO containers are designed mainly for Liquid Nitrogen (LIN) and LNG with a minimum design pressure of 10.5 barg up to 22 barg depending on the operational requirements.

Both 20 t and 40 ft containers have a improved design with a very low evaporation rate and certified for ADR, UIC, CSC, IMDG, TIR and T75 UN permitting the operation by road, rail and by vessel.



LNG & LCNG FUELING STATIONS

KARBONSAN is at the service of its customers with its proven products and experienced engineers. KARBONSAN has a wide range of products for LNG world including transportation, storage, vaporization, compression and building of turnkey CNG, LNG and L-CNG fueling, LNG satellite and transfer plants.



Vaporizers



The vaporizers are used in parallel with cryogenic and PUR insulated tanks. Ambient evaporators represent the most cost-effective equipment to vaporize or re-gasify cryogenic liquid. KARBONSAN has a full line of low- and high-pressure vaporizers maximizing the heat transfer and providing a more efficient gasification performance with less surface area.

Cylinder Filling Stations & Pumps



Karbonsan cylinder filling stations and cryogenic cylinder filling pumps have been developed with these criteria in mind for the continuous and reliable supply of gases. Karbonsan, cooperating with reliable suppliers, offers complete cylinder filling stations for the industrial gas distributors, together with the cryogenic tanks, vaporizers and pumps required.

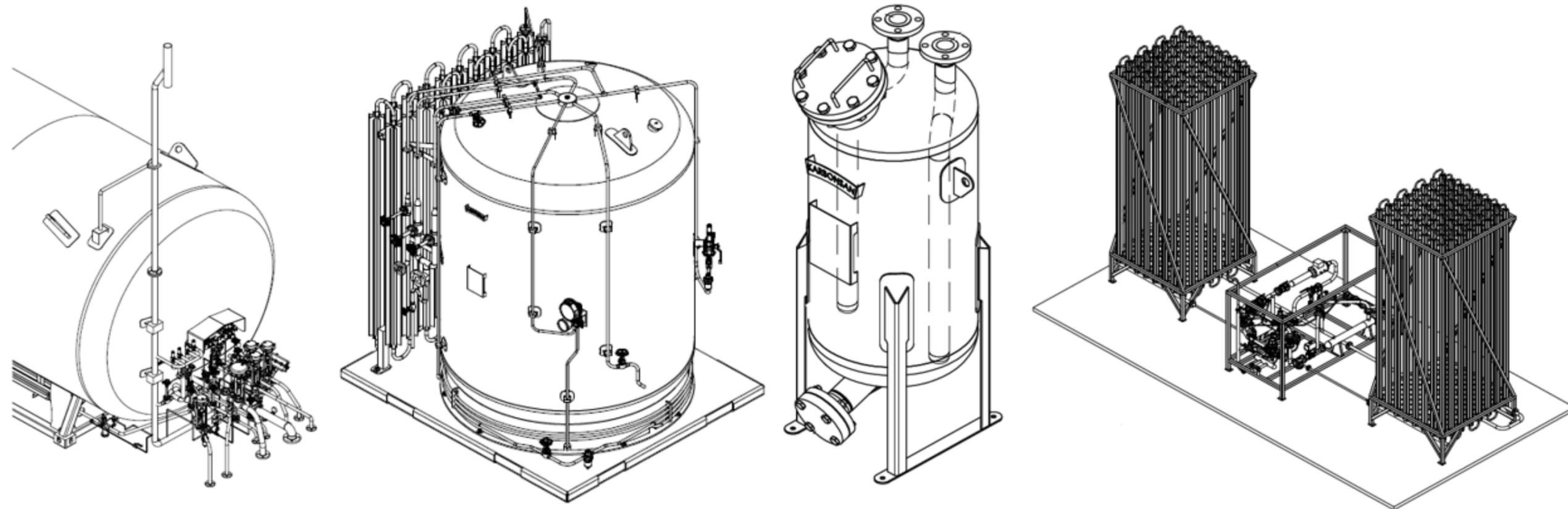
Vacuum Insulated Piping



The vacuum insulated pipes may be modular in predefined sections as well as tailor-made as per requirement of the project to be applied. The pipes are fully fabricated, tested and supplied in engineered sections in advance. The installation of vacuum insulated pipes at site becomes quite simple by using bayonet coupling.

Tailored design according to customer needs and process :

- ✓ KARBONSAN Engineering ensures our customers to have a proper integrated solution & equipment designed to fit their needs
- ✓ Our Cyro tanks are designed & manufactured using the latest design & analysis based on our multi-year experience and lessons learned



Earthquake, wind, and snow loads calculations according to site conditions:

Structural Design Analysis:

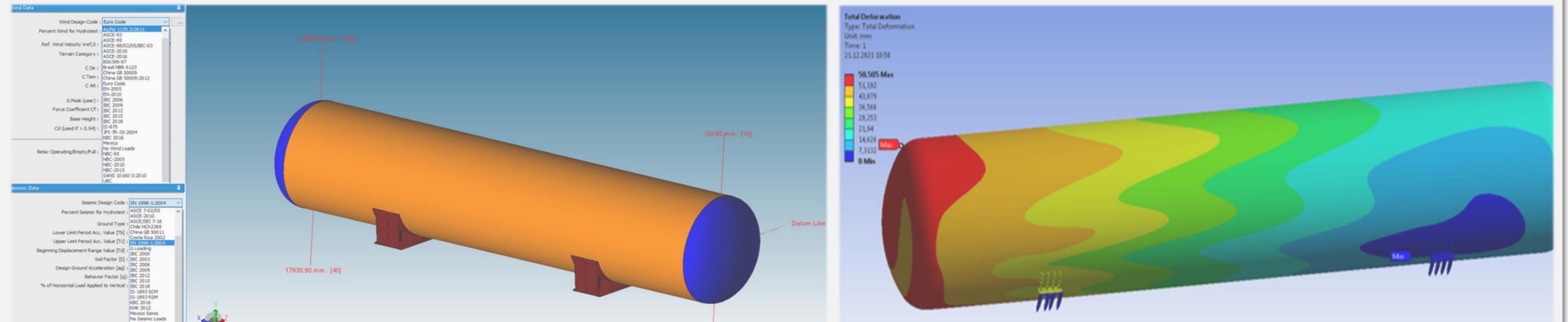
- ✓ Performing Finite Element Analysis (FEA) for weight and pressure loads. (Static and dynamic analysis)

Thermal Performance Analysis:

- ✓ Performing heat transfer analysis for cryogenic temperatures

Fluid Dynamics Analysis (CFD):

- ✓ Optimization of gas and liquid flow
- ✓ Performing Fatigue Analysis at customer request



Tank Repair and Refurbishment

KARBONSAN offers repair and refurbishment works for all types of cryogenic and non insulated pressure vessels returning your old equipment back to its first day conditions. KARBONSAN repair facility is integrated with the manufacturing site, so the latest updates in equipment design and manufacturing processes are always built into your repairs.



Commissioning

As KARBONSAN, we enhance our service team continuously to install all types of cryogenic equipment to become a one-stop-shop for our customers. Our typical deliveries include pre-engineering, detailed engineering, procurement, manufacturing, transportation, training, installation and start-up at the customer site.



Service and Maintenance

Periodical inspections, preventive and curative maintenance, training and consultancy for customer tanks and tankers can be performed by KARBONSAN technical staff on contract based or upon request. KARBONSAN employees have the necessary skills and production capabilities to help with even the most challenging applications.



Spare Parts

When a situation arises where you need a service or spare parts, the speed is obviously critical. We always stock many critical parts in Karbonsan inventories for our worldwide customers. The technical support to select the right spare part, prompt reply and same day shipping of stock items are our priorities.



OUR QUALITY COMMITMENT

Karbonsan prime values are the Quality and Reliability of our products, as well as the Satisfaction and Confidence of our customers.

In this respect and commitment, Karbonsan has been qualified for the stringent inspections of international societies such as the compliance of the law and safety management. As an outstanding corporation that has acquired various international certifications.



OHSAS 18001:2007



NB Stamp



R Stamp



U Stamp



Factory Approval Certificate



EN ISO 3834 - 2



Ministry of Transportation, Marine Affairs and Communication
Examination Center Certificate of Dangerous Goods Transport



AD 2000



ADR 2015



ISDO 14001:2015



ISO 9001:2015



TSE EN 12542



TS EN 12285-1



TS EN 13445-1



TSE K 323

ISO 9001 & 14001 & 45001 CERTIFICATES



CERTIFICATE

TÜV AUSTRIA

Management system as per TS EN ISO 9001:2015

In accordance with TÜV AUSTRIA procedures, it is hereby certified that

**KARBONSAN**
BASINÇLI KAPLAR SAN. VE TİC. A.Ş.

KARBONSAN BASINÇLI KAPLAR SAN. VE TİC. A.Ş.
Fatih Mah. Fatih Gölyolu Cad. No:38/1
TR-16800 Orhangazi/Bursa/TÜRKİYE

applies a management system in line with the above standard for the following scope

Design and manufacture of fixed use (horizontal / vertical) and transport, creogenic or non-creogenic tanks and evaporators, other pressure vessels and tank equipment for liquid gases (oxygen, argon, nitrogen, carbon dioxide, natural gas, petroleum gas, nitrous oxide).

Certificate Registration No. 20100183003222 Valid until 2025-02-08
Initial certification 2018-02-09


Certification Body at TÜV AUSTRIA GMBH Vienna, 2024-02-08

This certification was conducted in accordance with TÜV AUSTRIA auditing and certification procedures and is subject to regular surveillance audits.
TÜV AUSTRIA GMBH Deutschstraße 10 A-1230 Wien www.tuv.at





009736-23-1

CERTIFICATE

TÜV AUSTRIA

Management system as per TS EN ISO 14001:2015

In accordance with TÜV AUSTRIA procedures, it is hereby certified that

**KARBONSAN**
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TR-16800 Orhangazi/Bursa/TÜRKİYE

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Design and manufacture of fixed use (horizontal / vertical) and transport, creogenic or non-creogenic tanks and evaporators, other pressure vessels and tank equipment for liquid gases (oxygen, argon, nitrogen, carbon dioxide, natural gas, petroleum gas, nitrous oxide).

Certificate Registration No. 20104183003223 Valid until 2025-02-08
Initial certification 2018-02-09


Certification Body at TÜV AUSTRIA GMBH Vienna, 2024-02-08

This certification was conducted in accordance with TÜV AUSTRIA auditing and certification procedures and is subject to regular surveillance audits.
TÜV AUSTRIA GMBH Deutschstraße 10 A-1230 Wien www.tuv.at





009731-23-1

CERTIFICATE

TÜV AUSTRIA

Management system as per TS ISO 45001:2018

In accordance with TÜV AUSTRIA procedures, it is hereby certified that

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Fatih Mah. Fatih Gölyolu Cad. No:38/1
TR-16800 Orhangazi/Bursa/TÜRKİYE

applies a management system in line with the above standard for the following scope

Design and manufacture of fixed use (horizontal / vertical) and transport, creogenic or non-creogenic tanks and evaporators, other pressure vessels and tank equipment for liquid gases (oxygen, argon, nitrogen, carbon dioxide, natural gas, petroleum gas, nitrous oxide).

Certificate Registration No. 20116243018777 Valid until 2025-02-07


Certification Body at TÜV AUSTRIA GMBH Vienna, 2024-02-08

This certification was conducted in accordance with TÜV AUSTRIA auditing and certification procedures and is subject to regular surveillance audits.
TÜV AUSTRIA GMBH Deutschstraße 10 A-1230 Wien www.tuv.at





009727-23-1

EN ISO 3834-2 & AD2000 CERTIFICATES



CERTIFICATE

The certification body of TÜV AUSTRIA SERVICES GMBH certifies that

KARBONSAN BASINÇLI KAPLAR SAN. VE TİC. A.Ş.
Topselvi Mah. Gölyolu Cad. No:38/1 16800
Orhangazi / BURSA / TÜRKİYE

has met all necessary quality requirements for welding according to

EN ISO 3834-2

Date of audit: 12.10.2021

This certificate is valid for the following products or service ranges:
DESIGN AND PRODUCTION OF STATIONARY (HORIZONTAL/VERTICAL) AND MOBILE (FOR TRANSPORT PURPOSES) CRYOGENIC OR NON-CRYOGENIC TANKS FOR LIQUID GASES (OXYGEN, NITROGEN, LPG, CARBONDIOXIDE AND LNG) AS WELL AS EVAPORIZERS, OTHER PRESSURE VESSELS AND THEIR EQUIPMENT

Date of expiry: 13.10.2024

Certificate No.: **HZ-01454-21-TR-OSY**

Failure to meet all these necessary requirements as defined in the annex to this certificate will spoil this document!
The certificate keeps valid, if the TÜV AUSTRIA SERVICES GMBH performs the annual surveillance.

Leonding 15.11.2021
PLACE DATE

Mastnak Alexander
Dipl.-Ing.
CERTIFICATION BODY



TÜV AUSTRIA SERVICES GMBH
Deutschstraße 10
A-1230 Wien

ZERTIFIKAT | CERTIFICATE | CERTIFICADO | СЕРТИФИКАТ | 證書 | 인증서



ZERTIFIKAT Certificate

Die TÜV AUSTRIA TURK LTD. bescheinigt, dass die Firma
The TÜV AUSTRIA TURK LTD. certifies that

KARBONSAN BASINÇLI KAPLAR SAN. VE TİC. A.Ş.
in / of

**Fatih Mah. Gölyolu Caddesi No:38/1
Orhangazi/BURSA**

geprüft wurde und die Anforderungen nach der
is proved and accords all necessary requirements to

AD 2000-Merkblatt HP0
einschließlich der Richtlinie
inclusive of directive

2014/68/EU Anhang I, Abs. 3.1
erfüllt.

Die Betriebsüberprüfung erfolgte am: 07.04.2023
Date of audit:

Der Geltungsbereich und die Einzelheiten der Prüfung sind
Unserem Bericht zu entnehmen 21-IS-0662-IR-03
*The range of validity and details of the inspection can be taken from our
Report number:*

Dieses Zertifikat gilt für folgende Anwendungsbereiche:
This certificate is valid for the following products or service ranges:

Design and Production of Stationary (Horizontal/Vertical) and Mobile (For Transport Proposals) Cryogenic or Non-Cryogenic Tanks for Liquid Gases (OXYGEN, NITROGEN, LPG, CARBONDIOXIDE and LNG) As Well As Vaporizers, Other Pressure Vessels and Their Equipment.

Gültigkeit bis: 07.04.2024
Date of expiry:

Zertifikat Nr.: 21-IS-0662-TAT-AD2000-264 /
Certificate No.:

TÜV AUSTRIA TURK
10 April 2023
Ing. Ali Osman Özveren
Zeichnungsberechtigter
Authorized to sign

Dieses Zertifikat wird auf freiwilliger Basis gemäß EN ISO 3834-3 ausgestellt. Sie bezieht sich nur auf die Probe und ihre technischen Unterlagen, die zur Konformitätsbewertung in Verbindung mit der internen Qualitätskontrollsystembewertung vorgelegt werden.

FRM-CAS-101c Zertifikate_für
AD 2000 Merkblatt / Rev.00 -
15.07.2017
Seite 1/1

TÜV AUSTRIA TURK LTD.
TÜV AUSTRIA TURK ist ein Unternehmen der TÜV AUSTRIA HOLDING AG
Auszugsweise Vervielfältigung nur mit Genehmigung der TÜV AUSTRIA TURK gestattet.

Adresse: Çamlık Mah. İhsal Cad.
Dinc Sk. No:28 PK: 34774
Ümraniye/İSTANBUL
info@turkey.tuv.at
www.tuv.at

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Markanın Tanımı Description of the Mark
TSE veya/ör  veya/ör Т С Е

| | |
|---|---|
| BELGE NUMARASI REFERENCE NUMBER OF LICENCE | 049025-TSE-03/05 |
| BELGENİN İLK VERİLİŞ TARİHİ DATE OF FIRST ISSUE OF LICENCE | 09.04.2013 |
| BELGENİN SON GEÇERLİLİK TARİHİ LICENCE VALID UNTIL | 09.04.2024 |
| BELGE SAHİBİ KURULUŞUN ADI NAME OF THE LICENCE HOLDER | KARBONSAN BASINÇLI KAPLAR SANAYİ VE TİCARET ANONİM ŞİRKETİ |
| BELGE SAHİBİ KURULUŞUN ADRESİ ADDRESS OF THE LICENCE HOLDER | KOZYATAĞI MAH. KAYA SULTAN SOK. NO:80/5 KADIKÖY İSTANBUL/TÜRKİYE |
| ÜRETİM YERİ ADI NAME OF THE MANUFACTURING PLACE | KARBONSAN BASINÇLI KAPLAR SANAYİ VE TİCARET A.Ş. (ORHANGAZI ŞUBESİ) |
| ÜRETİM YERİ ADRESİ ADDRESS OF THE MANUFACTURING PLACE | FATİH MAHALLESİ FATİH GÖL YOLU CAD. NO:38/1 ORHANGAZI BURSA / TÜRKİYE |
| İPTAL EDİLEN BELGE NUMARASI (Varsa) INDICATION OF SUPERSEDED LICENCE (if any) | 049025-TSE-03/04 |
| TESCİLLİ TİCARİ MARKASI REGISTERED TRADE MARK | KARBONSAN |
| İLGİLİ TÜRK STANDARDI RELATED TURKISH STANDARD | TS EN 12542 / 09.11.2020 |
| BELGE KAPSAMI SCOPE OF LICENCE | |

KAYNAKLI, ÇELİK, SİLİNDİRİK, SABİT, SIVILAŞTIRILMIŞ PETROL GAZI (LPG) TANKLARI
- YER ALTINDA KULLANILAN
- EN YÜKSEK ÇALIŞMA BASINCI 20 BAR
- EN DÜŞÜK ÇALIŞMA/EN YÜKSEK ÇALIŞMA SICAKLIĞI (-20 °C / +50 °C)
- ANMA HACİMLERİ EN YÜKSEK 13 M3

e-imzalı/e-signed

13.07.2023

Belgelendirme Merkezi Başkanı Adına
ASU KORNOŞOR

TSE BURSA BELGELENDİRME MÜDÜRÜ

*Bu belge, belgelendirilen ürünün, üretim yerinin Enstitümüzün belirlediği şartları karşıladığını da gösterir.
*Bu belge, hiç bir suretle tahfif edilemez, kısmen veya okunmasını zorlaştıracak şekilde çoğaltılamaz, kopyası ve silinmesi yapılamaz.
*TSE BURSA BELGELENDİRME MÜDÜRLÜĞÜ * Adres: Organize Sanayi Bölgesi Kırmızı Cad. No:6 16140 BURSA * Telefon: 02242438000(5H) * Faks: 02242438324
*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta : bmb@tse.org.tr , web : www.tse.org.tr

<https://evrakkontrol.tse.org.tr/BelgeDogrulama.aspx?p=rwsxxju> adresinden belgenin doğruluğunu ve geçerliliğini sorgulayınız.



1 / 1

ASME U - S - R STAMP



The American Society of Mechanical Engineers



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:

KARBONSAN BASINCLI KAPLAR SAN. VE TIC. A.S.
Ornekkoy Yolu - Ilipinar Mevkii No: 34
Orhangazi
Bursa 16800
Turkey

SCOPE:

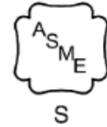
Manufacture of pressure vessels at the above location and field sites controlled by the above location (This authorization does not cover impregnated graphite)

AUTHORIZED: **May 04, 2023**
EXPIRES: **May 04, 2026**
CERTIFICATE NUMBER: **41024**

Board Chair, Conformity Assessment

Managing Director, Standards & Engineering Services

The American Society of Mechanical Engineers



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Ornekkoy Yolu - Ilipinar Mevkii No: 34
Orhangazi
Bursa 16800
Turkey

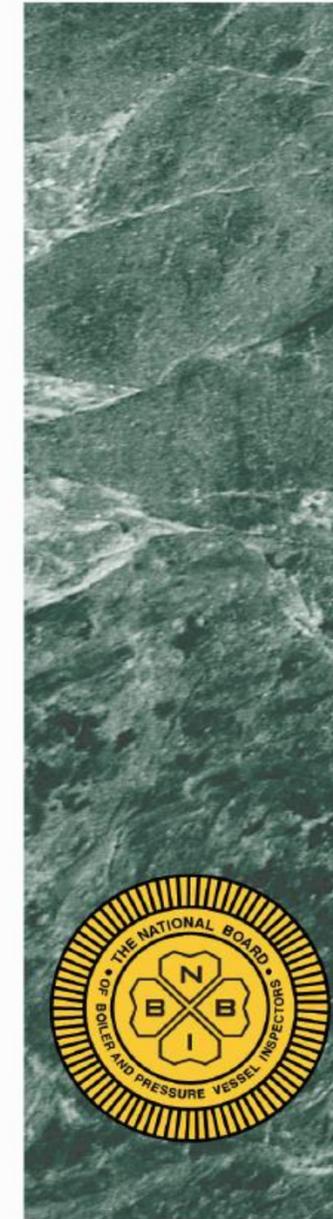
SCOPE:

Manufacture and assembly of power boilers at the above location and field sites controlled by the above location

AUTHORIZED: **August 20, 2023**
EXPIRES: **August 20, 2026**
CERTIFICATE NUMBER: **58808**

Board Chair, Conformity Assessment

Managing Director, Standards & Engineering Services



THE NATIONAL BOARD OF BOILER & PRESSURE VESSEL INSPECTORS

Certificate of Authorization



This is to certify that

KARBONSAN BASINCLI KAPLAR SAN. VE TIC. A.S.
Ornekkoy Yolu - Ilipinar Mevkii No: 34
Orhangazi
Bursa 16800
Turkey

Acceptable Abbreviation: **KARBONSAN**

is authorized to use the R Symbol in accordance with the provisions of the National Board Inspection Code and NB-415, Accreditation of "R" Repair Organizations.

All activities within the scope of this Authorization shall be controlled by the above location.

The scope of this Authorization is limited to:

Metallic
Repairs and Alterations
At
Shop and Field Locations

Certification Number: 10738

Issue Date: March 7, 2023

Expiration Date: May 4, 2026

Executive Director

NATIONAL BOARD NB STAMP

**THE NATIONAL BOARD
OF
BOILER & PRESSURE VESSEL INSPECTORS**

***Certificate of Authorization
to Register***



This is to certify that

**Karbonsan Basınçlı Kaplar San. Ve Tic. A.Ş.
Örnekköy Yolu - Ilipinar Mevkii No:34
Orhangazi
Bursa 16800
Turkey**

*is authorized to apply the "NB" mark and register boilers,
pressure vessels or other pressure retaining items with the
National Board.*

*The scope of Authorization is limited to items manufactured
in accordance with:*

ASME Designator(s): U

Issue Date: April 18, 2017

*This Certificate of Authorization to Register will remain in
effect as long as the manufacturing organization holds a
valid Certificate of Authorization issued by the American
Society of Mechanical Engineers.*

Executive Director 



REGISTRATION FOR B-TRAIN TRAILERS CERTIFICATE



Certificate of Registration

AS A FACILITY FOR THE MANUFACTURE, MODIFICATION, ASSEMBLY, REPAIR, TEST, RETEST, OR INSPECTION OF HIGHWAY TANKS AND PORTABLE TANKS IN ACCORDANCE WITH CSA STANDARD B620-14

COMPANY NAME: Karbonsan Pressure Vessels Co.

The facility located at: Topselvi Mah. Golyolu Cad, No. 38 E-F Blok, 16800, Bursa, -, Turkey
is hereby registered as a recognized facility for the functions listed below:

| TANK SPECIFICATION | ---INSPECTIONS--- | | -----TESTS----- | | | | | | | | |
|--------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| | EXT-ERNAL | INT-ERNAL | HYDRO-STATIC | PNEU-MATIC | LEAK | REPAIR | MANU-FACTURE | ASSEM-BLY | MODIFY | MOBILE | OTHER |
| TC 406 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| TC 407 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| TC 412 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| TC 423 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| TC 331 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| TC 338 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| TC 341 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| TC 350 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| TC 11 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| TC 44 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| TC 51 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| TC 60 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| ANY TANK TYPE | LINING | UPPER COUPLER | FLUORE-SCENT | THICK-NESS |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

This registration is only applicable to the facility and for the functions indicated above when carried out on the specification tanks indicated above and for periodic inspection test and repair, on Canadian and US specification equivalents prescribed in CSA Standards B621-14 and B622-14. Unless specifically authorized to do so in the conditions and limitations section of this certificate of registration, no FRP work is permitted as per Clause 8.1.3.5 of the CSA B620-14 Standard.

CONDITIONS AND LIMITATIONS TO THIS CERTIFICATE:
N/A

EXPIRY DATE OF THIS REGISTRATION:
Unless otherwise notified, this registration is valid until the date of expiry indicated below. A new application must be submitted where there is any substantive change in the information given on the application form filed with Transport Canada. Application for renewal must be made at least three (3) months before the date of expiry of the certificate.

DATE OF ISSUE: 19 February 2019
DATE OF EXPIRY: 01 March 2023

FACILITY REGISTRATION NUMBER: 25-1272



BV MODE II FACTORY APPROVAL FOR MARINE FUELING VESSELS



Page 1 / 2

  Marine & Offshore **Certificate number: SMS.W.II/117483/A.0**

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**RECOGNITION FOR
BV MODE II SCHEME**

**KARBONSAN BASINCLI KAPLAR SAN.VE TIC.A.S.
BURSA - TURKEY**

**Summary of the range of the recognition which is detailed in the subsequent page(s):
DESIGN & PRODUCTION OF CLASS 1 & 2 MARINE TYPE PRESSURE VESSELS WITH
PIPING AND CONTROL-SAFETY SYSTEMS**

This certificate is issued to attest that Bureau Veritas Marine & Offshore has performed, at the above company's request and in compliance with the requirements of NR320, a satisfactory assessment of the manufacturing facilities and associated quality procedures related to the range of the recognition.

This certificate will expire on: 09 Oct 2023

For BUREAU VERITAS,
At BV ISTANBUL, on 09 Oct 2019,
Gurcan Yilmaz

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at <http://www.veristarpm.com/veristambjsp/viewPublicPdfRecognition.jsp?id=rg4w6hnm1>
BV Mod. Ad E 697 June 2017 This certificate consists of 2 page(s)

ISO TANK CONTAINER FACTORY APPROVAL - LLOYD'S REGISTER



Manufacturing of ISO Containers Certificate no: IST1460021
Page 1 of 1

 **FACTORY APPROVAL CERTIFICATE**

Office: **Istanbul**
Date: **16 April 2014**

This Certificate is issued to **Karbonsan Basınçlı Kaplar San.Tic. A.Ş.**

Company : **KARBONSAN BASINÇLI KAPLAR SAN. TIC. A.Ş.**
Company Address : **Gölyolu, Ilipinar Mevkii, No: 34, 16800 Orhangazi Bursa**
Factory Address : **Gölyolu, Ilipinar Mevkii, No: 34, 16800 Orhangazi Bursa**
Container Types : **ISO Tank Containers and Portable Tanks**
Production Lines : **One line**
Annual Capacity : **100 TEU**
Related Codes/Standards : **ISO / CSC / IMO / UIC**

Based on satisfactory review of documents, satisfactory audit of the factory and attendance to satisfactory prototype testing, we certify that audited factory of **KARBONSAN BASINÇLI KAPLAR SAN. TIC. A.Ş.** conforms to the requirements of related codes/standards/regulations for manufacturing of ISO Tank Containers and/or Portable Tanks within the Lloyd's Register Container Certification Scheme and may manufacture ISO Tank Containers and/or Portable Tanks that will be certified in accordance with the said scheme.

This certificate is valid for three (3) years upon satisfactory annual assessments.

- Company quality system is reviewed.
- Calibration of testing & measuring equipment is verified.
- Welding documents and welder qualifications are verified.


EMİN TUĞLUOĞLU
Surveyor to Lloyd's Register Güçesim Ltd. Şti.
A subsidiary of Lloyd's Register Group Limited

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Form 1124 (2013.12)

CHASIS-TYPE APPROVAL CERTIFICATE



EC TYPE-APPROVAL CERTIFICATE

| | |
|---|--|
| Communication concerning: | Of a type of |
| - EC type approval | - complete vehicle |
| - extension of EC type approval | - completed vehicle |
| - refusal of EC type approval | - incomplete vehicle |
| - withdrawal of EC type approval | - vehicle with complete and incomplete variants |
| | - vehicle with completed and incomplete variants |

with regard to Directive 2007/46/EC as last amended by Regulation (EU) 2019/543 (1)

EC Type Approval No: e24*2007/46*0508*01

Reason for extension(s):
- See test report 18-TAHP-EK-0101/PO_ext.01 and accompanying manufacturer's information document for details

SECTION 1

| | |
|--|---|
| 0.1. Make (trade name of manufacturer): | KARBONSAN |
| 0.2. Type: | KRBN3 |
| Variant/Version(s): | AT1/ 27,30, 35 |
| 0.2.1. Commercial name(s): | 3 Axle Semi Trailer |
| 0.3. Means of identification of type, if marked on the vehicle: | Type described at digits 4 – 8 in the VIN code - See Annex A |
| 0.3.1. Location of that marking: | Stamped on the right hand of the chassis and on the statutory plate riveted on the right hand of the chassis |
| 0.4. Category of vehicle: | O4 |
| 0.5. Company name and address of manufacturer of the complete/completed vehicle (1): | Karbonsan Basınçlı Kaplar Sanayi Ve Ticaret A.Ş. Topselvi Mah. Gölyolu Cad. No:38 E-F Blok Tr-16800 Orhangazi / Bursa - Turkey |



EC Type Approval No: e24*2007/46*0508*01

0.5.1. For multi-stage approved vehicles, company name and address of the manufacturer of the base/previous stage(s) vehicle **N/A**

0.8 Name(s) and address(es) of assembly plant(s):
**Karbonsan Basınçlı Kaplar Sanayi Ve Ticaret A.Ş.
Topselvi Mah. Gölyolu Cad. No:38
E-F Blok Tr-16800
Orhangazi / Bursa - Turkey**

0.9 Name and address of manufacturer's representative:
**Göksel Özgür
Mattenwiete 1 D-20457 Hamburg
Germany**

LONG TERM SUSTAINABLE COOPERATION



We are looking forward to cooperating with your esteemed company to deliver high-quality quality state-of-the-art cryogenic stationary and mobile tanks, and related integrated engineered solutions safely, on time, and at competitive terms.

