



SinoCleansky

中国华科  
SinoCleansky

*The CNG & LNG Specialist for You!*



北京华科天洁科技有限责任公司  
BEIJING SINOCLEANSKY TECHNOLOGIES CORP

## Company Profile >>>

*Beijing SinoCleansky Technologies Corp is a leading manufacturer of key equipment in Natural Gas industry and an integrated supplier of one-stop-solution for CNG/LNG/NGV with product, technology and service.*

*Since 2006, SinoCleansky has been focusing on the gas industry, and developing its professional teams, manufacturing facilities and supply chain network. SinoCleansky headquarter is located in Beijing, and factories in Beijing Economic Circle and Yangtze River Delta. Thanks to its mass production and technology, SinoCleansky is committed to becoming your first CNG LNG specialist.*

*SinoCleansky key product lines:*

### I. SinoCleansky CNG & LNG Vessel

*SinoCleansky enjoys great advantage in CNG and LNG Transportation & Storage equipment, incl cylinder, tank, ISO tank container, and lorry tanker. Particularly the CNG & LNG virtual pipeline solution:*

*CNG jumbo tube container;  
LNG T75 ISO Tank container;  
LNG road tanker, microbulk and bulk tanks.*

### II. SinoCleansky LNG Microbulk Regas Station

*A smart and modular design on one skid for small LNG application, which is very convenient for deploy and relocate.*

### III. SinoCleansky Engineered Solutions

*Mini LNG plant, LNG and LCNG Refueling station, LNG regasification satellite station and etc.,*

*SinoCleansky gas equipment is in accordance with the most stringent international standards, incl ISO, ASME, TPED and etc, approved and certified by international inspection authorities which ensure a long-term safe and good use. You can always turn to SinoCleansky for gas container and solution at the whole CNG/LNG supply chain.*

## 公司简介 >>>

北京华科天洁科技有限责任公司是一家专注于气体设备和能源装备的专业技术公司。秉承专业服务，依靠优秀团队，立足中国制造，覆盖国际市场。

华科公司致力为国际市场提供优良的中国产品和技术：

- 工业气体设备：气瓶，储罐，设备和工程；
- CNG /LNG/ NGV：产品，系统，服务；
- 相关专用设备与技术。

自2006年成立以来，华科公司为全球工业气体和天然气行业客户提供了可靠的产品和方案，同时还服务于焊割、医疗、消防、水处理等众多行业客户。

华科公司以“让天空更洁净”为使命，立志成为全球用户的最优中国设备供应商。华科人专业专心，以优秀服务和优良产品，成为客户的终身伙伴。海纳百川，追求卓越。华科天洁愿与国内外广大客户和供应商真诚携手，长期合作！





# CNG Virtual Pipeline



**Your Best CNG Transport Trailer!**



40ft / 20ft – 8 tubes up to 16 tubes, Max cap. 12,348NM<sup>3</sup>/Set  
ISO11120 Standard, With Third Party Test, Free Spare Parts

### Popular Type for Industrial Gas and Hydrogen and CNG

Model No.	SCS0825CS-40F-559	SCS0925CS-40F-559	SCS1025CS-40F-559	SCS1125CS-40F-559	SCS1225CS-40F-559	SCS1225CS-20F-559
Cylinder quantity	8	9	10	11	12	12
Working pressure/MPa	25	25	25	25	25	25
Cylinder size/mm	OD559x17.4x10975	OD559x17.4x10975	OD559x17.4x10975	OD559x17.4x10975	OD559x17.4x10975	OD559x17.4x5400
Steel type	4130X	4130X	4130X	4130X	4130X	4130X
Working temperature	-50-65°C	-50-65°C	-50-65°C	-50-65°C	-50-65°C	-50-65°C
Equipment weight /KG	25752	28721	31490	34259	37028	19632
Water volume/M <sup>3</sup>	17.68	19.89	22.1	24.31	26.52	12.6
Filling gas volume /NM <sup>3</sup>	5569	6265	6961	7657	8353	3969
Total weight/KG	29730	33197	36462	39728	42995	22467
Skid/Trailer dimension	12192x2438x1400	12192x2438x1890	12192x2438x1890	12192x2438x1890	12192x2438x2000	6058x2438x2000

★ For Hydrogen, the jumbo tube working pressure is 20mpa, other data will be adjusted accordingly.

### Light Type for CNG

Model No.	SCS0825CS-40F-559	SCS0925CS-40F-559	SCS1025CS-40F-559	SCS1125CS-40F-559	SCS1225CS-40F-559	SCS1225CS-20F-559
Cylinder quantity	8	9	10	11	12	12
Working pressure/MPa	25	25	25	25	25	25
Cylinder size/mm	OD559*14.8*11570	OD559*14.8*11570	OD559*14.8*11570	OD559*14.8*11570	OD559*14.8*11570	OD559*14.8*4950
Steel type	4142	4142	4142	4142	4142	4142
Working temperature	-50-65°C	-50-65°C	-50-65°C	-50-65°C	-50-65°C	-50-65°C
Equipment weight /KG	24240	27020	29600	32180	34760	17580
Water volume/M <sup>3</sup>	19.6	22.05	24.5	26.95	29.4	12.792
Filling gas volume /NM <sup>3</sup>	6174	6945	7717	8489	9261	4029
Total weight/KG	28650	31981	35112	38243	41375	20480
Skid/Trailer dimension	12192x2438x1400 (skid)	12192x2438x1890 (skid)	12192x2438x1890 (skid)	12192x2438x1890 (skid)	12192x2438x2000 (skid)	6058x2438x2000 (skid)

Remark: 1、The data of filling gas volume, loading weight and total weight is based on CNG.  
2、The above specifications are only for our typical types. The more accurate & detailed parameters and technical drawings are available upon request.

### Contact us :

 **Address:** Beijing SinoCleansky Technologies Corp. Wangjing SOHO, Chaoyang District, Beijing, P. R. China  
 **Email :** sales@sinoCleansky.com  **Web:** www.sinocleansky.com www.cnglng.com  
 **Phone :** +86-10-64709959  **Whatsapp/Mob :** +86-13701016486



**Product:** High Pressure Jumbo Tube Skid, Container & Trailer; for CNG & Industrial Gases.



**Production:** World top manufacturer of high pressure jumbo tube container

**Certification:** Jumbo cylinder produced as per standard ISO11120, DOT, with TPED approval. Jumbo tube container with ADR, IMDG and RID certificate, and inspection report (certificate) issued by BV, LRS, TUV or equivalent international third-party.

**Application:** SinoCleansky jumbo cylinder skids/containers/trailers are widely used for ground stationary storage and intermodal transportation. The filling medium include CNG and various industrial gases such as Hydrogen, Argon, Nitrogen, Helium, Purified Gas, Compressed Air, etc.

**5000+** Annual Capacity      **100+** Esteemed Clients      **2006+** Professional Experience Since 2006

 **北京华科天洁科技有限责任公司**  
 BEIJING SINOCLEANSKY TECHNOLOGIES CORP



SinoCleansky  
Gas Container & Solution

Production system

Professional & Premium

QC system

100% Traceable

Shipping and packaging system

Safe & Save

After-sale service system

Reliable Always

Customer support system

Worry-free for You



Africa



Asia



Latin America



Europe



Middle East



Oceania

**We supply jumbo tube skids/trailers all over the world!**



**Trustworthy partner for CNG**  
**You can enjoy the best CNG jumbo tube skid**



Chassis: 20ft & 40ft; 2 axles & 3 axles  
Reinforced type for tough roads.

**We provide auxiliary CNG equipment you need: trailer chassis, PRMS and more**

PRMS: Pressure Regulating Metering System  
Customized popular type from 200NM<sup>3</sup>/H to 6500NM<sup>3</sup>/H





**Guide for LNG Solution Model Selection**

SinoCleansky provides the engineered LNG solution for you based on the gas consumption capacity. You can have different LNG supply models as below:

Gas consumption NM <sup>3</sup> /day	LNG Supply Model Name	Max. Gas Supply NM <sup>3</sup> /H
Below 200	LNG Cylinders	N·7/ N·11
100~2,000	LNG Cylinder Cascade Skid Station	200NM <sup>3</sup> /H; Typical models: 100,150,200NM <sup>3</sup> /H
Around 500~2000	LNG Microbulk Station	200NM <sup>3</sup> /H;
500~50000	LNG Modular Regas Station	2000NM <sup>3</sup> /H;

**Contact us :**

**Headquarter :**  
Beijing SinoCleansky Technologies Corp.  
Wangjing SOHO,Chaoyang District,  
Beijing, P. R. China

**Factory :**  
Changzhou, China

**Email :** sales@sinoCleansky.com  
**Phone :** +86-10-64709959  
**Web:** www.sinoCleansky.com  
www.cnlng.com  
**Whatsapp/Mob :** +86-13701016486



**LNG Virtual Pipeline**

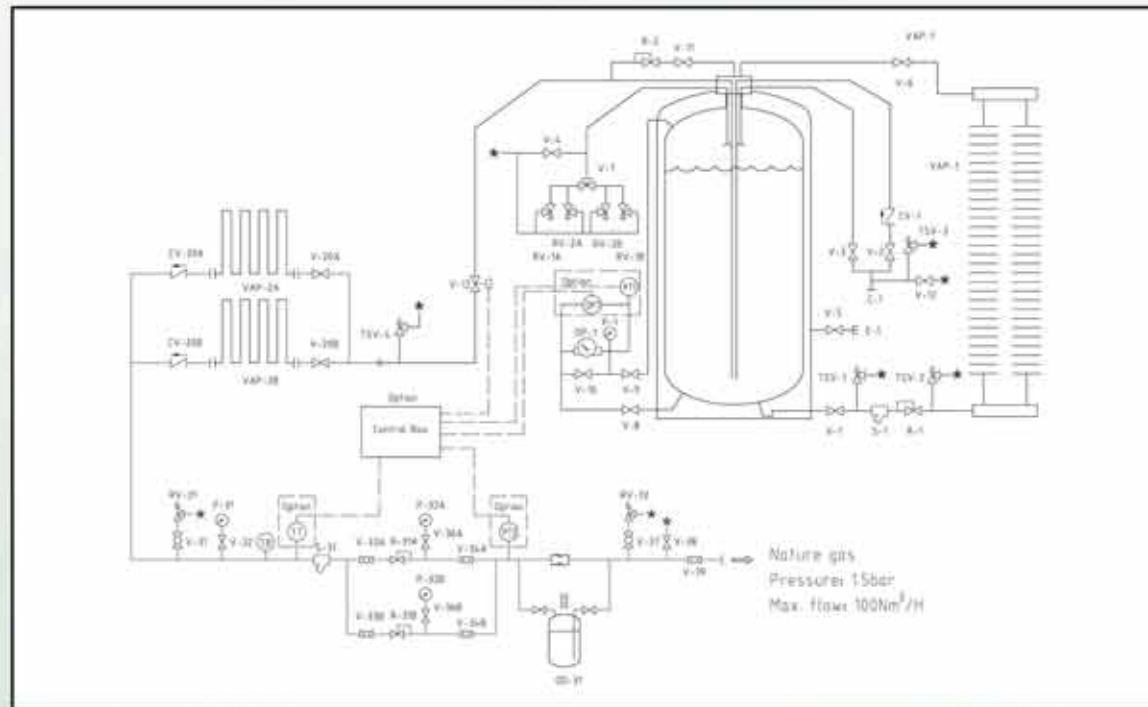


**Making victory by microbulk**



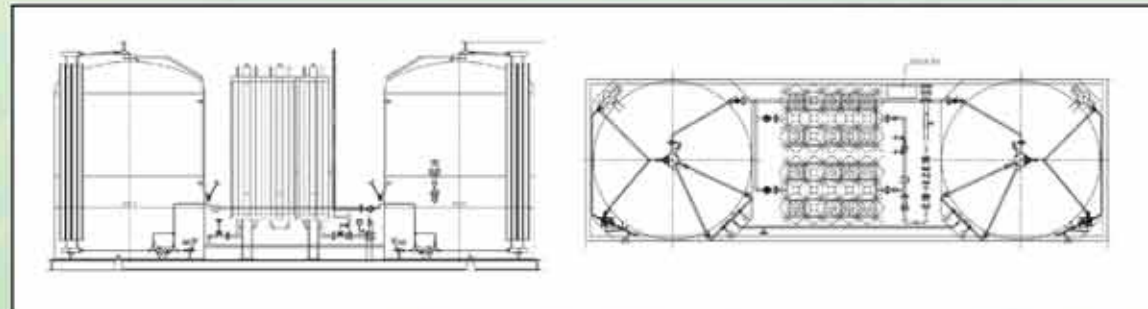
- LNG storage
- Regasification
- Pressure regulation
- Measurement
- Odorization
- Security monitoring
- Signal remote transmission
- Automatic switchover
- Emergency shut-off...
- All on one skid!

**LNG Microbulk Regas Station**



**One Skid for All !!!**

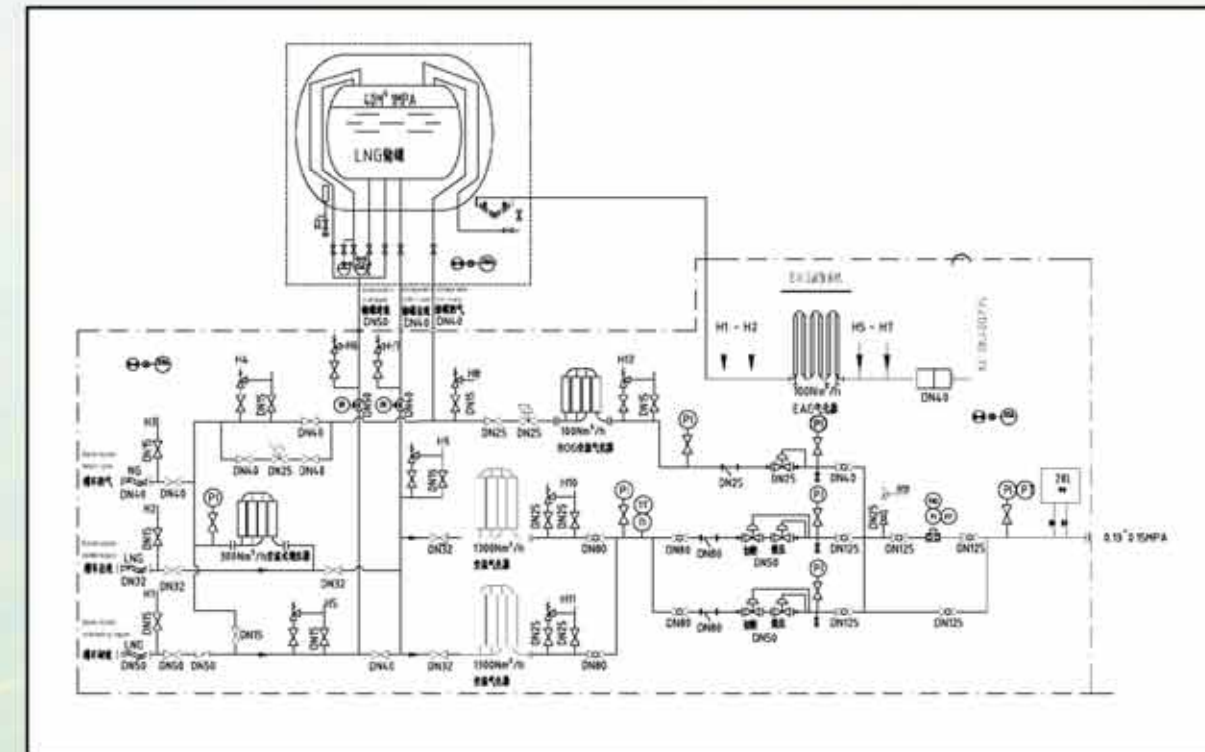
LNG Storage, Regasification, Pressure Regulation, Measurement, Odorization, Security monitoring, Signal remote transmission, Automatic Switchover, Emergency shut off, etc.



Capacity: 1M<sup>3</sup>, 2M<sup>3</sup>, 3M<sup>3</sup>, 5M<sup>3</sup>, 7.2M<sup>3</sup> till 14.4M<sup>3</sup>.



**LNG Modular Regas Station**



SinoCleansky produces LNG modular regas station for various projects. The whole solution includes:

1. LNG storage tank: 20M<sup>3</sup>~200M<sup>3</sup>, vertical or horizontal;
2. LNG regas and regulating skid: customized and skid-mounted;
3. LNG transport: LNG ISO tank container and LNG lorry tanker.





SinoCleansky  
Gas Container & Solution



# Cryogenic ISO tank container

“We SinoCleansky specialize in designing and manufacturing cryogenic tank container since year 2006 with rich experience”



## Product Features

- 📦 Technology: Super-vacuum multi-layer insulation
- 📦 Application: LOX , LIN , LAr , LCO<sub>2</sub> , LN<sub>2</sub>O , LNG storage and transportation
- 📦 Standard: ASME, GB150, EN13530 and other international standards
- 📦 Lloyd's Register CSC Certificate, BV Certificate and CCS Certificate

## Specifications

Capacity: 10ft, 20ft, 40ft, with various capacities.

Working pressure: 0.8MPa, 1.6MPa, 1.8MPa, 2.2Mpa, 2.3MPa, etc

## Typical types

Standard	Main Specification	Filling medium	Working pressure	Water capacity	Material Inner / outer vessel
ASME	T75-20FT-8BAR	LOX / LIN / LAr (LNG optional)	0.8MPa	21.7 M <sup>3</sup>	SA-240M 304/Q345R
ASME	T75-20FT-16BAR	LOX / LIN / LAr / LNG / LC <sub>2</sub> H <sub>4</sub> / LC <sub>2</sub> H <sub>6</sub>	1.6MPa	21 M <sup>3</sup>	SA-240M 304/Q345R
ASME	T75-20FT-22BAR	LOX / LIN / LAr / LCO <sub>2</sub> / LN <sub>2</sub> O	2.2MPa	21 M <sup>3</sup>	SA-240M 304/Q345R
ASME	T75-20FT-23BAR	LOX / LIN / LAr / LCO <sub>2</sub> / LN <sub>2</sub> O	2.3MPa	21.1M <sup>3</sup>	SA-240 304/Q345R
EN13530	T75-20FT-18BAR	LOX / LIN / LAr (LNG optional)	1.8MPa	21.7 M <sup>3</sup>	1.4315/Q345R
EN13530	T75-20FT-22BAR	LOX / LIN / LAr / LCO <sub>2</sub> / LNG LN <sub>2</sub> O / LC <sub>2</sub> H <sub>4</sub> / LC <sub>2</sub> H <sub>6</sub>	2.2MPa	21.4 M <sup>3</sup>	1.4315/Q345R
GB	T75-20FT-22BAR	LCO <sub>2</sub>	2.2MPa	21.6 M <sup>3</sup>	WH590E/Q345R
ASME	T75-40FT-8BAR	LNG (with emergency shut-off valve)	0.8MPa	45.7 M <sup>3</sup>	SA-240M 304/Q345R



LOX  
LIN  
LAR  
LCO  
LNG



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## Customized service

- With or without pump
- Chinese pump or France Cryostar pump, USA Smith pump
- Dedicated or versatile for filling



Operation box with pump



Without pump



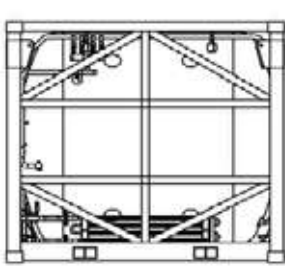
Vaporizer(PBU)



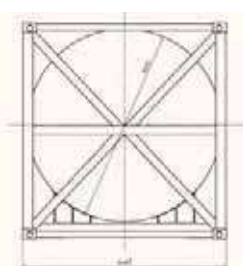
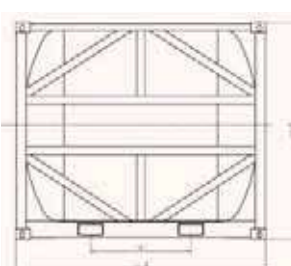
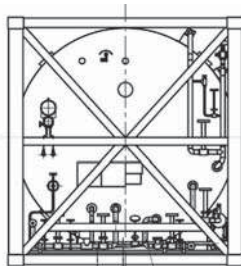
valves

## Customized ISO Tank for Nitrogen purging application:

- Off-shore 10ft ISO tank with DNV approval: 2000gallon, DNV2.7-1, fully certified;
- On-land LiN transport tank as per ASME: 2000gallon & 3000gallon, for both transport & storage;
- Customization available.



Off-shore 2000gallon, DNV2.7-1



On-land 2000gallon & 3000gallon



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## Cryogenic Storage Bulk Tank

“One-stop solution of all sizes of liquid gases tanks”

We SinoCleansky specialize in development and production cryogenic tank since year 2006, with rich experience. The products are widely used in the LNG and other liquid industrial gas stationary storage, including LOX, LIN, LAr, LCO<sub>2</sub>, etc.

SinoCleansky cryogenic tanks are equipped with high-vacuum multi-layer insulation or vacuum perlite insulation. To provide high-performance equipment, we make a series of stringent tests, including automatic welding process, X-ray and ultrasonic tests, vacuum production and testing, hydraulic tests, leak test for inner vessel, etc.

### Cryogenic tank

Type: vertical, horizontal

Manufacture standard: GB, ASME, EN

Capacity 10M<sup>3</sup> – 1000M<sup>3</sup>

Working pressure: 0.8MPa, 1.6MPa, 2.2MPa, 2.4MPa, etc

Medium: LOX, LIN, LAr, LCO<sub>2</sub>, LNG



### Production pictures





LOX  
LIN  
LAr  
LCO<sub>2</sub>  
LNG



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## Typical model

Standand	Volume	Working Pressure	Medium
ASME/GB	10M <sup>3</sup>	8bar	LOX/LIN/LAr
ASME/GB	10M <sup>3</sup>	16bar	LOX/LIN/LAr
ASME/GB	15M <sup>3</sup>	8bar	LOX/LIN/LAr
ASME/GB	15M <sup>3</sup>	16bar	LOX/LIN/LAr
ASME/GB	20M <sup>3</sup>	8bar	LOX/LIN/LAr
ASME/GB	20M <sup>3</sup>	16bar	LOX/LIN/LAr
ASME/GB	30M <sup>3</sup>	8bar	LOX/LIN/LAr
ASME/GB	30M <sup>3</sup>	16bar	LOX/LIN/LAr
ASME/GB	50M <sup>3</sup>	8bar	LOX/LIN/LAr
ASME/GB	50M <sup>3</sup>	16bar	LOX/LIN/LAr
ASME/GB	10M <sup>3</sup>	22bar	LCO <sub>2</sub>
ASME/GB	15M <sup>3</sup>	22bar	LCO <sub>2</sub>
ASME/GB	20M <sup>3</sup>	22bar	LCO <sub>2</sub>
ASME/GB	30M <sup>3</sup>	22bar	LCO <sub>2</sub>
ASME/GB	50M <sup>3</sup> , 60M <sup>3</sup> , 120M <sup>3</sup> , 150M <sup>3</sup> , 200M <sup>3</sup> , 300M <sup>3</sup> , and more	8bar	LNG

ASME standard with or without U stamp .

With third party test reports :  
Factory test reports .

With international brand valves or Chinese brand valves.

Custom-made service for labels and name plates.

The warranty period for valves and gauges is one year. The warranty period for storage tank vacuum and painting is three years.

We provide one-stop solution for our clients, and supply customized cryogenic equipment, incl vaporizer and pump.

## Shipment





SinoCleansky  
Gas Container & Solution



# Cryogenic Transport Tanker

We keep devoting ourselves to the development and production of cryogenic liquid transport equipment. The products are widely used in the LNG and other liquid industrial gases storage and transport.

## Portable Cryogenic Tank (PCT)

Manufacture standard: ASME  
Capacity: 1M<sup>3</sup>, 2M<sup>3</sup>, 3M<sup>3</sup>, 4M<sup>3</sup>, 5M<sup>3</sup>, 7M<sup>3</sup>, etc.  
Working pressure: 1.6MPa, 2.5MPa  
Medium: LOX, LIN, LAr, LCO<sub>2</sub>, LNG  
Insulation: High-vacuum multi-layer insulation.



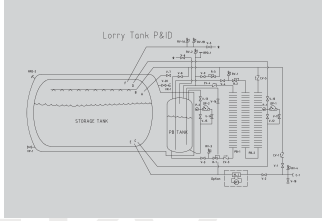
## Cryogenic Road Tanker (without chassis, without pump)

Manufacture standard: ASME  
Capacity: 3M<sup>3</sup> - 20M<sup>3</sup>.  
Working pressure: 1.6MPa, 2.2MPa, 2.4MPa, etc  
Medium: LOX, LIN, LAr, LCO<sub>2</sub>, LNG  
Insulation: High-vacuum multi-layer insulation.



## Cryogenic Road Tanker with PB tank (without chassis)

Cryogenic Road Tanker with PB tank (without chassis)  
Manufacture standard: ASME  
Capacity: 3M<sup>3</sup> - 20M<sup>3</sup>.  
Working pressure: 1.8MPa  
Medium: LOX, LIN, LAr, LCO<sub>2</sub>, LNG  
Insulation: High-vacuum multi-layer insulation.



## Cryogenic Road Tanker with pump (without chassis)

Manufacture standard: ASME  
Capacity: 3M<sup>3</sup> - 20M<sup>3</sup>.  
Working pressure: 0.4MPa  
Medium: LOX, LIN, LAr, LCO<sub>2</sub>, LNG  
Insulation: High-vacuum multi-layer insulation.



## MicroBulk Delivery Systems (with pump & flowmeter)

Insulation: High-vacuum multi-layer insulation.  
Volume: 1057-5283 gal / 4-20M<sup>3</sup>  
Discharging pressure: 0.8-3.5MPa / 0.8-1.6MPa  
Medium: LOX, LIN, LAr, LCO<sub>2</sub>, LNG  
Note: We only provide loading part of lorry tanker, without chassis and head.





LOX  
LIN  
LAr  
LCO<sub>2</sub>  
LNG



SinoCleansky  
Gas Container & Solution



## Cryogenic Semi-trailer for industrial Gas LOX,LIN,LAr

NO	NAME	LOX Semi-trailer		LIN Semi-trailer		LAr Semi-trailer	
1	Model No	SCS-GB-27.39M <sup>3</sup> -0.3MPA		SCS-GB-37.2M <sup>3</sup> -0.3MAP		SCS-GB-22.8M <sup>3</sup> -0.3MAP	
2	Total Volume	27.39M <sup>3</sup>		37.2M <sup>3</sup>		22.8M <sup>3</sup>	
3	Effective Volume	25.47M <sup>3</sup>		34.6M <sup>3</sup>		21.2M <sup>3</sup>	
4	Working Pressure	0.3MPA		0.3MPA		0.3MPA	
5	Loading Medium	LOX		LIN		LAr	
6	Desdign Code	GB(Chinese Standard)		GB(Chinese Standard)		GB(Chinese Standard)	
7	Main Material	Inner Vessel	S30408	Inner Vessel	S30408	Inner Vessel	S30408
		Outer Vessel	Q345R	Outer Vessel	Q345R	Outer Vessel	Q345R
8	Design Temperature	-196/50°C		-196/50°C		-196/50°C	
9	Isolating Type	High Vacuum Multilayer Insulating		High Vacuum Multilayer Insulating		High Vacuum Multilayer Insulating	
10	Total Net Weight	10940KG		12080KG		10445KG	
11	Dimensions	12065×2520×3455mm		12720×2520×3700mm		11950×2520×3290mm	

## Cryogenic Semi-trailer for LCO<sub>2</sub>

NO	NAME	PARAMETERS
1	Model No	LCO <sub>2</sub> Semi-Trailer
2	Design Volume	29.7M <sup>3</sup>
3	Working Pressure	2.2Mpa
4	Loading Medium	LCO <sub>2</sub>
5	Design Code	GB (Chinese Standard)
6	Main Material( Inner Vessel)	WH590E
7	Design Temperature	-40/+50°C
8	Isolating Type	Foam
9	Total Weight	40000KG
10	Equipment weight	13270KG
11	Rated loading weight	26730KG
12	Dimensions	12610X2500X3630mm

## Cryogenic Semi-trailer for LNG

NO	NAME	PARAMETERS	
1	Model No	SCS-ASME-52.6M <sup>3</sup> -0.7MPA	
2	Total Volume	52.6M <sup>3</sup>	
3	Effective Volume	47.34M <sup>3</sup>	
4	Working Pressure	0.7Mpa	
5	Loading Medium	LNG	
6	Design Code	ASME	
7	Main Material	Inner Vessel	S30408/S30408III
		Outer Vessel	Q345R/16MnII
8	Design Temperature	-196/50°C	
9	Isolating Type	High Vacuum Multilayer Insulating	
10	Total Net Weight	17440 KG	
11	Dimensions	13000x2500x3800mm	

**Remark: 1. All the semi-trailer is with chassis without tractor head.  
2. The parameter is for reference, the final datasheet based on production drawing.**





SinoCleansky  
Gas Container & Solution



# Cryogenic Cylinder

“SinoCleansky’s vast array of models offer everything you need to transport, store and dispense liquefied gases safely and securely”



## Product Features

- Technology: high-vacuum multi-layer insulation
- Application: LOX, LIN, LAR, LCO<sub>2</sub>, LNG storage and transportation.
- Standard: DOT-4L, EN1251, GB24159, ASME, and other international standards
- High-performance super insulation
- Minimum product vapor loss
- Convenient storage and transportation
- Customized vaporization coils provide constant gas flow rates

## Product Introduction

Manufacturing standards: DOT-4L, EN1251, GB (Chinese standard), etc.

Water capacity: 175L - 1000L

Working pressure: 1.37MPa, 1.59MPa, 2.02MPa, 2.3MPa, 2.4MPa, 2.88MPa, 3.45MPa, etc.

## Typical types (Vertical)

Standard	Type
GB24159	DPL450-175L/195L/210L-1.37 MPa
GB24159	DPL450-175L/195L/210L-2.3 MPa
GB24159	DPL450-175L/195L/210L-2.88 MPa
GB24159	DPL450-175L/195L/210L-3.45 MPa
GB24159	DPL450-232L-1.37 MPa
GB24159	DPL450-232L-3.45 MPa

Standard	Type
EN1251	EN160HP(175L-2.4 MPa)
EN1251	EN180HP(197L-2.4 MPa)
EN1251	EN200HP(216L-2.4 MPa)
DOT-4L	CT160HP(175L-2.02MPa)
DOT-4L	CT180HP(195L-2.02MPa)
DOT-4L	CT200HP(205L-2.02MPa)
DOT-4L	CT240HP(250L-2.02MPa)





SinoCleansky  
Gas Container & Solution



### Big capacity popular types ( Vertical / Horizontal optional )

Standard	Type
GB24159	DPL700-410L-1.37Mpa Vertical
GB24159	DPL700-500L-1.37Mpa Vertical
GB24159	DPL700-410L-2.3Mpa Vertical
GB24159	DPL710-500L-2.3Mpa Vertical
GB24159	DPW650-410L/500L-1.59Mpa Horizontal
GB24159	DPW650-500L-2.5Mpa Horizontal
GB24159	DPW650-500L-3.45Mpa Horizontal
GB24159	DPL900-1000L-2.5 MPa Vertical



### Customized Model Case

Manufacture standard: GB24159

Water capacity: 410L to 500L

Working pressure: 1.37MPa, 1.59MPa, 2.3MPa, 3.45MPa

Filling Medium: LOX / LIN / LAr / LCO<sub>2</sub> / LNG

Vaporization: ≤40Nm<sup>3</sup>/h



### Detail pictures



Vaporizer



Name card



Valves



Pressure gauge

### Shipment





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## CNG Cylinder for Vehicle

SinoCleansky specializes in providing a comprehensive solution of NGV, covering various products and services. Particularly, SinoCleansky has a strong advantage in providing the essential part of NGV, the high pressure cylinder, which is used to store the compressed natural gas on board the vehicle or as back-up storage as cascade cylinders.

- 📦 Type I CNG steel cylinder for vehicle
- 📦 Type II CNG composite cylinder for vehicle (steel liner hoop-wrapped with glass fiber)
- 📦 Type III CNG composite cylinder for vehicle (aluminum liner fully-wrapped with carbon fiber)
- 📦 CNG storage cylinder for cascade, both type I and type II and type III

SinoCleansky CNG cylinders are manufactured as per different international standards, principally ISO11439, ISO11119, NZS5454, ECE R110, NGV2-2000, DOT and etc. Our productions have been certified by the international third-party authorities including LRS, BV, SGS etc.

### Type I CNG steel cylinder

Manufacturing standard: ISO11439, NZS5454, ECE R110  
 OD: 232mm, 273mm, 279mm, 325mm, 356mm, 406mm, etc  
 WC: 20L---225L  
 WP: 20MPa

#### 📦 Typical types

Standard	Type
ISO11439/ECER110	OD232-20L-20MPa
ISO11439/ECER110	OD232-22L-20MPa
ISO11439/ECER110	OD232-28L-20MPa
ISO11439/ECER110	OD325-55L-20MPa
ISO11439/ECER110	OD325-60L-20MPa
ISO11439/ECER110	OD356-60L-20MPa
ISO11439/ECER110	OD356-75L-20MPa
ISO11439/ECER110	OD406-100L-20MPa
ISO11439/ECER110	OD356-145L-20MPa
ISO11439/ECER110	OD356-150L-20MPa
NZS5454	NZ232-22L-20MPa
NZS5454	NZ273-50L-20MPa
NZS5454	NZ325-55L-20MPa
NZS5454	NZ325-60L-20MPa





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### Type II CNG composite cylinder

Manufacturing standard: ISO11439, ECE R110

OD: 325mm, 356mm, 406mm, etc

WC: 50L-200L

WP: 20MPa

Typical types

Standard	Type
ISO11439/ECER110	CRP325-55L-20MPa
ISO11439/ECER110	CRP325-60L-20MPa
ISO11439/ECER110	CRP356-65L-20MPa
ISO11439/ECER110	CRP356-75L-20MPa
ISO11439/ECER110	CRP406-100L-20MPa
ISO11439/ECER110	CRP356-145L-20MPa



### Type III CNG composite cylinder

Manufacturing standard: NGV2, ISO11119

OD: 373mm, 383mm etc

WC: 80L-207L

WP: 25MPa

Typical types

Standard	Type
NGV2	CRP373-80L-3600Psi
NGV2	CRP383-200L-3600Psi



### CNG storage cylinder for cascade

OD: 229mm, 356mm, 406mm, etc

WC: 50L-200L

WP: 25MPa or 20MPa

### Shipment





SinoCleansky  
Gas Container & Solution



## LNG Engineered Solution

Beijing SinoCleansky Technologies Corp specializes in natural gas industry and supplies a one-stop-solution for LNG and CNG with product, technology and service.

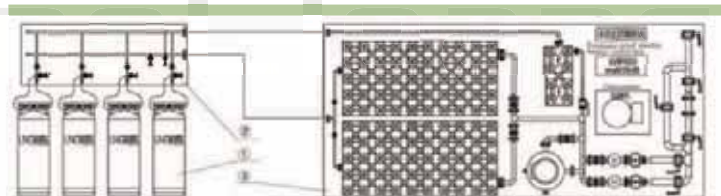
For professional clients of Mini LNG, LCNG satellite station, LNG regasification and etc., SinoCleansky takes its industrial experience and technology expertise to provide the excellent customized technical solutions.

### Guide for LNG Solution Model Selection

Gas Consumption Capacity Nm <sup>3</sup> /day	Gas Supply Model	Max. Gas Supply NM <sup>3</sup> /H
Below 200	Cylinders	N·7/N·11
100~2,000	Gas Cylinder Group Skid Station	200 Typical models: 100, 150, 200NM <sup>3</sup> /H
Around 1000	Microbulk Regas Station	200
500~1000	Modular Bulk Regas Station	2000
For NGV	LNG Refueling Station L-CNG Refueling Station	Customized

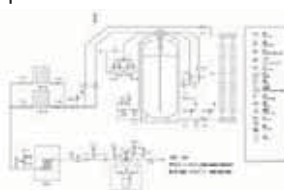
### LNG Cylinder or Cylinder Group Regas Station

- LNG cylinder or cylinder group: for LNG transfer, storage, and supply solution.
- LNG periportal skid: for LNG and BOG gas assemble and transported to LNG gasification output pry.
- LNG regasification output skid: for LNG gasification, complex heat, pressure regulator, metering, odorizer, so that post-gasification of nature gas in accordance with the requirements of the user constant temperature, constant pressure to the output.



### Skid-mounted LNG Microbulk Regas Station (Small LNG satellite Station)

- LNG Microbulk Regas station is a smart and modular design for small LNG applications. The whole LNG station is built on skid, with LNG storage, regasification, pressure regulation, measurement, odorization, etc. which is very convenient for installation and operation. Typical models are 1M<sup>3</sup>, 2M<sup>3</sup>, 3M<sup>3</sup>, 5M<sup>3</sup>, 7.2M<sup>3</sup> till 15M<sup>3</sup>. Customization is available upon your specific requirements.



Tel : +86-10-64709959 E-mail : sales@sinocleansky.com

Beijing SinoCleansky Technologies Corp.

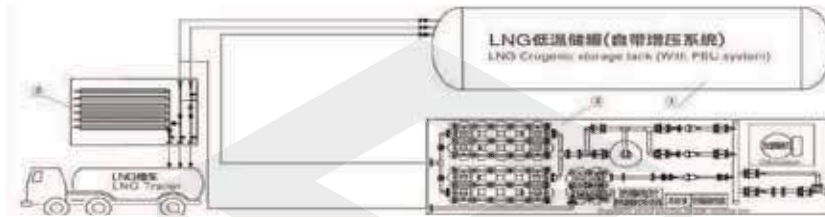


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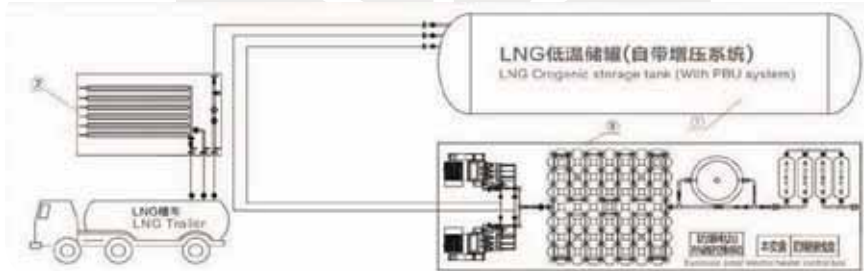
## LNG Bulk Modular Regas Station

- LNG storage tank skid: for LNG storage and the fluid supply, generally purchased or provided directly by the user.
- Unloading PBU skid: for boosting and the constant pressure when the LNG tanker unloading fluid, then the LNG storage tanks can reach the normal fluid pressure difference, so the LNG tankers can irrigation charging.
- When the flow rate  $\geq 1000 \text{Nm}^3/\text{h}$ , it is recommended LNG vaporizer prized separately or foundational separately on-site.



## L-CNG Vehicle Refueling Station

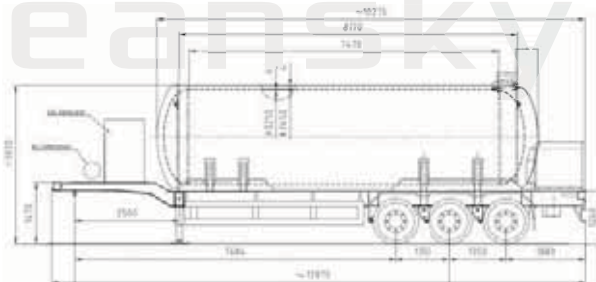
- Skid-mounted and Modular design, customized for you.



## LNG Mobile Refueling station

- A whole station combined into one LNG semi-trailer, incl LNG tanker, submerge pump, dispenser and all accessories.

项目	Description	Inner Vessel	Outer Jacket
最大允许工作压力	MAWP: MPa (psi)	1.2 (175)	-0.1 (14.5)
设计压力	Design Pressure: MPa (psi)	1.32 (191)	-0.1 (14.5)
设计温度	Design Temperature: °C (°F)	-161.4 (-258.5)	50 (122)
材料	Material	SA240 304	Q345R
建造标准	Code	ASME VIII Sec.1	CGA341-2007
贮存介质	Medium	LNG	
本容积	Gross volume: L	33,000	
载重量	Payload: kg	12,850	
加液方式	Dispense method	Submerged Pump	
泵	Pump	TC-34	
最小加气速率	Min. Dispensing Rate: (gpm/Lpm)	10/38	
最大加气速率	Max. Dispensing Rate: (gpm/Lpm)	100/378	
最大加气压力	Max. Dispensing Pressure: (psig/barg)	210/14.4	
接受罐最大压力	Max Receiving Tank Pressure: (psig/barg)	143/10	



## Cases on site





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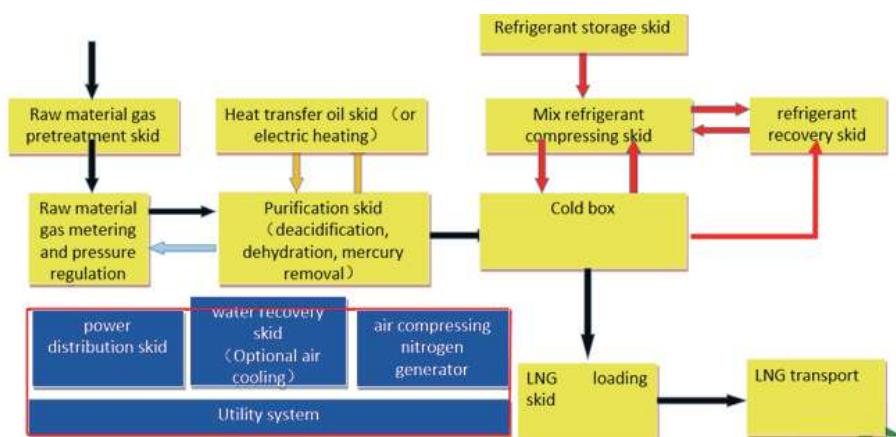


## Mini LNG Liquefaction Plant (Bio-LNG Plant)



- The proven solution for producing LNG on Mini-scale, more efficient and effective than ever;
- Core technology and own complete process package of MRC for Mini LNG;
- The whole plant is skid-mounted, easy to deploy and relocate;
- We have the first and only test platform for Mini LNG, caters for all your demands on Mini LNG with dynamic tests.

### Flow chart of Mini-LNG plant





LOX  
LIN  
LAR  
LCO  
LNG



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### Specs of Gasooo demo Mini-LNG plant

Daily capacity : 50000Nm<sup>3</sup>/day

Raw material gas pressure regulate, and metering.

Design flow rate 2291.3Nm<sup>3</sup>/h ; Actual operation 2083Nm<sup>3</sup>/h ;

Inlet pressure 0.4MPa , outlet 4.1MPa .

Purification unit

Design flow rate 2083Nm<sup>3</sup>/h ; Actual operation 2046Nm<sup>3</sup>/h ;

Inlet pressure 4.03MPa , outlet 3.92MPa .

Cold box

Flow rate 2046Nm<sup>3</sup>/h ; Actual operation 2046Nm<sup>3</sup>/h ;

Inlet pressure 3.89 MPa , outlet 0.3MPa .

Output : Standard LNG -157°C

Technology : MRC



Raw material gas filtration, metering, pressure regulation Unit



Dehydration and mercury removal Unit



Mixed refrigerant compressor Unit

### Major Unit of Mini-LNG plant (Skid-mounted, Modular design)



Cold box unit



Desulfurization Unit



Dust filter Unit



Recycling and reuse of refrigerant Unit



**SinoCleansky**

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**SinoCleansky**



**CNGLNG**



**Victank Microbulk**

**北京华科天洁科技有限责任公司**  
**BEIJING SINOCLEANSKY TECHNOLOGIES CORP**

地址/Add: 北京市朝阳区望京SOHO  
Wangjing SOHO, Chaoyang District,  
Beijing, P. R. China Post Code 100102

电话/Tel: +86-10-64709959

E m a i l : [sales@sinocleansky.com](mailto:sales@sinocleansky.com)

网址/Web: [www.sinocleansky.com](http://www.sinocleansky.com)