



CHINA, CHANGZHOU FACTORY

KOREA, POHANG FACTORY



KOREA, BUSAN FACTORY (KANGRIM INSULATION)



KANGRIM HEAVY INDUSTRIES CO., LTD.

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BOILERS / PLANTS



KANGRIM HEAVY INDUSTRIES CO., LTD.





KANGRIM FACTORY LOCATION



FACTORY PROFILE

KOREA CHANGWON	• AREA : 69,300m ²	• BUILDING : 52,800m ²
KOREA POHANG	• AREA : 168,300m ²	• BUILDING : 105,600m ²
KOREA BUSAN	• AREA : 46,200m ²	• BUILDING : 64,350m ²
CHINA CHANGZHOU	• AREA : 66,000m ²	• BUILDING : 33,000m ²



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

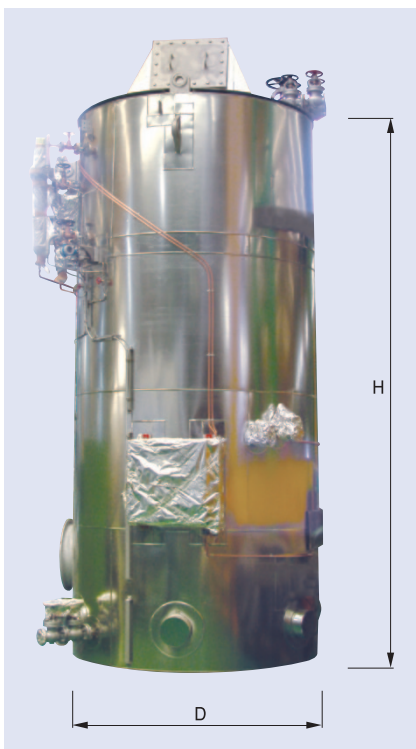
MARINE PRODUCTS

- Marine Aux. Boiler (Cylindrical / Two Drum)
- Marine Composite Boiler
- Marine Dual Fuel (DF) Boiler
- Control Systems of Equipment (Design, Fabrication and Testing)
- Marine Exhaust Gas Boiler / Economizer
- Inert Gas Generator / System
- N₂ Generator (Pressure Swing Adsorption Type)
- SO_x Scrubber (Exhaust Gas Cleaning System) (EGCS)
- Gas Combustion Unit (GCU)
- Waste Oil Incinerator
- Air Reservoir
- LNG / LPG / LEG / CO₂ Tank
- Hot Water Calorifier
- Methanol Tank
- Hatch Cover
- Ship Structures



MARINE AUXILIARY BOILER

PA-TYPE (CYLINDRICAL)



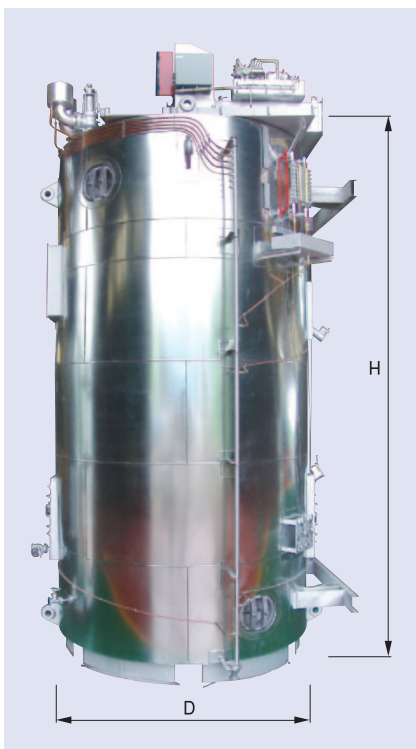
■ Capacity table

Type	Steam Capacity (ton/hr)	Working Pressure (kg/cm ²)	Dimension(mm)		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/cm ²)	Dimension (mm)		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.

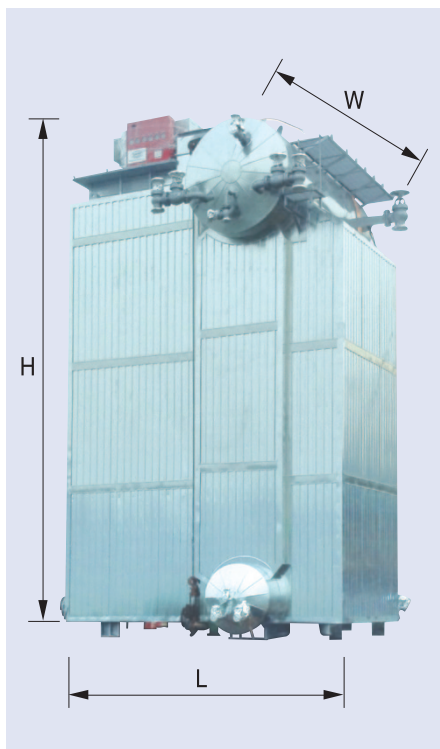


KANGRIM HEAVY INDUSTRIES CO., LTD.



MARINE AUXILIARY BOILER

PD-TYPE (TWO-DRUM)



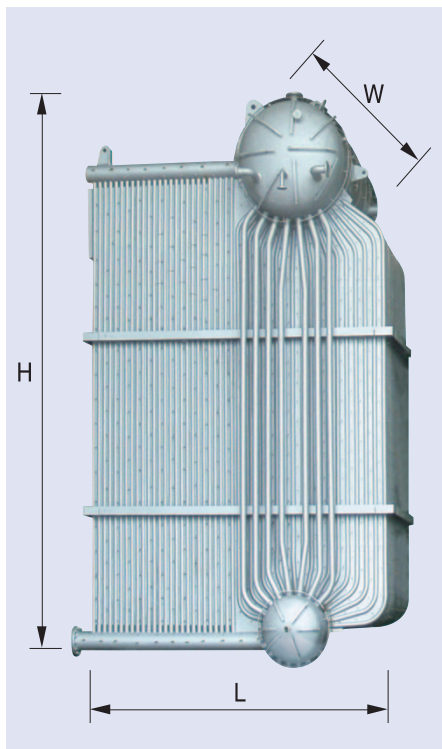
Capacity table

Type	Steam Capacity (ton/hr)	Working Pressure (kg/cm ²)	Dimension(mm)			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/cm ²)	Dimension(mm)			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.

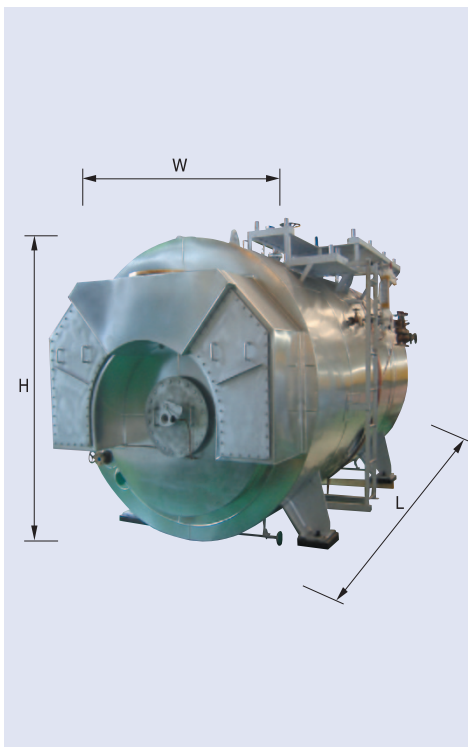


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MARINE AUXILIARY BOILER

MH-TYPE (HORIZONTAL)



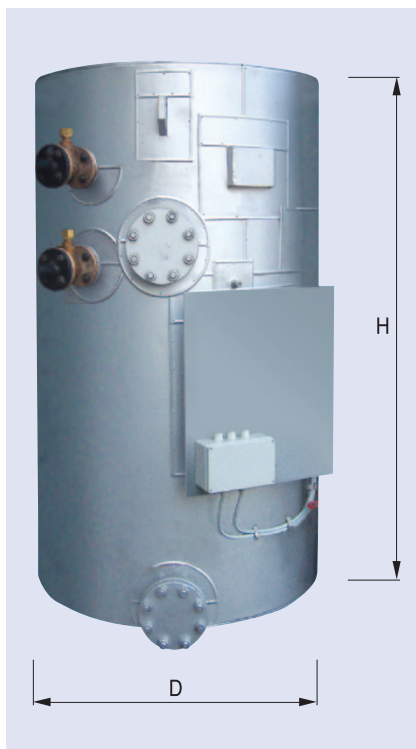
Capacity table

Type	Steam Capacity (ton/hr)	Working Pressure (kg/cm ²)	Dimension(mm)			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/cm ²)	Dimension(mm)		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.



KANGRIM HEAVY INDUSTRIES CO., LTD.



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. Capacity : According to requirement.



KANGRIM HEAVY INDUSTRIES CO., LTD.



ELECTRIC BOILER

ELECTRIC ONLY/COMBINED (ELECTRIC+OIL FIRED) TYPE



■Note

1. Caciaty : According to requirement.

CONTROL PANEL

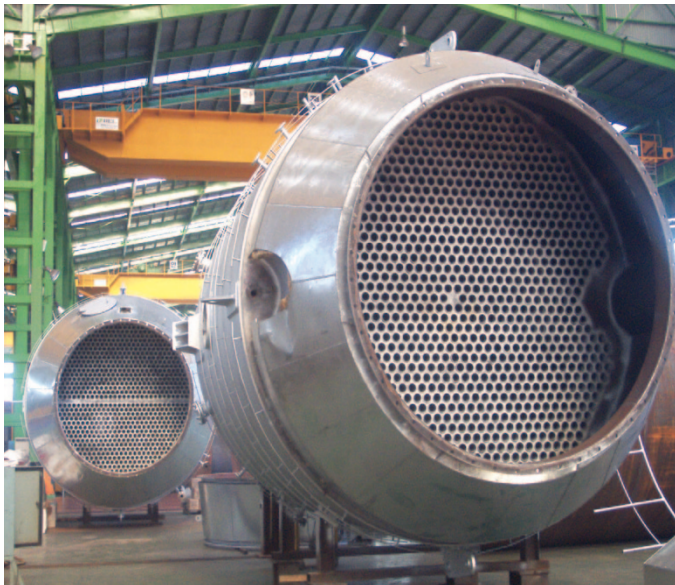


KANGRIM HEAVY INDUSTRIES CO., LTD.



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



KANGRIM HEAVY INDUSTRIES CO., LTD.



INERT GAS GENERATOR

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



■ Note

1. Capacity : Up to 22,500m³/h

INERT GAS SYSTEM

(I.G.S.)

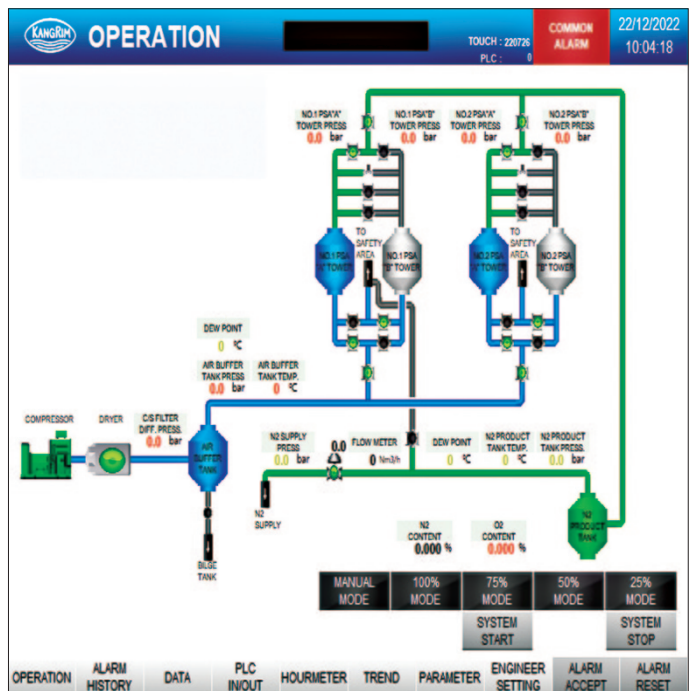


■ Capacity table

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

N₂ GENERATOR

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



■ Note

- Nitrogen 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 m³/h



KANGRIM HEAVY INDUSTRIES CO., LTD.



GAS COMBUSTION UNIT (G.C.U.)



▲ Test shop



Capacity table

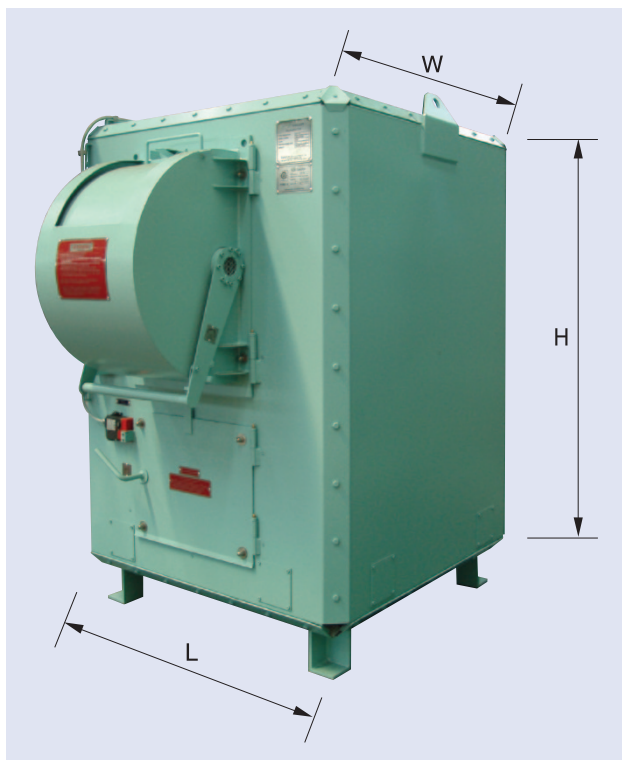
Type	GCU Capacity (Pure CH ₄) (ton/hr)	Standard fan arrangement
KHCU01	1.00 ~ 2.30	3 × 50%
KHCU02	2.31 ~ 4.30	4 × 33% or 3 × 50%
KHCU03	4.31 ~ 5.00	4 × 33%
KHCU04	5.01 ~ 8.60	4 × 33% or 5 × 25%

■ Note

GCU consist of two chamber between 4.31~8.60ton/h (Pure CH₄)

WASTE OIL INCINERATOR

KFB-TYPE



■ Capacity table

Type	Capacity (kcal/hr)	Dimension(mm)			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



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AIR RESERVOIR



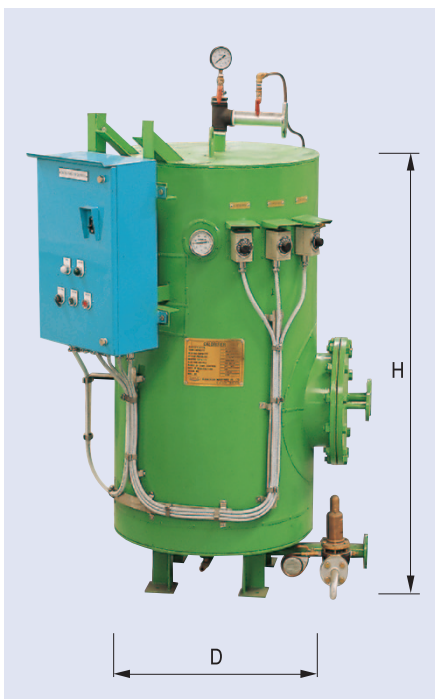
LNG/LPG/LEG/CO₂ TANK



KANGRIM HEAVY INDUSTRIES CO., LTD.



HOT WATER CALORIFIER



■ Capacity table

Type		Storage Capacity (Liter)	Dimension (mm)		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



KANGRIM HEAVY INDUSTRIES CO., LTD.



HATCH COVER



SHIP STRUCTURES



Car deck for Ro-Ro ships



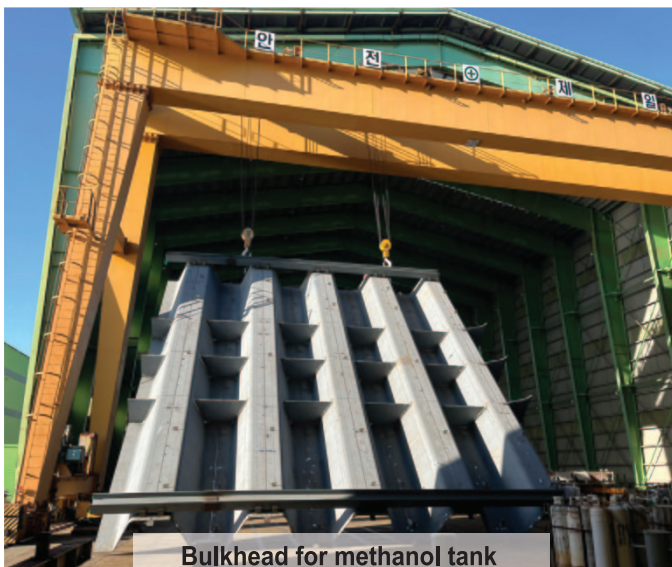
Upper deck for oil tankers



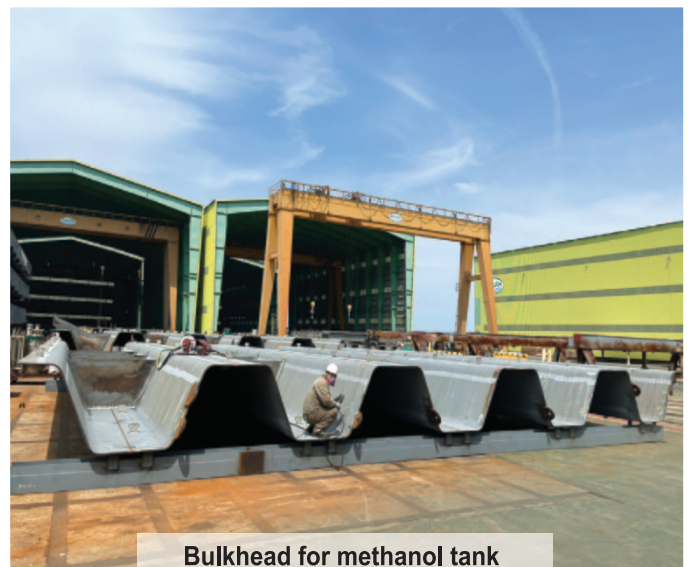
Car deck for Ro-Ro ships



Upper deck for oil tankers



Bulkhead for methanol tank



Bulkhead for methanol tank



KANGRIM HEAVY INDUSTRIES CO., LTD.



PLANT PRODUCTS

- Industrial Package Boiler
- Steam Drum
- Heat Recovery Steam Generator (HRSG)
- Pressure Vessel
- Waste Heat Recovery Steam / Unit (WHRS, WHRU)
- Offshore Equipment
- Others



INDUSTRIAL PACKAGE BOILER



KANGRIM HEAVY INDUSTRIES CO., LTD.



INDUSTRIAL PACKAGE BOILER

BOILER PRESSURE PARTS



STEAM DRUM



KANGRIM HEAVY INDUSTRIES CO., LTD.



HEAT RECOVERY STEAM GENERATOR (H.R.S.G)



HEAT RECOVERY STEAM GENERATOR FIN TUBE

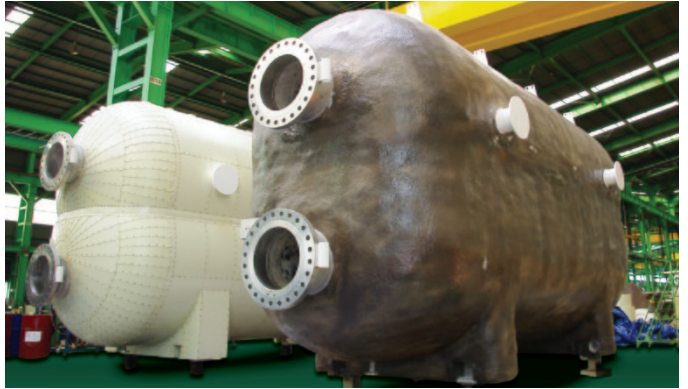
(H.R.S.G FIN TUBE)



KANGRIM HEAVY INDUSTRIES CO., LTD.



PRESSURE VESSEL



WASTE HEAT RECOVERY SYSTEM

(W.H.R.S)



KANGRIM HEAVY INDUSTRIES CO., LTD.



WASTE HEAT RECOVERY UNIT (W.H.R.U)



OFFSHORE EQUIPMENT

BULK/MUD TANK



KANGRIM HEAVY INDUSTRIES CO., LTD.



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



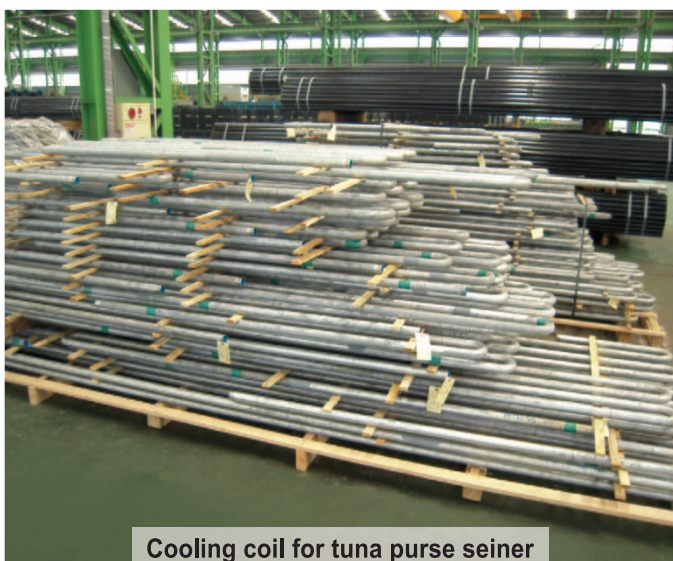
Sootblower for power plant



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



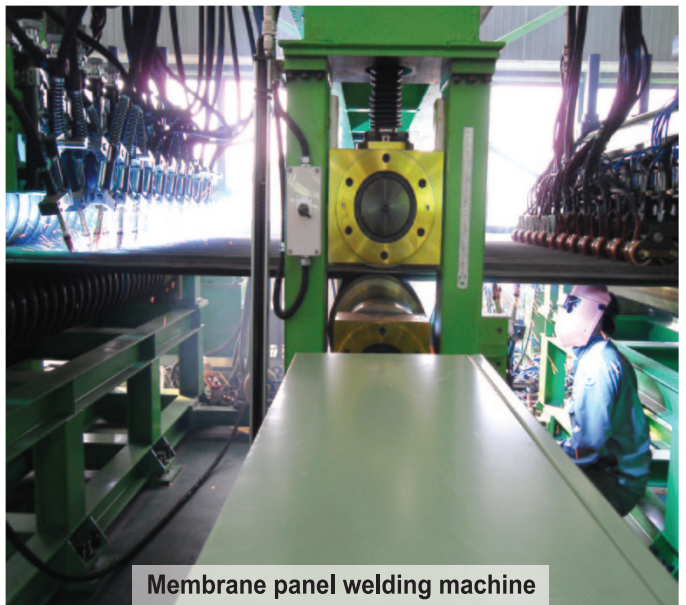
Membrane panel bending machine



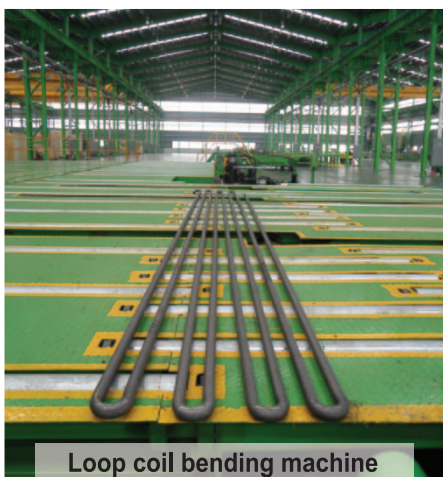
CNC horizontal boring machine



Spiral fin tube welding machine



Membrane panel welding machine



Loop coil bending machine



Tube hot sizing machine



Tube auto butt welding machine



KANGRIM HEAVY INDUSTRIES CO., LTD.



A/S NETWORK

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■ Note

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

A/S NETWORK

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