



# KANGRIM Company Introduction

**Marine, Plant/Offshore, Insulation  
(full version)**

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## KANGRIM

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# 1. Company Introduction



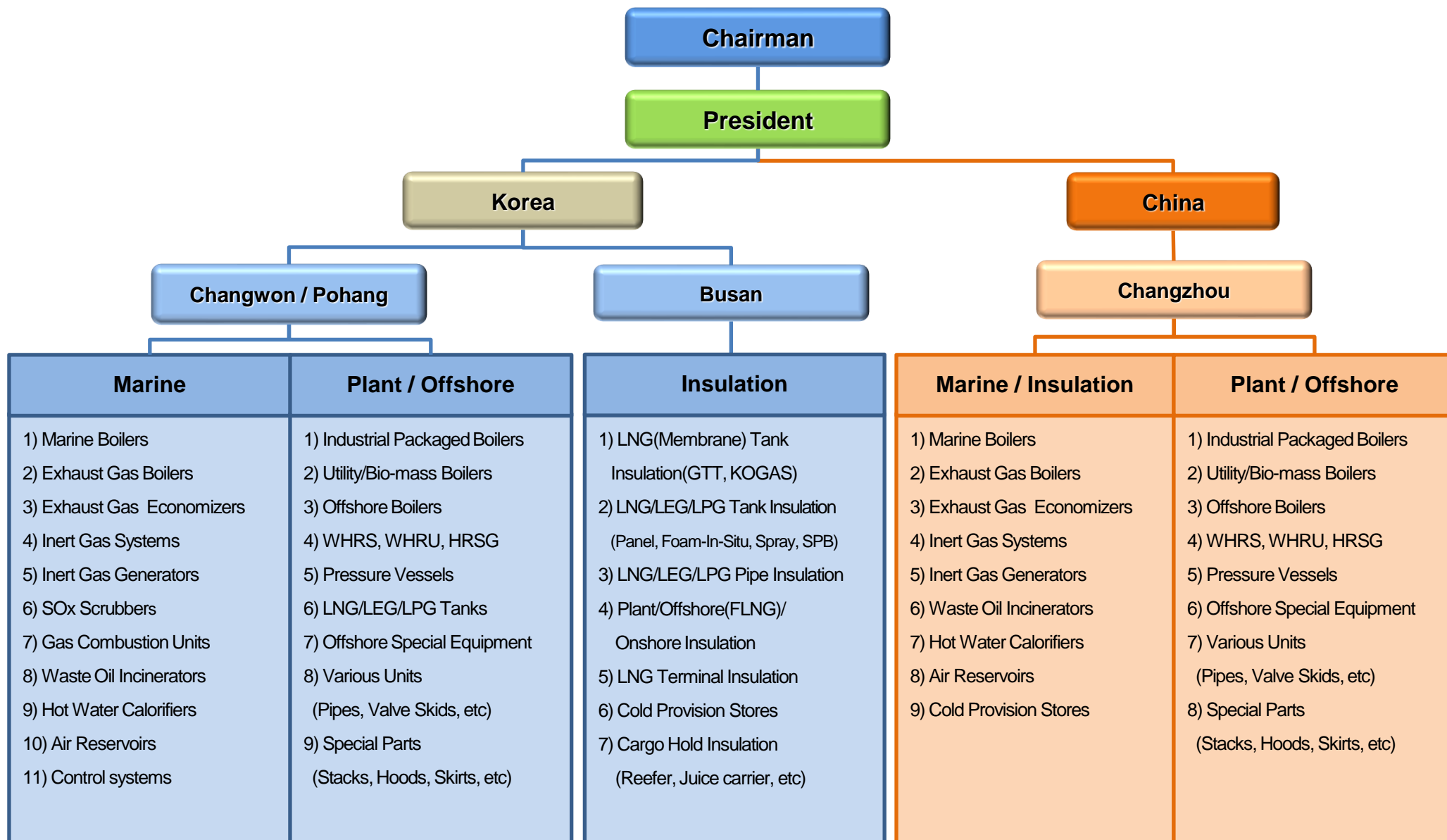
## ◎ History of Kangrim

- 1981.05. Established Kangrim Industries co., Ltd.
- 1983.05. Obtained Classification Societies(DNVGL, LR, ABS, BV, RINA, NK, KR, CCS, RS, etc.)
- 1991.10. Obtained the ASME certificates(S, H, U, U2)
- 1997.04. Obtained ISO 9001 quality system certificate
- 1999.04. Completed Changwon factory for Kangrim Heavy Industries co., Ltd.
- 2006.03. Completed Changzhou factory for Kangrim Heavy Industries co., Ltd. in China
- 2007.11. World class Product Award from Government  
(Boilers, Economizers, Inert Gas Systems/Generators, Incinerators, LNG Pipe Insulation)
- 2009.05. Completed Pohang factory for Kangrim Heavy Industries co., Ltd.
- 2009.11. Awarded USD 100 million Export Tower and  
Gold Tower Order of Industrial Service Merits by Korean Government
- 2011.07. Obtained ISO 14001, OHSAS 18001 management system certificate
- 2014.10. Completed Busan factory for Kangrim Insulation co., Ltd.
- 2017.10. Obtained ISO 45001 health and safety management system certificate
- 2019.12. Achieved USD 250,000,000 turnover of Kangrim Heavy Industries and Insulation totally.

# 1. Company Introduction



## ◎ Organization of Kangrim



# 1. Company Introduction



## ◎ Strength of Kangrim

- **Global Product Competitiveness**

- Boilers, Inert Gas Generators, Inert Gas Systems, Incinerators, Pressure Vessels, Heat Recovery Steam Generators, LNG/LEG/LPG Tank and Pipe Insulation
- Especially, No.1 market share of Marine Boilers and LNG/LEG/LPG Pipe Insulation in the world

- **Sufficient Hardware and Software**

- Hardware : over USD 250million annual sales, 4 factories(349,800m<sup>2</sup>) , A- credit grade(within top 5%)
- Software : over 1,700 employees, investing over 5% of annual sales to R&D, over 50 patents and a wide variety of certificates, 62 places Worldwide Service Networks

- **A lot of Experience and Performance**

- Delivered more than 5,000 sets of Marine, Offshore, Plant equipment

- **Professional HSE System**

- Well understands importance of HSE system through many projects with huge companies
- Well skilled HSE managers

- **Fabricating Huge Equipment and Installing Insulation at once**

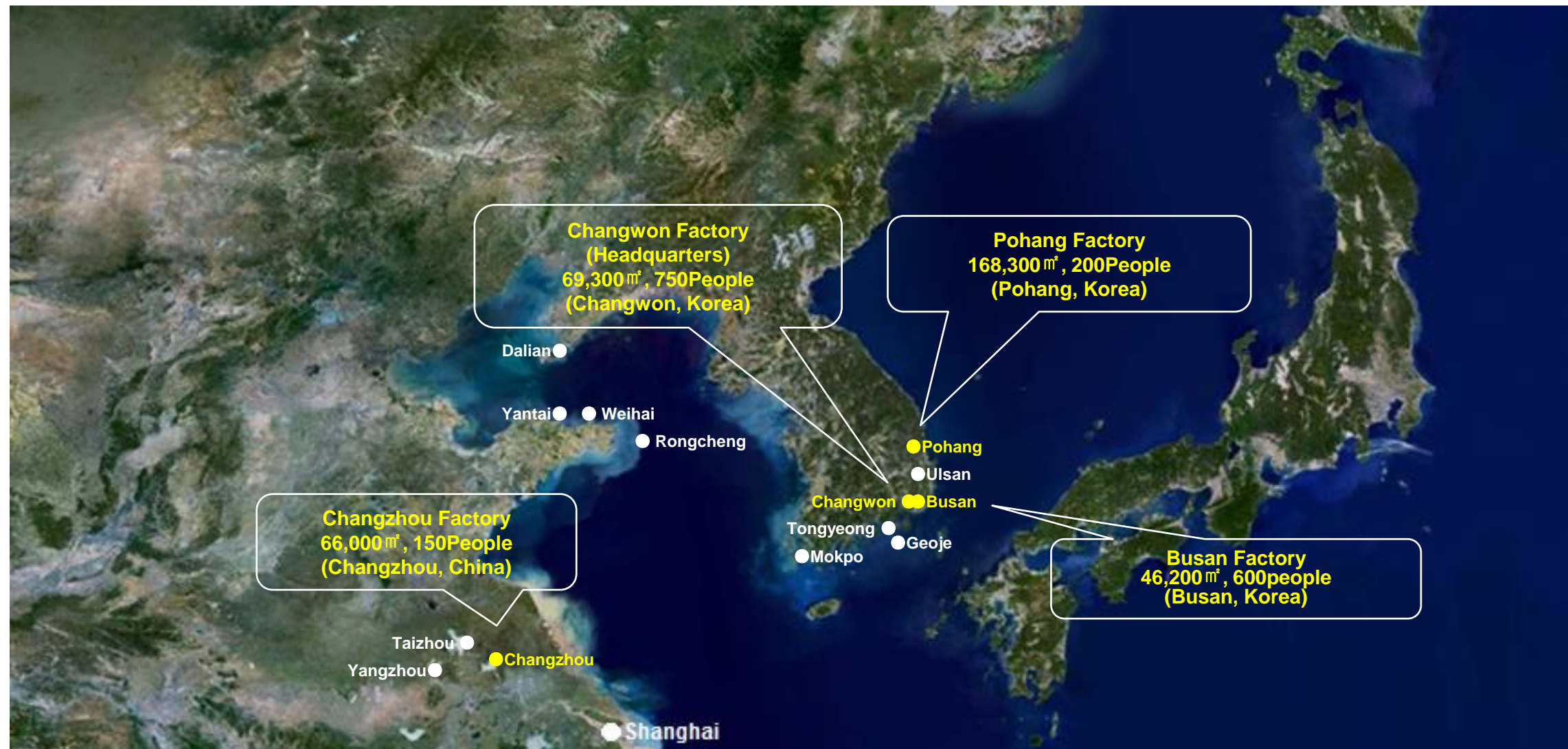
- Manufacture huge equipment like huge Pressure vessel and install professional insulation on it at once under control of Kangrim with just one order from customers(Special unique ability)

# 1. Company Introduction



## ◎ Factory Profile

- 4 factories(349,800m<sup>2</sup>) with 1,700 People
- Over USD 250million Annual Sales





# 1. Company Introduction



## ◎ Factory Profile

- Kangrim Heavy Industries Co., Ltd.(Changwon factory)



Masan Port  
10Min. by car



Busan Airport  
30Min. by car

- Factory area : 69,300m<sup>2</sup>(ground) / 52,800m<sup>2</sup>(building)
- Employee : about 750 people
- Location : Changwon, Gyeongnam, Korea
- Tel : +82-55-269-7700



# 1. Company Introduction



## ◎ Factory Profile

- Kangrim Heavy Industries Co., Ltd.(Pohang factory)

- Factory area : 168,300m<sup>2</sup>(ground) / 105,600m<sup>2</sup>(building)
- Employee : about 200 people
- Location : Pohang, Gyeongbuk, Korea
- Tel : +82-54-230-8500

Nearest port  
900M

Pohang Airport  
20Min. by car





# 1. Company Introduction



## ◎ Factory Profile

- Kangrim Heavy Industries Co., Ltd.(Changzhou factory)



Nearest port  
20KM



Express train station  
5Min. by car



- Factory area : 66,000m<sup>2</sup>(ground) / 33,000m<sup>2</sup>(building)
- Employee : about 150 people
- Location : Changzhou, Jiangsu, China
- Tel : +86-519-8822-3601

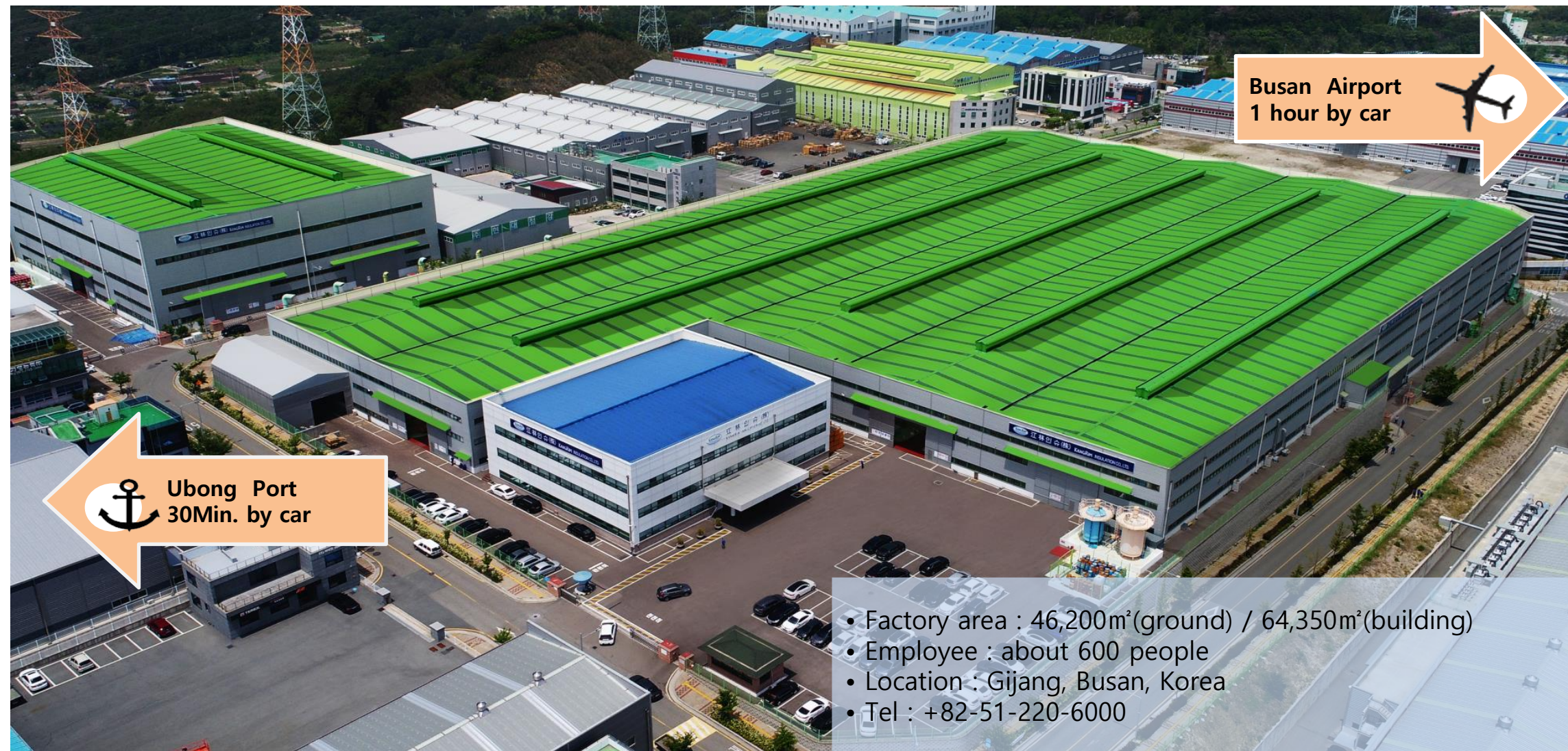


# 1. Company Introduction



## ◎ Factory Profile

- Kangrim Insulation Co., Ltd.(Busan factory)



Busan Airport  
1 hour by car



Ubong Port  
30Min. by car

- Factory area : 46,200m<sup>2</sup>(ground) / 64,350m<sup>2</sup>(building)
- Employee : about 600 people
- Location : Gijang, Busan, Korea
- Tel : +82-51-220-6000



# 2. Main Products and Machineries



## ◎ Marine Equipment

- Marine Boilers  
(Cylindrical/Two Drum(D Type) Boilers)
- Dual Fuel(DF) Boilers
- Exhaust Gas Boilers/Economizers
- Inert Gas Systems/Generators
- N2 Generators, Topping up Generators
- SOx Scrubbers(Exhaust Gas Cleaning Systems)
- Gas Combustion Units(GCU)
- Waste Oil Incinerators
- Hot Water Calorifiers
- Air Reservoirs and All types of Pressure Vessels
- Control systems of Equipment  
(Design, Fabrication and Testing)



**Two Drum Boilers**



**Dual Fuel(DF) Boilers(Cylindrical Type)**



# 2. Main Products and Machineries



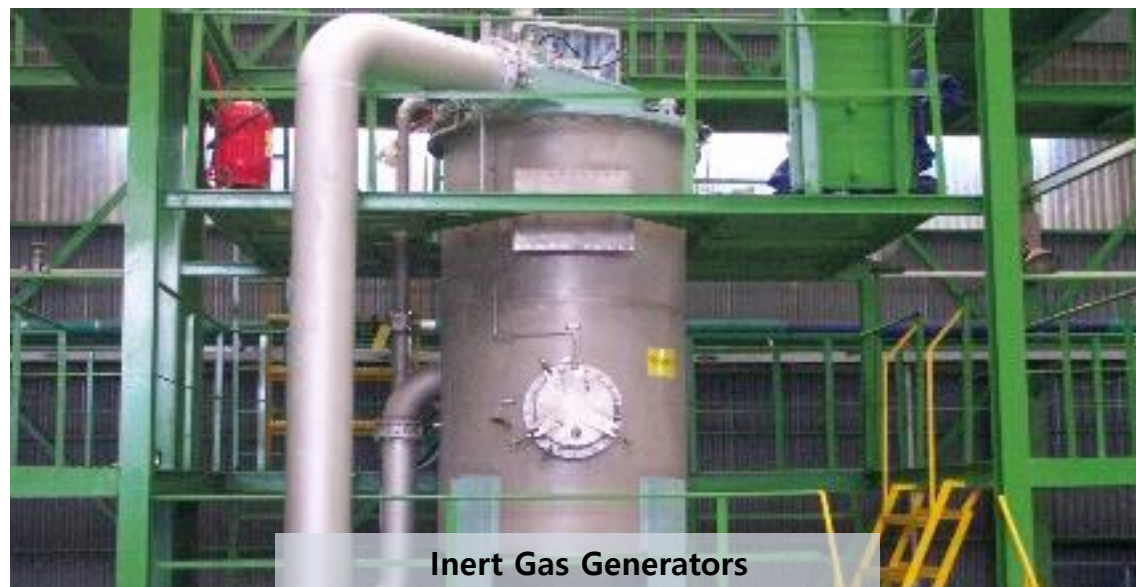
## © Marine Equipment



**Exhaust Gas Boilers**



**Exhaust Gas Economizers**



**Inert Gas Generators**



**SOx Scrubbers  
(Exhaust Gas Cleaning Systems)**



# 2. Main Products and Machineries



## © Marine Equipment



Gas Combustion Units(GCU)



Waste Oil Incinerators



Air Reservoirs



Hot Water Calorifiers

# 2. Main Products and Machineries



## ◎ Plant / Offshore Equipment

- Industrial Packaged Boilers (Drums, Membrane panels, Loop Coils)
- Utility/Bio-mass/Offshore (FPSO/FLNG) Boilers
- Waste Heat Recovery System/Units (WHRS, WHRU)
- Heat Recovery Steam Generators(HRSG)
- Pressure Vessels
- Prismatic/Bilobe/Cylindrical LNG/LEG/LPG Tanks
- Offshore Special Equipment (Bulk Tanks, Reels, etc)
- Various Units (Connection Pipes, Valve Skids, etc)
- Special Parts (Fin Tube, Stacks, Hoods, Skirts, etc)



**Industrial Packaged Boilers**



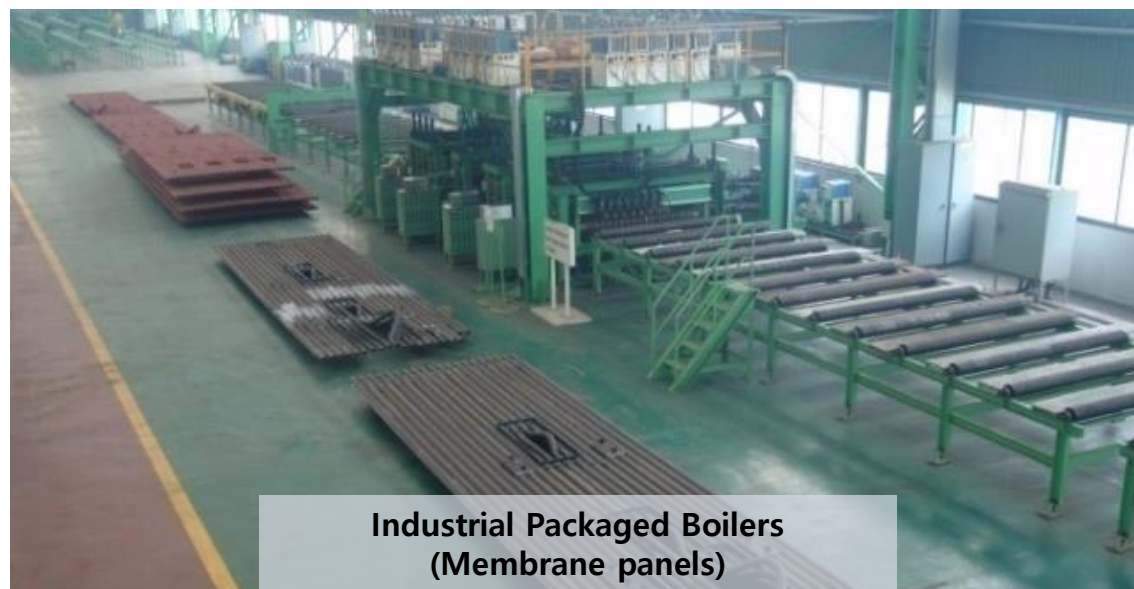
**Utility Boilers  
(Steam drums)**



# 2. Main Products and Machineries



## ◎ Plant / Offshore Equipment



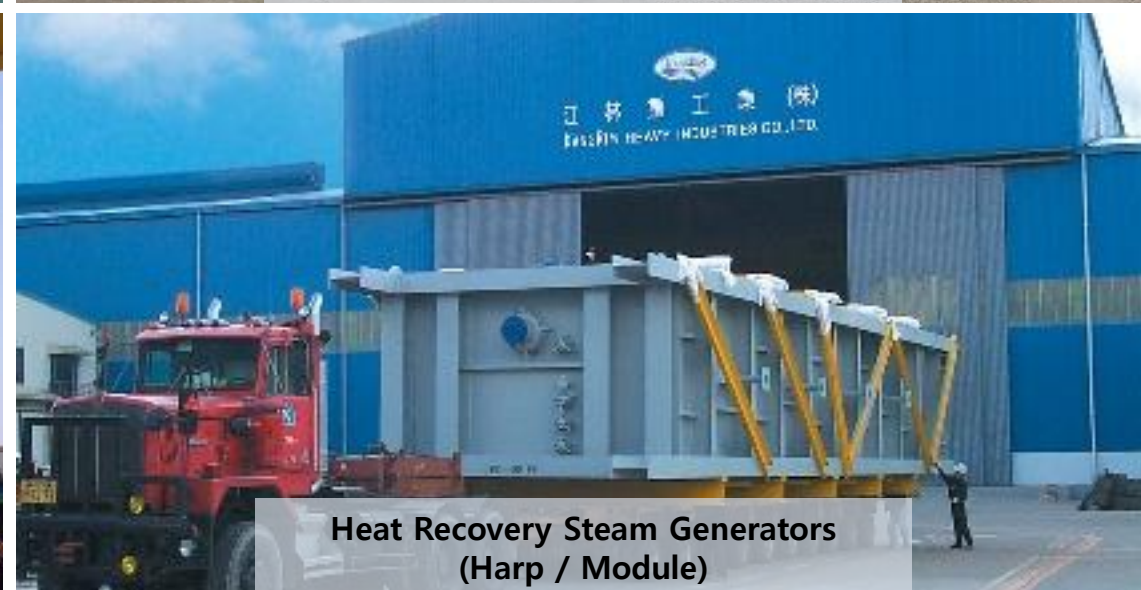
**Industrial Packaged Boilers  
(Membrane panels)**



**Offshore FLNG Boilers  
(Pipings)**



**Waste Heat Recovery Systems/Units**



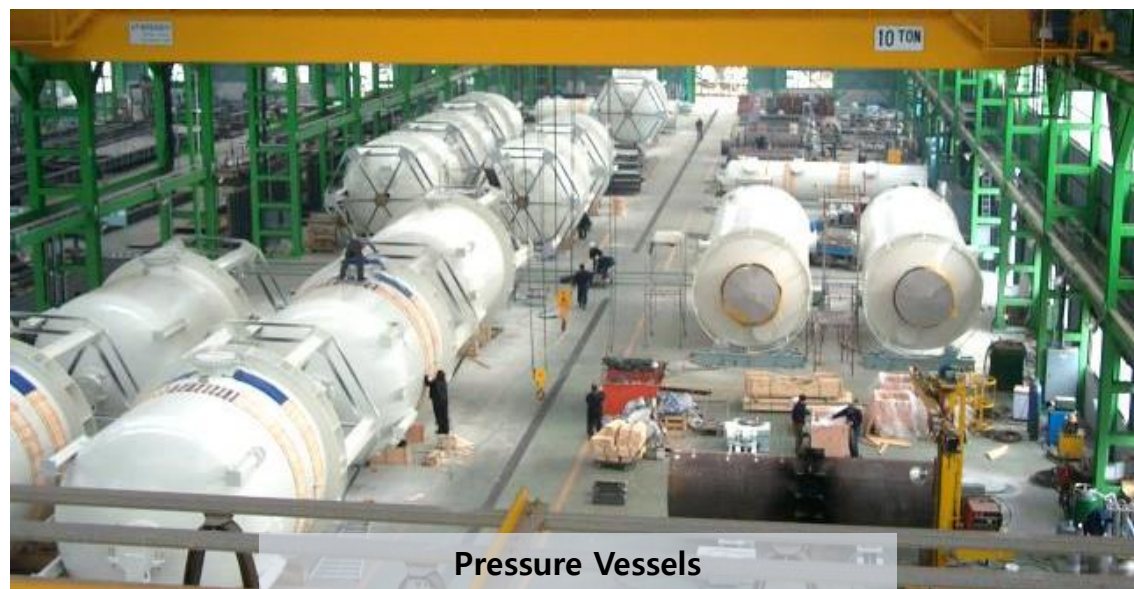
**Heat Recovery Steam Generators  
(Harp / Module)**



# 2. Main Products and Machineries



## © Plant / Offshore Equipment





# 2. Main Products and Machineries



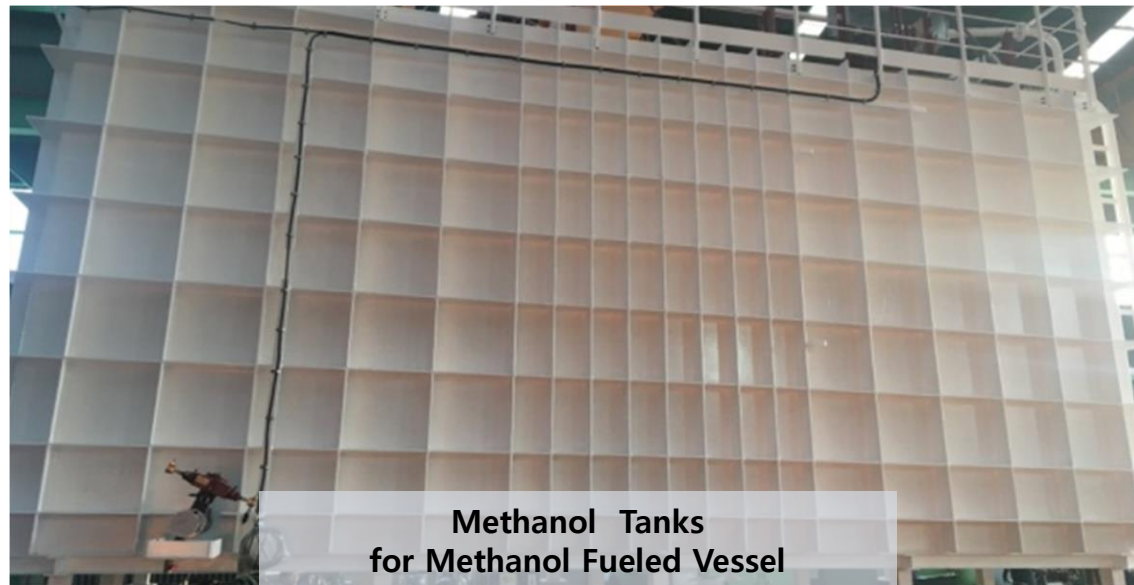
## © Plant / Offshore Equipment



Bulk Tanks for Drillship



Pulsation Damper  
for LNG Compressor



Methanol Tanks  
for Methanol Fueled Vessel



Reel for Pipe Supply Vessel



# 2. Main Products and Machineries



## ◎ Insulation

- LNG(Membrane) Cargo Tank Insulation  
(GTT MARKIII/MARKIII Flex/NO96 L03, KOGAS KC-1)
- 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)



# 2. Main Products and Machineries



## © Insulation



LNG/LEG/LPG Tank Insulation(Panel)



LPG Tank Insulation(Spray)



LNG/LEG/LPG Pipe Insulation



Onshore Plant Insulation



# 2. Main Products and Machineries



## © Insulation



FLNG Tank Insulation



Offshore Plant Insulation



FLNG Vessel Insulation



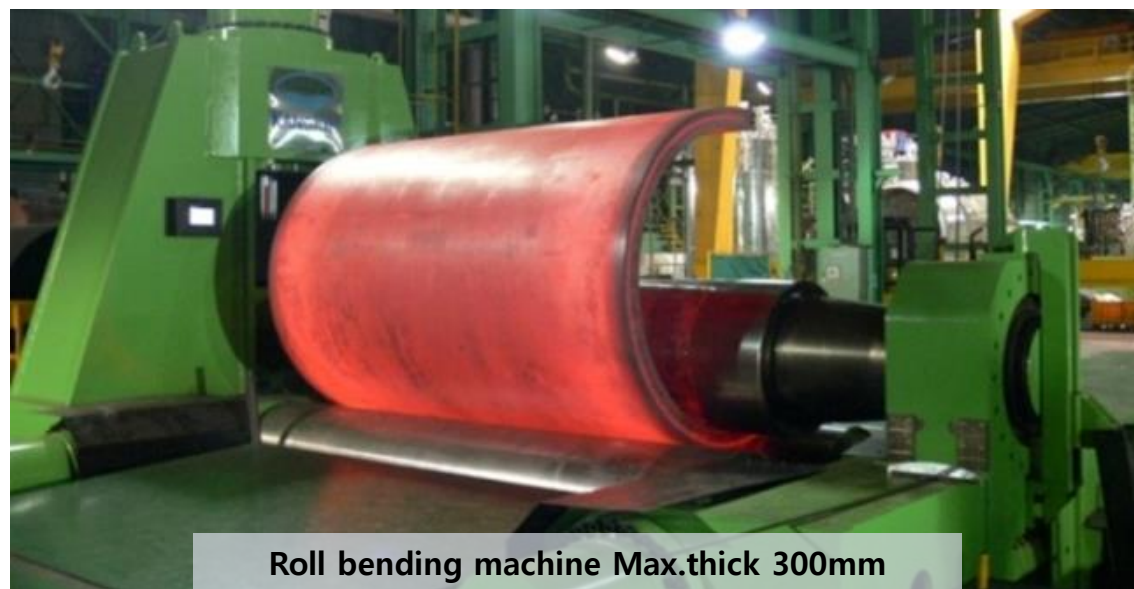
Cold Provision Stores



# 2. Main Products and Machineries



© Main Machineries(Kangrim Heavy Industries Co.,Ltd.)



Roll bending machine Max.thick 300mm



Hydraulic press 6,000 Ton



Horizontal boring machine



Large size RT room



# 2. Main Products and Machineries



## © Main Machineries(Kangrim Heavy Industries Co.,Ltd.)



Membrane panel welding machine



Membrane panel bending machine



Loop coil banding machine



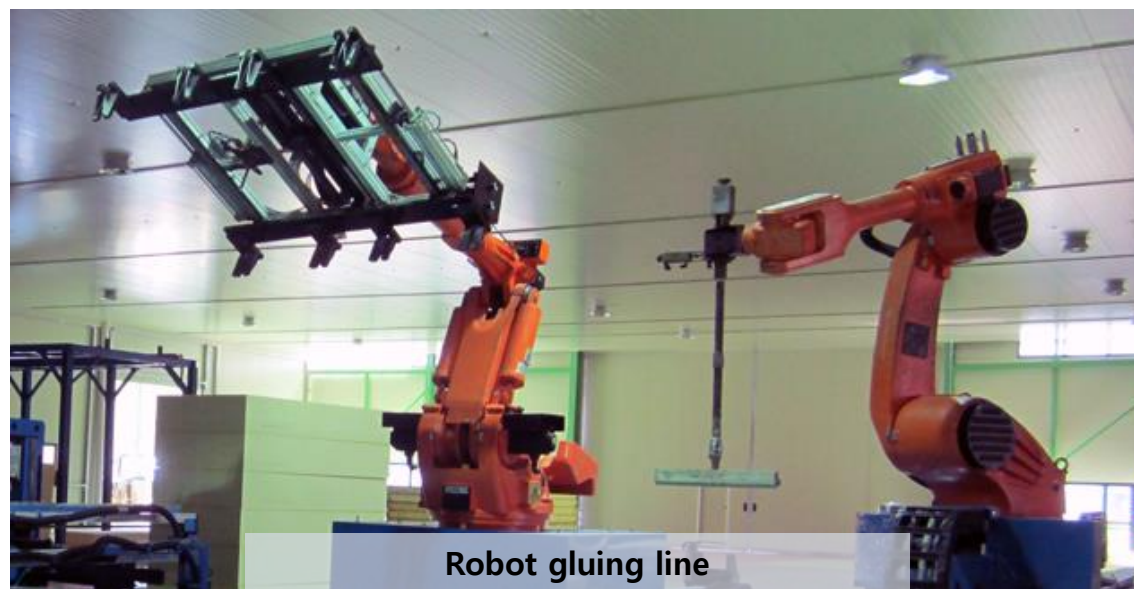
Loop coil tube butt welding machine



# 2. Main Products and Machineries



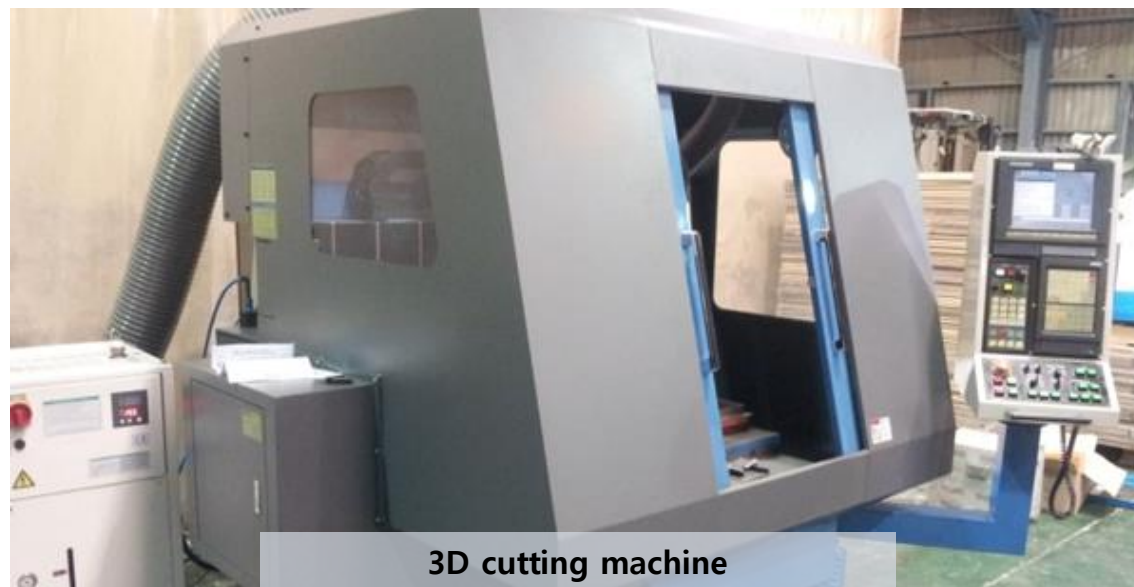
© Main Machineries(Kangrim Insulation Co.,Ltd.)



Robot gluing line



Continuous PIR foaming line



3D cutting machine



Pipe cover conveyor





# 3. Certificates and Patents

## ◎ Government Awards

- World class Product Award from Government  
(Boilers, Economizers, Inert Gas System, Inert Gas Generators, Incinerators, Dry Inert Gas Generator DF Boiler, LNG Pipe Insulation, Cold Chamber, LPG Spray Insulation)
- Gold Tower Order of Industrial Service Merit
- Korean Prime Minister Prize of Development



## ◎ Patents

- Over 75 patents for Boilers, Marine, Plant / Offshore equipment and Insulation.



# 4. Main Customers



## ◎ Domestic





# 4. Main Customers



## ◎ Overseas



# 4. Main Customers



## ◎ Overseas



Yangzijiang Shipbuilding (Holdings) Ltd.

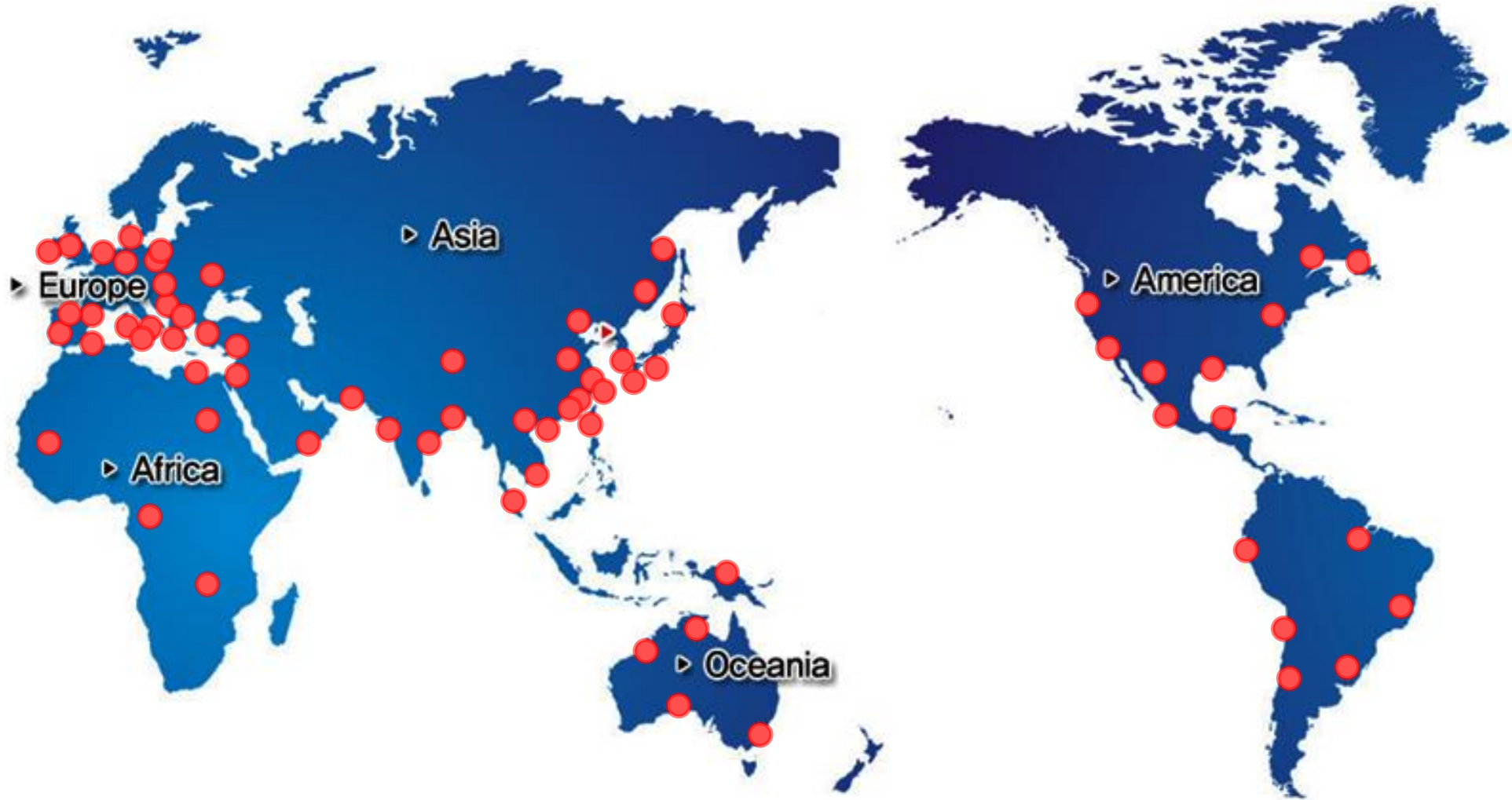




# 5. Customer Service Networks



◎ Over 60 places A/S Networks in the world



► Please access Kangrim home page for detailed information ([www.kangrim.com](http://www.kangrim.com))

# 6. Contact Point



## ◎ Kangrim Heavy Industries Co., Ltd.

<b>President</b>	Overseas & Local	<b>JongMin Si</b>	E-Mail: jmsi@kangrim.com	Tel: +82 55 269 7777
<b>Business</b>	Overseas & Local	<b>TaeHo Park (Executive Vice President)</b>	E-Mail: thpark@kangrim.com(Direct) E-Mail: business2@kangrim.com(Common) E-Mail: business4@kangrim.com(Common)	Tel: +82 55 269 7730
	Local	<b>JeongSu Cheon (Vice President)</b>	E-Mail: jscheon@kangrim.com(Direct) E-Mail: business1@kangrim.com(Common)	Tel: +82 55 269 7724
<b>Customer Service</b>	Overseas & Local	<b>BaeHong Lee (Senior Vice President)</b>	E-Mail: bhlmnk@kangrim.com(Direct) E-Mail: service@kangrim.com(Common)	Tel: +82 55 269 7759
<b>Spare</b>	Overseas & Local	<b>BaeHong Lee (Senior Vice President)</b>	E-Mail: bhlmnk@kangrim.com(Direct) E-Mail: spare@kangrim.com	Tel: +82 55 269 7759

## ◎ Kangrim Insulation Co., Ltd.

<b>President</b>	Overseas & Local	<b>JongMin Si</b>	E-Mail: jmsi@kangrim.com	Tel: +82 51 220 6077
<b>Business &amp; Spare</b>	Overseas & Local	<b>SungHo Lee (Executive Vice President)</b>	E-Mail: shlee@kangrim.com(Direct) E-Mail: business5@kangrim.com(Common)	Tel: +82 51 220 6060
<b>Customer Service</b>	Overseas & Local	<b>SungHo Lee (Executive Vice President)</b>	E-Mail: business5@kangrim.com(Common)	Tel: +82 51 220 6060



# Thank you



- *Boiler Expert*
- *Pressure Vessel Expert*
- *Cryogenic Insulation Expert*

