BOILERS / PLANTS

KOREA, CHANGWON FACTORY (HEAD OFFICE)

KANGRIM HEAVY INDUSTRIES CO., LTD.

KANGRIM FACTORY LOCATION

CHANGWON FACTORY

POHANG FACTORY

FACTORY PROFILE

KOREA CHANGWON	• AREA : 69,300 ㎡	• BUILDING : 52,800 ㎡
KOREA POHANG	• AREA : 168,300 ㎡	• BUILDING : 105,600 ㎡
KOREA BUSAN	• AREA : 46,200 ㎡	• BUILDING : 64,350 ㎡
CHINA CHANGZHOU	• AREA : 66,000 ㎡	• BUILDING : 33,000 ㎡

CHANGZHOU FACTORY

BUSAN FACTORY

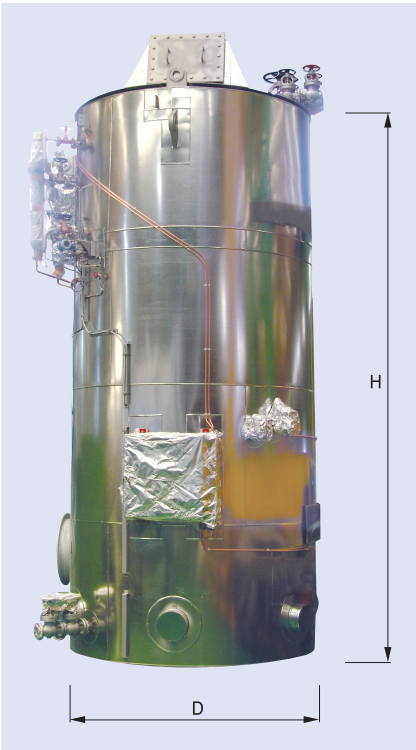
■Note : Some contents of this catalogue are subject to change without notice.

MARINE PRODUCTS

- Marine Aux. Boiler (Cylindrical / Two Drum)
- Marine Composite Boiler
- Marine Dual Fuel (DF) Boiler
- Electric Boiler
- Control Panel
- Marine Exhaust Gas Boiler / Economizer
- Inert Gas Generator / System
- N_2 Generator (Pressure Swing Adsorption Type)
- SOx Scrubber (Exhaust Gas Cleaning System) (EGCS)
- Gas Combustion Unit (GCU)
- Waste Oil Incinerator
- Air Reservoir
- LNG / LPG / LEG / CO_2 Tank
- Hot Water Calorifier
- Methanol Tank
- Hatch Cover
- Ship Structures

MARINE AUXILIARY BOILER

PA-TYPE (CYLINDRICAL)



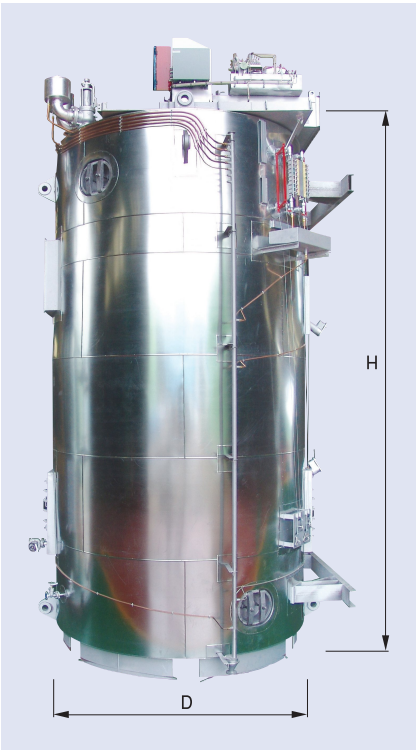
Capacity table

Type	Steam Capacity (ton/hr)	Working Pressure (kg/㎠)	Dimension(㎜)		Dry Weight (ton)
			D	H	
PA 01	1.6	7.0	1,600	3,700	7.1
PA 02	2.5	7.0	1,800	3,900	8.6
PA 03	3.0	7.0	1,950	4,350	10.1
PA 04	4.0	7.0	1,950	4,550	11.0
PA 05	5.5	7.0	2,200	4,850	14.0
PA 06	6.5	7.0	2,200	5,100	14.8
PA 07	8.0	7.0	2,300	5,550	18.2

1. Dimension : Boiler body (Excluding insulation)
2. Dry weight : Boiler body (Excluding water)
3. Working pressure : According to requirement.

MARINE AUXILIARY BOILER

PB-TYPE (CYLINDRICAL)



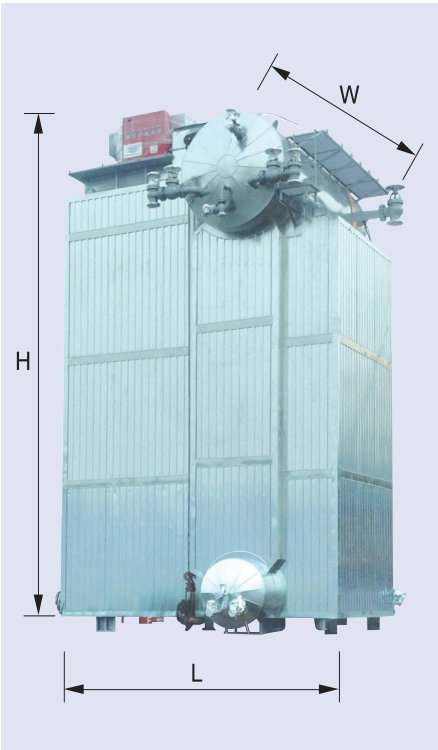
Capacity table

Type	Steam Capacity (ton/hr)	Working Pressure (kg/㎠)	Dimension(㎜)		Dry Weight (ton)
			D	H	
PB 01	12	7.0/16.0	2,500	5,950	19.0
PB 02	16	7.0/16.0	2,900	6,150	24.0
PB 03	20	7.0/16.0	3,050	6,300	27.0
PB 04	25	7.0/16.0	3,150	7,150	30.5
PB 05	30	7.0/16.0	3,400	7,350	35.0
PB 06	35	7.0/16.0	3,700	7,200	40.0
PB 07	40	7.0/16.0	3,700	7,600	42.5
PB 08	45	7.0/16.0	4,100	7,550	49.0
PB 09	55	7.0/16.0	4,350	7,600	56.5

1. Dimension : Boiler body(Excluding insulation)
2. Dry weight : Boiler body(Excluding water)
3. Working pressure : According to requirement.

MARINE AUXILIARY BOILER

PD-TYPE (TWO-DRUM)



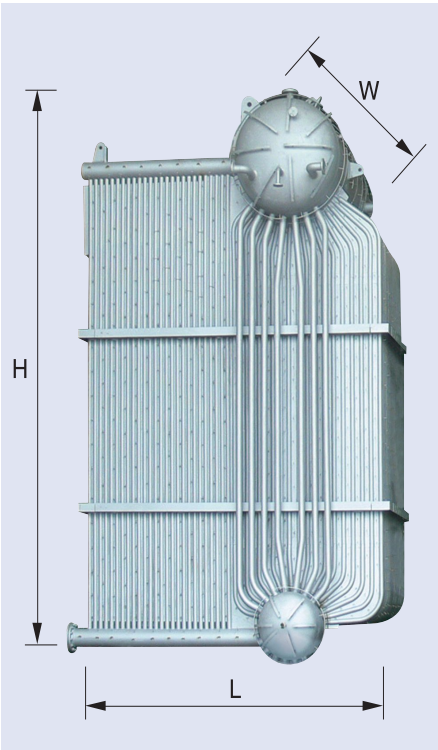
Capacity table

Type	Steam Capacity (ton/hr)	Working Pressure (kg/㎠)	Dimension (㎜)			Dry Weight (ton)
			L	W	H	
PD 01	25	16/22	3,980	3,900	6,950	36.8
PD 02	35	16/22	4,340	4,270	7,400	42.0
PD 03	45	16/22	4,590	4,540	8,300	50.9
PD 04	55	16/22	4,590	4,540	9,200	54.6

1. Dimension : Boiler body (Excluding insulation)
2. Dry weight : Boiler body (Excluding water)
3. Working pressure : According to requirement.
4. Dimension (W) : Steam drum length.
5. For other capacities, please contact us.

MARINE AUXILIARY BOILER

MD-TYPE (TWO-DRUM)



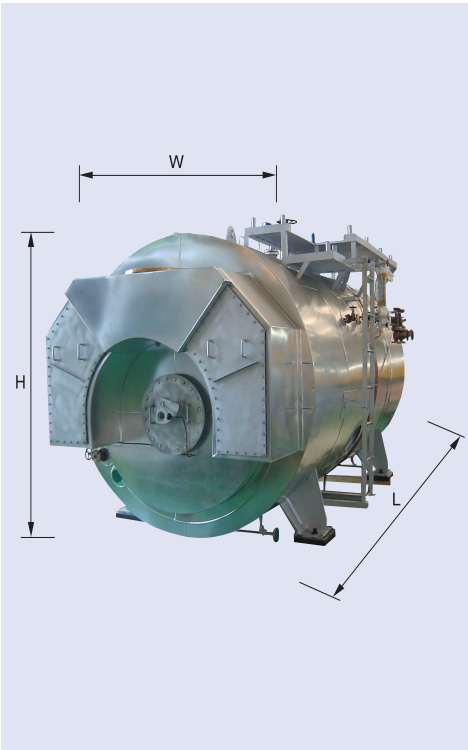
Capacity table

Type	Steam Capacity (ton/hr)	Working Pressure (kg/㎠)	Dimension (㎜)			Dry Weight (ton)
			L	W	H	
MD 01	25	16/22	4,356	3,660	6,620	29.9
MD 02	30	16/22	4,724	3,660	7,120	33.5
MD 03	35	16/22	4,724	3,660	7,600	34.7
MD 04	40	16/22	4,724	3,660	7,920	36.5
MD 05	45	16/22	5,209	4,228	7,920	42.6
MD 06	50	16/22	5,209	4,228	8,420	44.0
MD 07	55	16/22	5,209	4,228	8,900	45.9

1. Dimension : Boiler body (Excluding insulation)
2. Dry weight : Boiler body (Excluding water)
3. Working pressure : According to requirement.
4. Dimension (W) : Steam drum length.
5. For other capacities, please contact us.

MARINE AUXILIARY BOILER

MH-TYPE (HORIZONTAL)



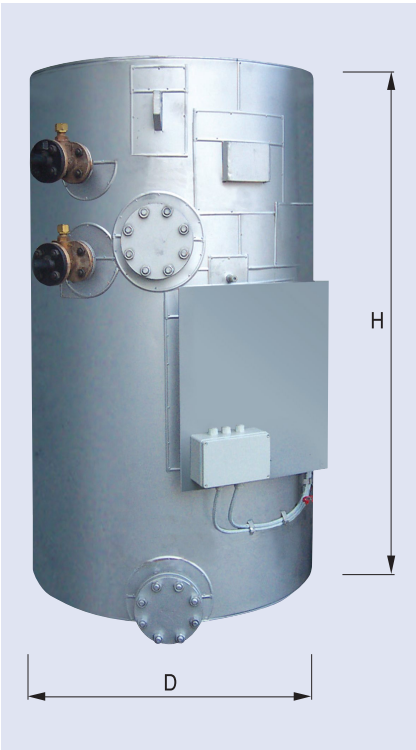
Capacity table

Type	Steam Capacity (ton/hr)	Working Pressure (kg/㎠)	Dimension (㎜)			Dry Weight (ton)
			L	W	H	
MH 01	1.6	7.0	3,576	2,200	2,460	5.4
MH 02	2.5	7.0	3,776	2,450	2,700	6.9
MH 03	3.0	7.0	3,828	2,550	2,784	7.6
MH 04	4.0	7.0	4,578	2,750	2,984	10.2
MH 05	5.5	7.0	4,730	2,950	3,186	12.4
MH 06	6.5	7.0	5,230	3,100	3,345	14.3

1. Dimension : Boiler body (Excluding insulation)
2. Dry weight : Boiler body (Excluding water)
3. Working pressure : According to requirement.

MARINE AUXILIARY BOILER

MS-TYPE (CYLINDRICAL)



Capacity table

Type	Steam Capacity (ton/hr)	Working Pressure (kg/㎠)	Dimension(㎜)		Dry Weight (ton)
			D	H	
PA 01	0.5	7.0	1,142	1,900	2.2
PA 02	1.0	7.0	1,405	2,305	3.5

1. Dimension : Boiler body(Excluding insulation)
2. Dry weight : Boiler body(Excluding water)
3. Working pressure : According to requirement.

MARINE COMPOSITE BOILER

PC-TYPE (CYLINDRICAL)

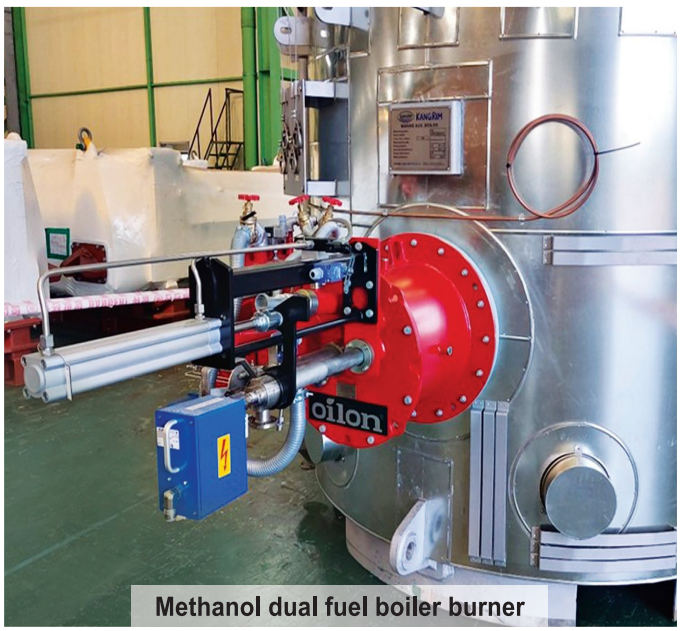
■ Note

1. Caciaty : According to requirement.
2. PC type : Oil fired and exhaust gas boiler. (Composite boiler)

MARINE DUAL FUEL BOILER

LNG/LSFO, METHANOL/LSFO DUAL FUEL

Methanol dual fuel boiler



Methanol dual fuel boiler burner

■Note

1. Caciaty : According to requirement.

ELECTRIC BOILER

ELECTRIC ONLY/COMBINED (ELECTRIC+OIL FIRED) TYPE

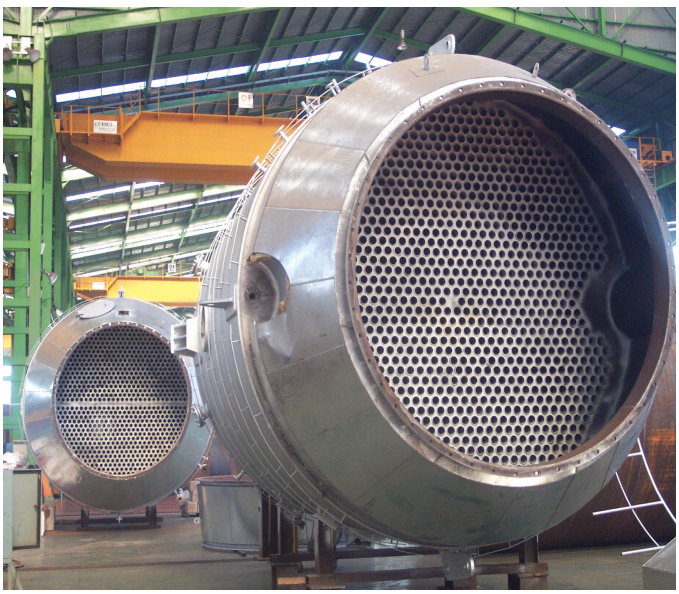
■ Note

1. Caciaty : According to requirement.

CONTROL PANEL

MARINE EXH. GAS BOILER / ECONOMIZER

EA/EB/EM-TYPE



■Note

1. Capacity : According to requirement.
2. EA type : Smoke tube, natural circulation, with steam space.
   EM type : Water fin tube, forced circulation, without steam space.
   EB type : Smoke tube, forced circulation, without steam space.

INERT GAS GENERATOR

FOR TANKER(I.G.G.)

Capacity table

Type	Inert Gas Capacity Range (m^3/hr)
CG01	400 ~ 700
CG02	701 ~ 1,500
CG03	1,501 ~ 2,500
CG04	2,501 ~ 4,000
CG05	4,001 ~ 6,000
CG06	6,001 ~ 9,000
CG07	9,001 ~ 12,500
CG08	12,501 ~ 15,500
CG09	15,501 ~ 21,500
CG10	21,501 ~ 25,500
CG11	25,501 ~ 31,000

INERT GAS GENERATOR

FOR LNG/LPG CARRIER(DRY I.G.G.)

■Note

1. Capacity : Up to 22,500 ㎥/h

INERT GAS SYSTEM

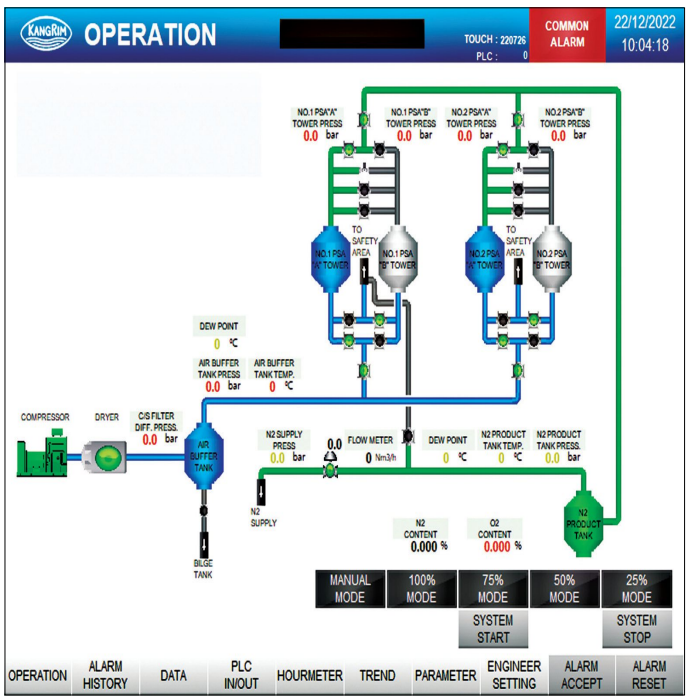
(I.G.S.)

Capacity table

Type	Inert Gas Capacity Range (m^3/hr)
CG01	400 ~ 4,000
CG02	4,001 ~ 6,000
CG03	6,001 ~ 9,000
CG04	9,001 ~ 12,500
CG05	12,501 ~ 15,500
CG06	15,501 ~ 21,500
CG07	21,501 ~ 25,500

N_2 GENERATOR

PRESSURE SWING ADSORPTION TYPE (P.S.A TYPE)



■Note

1. Nitogen purity : 95~99.995%
   Oxygen concentration : 0.1% (1,000ppm) below

SOx SCRUBBER

EXHAUST GAS CLEANING SYSTEM(EGCS)

■ Note

1. Capacity : Up to 28,000 ㎥/h

GAS COMBUSTION UNIT

(G.C.U.)

▲Test shop

■Capacity table

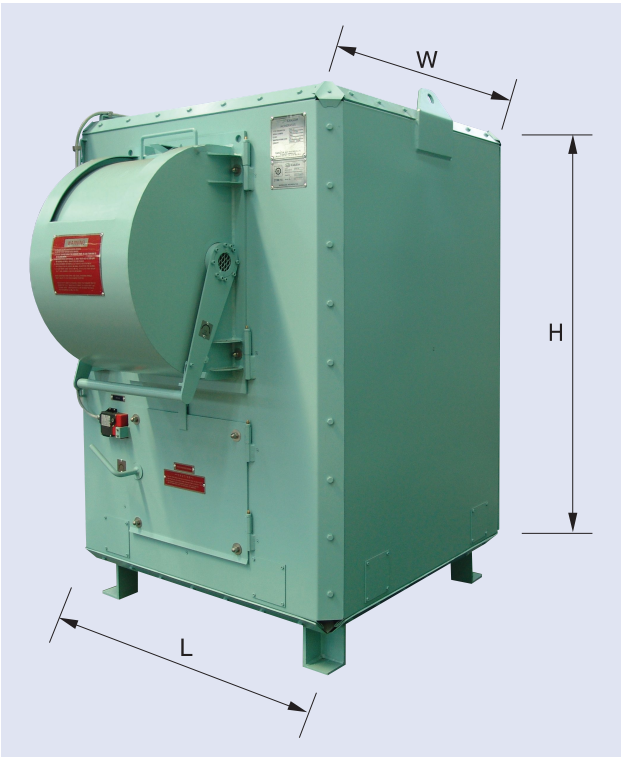
Type	GCU Capacity (Pure CH_4) (ton/hr)	Standard fan arrangement
KHCU01	1.00 ~ 2.30	3 ×50%
KHCU02	2.31 ~ 4.30	4 ×33% or 3 ×50%
KHCU03	4.31 ~ 5.00	4 ×33%
KHCU04	5.01 ~ 8.60	4 ×33% or 5 ×25%

■Note

GCU consist of two chamber between 4.31~8.60ton/h (Pure CH_4)

WASTE OIL INCINERATOR

KFB-TYPE



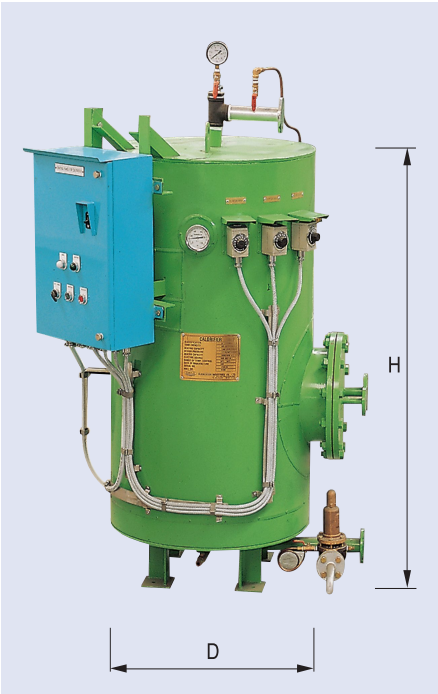
Capacity table

Type	Capacity (kcal/hr)	Dimension(㎜)			Dry Weight (ton)
		L	W	H	
KFB-32	320,000	1,600	1,635	2,250	3.3
KFB-50	520,000	1,680	1,870	2,150	3.7
KFB-73S	730,000	1,910	2,120	2,033	4.0
KFB-110S	1,100,000	2,088	2,405	2,033	6.0
KFB-129	1,290,000	4,525	2,265	2,180	7.7

AIR RESERVOIR

LNG/LPG/LEG/CO_2 TANK

HOT WATER CALORIFIER



Capacity table

Type		Storage Capacity (Liter)	Dimension (㎜)		Dry Weight (kg)
			D	H	
Steam & Electric Type	LF 01	200	530	1,750	230
	LF 02	300	730	1,500	260
	LF 03	500	750	1,800	290
	LF 04	1,000	1,070	1,920	350
	LF 05	2,000	1,420	2,080	680

METHANOL TANK

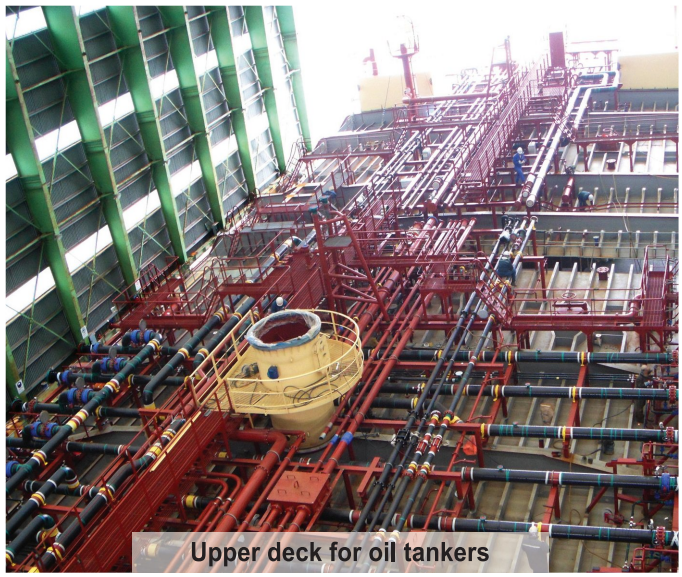
HATCH COVER

SHIP STRUCTURES

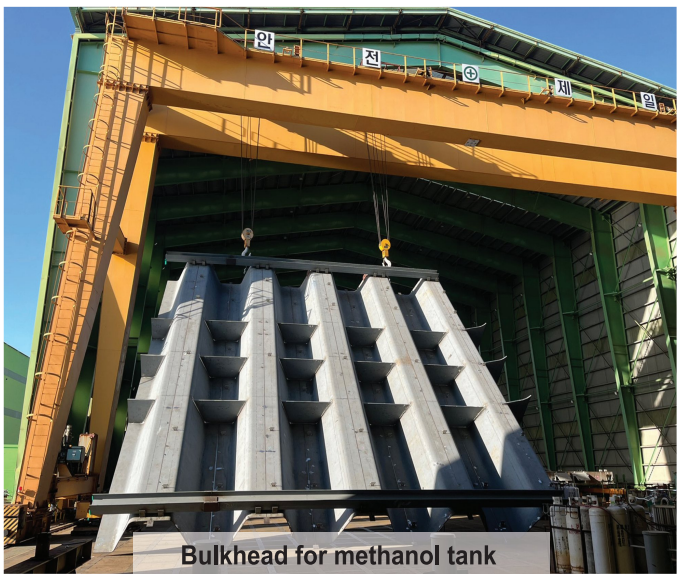
Car deck for Ro-Ro ships

Upper deck for oil tankers

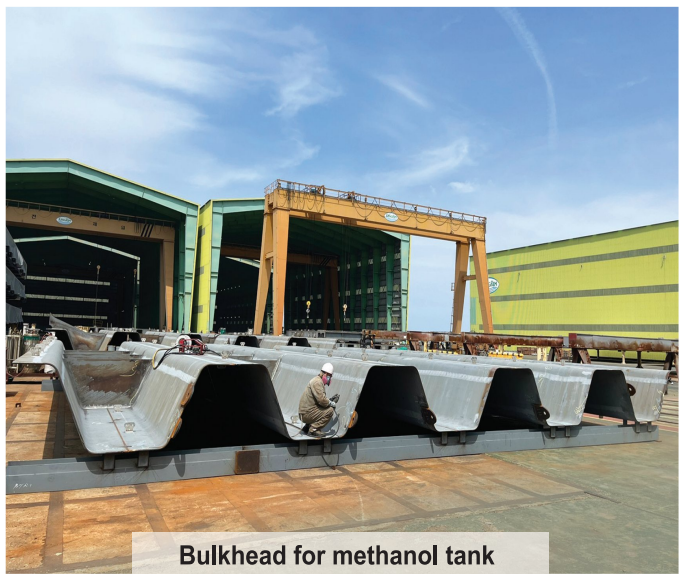
Car deck for Ro-Ro ships



Upper deck for oil tankers



Bulkhead for methanol tank



Bulkhead for methanol tank

PLANT PRODUCTS

- Industrial Package Boiler
  (Membrane Panel, Superheater,
  Drum, Economizer, Header, Piping)
- Steam Drum
- Heat Recovery System Generator (HRSG)
- Pressure Vessel
- Waste Heat Recovery System / Unit
  (WHRS, WHRU)
- Offshore Equipment
- Others

INDUSTRIAL PACKAGE BOILER

MEMBRANE PANEL, SUPERHEATER

KANGRIM HEAVY INDUSTRIES CO., LTD.

ISO9001 ISO14001 ISO45001 ABS

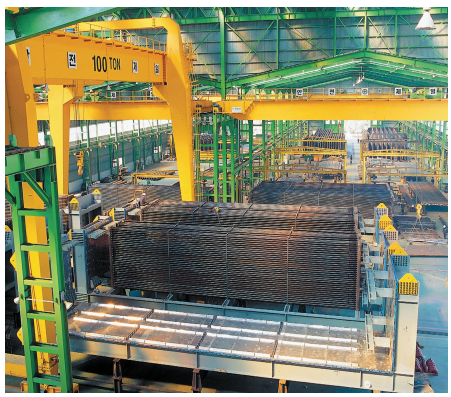
INDUSTRIAL PACKAGE BOILER

DRUM, ECONOMIZER, HEADER, PIPING

STEAM DRUM

HEAT RECOVERY SYSTEM GENERATOR

(H.R.S.G)



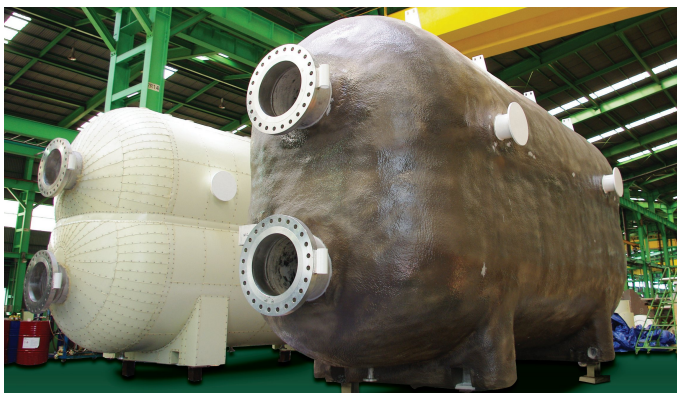
HEAT RECOVERY SYSTEM GENERATOR FIN TUBE

(H.R.S.G FIN TUBE)

KANGRIM HEAVY INDUSTRIES CO., LTD.

ISO9001 ISO14001 ISO45001 ABS

PRESSURE VESSEL



WASTE HEAT RECOVERY SYSTEM

(W.H.R.S)

KANGRIM HEAVY INDUSTRIES CO., LTD.

ISO9001 ISO14001 ISO45001 ABS

WASTE HEAT RECOVERY UNIT

(W.H.R.U)

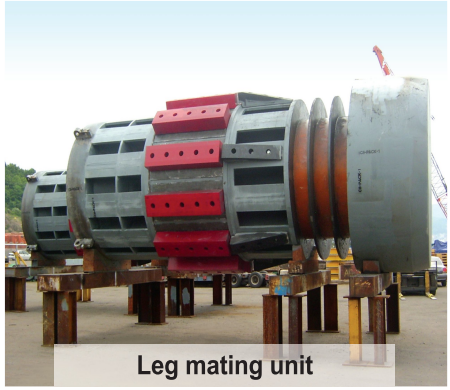
OFFSHORE EQUIPMENT

BULK / MUD TANK

OFFSHORE EQUIPMENT

Reel for pipe laying vessel

KVOC


Leg mating unit

Membrane panel for FLNG

Valve skid for FLNG

Sus tank for PSV

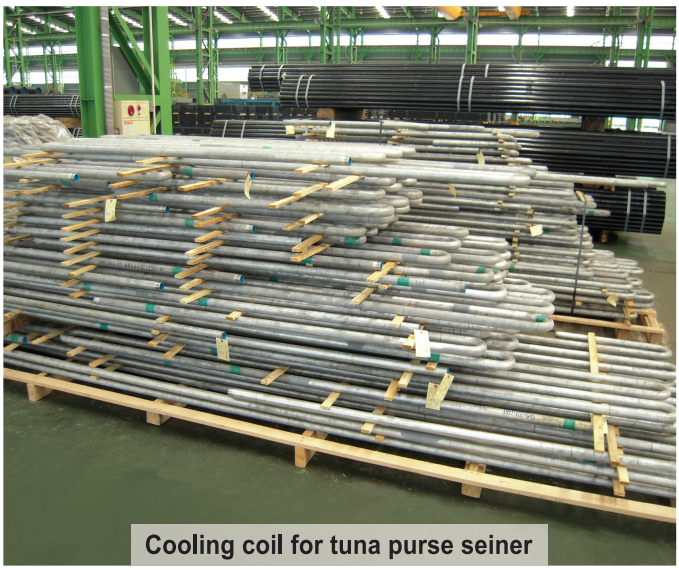
OTHERS

Hood for mill steel factory

Sootblower for power plant

Duct for HRSG

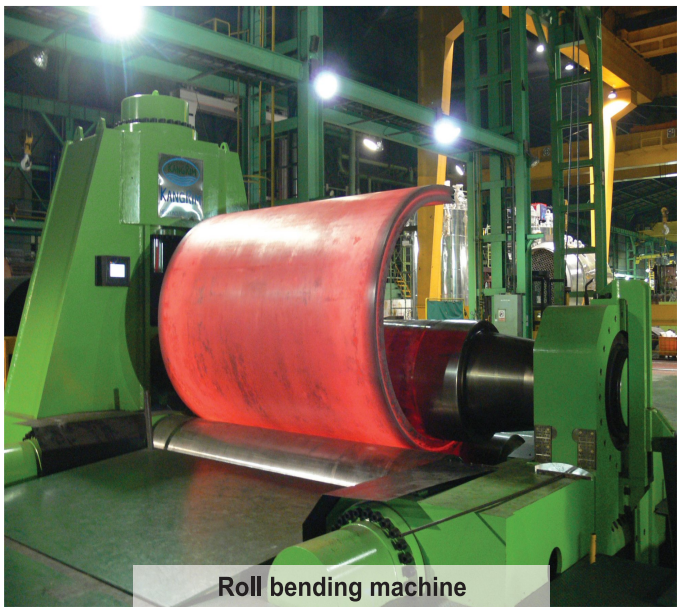
Suction vessel for LNG pump


Cooling coil for tuna purse seiner

Filter module for TGS

PRODUCTION EQUIPMENT

6,000 ton hydraulic press


Roll bending machine

Large size annealing furnace

CNC horizontal boring machine

Large size RT room

Laser cutting machine

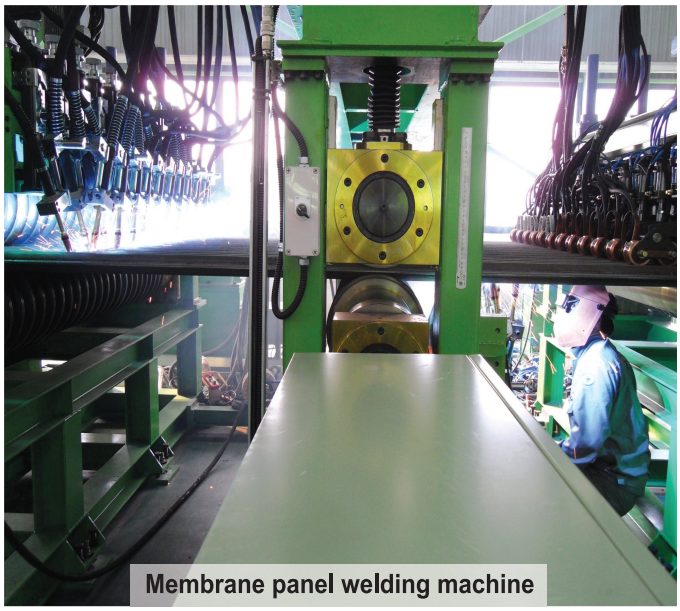
Radial drilling machine

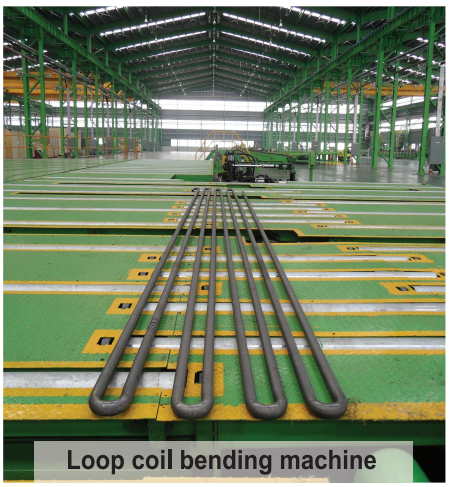
PRODUCTION EQUIPMENT

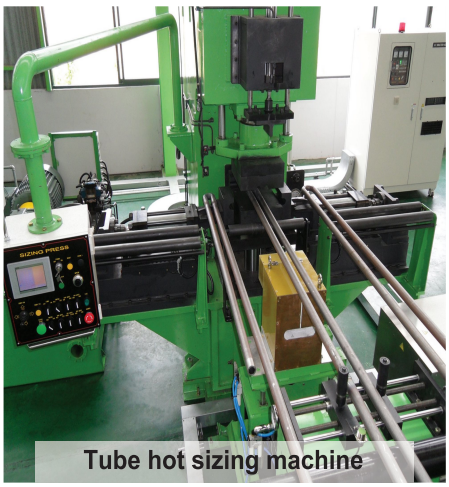
Membrane panel bending machine

CNC horizontal boring machine

Spiral fin tube welding machine


Membrane panel welding machine


Loop coil bending machine


Tube hot sizing machine

Tube auto butt welding machine

SERVICE NETWORK

WORLD WIDE SERVICE STATIONS

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E-mail : kurman@avatecmarine.com

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Germany Germania Shipyard Agency GmbH,
Germany
Tel : +49 4030087799
E-mail : germania@shipyard-agency.de

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Maintenance L.L.C
P.O.Box CS 8096 - Tema Community 7, Ghana
Tel : +233 303974287
E-mail : ghana@kduworld.com

GREECE
Alpha Automation Ltd
Grig. Lampraki 64&Digeni Akrita,
Elefsina 192 00, Greece
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Fax : +30-210-554-4048
E-mail : info@atec.com.gr

GREECE
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220 Syngrou Avenue, Athens 176 72, Greece
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Fax : +30-210-953-2355
E-mail : info@franman.gr

GREECE
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Greece & Cyprus F-WayServ
Tel : +30-210-894-7664
Fax : +30-210-301-6585
E-mail : info@fwayserv.com

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E-mail : sales@modernautomation.com.sg

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611-033 Japan
Tel : +81-774-41-3310
Fax : +81-774-41-3311
E-mail : info@sunframe.net

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3-38, I-chome Nonakakita, Yodogawa-ku,
Osaka, Japan
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Fax : +81-6396-7609

JAPAN
Volcano Service Co.,/ Mihara Office
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Hiroshima-pref, Japan
Tel : +81-8486-4-5541
Fax : +81-8486-4-5543

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Volcano Service Co.,/ Tokyo Office
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Minato-ku, Tokyo Japan
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81750 Masai, Johor, Malaysia
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E-mail : marine@ravebo.nl

■Note
1. ★★Kangrim head office, ★Kangrim direct management office.
2. Some contents of this document are subject to change without notice.

SERVICE NETWORK

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NIGERIA
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E-mail : service@panamatek.com

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Modern Marine Automation& Engineering
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Turkiye Atlantis Marine Service Ltd
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Postane Mah. Rauf Orbay Cad, Istanbul, Turkiye
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E-mail : houston@faremarine.jp

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411 A, North Nagle Street, Houston, Texas-77003, U.S.A
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271 East Green Street, Westminister, MD 21157, U.S.A
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E-mail : info@icmarine.com

U.S.A
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Tel : +1-757-995-4149
E-mail : dion@walashek.com

■ Note : It is possible to directly contact Kangrim's several service networks. But we would appreciate that you firstly contact the service team of ★★ Kangrim head office(Korea). They will connect several service networks to suitable each situation for smooth communication and proper service. (e-mail : service@kangrim.com / Tel : +82 55 269 7988)

KANGRIM HEAVY INDUSTRIES CO., LTD.

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76, Yeondeok-ro, Seongsan-gu,
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FAX : +82-55-269-7795 (Rep.)
http : //www.kangrim.com
E-mail : kangrim@kangrim.com

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1111, Haean-ro, Heunghae-eup, Buk-gu, Pohang-si,
Gyeongbuk, Korea.
TEL : +82-54-230-8500 (Rep.) FAX : +82-54-230-8544 (Rep.)

CHANGZHOU FACTORY
Kohler Road 8#, Xinbei-Area Changzhou City, Jiangsu China.
TEL : +86-519-8822-3601 (Rep.) FAX : +86-519-8822-3626 (Rep.)
http : //www.kangrim.com

KANGRIM INSULATION CO., LTD.

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72, Myeongnyesandan5-ro, Jangan-eup,
Gijang-gun, Busan-si, Korea.
TEL : +82-51-220-6000 (Rep.)
FAX : +82-51-220-6006 (Rep.)
http : //www.kangrim.com
E-mail : business5@kangrim.com

KR2406

INSULATION

KOREA, BUSAN FACTORY (KANGRIM INSULATION)

KANGRIM INSULATION CO., LTD.

KANGRIM FACTORY LOCATION

CHANGWON FACTORY

POHANG FACTORY

FACTORY PROFILE

KOREA CHANGWON	• AREA : 69,300 ㎡	• BUILDING : 52,800 ㎡
KOREA POHANG	• AREA : 168,300 ㎡	• BUILDING : 105,600 ㎡
KOREA BUSAN	• AREA : 46,200 ㎡	• BUILDING : 64,350 ㎡
CHINA CHANGZHOU	• AREA : 66,000 ㎡	• BUILDING : 33,000 ㎡

CHANGZHOU FACTORY

BUSAN FACTORY

■Note : Some contents of this catalogue are subject to change without notice.

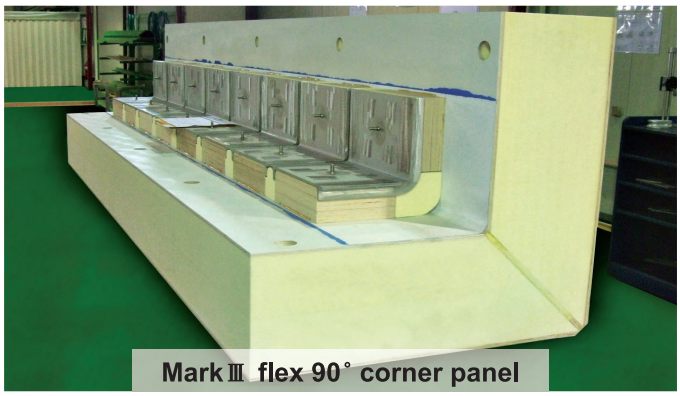
INSULATION PRODUCTS

- LNG (Membrane) Cargo Tank Insulation
  (GTT MARK Ⅲ / MARK Ⅲ Flex / NO96 L03, KOGAS KC-1 / KC-2)
- LNG / LEG / LPG Cargo Tank Insulation
  (Panel / Foam-In-Situ / Spray type, IHI SPB type)
- LNG / LEG / LPG Cargo Pipe Insulation
- Plant / Offshore (FLNG) / Onshore Insulation
- LNG Receiving Terminal Insulation
- Cold Provision Stores
- Cargo Hold Insulation (Reefer Vessel, Juice Carrier, etc)

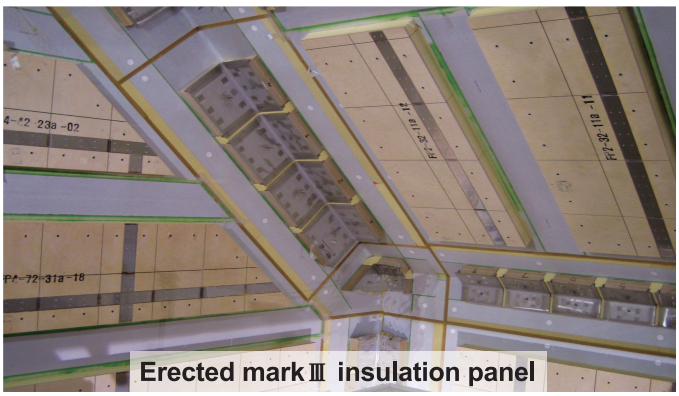
LNG CARRIER

TANK INSULATION (GTT, MARK Ⅲ / NO96 LO3 TYPE)

Mark Ⅲ flex 135˚ corner panel



Mark Ⅲ flex 90˚ corner panel

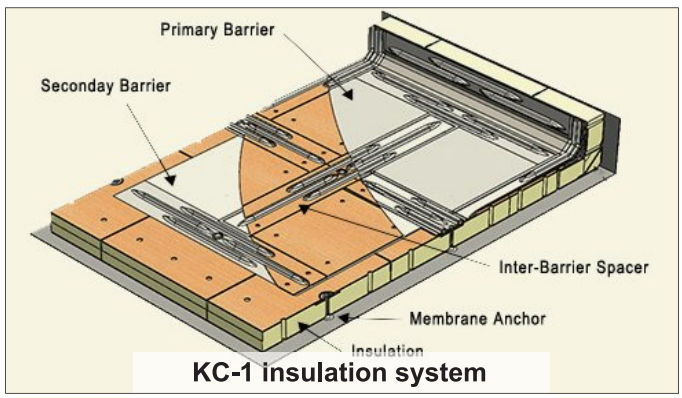


Erected mark Ⅲ insulation panel

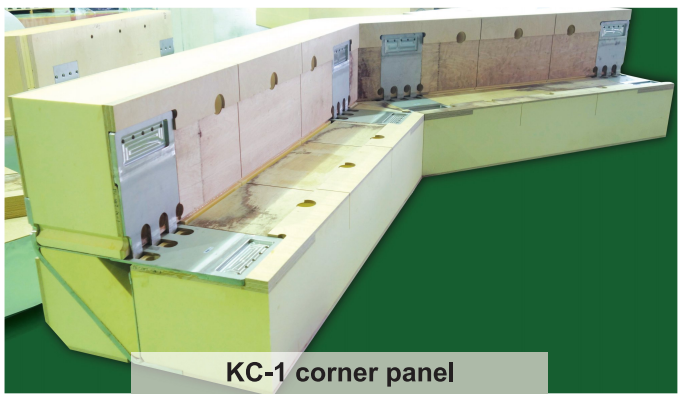
NO96 L03 insulation panel

LNG CARRIER

TANK INSULATION (KOGAS, KC-1 / KC-2)

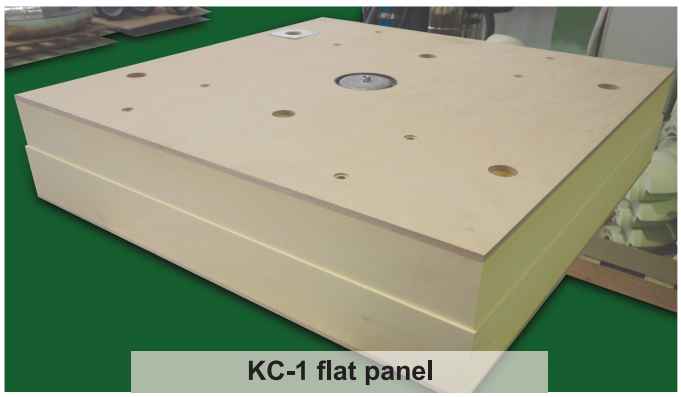


KC-1 insulation system



KC-1 corner panel

Erected KC-1 insulation panel



KC-1 flat panel

LNG / LEG / LPG CARRIER

TANK INSULATION (PANEL TYPE)

Prismatic type tank insulation

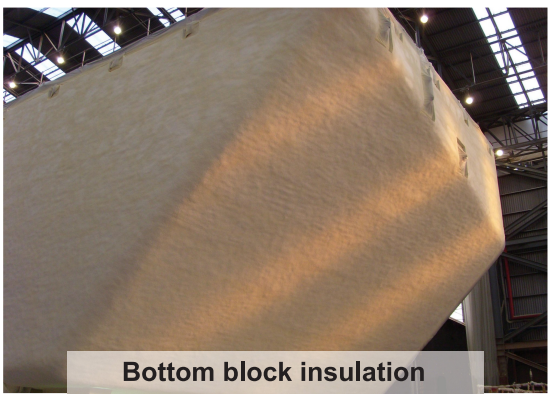
BiLobe type tank insulation

Cylindrical type tank insulation

LNG / LEG / LPG CARRIER

TANK INSULATION (SPRAY TYPE)

Upper block insulation



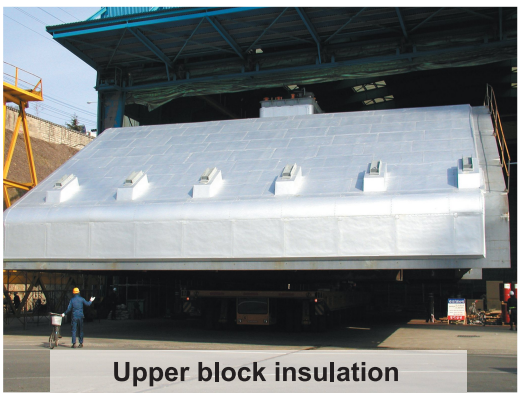
Bottom block insulation

BiLobe type cargo tank insulation

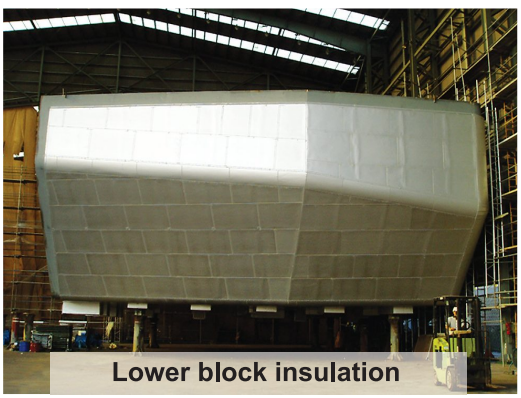
KANGRIM INSULATION CO., LTD.

LNG / LEG / LPG CARRIER

TANK INSULATION (FOAM-IN-SITU)



Upper block insulation



Lower block insulation

Prismatic type LPG cargo tank insulation

LNG FUEL TANK/BUNKERING VESSEL

TANK & PIPE INSULATION

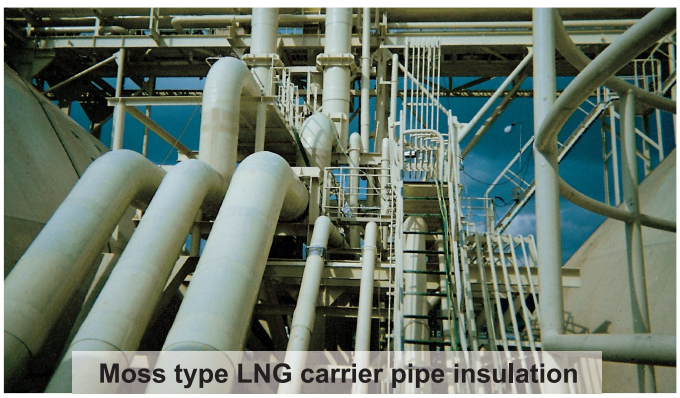
LNG tank insulation for bunkering vessel

LNG pipe insulation for fuel tank

KANGRIM INSULATION CO., LTD.

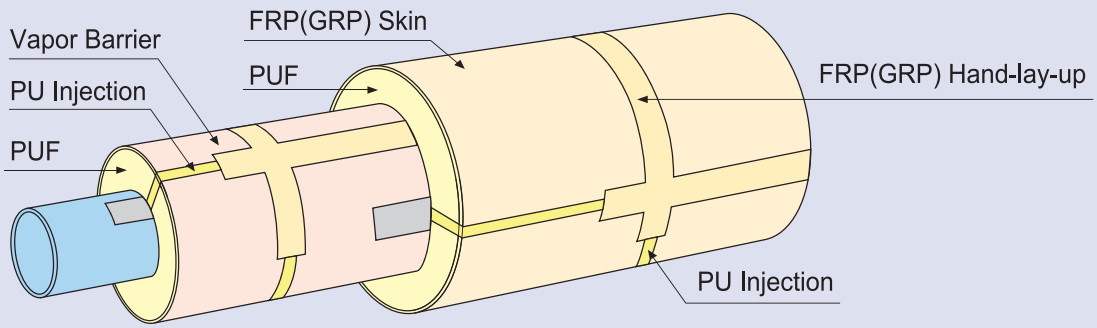
LNG CARRIER

PIPE INSULATION



Moss type LNG carrier pipe insulation

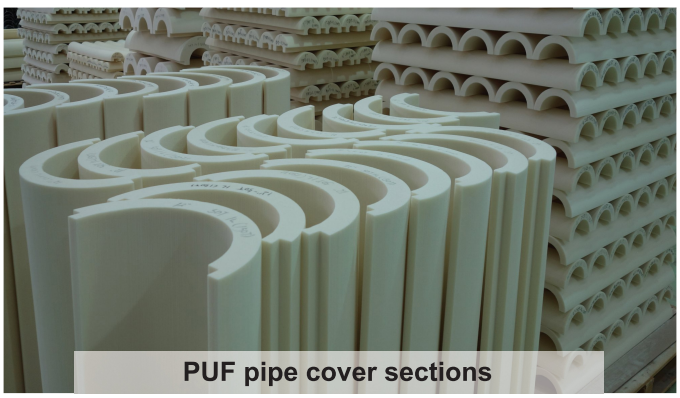
Moulded sections of pipe insulation



Insulation construction

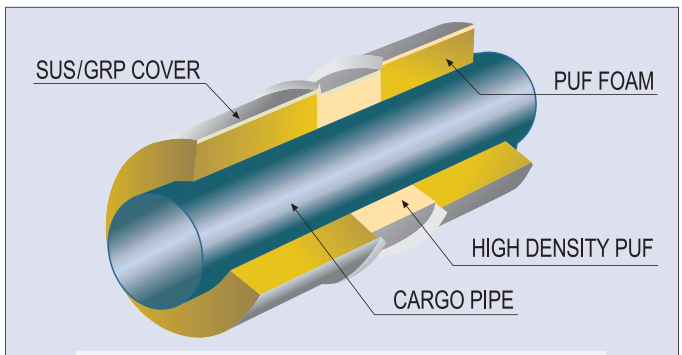
LEG / LPG CARRIER

PIPE INSULATION

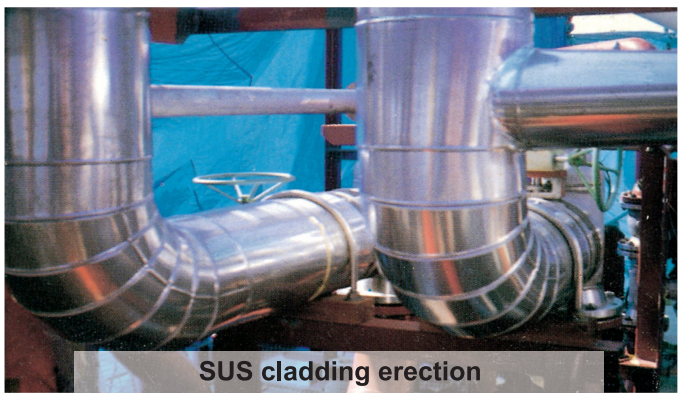


PUF pipe cover sections

GRP cladding erection



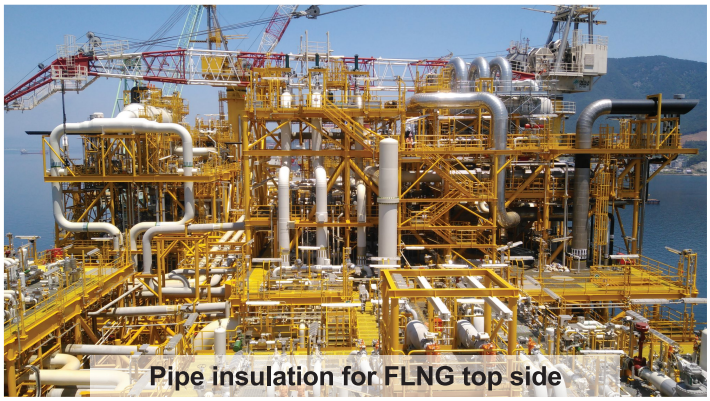
Insulation construction



SUS cladding erection

FLNG / OFFSHORE

TANK & PIPE INSULATION



Pipe insulation for FLNG top side

PMR & ethane tank insulation for FLNG

Vessel insulation for FLNG top side

ONSHORE / PLANT

TANK & PIPE INSULATION

Cold insulation

Vessel insulation

Vessel insulation

Sound insulation

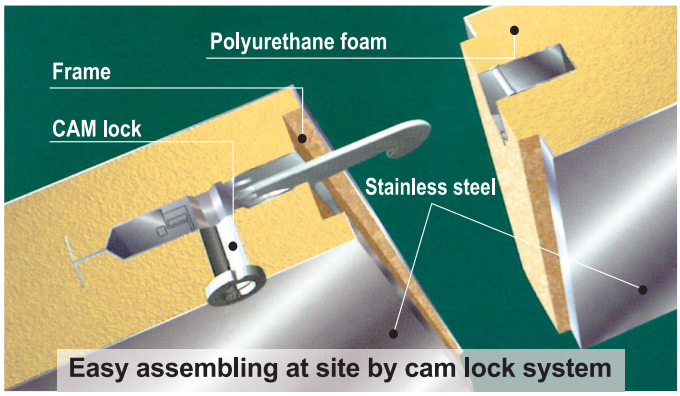
Personal protection

KANGRIM INSULATION CO., LTD.

ISO9001 ISO14001 ISO45001 ABS

COLD PROVISION STORES

FOR SHIP



Easy assembling at site by cam lock system

Stainless steel shelf

Cold chamber for cruise ship

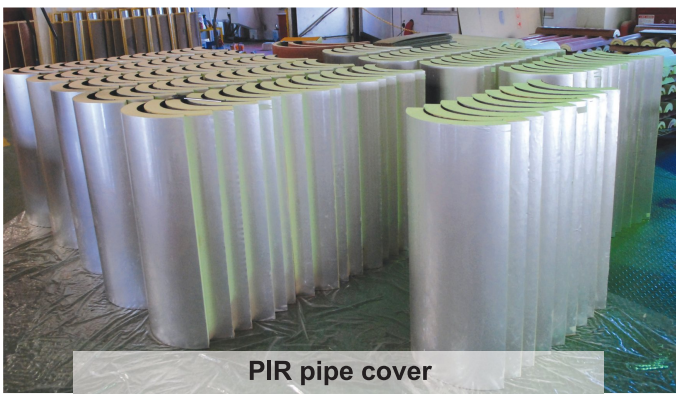
Insulation door for cruise ship

LNG RECEIVING TERMINAL

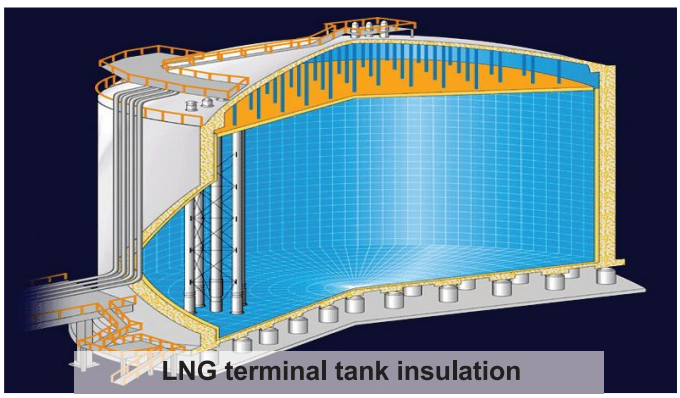
TANK & PIPE INSULATION

LNG terminal pipe insulation

SNG pipe insulation



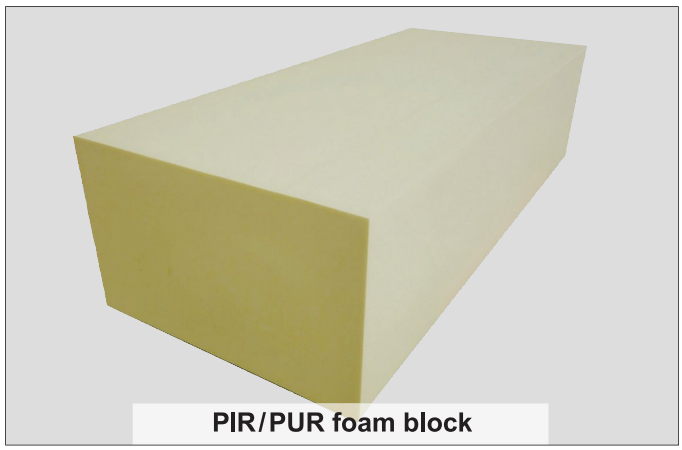
PIR pipe cover



LNG terminal tank insulation

KANGRIM INSULATION CO., LTD.

RIGID PIR/PUR FOAM



PIR/PUR foam block

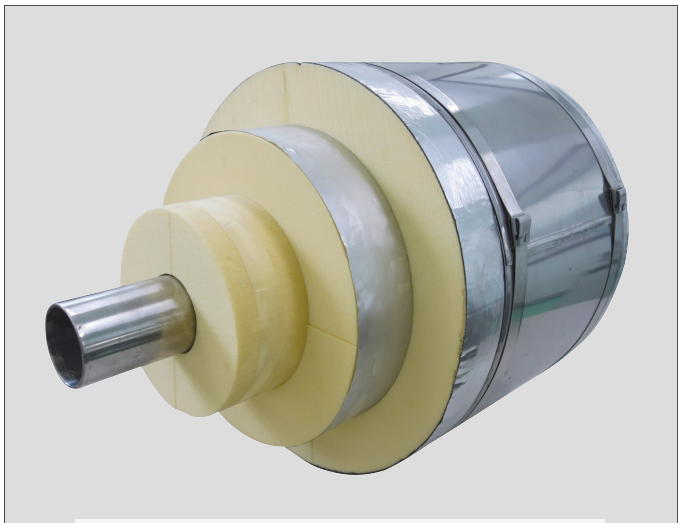
Continuous foaming line

Name	Norminal Density(kg/㎥)	Blowing Agent	Operating Temp(℃)	Test Method
KRFOAM	35, 40, 50, 60 160, 320	HCFC, HFC CO_2	Max. +120 Min. -200	ASTM D1622, D1621, D1623, C518, D6226, E84, DIN4102 Class B2

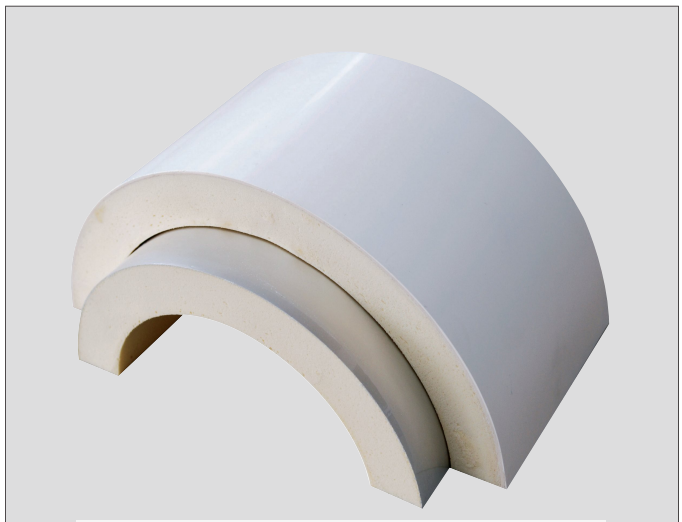
■Note : Other density and specificated products can be supplied according to order specification.

PIR/PUR PIPE COVER

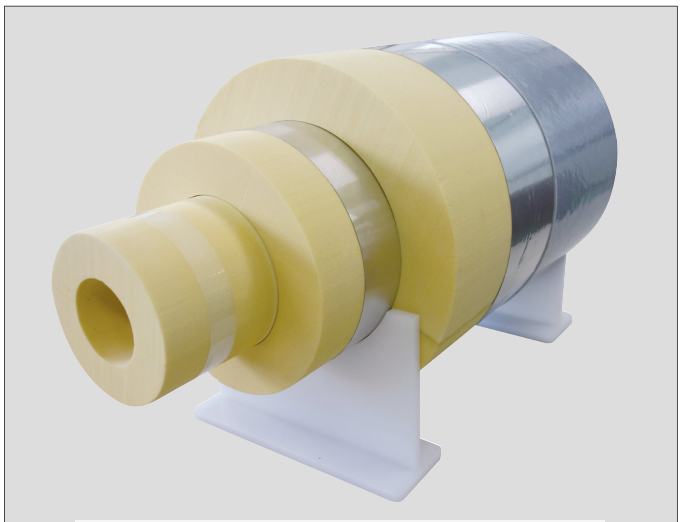
3D cutting elbow cover



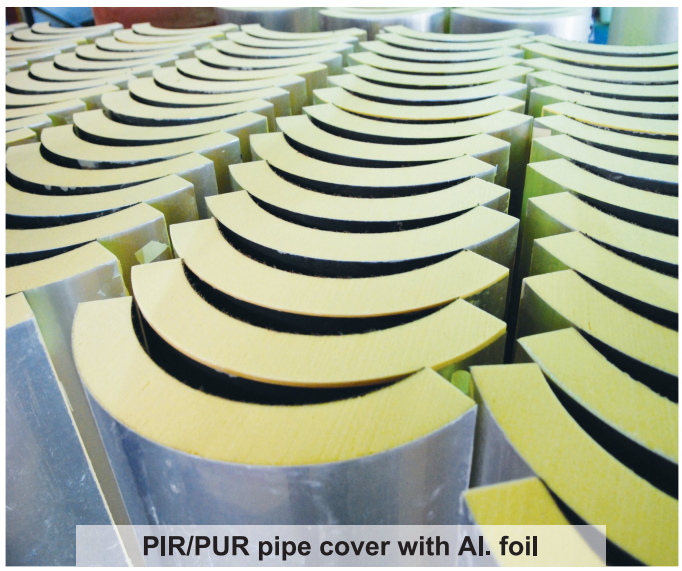
PIR/PUR pipe cover with SUS jacketing



PIR/PUR pipe cover with GRP/FRP



PIR/PUR pipe cover with UV cured GRP



PIR/PUR pipe cover with Al. foil

PIR/PUR elbow cover

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■Note
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2. Some contents of this document are subject to change without notice.

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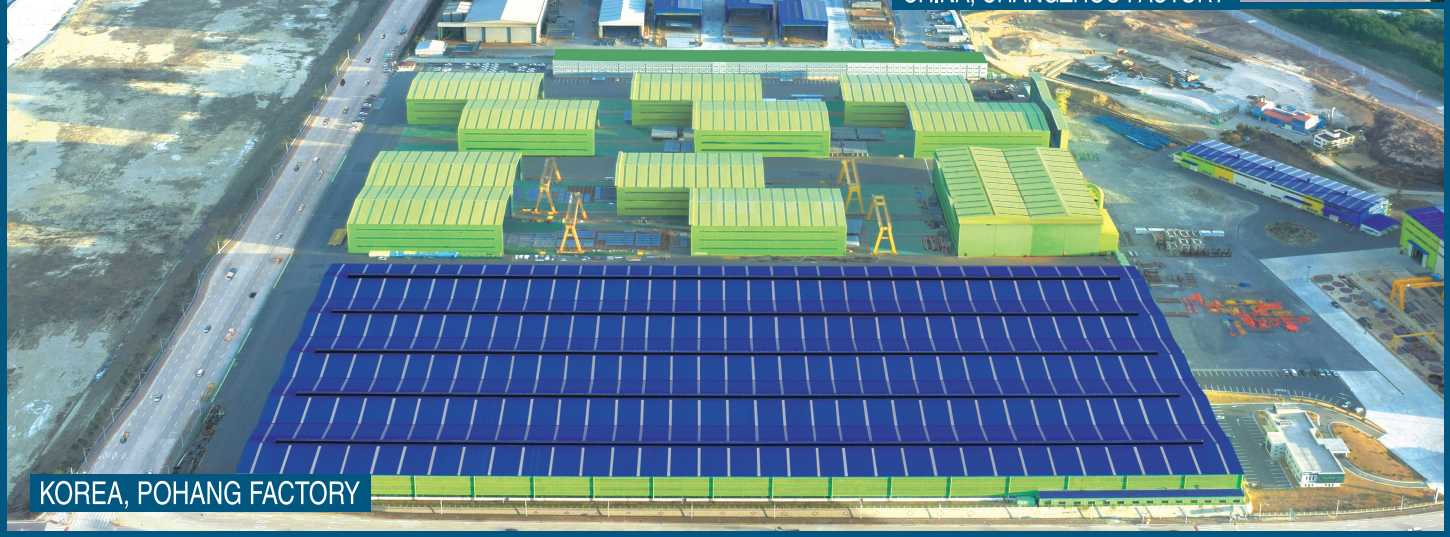

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