



CRYO GROUP

CRYO Engineering Co., Ltd.

* Please make your inquiries to the Hiratsuka Plant.

■ Hiratsuka Plant

c/o Furukawa Electric Co., Ltd.
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■ Banyu Plant

■ Shinomiya Plant

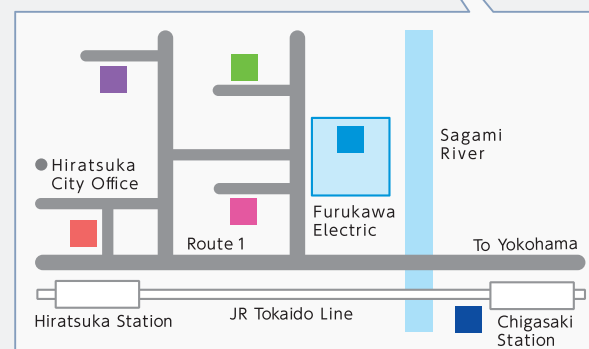
■ Yawata Plant

■ Administrative Center

24-33-301 Akashicho, Hiratsuka
Kanagawa 254-0042 JAPAN

■ Head office

1-8-6-1304 Tomoe, Chigasaki
Kanagawa 253-0056 JAPAN



Corporate Summary

Representative: Sekai Suzuki

Founded: April 2004

Capital: 10million yen

Employees : 15

Major clients: Furukawa Sangyo Kaisha, Ltd., Tokyo Gas Co., Ltd.,
JFE Engineering Corporation, CRYO Engineering Service Co., Ltd.



The CRYO Group and CRYO Engineering Co., Ltd. take care of the entire Terminal Header process from order reception from Furukawa Electric Industrial Cable to delivery and installation.

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COMPANY OVERVIEW



Safety and reliability

Electricity and gas are essential to everyday life.

Two of the sources of that energy are LNG (Liquefied Natural Gas) and LPG (Liquefied Petroleum Gas).

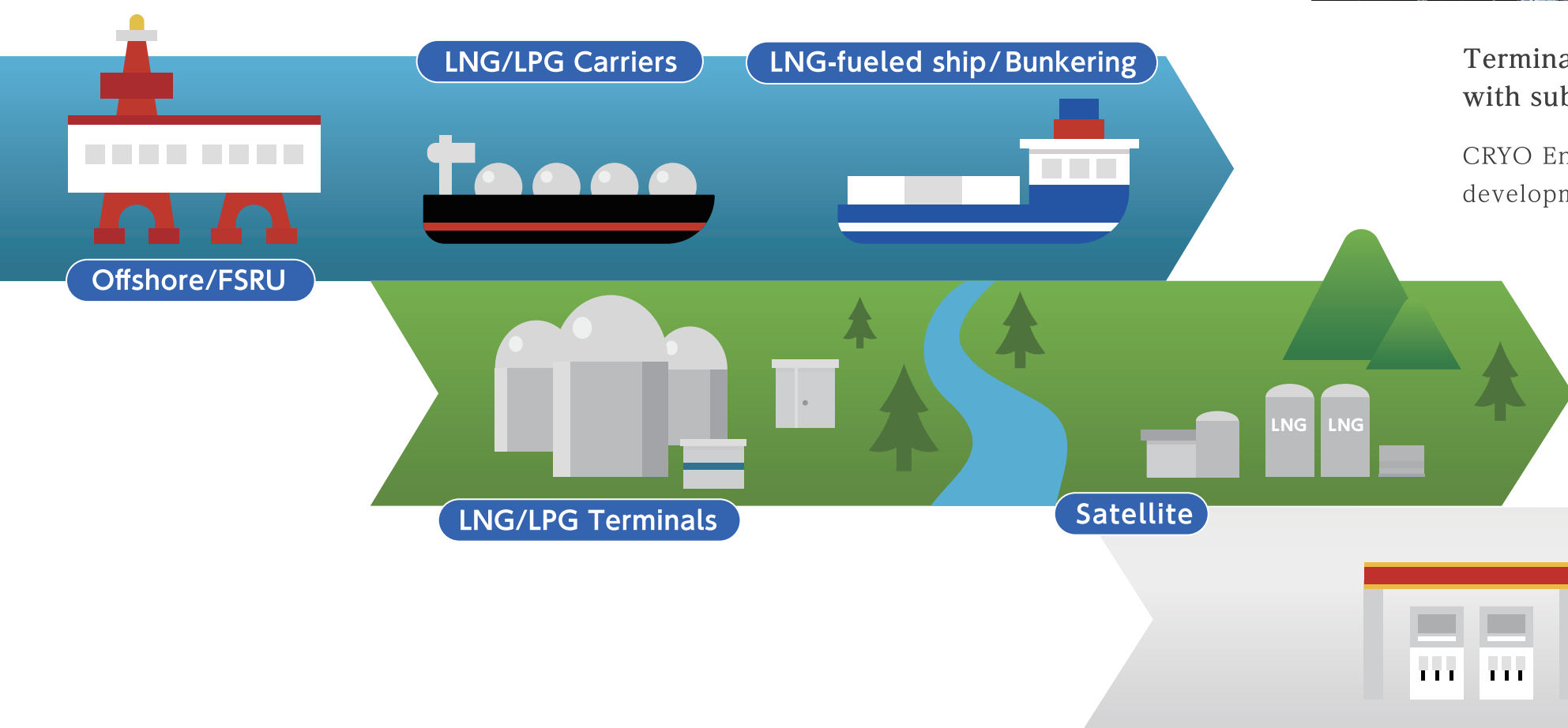
LNG and LPG stored in tanks are moved using pumps.

Those pumps are powered through a product called the Terminal Header.

Because these serve such an important role in supplying energy, stable operation is absolutely crucial.

Safety and reliability ...

We want to expand our role in energy supply beyond Japan to the world.



Terminal Header: Penetration bushings for low temperature cables used with submerged pumps for transferring liquid from LNG/LPG tanks.

CRYO Engineering's Terminal Headers contribute to society's sustainable development in various scenarios within the global energy supply chain.

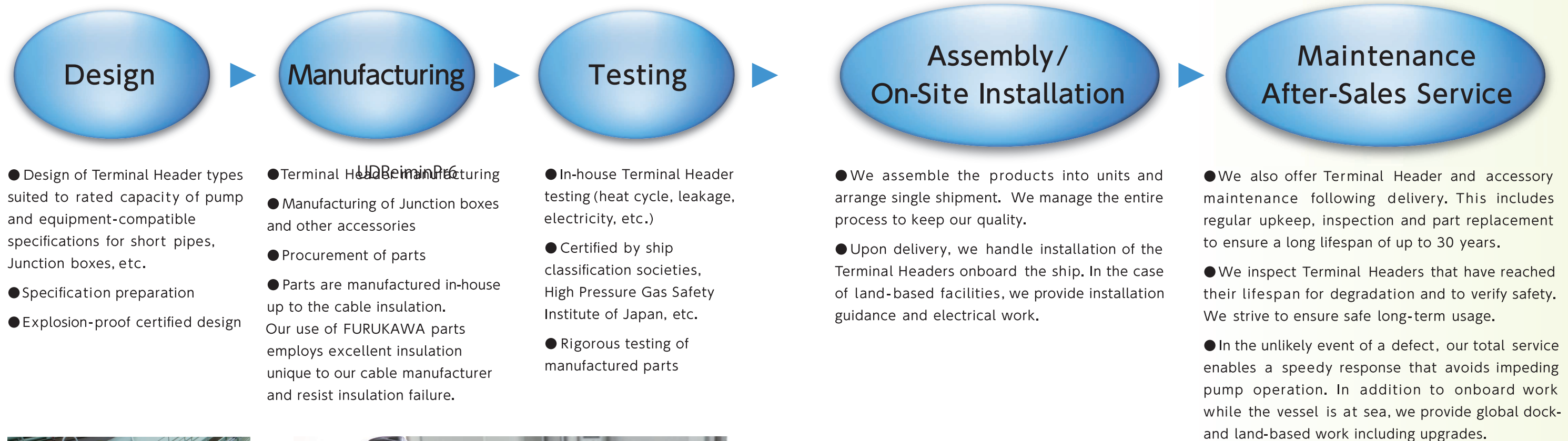


Business Overview

We provide a sense of security to customers with our total service comprising not only strong technical expertise but design, installation and complete after-sales service.

Continuous supply is essential to the LNG supply chain, and CRYO Engineering is committed to fulfilling that responsibility by providing a sense of security through reliability.

Our total service structure enables quick, precise responses that ensure your gas pumps continue to operate safely without stoppage.



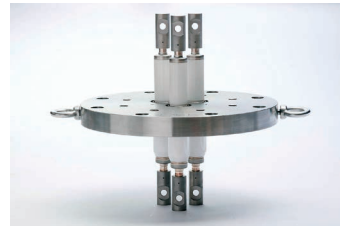
Product Lineup

Terminal Headers

These are suitable for LNG and other types of submerged pumps.



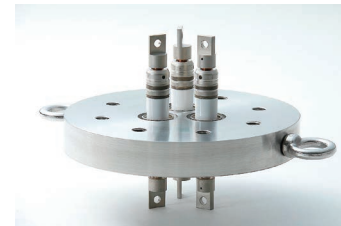
LNG/LPG Terminals



LNG and other carriers,
Offshore



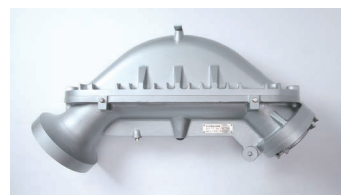
LNG-fueled ships,
Bunkering facilities



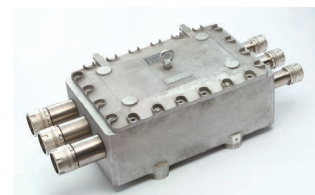
Satellites,
LNG stations

Junction Box (Explosion-proof)

We can also deliver Junction boxes with explosion-proof certification for each country. These have acquired IECEx and ATEX explosion-proof certification and are eligible for domestic certifications such as India's PESO and South Korea's KCs.



Junction Box (YR Type)



Junction Box (YS Type)

Accessories

The harsh operational environment of ships and land-based facilities, including temperatures as low as -162°C, require insulating parts developed to be sufficiently durable and terminals and other accessories developed in consideration of site construction requirements. With on-site installation included, we reduce the burden on our customers.



Protection Box
(Explosion-proof)



Short Pipes



Cable gland



Terminal



Connector for Cryogenic cable

We are the only manufacturer that delivers not only Terminal Headers but cryogenic cables, Junction boxes and other accessories as units, reducing the time you spend on design and procurement.

CRYO's Terminal Header installed by;

(As of July 2019)

LNG/LPG Terminals

Tokyo Gas Co., Ltd.
Hokkaido Gas Co., Ltd.
TOBU GAS Co., Ltd.
Gas Bureau, City of Sendai
TOHO GAS Co., Ltd.
Osaka Gas Co., Ltd.
HIROSHIMA GAS Co., Ltd.
Saibugas Co., Ltd.
JERA Co., Inc.
Formerly known as;
• TEPCO
• CHUBU Electric Power Co., Inc.
Hokkaido Electric Power Co., Inc.
The Kansai Electric Power Co., Inc.
NIHONKAI LNG CO., LTD.
INPEX CORPORATION
JX Nippon LNG Service Company, Limited
SHIMIZU LNG CO., LTD.
CHITA LNG Co., Ltd.
SAKAI LNG Co., Inc.
MIZUSHIMA LNG Co., Ltd.
Sakaide LNG Company, Incorporated
Kitakyushu Liquefied Natural Gas CO., INC.
Oita Liquefied Natural Gas Company, Inc.

CPC Corporation, TAIWAN
KOREA GAS CORPORATION
SHANGHAI GAS CO., LTD.
Iran Oil Gas NETWORK
etc.

■ For LNG/LPG Terminals
Terminal Headers: approx. 1,200

LNG/LPG Carriers, FSRU

Mitsubishi Shipbuilding Co., Ltd.
Kawasaki Heavy Industries, Ltd.
Mitsui E&S Shipbuilding Co., Ltd.
IMABARI SHIPBUILDING Co., LTD.
Japan Marine United Corporation

Daewoo Shipbuilding & Marine Engineering Co., Ltd.
Samsung Heavy Industries Co., Ltd.
HYUNDAI HEAVY INDUSTRIES Co., LTD.
STX Offshore & Shipbuilding Co., Ltd.

Nippon Yusen Kabushiki Kaisha
Mitsui O.S.K. Lines, Ltd.
Kawasaki Kisen Kaisha, Ltd.
IINO KAIUN KAISHA, LTD.
JX Ocean Co., Ltd.
Malaysia International Shipping Corporation
etc.

Total carriers of supply
LNG carriers : 330
LPG carriers : 80
FSRU : 20

■ For LNG/LPG Carriers, FSRU
Terminal Headers: Approx. 6,000
Includes new carriers and replacement/repair
of MI cables, etc.

Major Clients

FURUKAWA SANGYO KAISHA, LTD.
SHINKO IND. LTD.
Tokyo Gas Co., Ltd.
JFE Engineering Corporation
CENTRAL ELECTRIC WORKS COMPANY
CRYO Engineering Service Co., Ltd.