

HEAD OFFICE

BUSAN VENTURE TOWER 17F, 22, Mora-ro, Sasang-gu,
Busan, 46918, Rep. of Korea
Tel +82-51-831-8800 Fax +82-51-831-5959
E-mail adm@sungilsim.com
Web www.sungilsim.com

SALES CONTACT

Tel +82-51-950-8834
E-mail sale1@sungilsim.com
www.sungilsim.com



SIM
SUNG IL CO., LTD.



Creating New Value,
SUNG IL CO., LTD.(SIM)

- **SHOP FABRICATED PIPING**
- **INDUCTION BENDING**

With extensive technical know-how and decades of experience,
SUNG IL CO.,LTD.(SIM) provides the best service to customer's needs.



SIM

SIM

Business Area

SHOP FABRICATED PIPING

SUNG IL CO.,LTD.(SIM) was founded in 1978 and has grown to be a leading supplier of Shop Fabricated Piping and Induction Bending for various plant industries.

Our technology is widely applied in the vast areas of the plant industry and has established a strong foothold through customer satisfaction.

**THERMAL
POWER PLANT**



**NUCLEAR
POWER PLANT**



**CHEMICAL, OIL
AND GAS PLANT**



**ON/OFF SHORE
PLANT**



**COMBINED CYCLE
POWER PLANT**



Business Area

INDUCTION BENDING

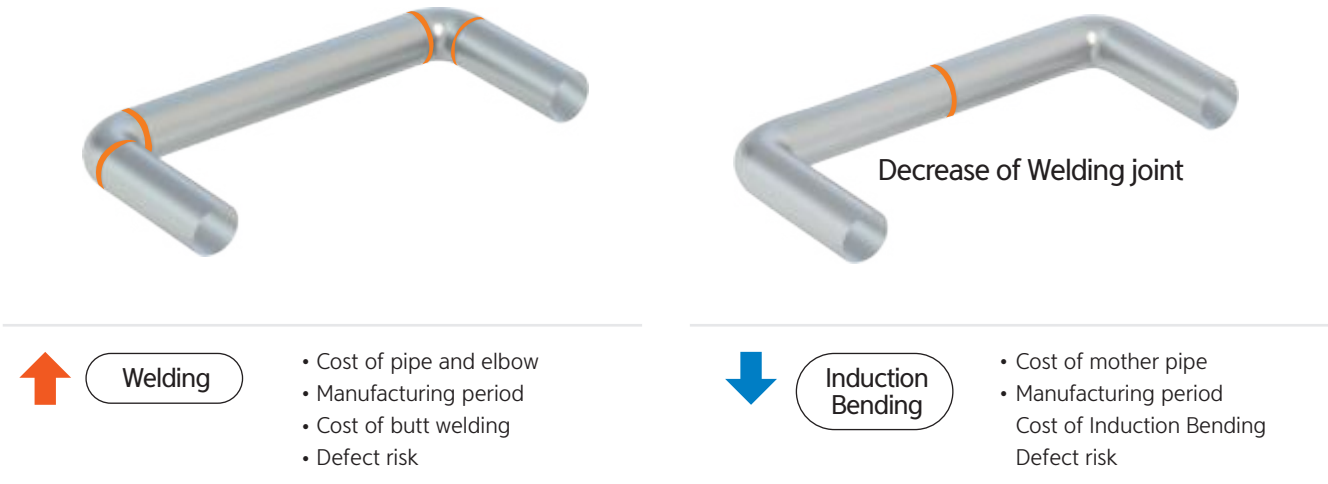
Induction Bending, a core part of shop fabricated piping process, operates in-house and provides a pipe bending service up to 1,3DR bending radius.

- 80" Large Diameter Bend
- 120T Heavy Wall Thickness Pipe Bend
- 1,3DR Short Radius Bend
- 3 Dimensional Bend



Induction Bending Technology

By replacing the elbow with Induction Bending, significant cost reduction, as well as lowering defect rates, are achieved. Also, it can save costs by reducing the number of in-service inspection sites at nuclear power plants.



“Reduction of total manufacturing cost and period”

Total 9 Induction Bending machines



Fabrication Capacity

Seoul

1Hour By cargo Truck
from Haman Plants



BUSAN VENTURE TOWER (Head Office)

BUSAN VENTURE TOWER 17F, 22, Mora-ro, Sasang-gu, Busan

Size of site 2,477m²

Procurement, Engineering, Sales, R&D, Administration

New Haman Plant

Gunbuk-myeon, Haman-gun, Gyeongsangnam-do

Size of site 53,361m²

Capacity Shop fabricated Piping. 2,500Ton/Month



Haman 3 Plant

Beopsu-myeon, Haman-gun, Gyeongsangnam-do

Size of site 8,257m²

Capacity Shop fabricated Piping. 200Ton/Month

Haman 1 Plant

Gunbuk-myeon, Haman-gun, Gyeongsangnam-do

Size of site 28,438m²

Capacity Shop fabricated Piping. 1,550Ton/Month
Induction Bending. 1,600Ton/Month



UNDER CONSTRUCTION

Mieumsandan, Gangseo-gu, Busan

Size of site 51,843m²

UIRYEONG PLANT(WAREHOUSE)

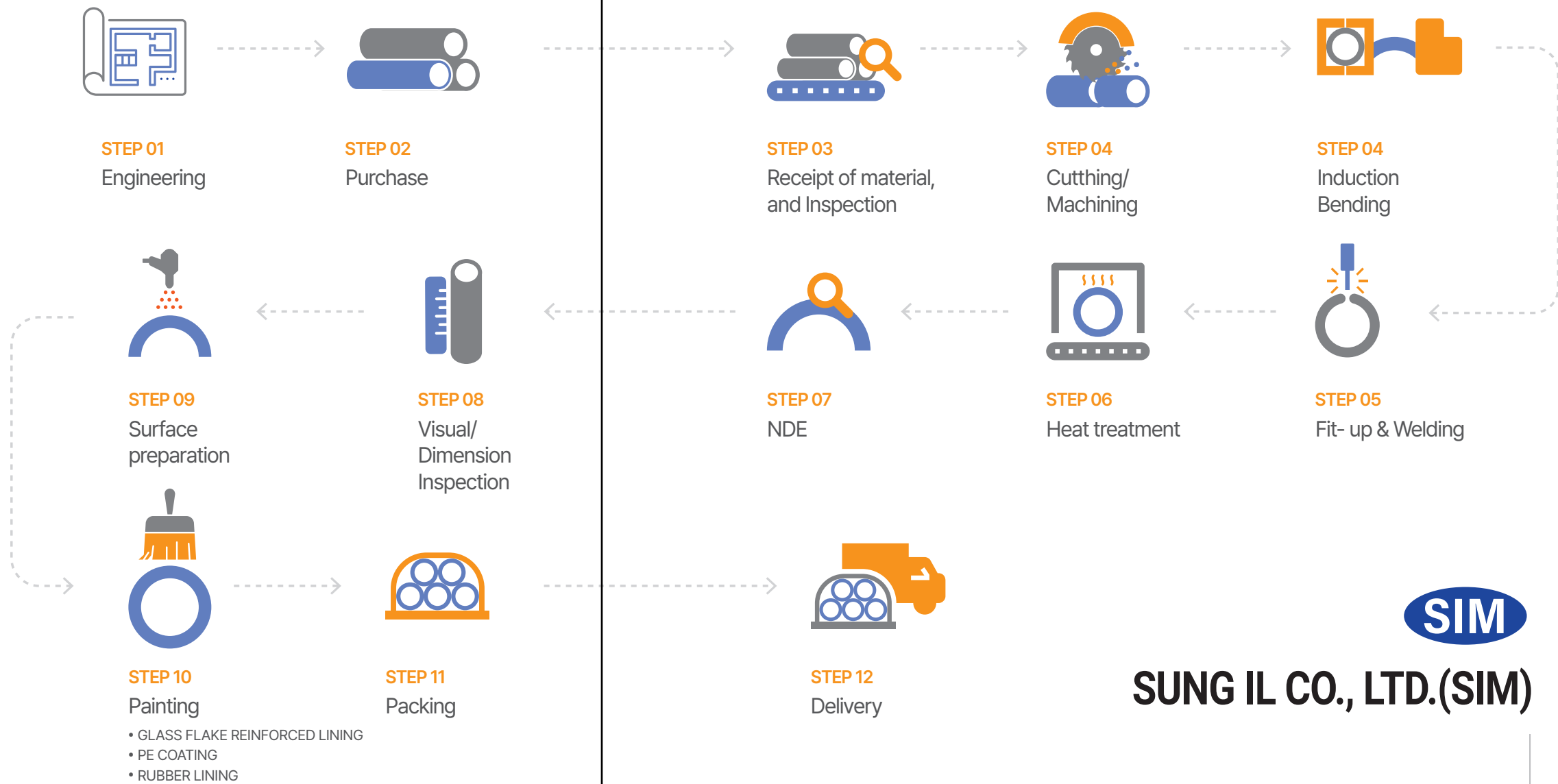
Uiryeong-eup, Uiryeong-gun, Gyeongsangnam-do

Size of site 9,805m²

Fabrication Process

SUNG IL CO.,LTD.(SIM) is equipped to enable all fabrication processes such as welding, heat treatment, inspection, painting, and packaging of Shop fabricated piping, and can also manufacture Induction Bending pipes.

- SHOP FABRICATED PIPING
- INDUCTION BENDING



Welding

- GTAW
- FCAW
- SMAW
- SAW&GMAW

- Has a various welding equipment
- Development of WPS that meets customer needs is possible (Organization of production technology department)



Applicable Thickness and Size

Min 0.25" inch ~ Max 130" inch
Min 6T ~ Max 130T



Typical Applicable Materials

- | | |
|-----------------|-------------------|
| • CARBON STEEL | • STAINLESS STEEL |
| • ALLOY STEEL | • DUPLEX |
| • INCONEL | • TITANIUM |
| • COPPER-NICKEL | • CLAD |



Inspection

Quality control personnel assigned to all factories and thorough inspections enable immediate action to defects.

NDE



RT

UT

MT

PT

Up to 2000Film per day



RT Room

Plant	Room No	Size 'M' (L x W x H)
Haman	1	6.9 x 2.8 x 2
	2	9 x 5.2 x 2
	3	6 x 2.5 x 2
	4(Cobalt)	13.5 x 7.4 x 3
New Haman	A	6.3 x 7 x 3
	B	11.2 x 7 x 3
	C	6.3 x 7 x 3
	D	8.5 x 7 x 2.6
	E	10 x 7 x 2.6
	F	6 x 7.5 x 2.5

Visual & Dimension Inspection



Hydro Test



Heat treatment

FURNACE & LOCAL are applicable.



Heat Treatment Facilities

Plant	Furnace No	Size 'M' (L x W x H)
Haman	01	8 x 5.5 x 1.6
	02	8 x 4 x 1.6
	J-13	6 x 2.5 x 2
New Haman	J-10	12 x 2.1 x 1.5
	J-11	12 x 2.5 x 2

* Furnaces can be increased according to amount of piping.

Shot & Painting

Experienced professionals and diverse experiences.

Shot Room 21000w x 16000L x 4800H



Painting Moving Shelter 8000W x 15000L x 4900H



Painting Capacity Mon 3000Ton Mon



Shot Room 9000W x 16000L x 4800H

Painting work



Painting Work Process



COATING WORK INSPECTION RECORD											
PROJECT NAME	ITEM NAME	CUSTOMER	PRETREATMENT	COATING MATERIAL	COATING METHOD	COATING THICKNESS (W.F.T)	COATING THICKNESS (D.F.T)	COATING THICKNESS (W.F.T)	COATING THICKNESS (D.F.T)	COATING THICKNESS (W.F.T)	COATING THICKNESS (D.F.T)
ITEM NO.	ITEM NAME	CUSTOMER	PRETREATMENT	COATING MATERIAL	COATING METHOD	COATING THICKNESS (W.F.T)	COATING THICKNESS (D.F.T)	COATING THICKNESS (W.F.T)	COATING THICKNESS (D.F.T)	COATING THICKNESS (W.F.T)	COATING THICKNESS (D.F.T)
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Painting Inspection

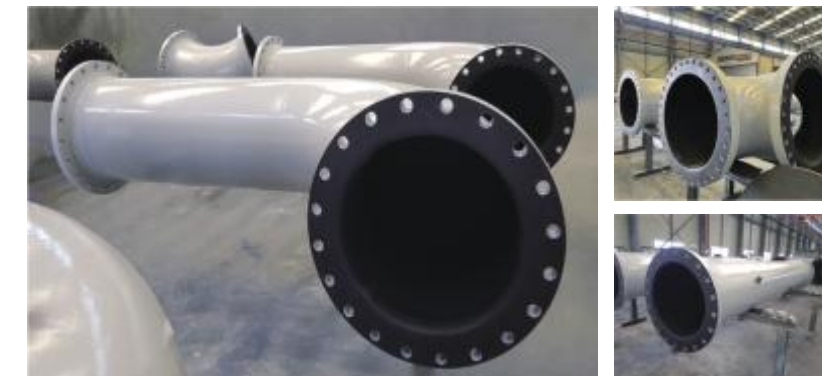
1. Check the Color Ton
2. Inspection of compliance with Wet Film Thickness (W.F.T) right after the spray
3. Check compliance with Dry Firm – Inspection of compliance with customer demand film (Dry Film Thickness, D.F.T) –Check Dust and foreign substances
4. Visual Inspection
5. Maintaining records of inspection
6. End points at work
 - 1)Sample inspection by painting specification
 - 2)Familiarize with the Wet film thickness gauge (ASTM D4414)
 - 3)Use the thickness gauge after it's completely dried. (zero adjustment in daily)
 - 4)Remove foreign substances and perform papering before final painting.
 - 5)Record and maintain records of interlayer and final coating in Independence or daily Inspection Report.

GLASS FLAKE REINFORCED LINING



inside the Glass Flake Reinforced Lining

RUBBER LINING



PE COATING





SUNG IL CO., LTD.(SIM) SMART FACTORY

ROBOT WELDING | SIMNET

Robot welding can improve productivity, ensure quality, respond to workforce restructuring, and reduce costs. SIMNET is a program developed by SUNG IL CO.,LTD.(SIM) to optimize all fabrication process from order to delivery.

Automatic Robo-Welding

Robot welding

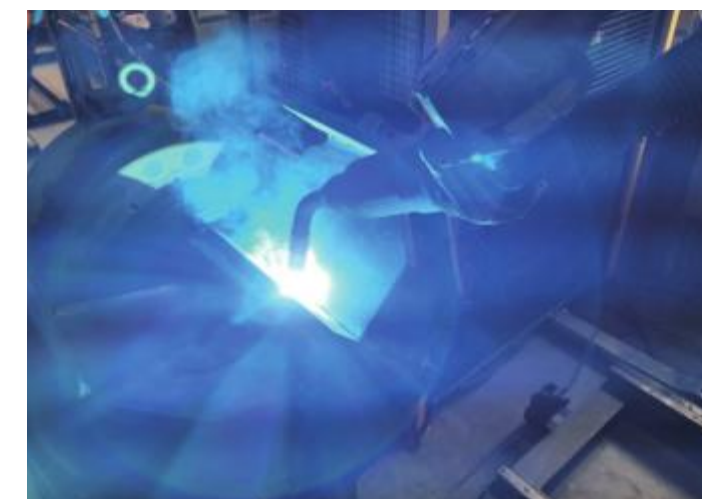
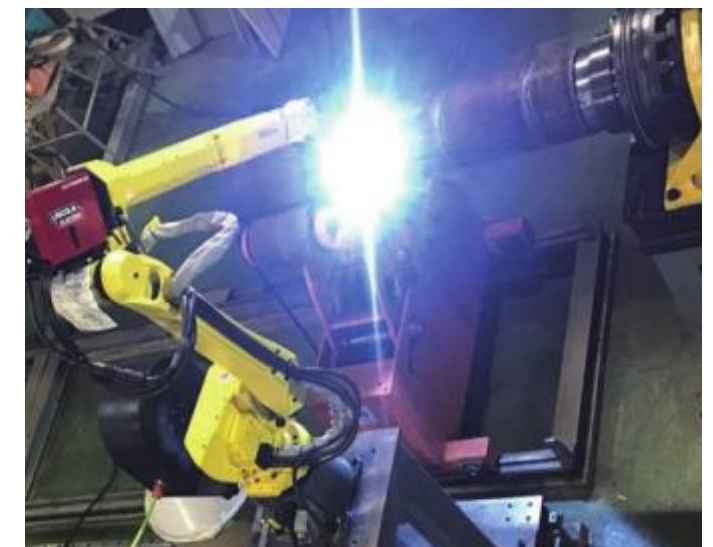
Robotic welding for automatic welding of multi-layer Heavy Wall Thickness Pipe Bend can stabilize quality and increase productivity.

- ✓ Increased cost competitiveness due to increased productivity
- ✓ Production control, Response to changes in the work environment
- ✓ Improving quality & reliability, Enhanced traceability



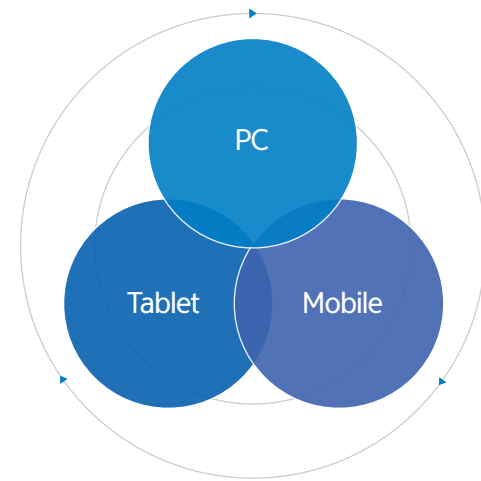
Reduce the routine labor works.

SIMART
FACTORY



SIMNET

SUNG IL CO.,LTD.(SIM)
information management system.



SUNG IL CO.,LTD.(SIM) information management system

Through the SIMNET program developed by SUNG IL CO.,LTD.(SIM), we collect real-time data on the site and optimize all fabrication process from order to delivery.

SUNG IL CO.,LTD.(SIM) monitors the work situation and work plan for each process in real time by linking not only with the desktop but also with tablet and mobile. Data that has been analyzed and corrected in real time is utilized for quality review, production, and related facility management to increase efficiency.

- **Growth of production** : By streamlining and automating core business processes, all personnel in the organization can do more works with fewer resources.
- **Reduction of risk** : It is possible to predict and prevent risks by enhancing management capabilities and complying with regulatory conditions.
- **Simplify IT** : By sharing the database using PC, tablet, and mobile equipment, all personnel can easily handle their work.



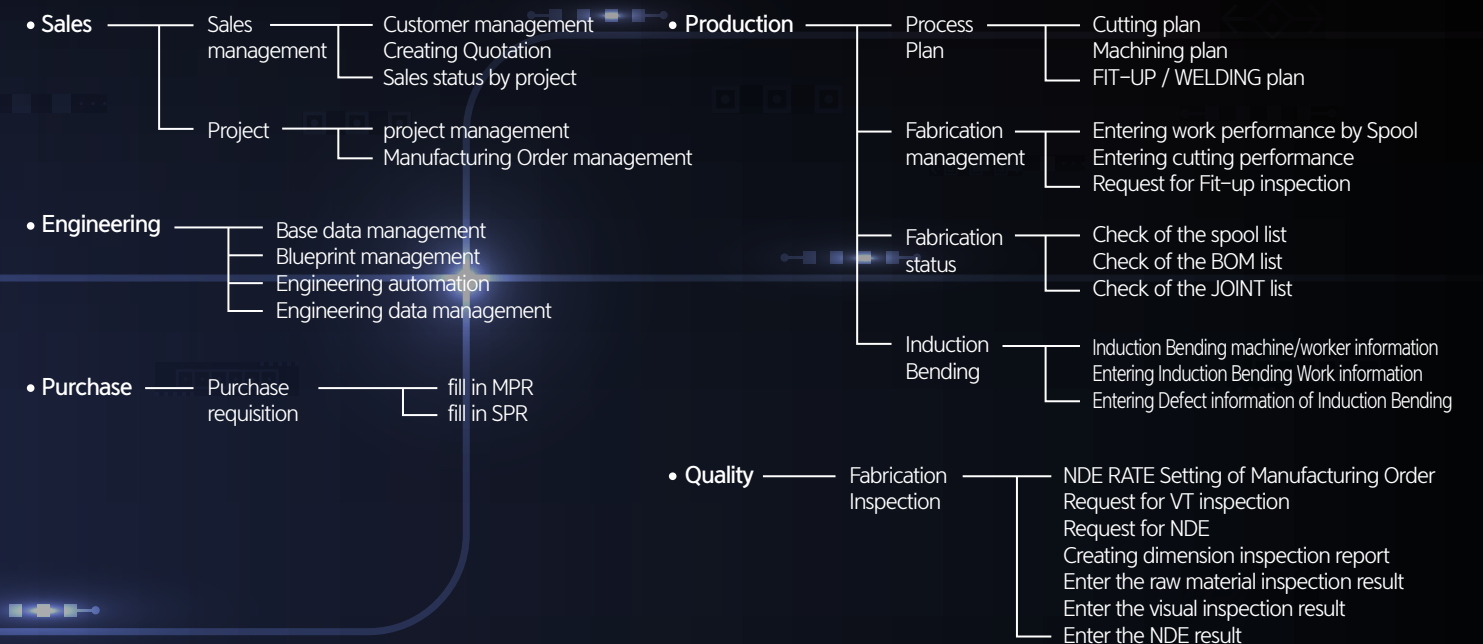
PC Ver.

Tablet Ver.

Mobile Ver.



SIMNET PROGRAM



Experience List

North America

USA
CANADA
PANAMA
DOMINICAN Rep
EL SALVADOR
MEXICO

South America

CHILE
BRAZIL
COLOMBIA

Europe

POLAND
DENMARK
SWEDEN

NORWAY
UK

Africa

NIGERIA
IVORY COAST
SENEGAL
ANGOLA

CONGO

Asia

KOREA
JAPAN
CHINA
INDIA
VIETNAM
SINGAPORE
THAILAND
IRAN

MALAYSIA
PHILIPPINES
INDONESIA
UZBEKISTAN
TAIWAN
BANGLADESH
HONG KONG
PAKISTAN

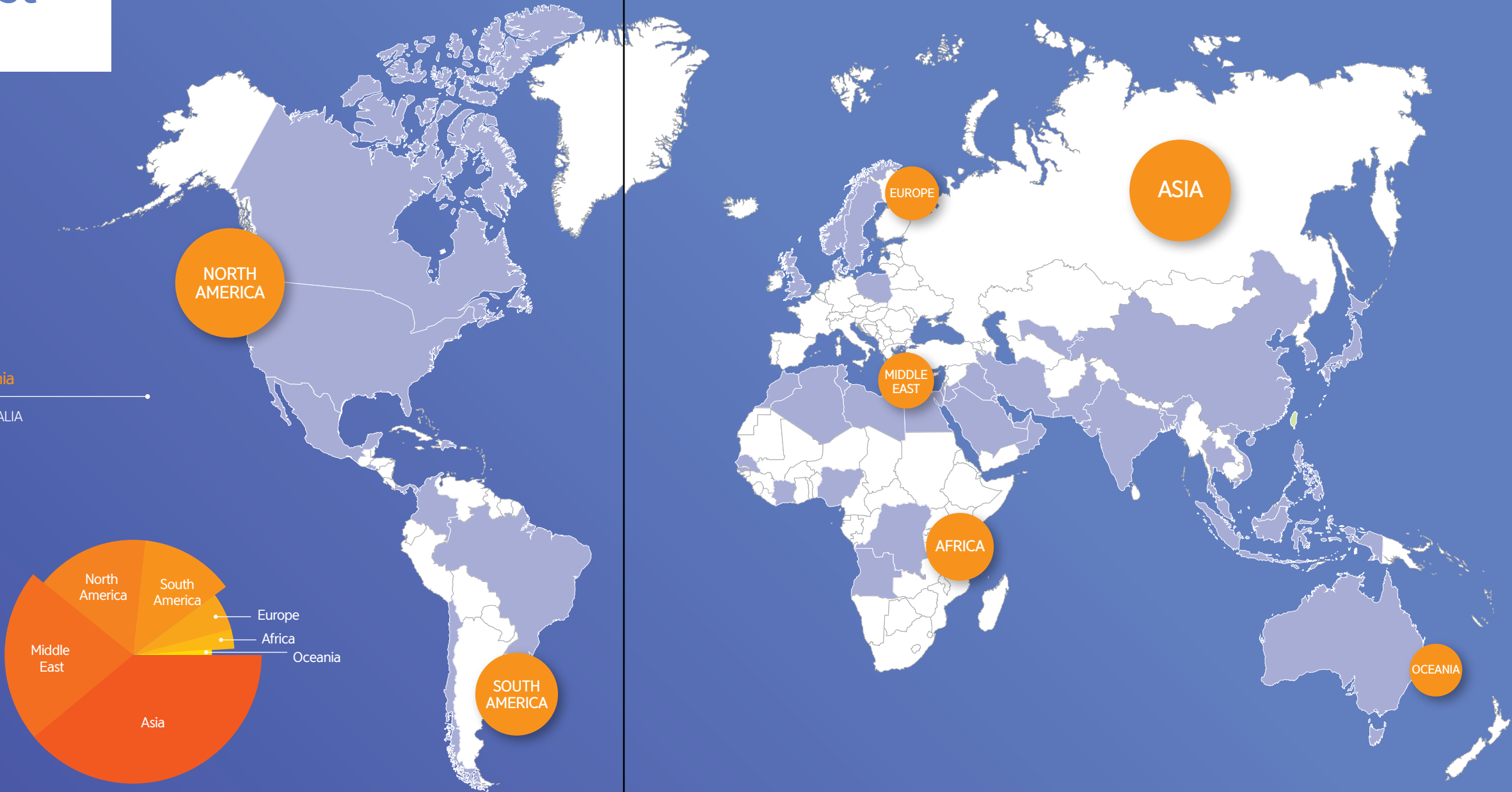
Middle East

UAE
LIBYA
OMAN
QATAR
ALGERIA
KUWAIT
SAUDI

EGYPT
ISRAEL
IRAQ
MOROCCO
TUNISIA
JORDAN
BAHRAIN

Oceania

AUSTRALIA



Partner



Certification Award

The certification award of SUNG IL CO.,LTD.(SIM), which provides the best service to customers' needs based on the know-how accumulated in the field of shop fabricated piping for decades.



ISO 9001



ISO 14001



ISO 45001



KEPIC MN



AEO



ASME 'PP'



ASME 'S'



ASME 'NA'



ASME 'NPT'



NB(National Board)



PED Module-H



EN ISO 3834-2



EN 1090



CE(DVGW)



Best Supplier
(Korea Offshore & Shipbuilding Association)



NET



NEP



Root technology
specialized company



Small Giant
company of Korea



Inno-Biz company



GE Gas Power
Partnership Awards
(2022)



GE Gas Power
Best Partnership
(2020)



Mitsubishi Power
Best Partner
(2019)



'Nooter Eriksen
Best Supplier
(2018)



KHNP
(Korea Hydro & Nuclear Power)
Best enterprise model
(2022)



Hyundai Power Systems
Best Supplier
(2020)



POSCO
(Pohang Iron&Steel Company)
Best Supplier



KMR
(Korea Management Registrar)
Grand Prize for
Innovation Management



KMR
(Korea Management Registrar)
Best Company for quality
management system



USD 50 Million Export
(2021)



KOGAS
(Korea Gas Corporation)
Appreciation plaque



KOEN
(Korea South-East Power Co., Ltd)
Best enterprise model



KOSPO
(Korea Southern Power Co., Ltd.)
Best enterprise model



KOMIPO
(Korea Midland Power Co., Ltd.)
Appreciation plaque



KEPCO
(Korea Electric Power Corporation)
Appreciation plaque



SHI
(Samsung Heavy industries)
Appreciation plaque



TCO
(Tengizchevroil)
Appreciation plaque
(2019)



Shell Appomattox
Appreciation plaque



Presidential prize
(Trade Promotion)



Presidential prize
(the silver tower of
new technology for
practical use)