



COMPANY PRESENTATION

Enabling a Sustainable Future Ahead !



CONTENTS



COMPANY PROFILE



INTERNATIONAL CLIENT/CUSTOMERS



SHOP LAYOUT

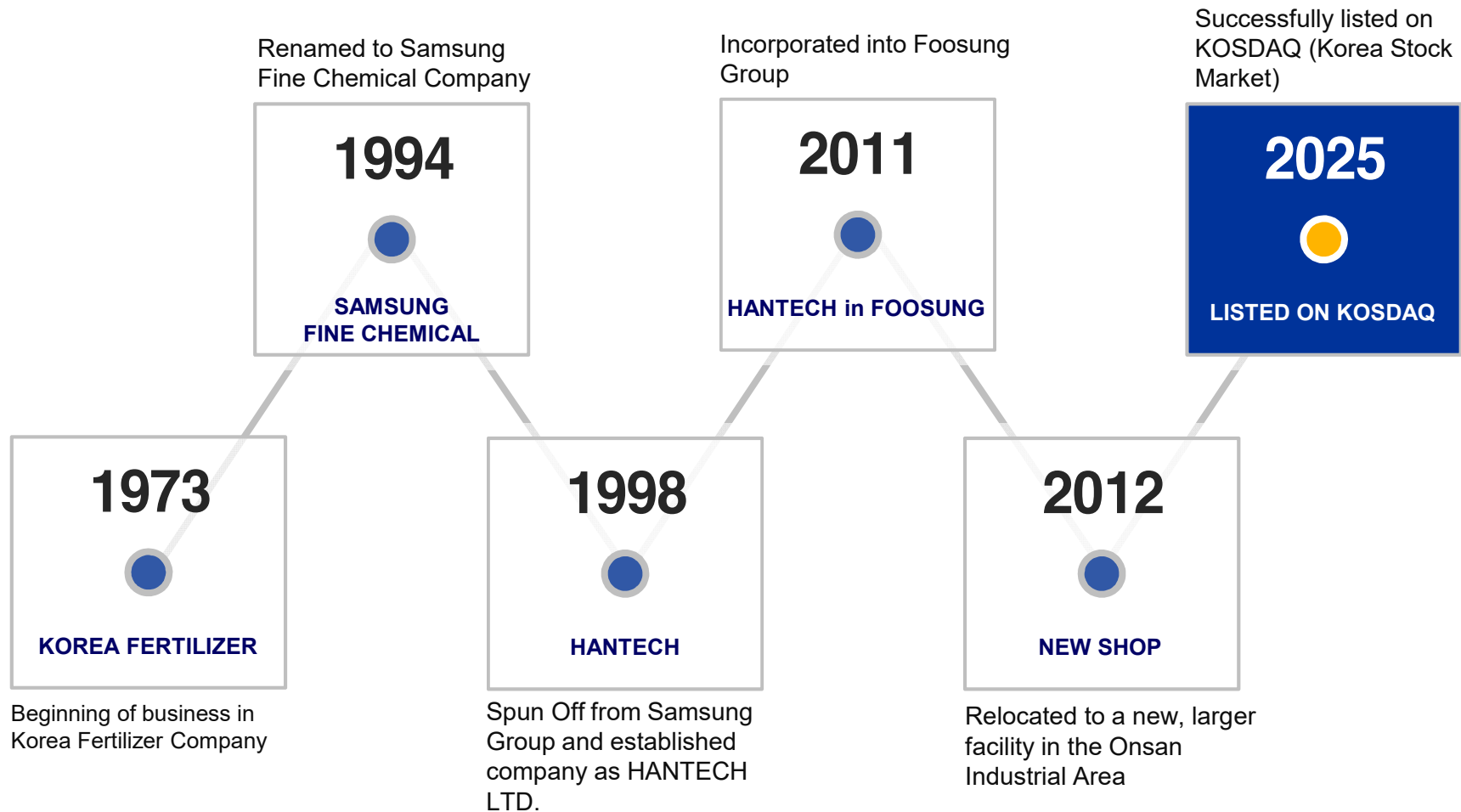


CERTIFICATE & DESIGN



REFERENCE LIST

COMPANY PROFILE (HISTORY)



COMPANY PROFILE (GENERAL INFO.)

Since founded, HANTECH has been in continuous development and has supplied a tremendous amount of excellent quality products all over the world by participating in many international projects. Keeping the delivery in a timely manner constantly has led us to receive lots of attention and love from our clients.

1

LOCATION & SHOP AREA

- LOCATION : Ulsan, Korea
- SHOP AREA : 110,000 m² (1,184,030 ft² / 33,275 坪 / 27 ac)

2

ANNUAL TURNOVER / PRODUCTION

- TURNOVER : Average USD 140 mil. – 160 mil. (2024 - USD 106 mil.)
- CAPACITY : Weight Max. 18,000 ton / year
- QUANTITY : Average 350 – 400 set / year (* Refer to 'REFERENCE' slide for details)

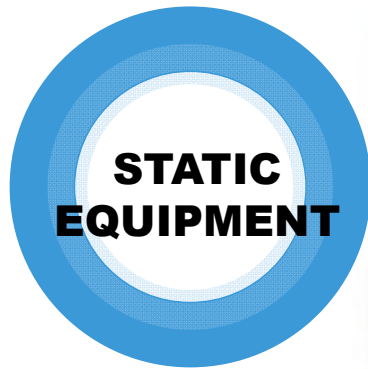
3

TOTAL EMPLOYEE

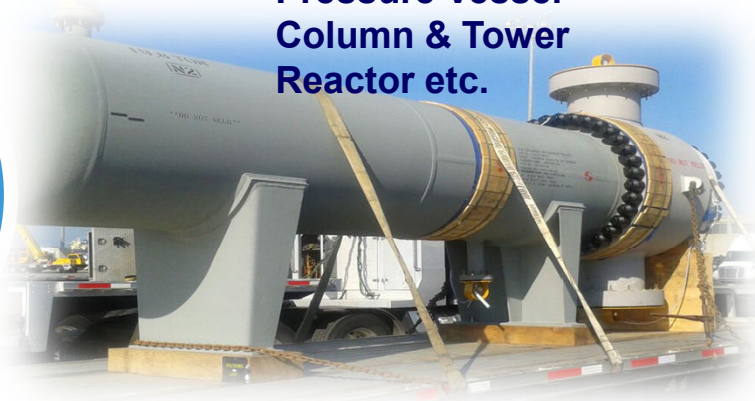
- TOTAL EMPLOYEE : 413 (Office Workers 145 + Shop Workers(Max.) 268)

COMPANY PROFILE (BUSINESS DIV.)

HANTECH is supplying high-quality static equipment, cryogenic vessels & tanks for oil & gas, petrochemical, industrial and green energy plants. Hantech provides exceptional engineering techniques and manufacturing capabilities to meet our customers' demand.



**Shell & Tube Heat Exchanger
Pressure Vessel
Column & Tower
Reactor etc.**



**Cryogenic Tank
Double Wall Storage Tank
Spherical Tank**



**Process Module
Green Hydrogen / Ammonia
Cask
CCUS
Plastic Recycling**



COMPANY PROFILE (PRODUCTION)



1

WEIGHT : 1,250 tons

2

LENGTH : 120,000 mm

3

DIAMETER : 13,000 mm

4

THICKNESS : 250 mm

COMPANY PROFILE (PRODUCTION)



Description		Maximum Capacity (m ³)		Remark
		Field	Shop	
Cryogen Tank	Flat Bottom (API 620)	25,000	N/A	Design Temp. : Down to -196 °C (LN2, LO2, LAr)
	Vacuum (ASME)	2,000	600	
Low Temp. Storage Tank (API 620, 650)		100,000	N/A	(NH3, C3, C4, C2H4)
Spherical Tank (ASME)		8,500	1,000	-

COMPANY PROFILE (MATERIALS)

Hantech is recognized as leading company for critical material equipment manufacturing.

NON FERROUS

- Nickel Alloy : Nickel, Hastelloy, Monel, Inconel, Incoloy
- Copper Alloy : Cu-Ni (70:30, 90:10), Aluminum Bronze, Aluminum Brass
- Special Alloy : Titanium, Zirconium, Tantalum

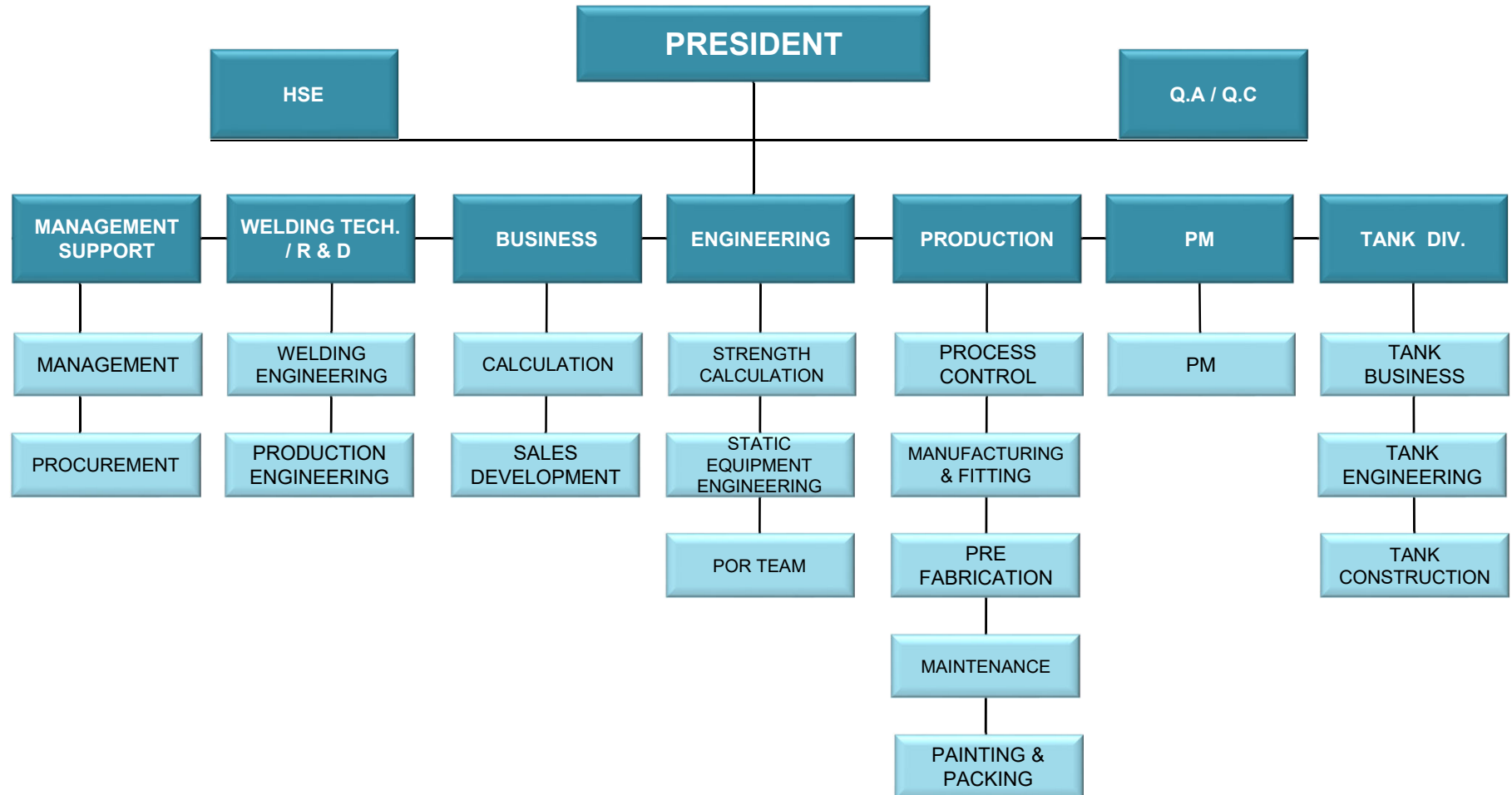
CLAD

- SS-Clad, Ti-Clad, Zr-Clad, Tri (Ti+Zr) Clad

FERROUS

- Low Alloy : Cr-Mo (1.25Cr-0.5Mo, 2.25Cr-1Mo, 5Cr-1Mo, 9Cr-1Mo), Nickel (3.5%, 9%)
- Stainless Steel & Duplex : Austenite, Martensite, Ferrite, Duplex, Super Duplex, 904L
- Carbon Steel : Killed Carbon Steel, HIC

COMPANY PROFILE (ORGANIZATION)



COMPANY PROFILE (PORT LOCATION)



COMPANY PROFILE (PROPRIETARY EQ.)

LICENSORS	DESCRIPTIONS
INEOS	PTA Process (Ti) Acetic Acid Process (Zr) PVC and VCM Process
INVISTA	PTA Process (Ti)
LUMMUS TECHNOLOGY	PDH Process Helical Heat Exchangers
UOP	PDH Process
KBR TECHNOLOGY	Primary Quench Exchangers (PQE) Nitric Acid Process Equipment
HALDOR TOPSOE	Ammonia Process
TOYO ENGINEERING	Stripers, Carbamate Condenser, Urea Reactor in Urea process
TECHNIP BADGER	Styrene Monomer Process
UNIVATION	Cycle Gas Cooler for PE
CONOCOPHILLIPS	Rod Baffle Heat Exchangers (Designed by Hantech)

INTERNATIONAL CLIENTS

HANTECH has been devoted to improving technology to meet the needs of our international clients. Through successful execution of projects and long term relationships with our global clients, HANTECH has built and maintains a reputation as the preferred partner.



INTERNATIONAL PARTNERS

HANTECH has involved in many projects in the world and internally devoted itself to changing and improving technology to meet the needs of international projects. With all the successful experience and history with its global customers, HANTECH has built its global reputation as preferred supplier for many global customers.

EUROPE

FLUOR



MCDERMOTT

Petrofac



NORTH AMERICA



FLUOR



MCDERMOTT



Kiewit



Worley
energy | chemicals | resources

KOREA

IDL E&C



HYUNDAI
ENGINEERING CO. LTD.

posco
E&C

SAMSUNG E&A



JAPAN



JGC



Sumitomo



MAJOR PARTNERS (TANK)

HANTECH has provided high-quality cryogenic and low temperature storage tanks to most of major gas companies. Our qualified engineering and manufacturing capabilities will meet your exact needs and assure your success.



SHOP LAYOUT

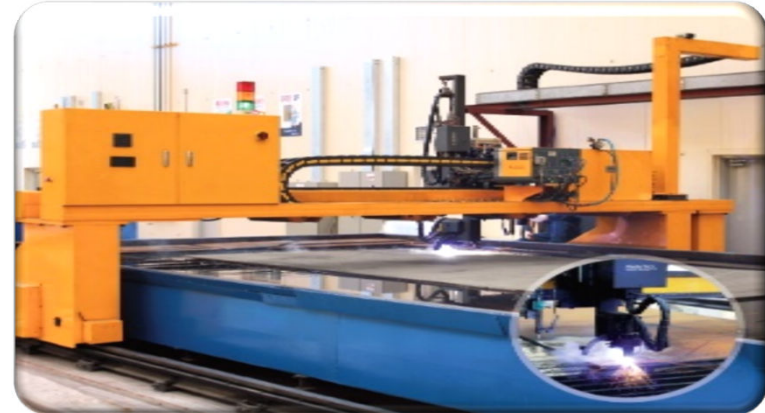


	SHOP DESCRIPTION & SIZE (m)		FABRICATION DESCRIPTION & SIZE (m)
1	Shop-1 (Heavy Equipment Fab.) : 33.8 W x 176 L x 25 H (5,949 m ²)	8 / 9	Shop-6 (Bundle/Machining) : 24.5 W x 180 L x 14 H (4,410 m ²)
2	Shop-2 (Pre-Fab./Fab.) : 24.4 W x 176 L x 21 H (4,294 m ²)	10	Bundle Fab. Shop : 24.5 W x 180 L x 12 H (3,825 m ²)
3	Shop-3 (Stainless Steel Shop) : 27.9 W x 176 L x 21 H (4,910 m ²)	11 / 12	⑪ Clean Shop / ⑫ Ware House : 24.5 W x 45 L x 19 H (1,103 m ²)
4	Shop-4 (Multi-Purpose Shop) : 24.4 W x 176 W x 21 H (4,294 m ²)	13 / 14	RT Room : ⑬ 12 W x 20 L x 11 H / ⑭ 9 W x 21 L x 5.5 H
5	Shop-5 (Small Equ'p Fab.) : 22.4 W x 117 L x 18 H (2,621m ²)	15	⑮ Acid Cleaning Room : 8 W x 21 L x 9 H (168 m ²)
6	Blasting and Painting Shop : 22 W x 69 L x 15.4 H (1,518 m ²)	16	⑯ Waterjet Cutting M/C : 8.9 W x 18.6 L x 7 H (165.5 m ²)
7	Inspection & Packing : 22.5 W x 136 L x 21 H (3,060 m ²)	17/18	Furnaces : ⑰ 7 W x 17 L x 7 H, Furnaces : ⑱ 13 W x 21 L x 14 H
19	Hot Cycle Test Room : 10 W x 60 L x 10 H (600 m ²)	-	-

MACHINERY & EQUIPMENT



▲ WATER JET CUTTING M/C



▲ PLASMA JET CUTTING M/C



▲ B. T. A



▲ BORING M/C



▲ BENDING ROLLER

HEAT TREATMENT FURNACE



- Size : 13 m (W) x 14 m (H) x 21 m (L)
- Max. Temperature : 720°C (By Gas)
- Capacity : 500 tons (Batch Type)

- Size : 2.9 m (W) x 2.9 m (H) x 2.7 m (L)
- Max. Temperature : 1,150°C (By Electric)
- Capacity : 10 tons



- Size : 7 m (W) x 7 m (H) x 17 m (L)
- Max. Temperature : 1,200°C (By Gas)
- Capacity : 350 tons (Car type)



RT BUNKER



- Size : 12 m (W) x 11 m (H) x 20 (L)
- Thickness : 203 mm (Max)
- Shooting Capa. : Less than 4 minutes (150 mm)
- Capacity : 500 tons
- Moving Bed Installed



- Size : 9 m (W) x 5.5 m (H) x 21 m (L)
- Thickness : 75 mm (Max)
- Shooting Capa. : 116 minutes (75 mm)
- Capacity : 250 tons
- Moving Bed Installed

CERTIFICATE



ASME “S”, “U”, “U2”



National Board ‘NB’, ‘R’



ISO 9001, ISO 14001, ISO 45001, ISO 50001



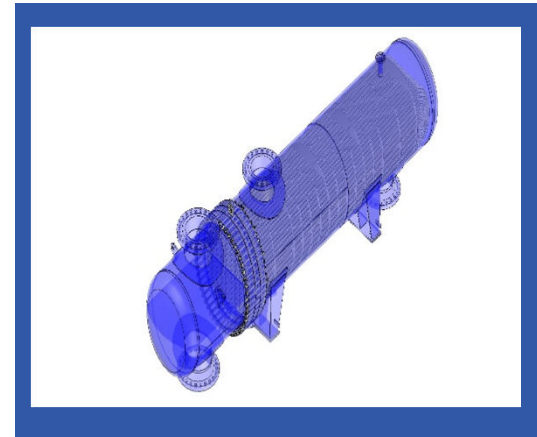
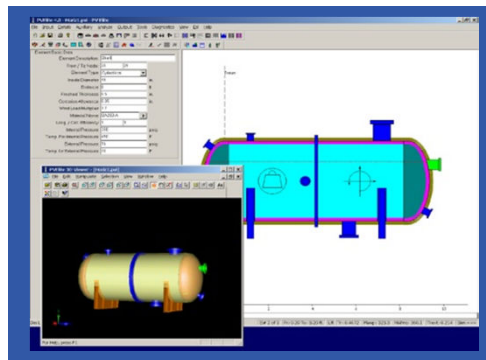
ML / KEPIC

DESIGN CAPABILITY

Distinctive design capabilities along with relevant certificates enable HANTECH to provide value-added products. Using the latest software and design tool will also guarantee that we are able to meet client requirements.

DESIGN CAPABILITY

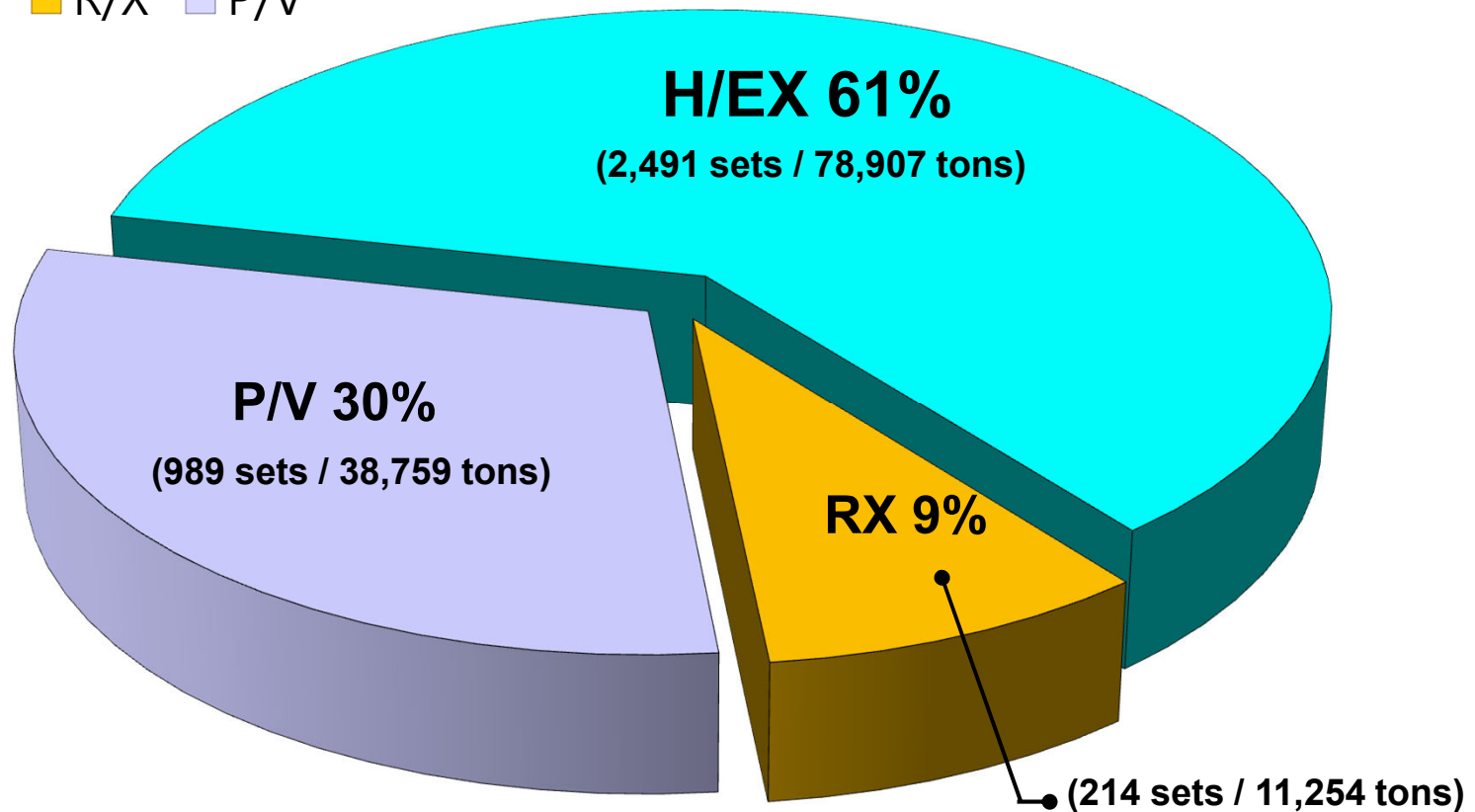
- COMPRESS (Ver.8400)
- PVELITE (Ver.25)
- Code Calculation (Ver.25)
- ETANK 2000 (Ver.1.9.14)
- HTRI (Ver. Xist 9.1)
- Nozzle PRO (Ver. 2022)
- ROD BAFFLE (Ver.96.1)
- Solid Edge (Ver. ST6)
- FEA (Finite Element Analysis)
 - NISA (V20)
 - ABAQUS (2024)
 - ANSYS (2023 R2)



REFERENCE

TOTAL RECORD FOR RECENT 10 YEARS (2014 – 2024)

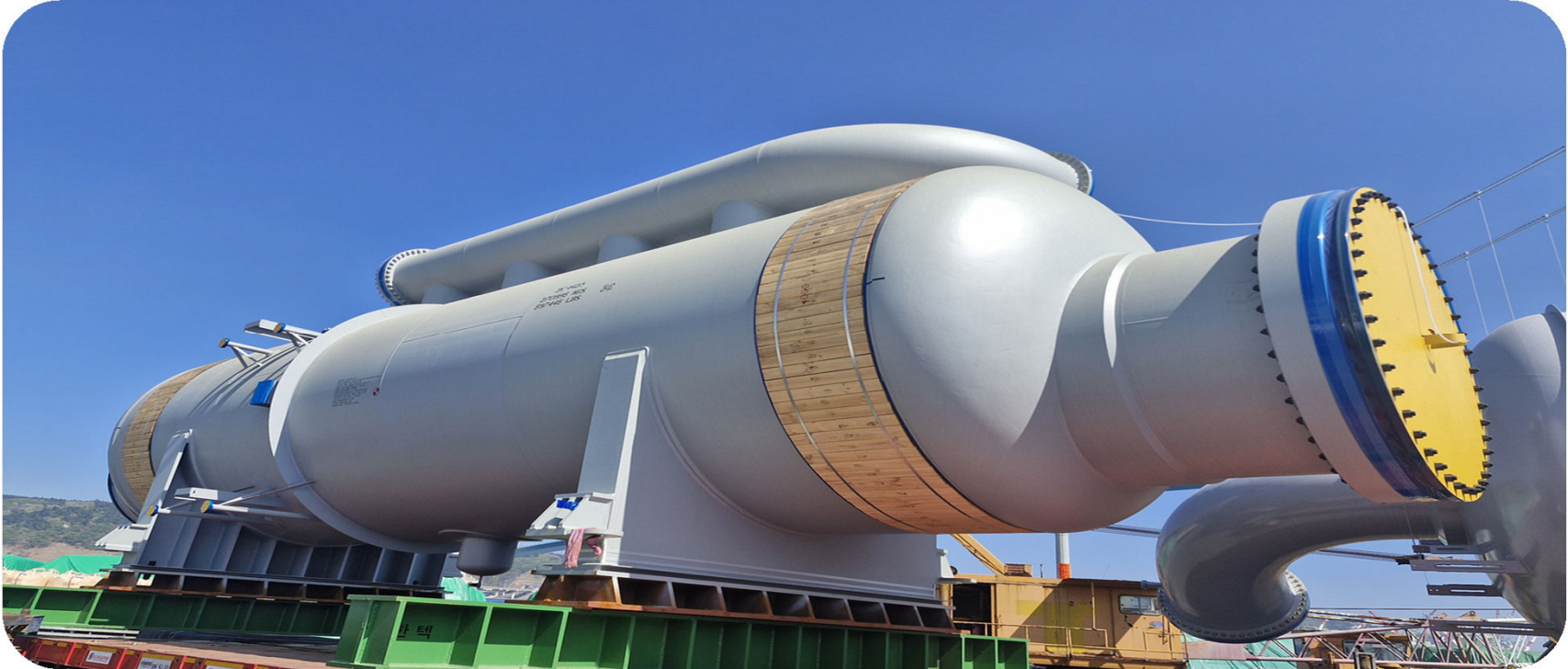
■ H/EX ■ R/X ■ P/V



- H/EX : Heat Exchangers,
- P/V : Pressure Vessels (including Tower & Columns)
- RX : Reactors

REFERENCE LIST

(HP MR-MP PROPANE VAPORIZER – CHAIN TYPE)



CLIENT : NEXTDECADE CORP / BECHTEL (2025)

PROJECT : RIO GRANDE LNG

LOCATION : USA

MATERIAL : SA516-70N / A179

SIZE (mm) : 27 (T) x 4,267/2,354 (ID) x 18,280 (L), 262 tons

REFERENCE LIST

(TITANIUM HEAT EXCHANGER)



CLIENT : SHINTECH LOUISIANA LLC (2025)

PROJECT : VCM PLANT

LOCATION : USA

MATERIAL (S / T) : SA516-70N / SB265-2, SA338-12

SIZE (mm) : 10 (T) x 685 (ID) x 6331 (L), 7.8 tons

REFERENCE LIST

(DEPOSITION CHAMBER VESSEL)



CLIENT : NEXEON (2024)

PROJECT : CAMP

LOCATION : GUNSAN KOREA

MATERIAL : SA240-316

SIZE (mm) : 55/32/28 (T) x 1,700 (ID) x 5,457 (L), 16.3 tons

REFERENCE LIST

(H2S REACTOR - LYCOPODIUM)



CLIENT : AMBATOVY – NICKEL MINE (2024)

PROJECT : H2S REACTOR / H2S QUENCH TOWER REPLACEMENT

LOCATION : MADAGASCAR

MATERIAL : SA240-310S

SIZE (mm) : 36.2/29/28.8(T) x 2350(ID) x 12180L, 34.5 Tons

REFERENCE LIST

(DEHYDRATION TOWER)



CLIENT : HANWHA IMPACT / METS ENG (2024)

PROJECT : NO.1 HPDT

LOCATION : KOREA

MATERIAL : SA516-70N+SB265-1 CLAD

SIZE (mm) : 43+ Min.2 (T) x 5,200 (ID) x 57,160 (L), 394.2 tons

REFERENCE LIST

ABSORBER COLUMN (Nitric Acid Process - KBR)



CLIENT : HANWHA CORP / HANWHA ENG (2024)

PROJECT : N-1

LOCATION : YEOSU-SI, KOREA

MATERIAL : SA240-304L

SIZE (mm) : 26 ~ 44 (T) x 4,419.6 (ID) x 67.234 (L) , 534 tons

REFERENCE LIST

(REACTOR REHEATER - BADGER)



CLIENT : Lianyungang Petrochemical Co. / TECHNIP (2022)

PROJECT : 600 KTA EB/SM

LOCATION : CHINA

MATERIAL : SA240-304H, Alloy800H / SA213-304H

SIZE (mm) : 50/70/102 (T) x 3,366 (ID) x 17,650 (L), 241 tons

REFERENCE LIST

(Ti. OXIDATION REACTOR - INEOS)



CLIENT : PT BP PETROCHEMICALS / TECHNIP (2020)

PROJECT : CAKRA DONYA

LOCATION : INDONESIA

MATERIAL : SA516-70N + SB265-1 (Clad)

SIZE (mm) : 76+3 (T) x 8,900 (ID) x 17 530 (L), 404 tons

REFERENCE LIST

(DHU REACTOR REHEATER - BADGER)



CLIENT : INNOVA / TECHNIP (2018)

PROJECT : SM EXPANSION

LOCATION : BRAZIL

MATERIAL : SA240-304/304H, SB407-N08810, SA312-TP304H

SIZE (mm) : 12/25 (T) x 3,600/4,400 (ID) x 33,520 (L), 280 tons

REFERENCE LIST

(DHU REHEATER - BADGER)



CLIENT : YEOCHUN NCC CO.,LTD. / TECHNIP (2019)

PROJECT : SM EXPANSION

LOCATION : YEOSU, KOREA

MATERIAL : SA240-304/304H, SB407-N08810, SA312-TP304H

SIZE (mm) : 12/38 (T) x 3,200/3,700 (ID) x 29,400 (L), 213 tons

REFERENCE LIST

(CARBAMATE CONDENSER - TOYO)



CLIENT : P.T. Petrokimia Gresik (2017)

PROJECT : UREA PROJECT

LOCATION : INDONESIA

MATERIAL (S/T) : SA516-70 / A765-2+DP28W LINING

SIZE (mm) : 14/127+6 (T) x 1,300 / 1,360 (ID) x 14,300 (L), 56 tons

REFERENCE LIST

(HEAT EXCHANGER : MODIFIED “D” TYPE)



CLIENT : BANGCHAK CORPORATION / CTCI (2018)

PROJECT : BANGCHAK REPLACEMENT

LOCATION : THAILAND

MATERIAL (S / C / T) : SA387-22 CL2+316L CLAD / SA336-F22 CL3 + 347 SS DEPO. / SA213-TP321

SIZE (mm) - : 142 (Th'k on Channel 137+5 DEPO) x 1,050 (ID) x 8,408 (L), 34 tons

REFERENCE LIST

(NO.2 CLAUS REACTOR)



CLIENT : QATARGAS / CHIYODA (2022)

PROJECT : NORTH FIELD EAST PROJECT ONSHORE LNG

LOCATION : QATAR

MATERIAL : SA516-70 with Refractory

SIZE (mm) : 24 (T) x 9,500 (ID) x 16,080 (L), 671.6 tons (Equip. 412.3 + Refractory 259.3)

REFERENCE LIST

(DEHYDRATOR)



CLIENT : FLNG Liquefaction LLC. / CB&I&ZACHRY (2016)

PROJECT : FREE PORT LNG LIQUEFACTION

LOCATION : USA

MATERIAL : SA516-70N

SIZE (mm) : 166 (T) x 4,115 (ID) x 16,770 (L) WEIGHT (set) : 193 tons

REFERENCE LIST

(CYCLE GAS COOLER - UNIVATION)



CLIENT : OMAN OIL REFINERIES AND PETROLEUM / CB&I (2017)

PROJECT : LIWA PLASTIC

LOCATION : OMAN

MATERIAL (S / T) : SA516-70N / SA789-S31803

SIZE (mm) : 19, 19/38 (T) x 2,591 (ID) x 27,540, 191 tons

REFERENCE LIST

(Chain type HP MR / LP C3 CHILLER – AIR PRODUCT)



CLIENT : TANGGUH LNG/CHIYODA&SAIPEM&TRIPATRA (2018)

PROJECT : BP TANGGUH ONSHORE EXPANSION EPC PROJECT

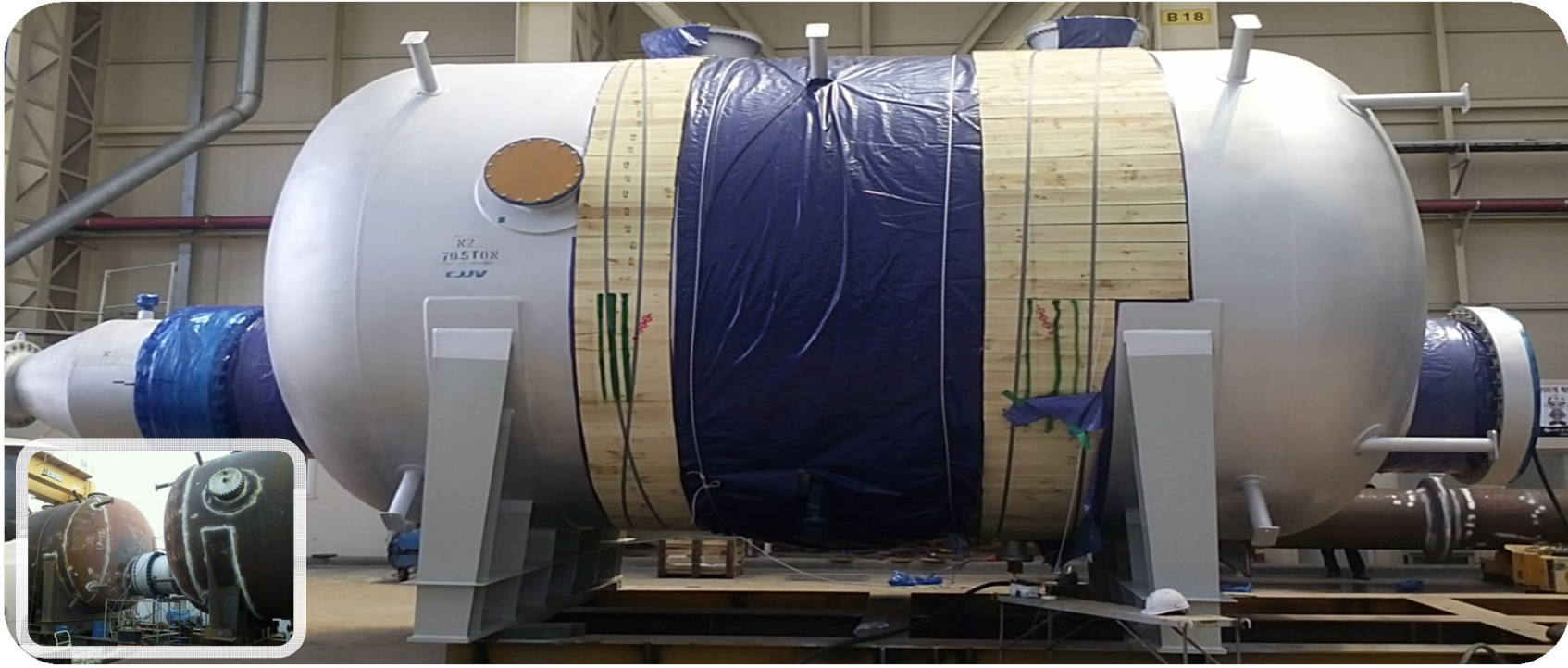
LOCATION : INDONESIA

MATERIAL (S / T) : SA240-304/304L / SA213-304/304L

SIZE (mm) : 29/67 (T) x 5,100 / 2,070 (ID) x 21,630 (L), 422.6 tons

REFERENCE LIST

(MR/HP PROPANE COOLER – AIR PRODUCT)



CLIENT : ESSO AUSTRALIA PTY LTD / CHIYODA&JGC (2011)

PROJECT : PNG LNG PLANT

LOCATION : PAPUA NEW GUINEA

MATERIAL (S / T) : A203-E / A334-6

SIZE (mm) : 28/30 (T) x 4,630 / 1,350 (ID) x 11,000 (L), 70.5 tons

REFERENCE LIST

(PRIMARY QUENCH EXCHANGER - KBR)



CLIENT : GS Caltex / KBR(2020)

PROJECT : GS Caltex Mixed Feed Cracker (MFC)

LOCATION : Korea

MATERIAL (S / T) : SA106-C / SA335-P11, HP Modified + NB Low Carbon

Q'ty : 288 PQEs (16 Banks), 400 tons

REFERENCE LIST

(1st & 2nd STAGE OXYCHLORINATION REACTOR - INEOS)



CLIENT : QINGDAO HAIWAN CHEMICAL LTD. (2019)

PROJECT : VCM

LOCATION : CHINA

MATERIAL (S / T) : SA516-70N / B163-N02200

SIZE (mm) : 36/22+3.5 (T) x 3,500 (ID) x 8,236 (L), 104 tons

REFERENCE LIST

(3-CAR HEAT EXCHANGER - BADGER)



CLIENT : ZHEJIANG PETROLEUM & CHEMICAL CO. / TECHNIP (2018)

PROJECT : 1200 KT/A SM PLANT

LOCATION : CHINA

MATERIAL (S / T) : A240-304H, A516-70N, A516-70 / A213-304H, A213-T11/A179

SIZE (mm) : 23, 95, 25/40,20 (T) x 4,444 (ID) x 40,730 (L), 605 tons

REFERENCE LIST

(Ti. HEAT EXCHANGER – 2nd CONDENSER - INVISTA)



CLIENT : CHINA PROSPERITY PETROCHEMICAL CO. (2015)

PROJECT : PTA

LOCATION : CHINA

MATERIAL (S / T) : SA516-70N / SB338-2

SIZE (mm) : 55/48 (T) x 4,850 (ID) x 14,803 (L), 113.5 tons

REFERENCE LIST

(HOT COMBINED H/EX WITH INNER BORE WELDING - LUMMUS)



CLIENT : SK GAS CO., LTD. / SK ENG (2015)

PROJECT : PDH

LOCATION : KOREA

MATERIAL (S / T) : SA240-321H, SA387-11.CL1 / SA213-321H

SIZE (mm) : 22/25 (T) x 3,200 (ID) x 19,700 (L), 210 tons

REFERENCE LIST

(VACUUM COLUMN)



CLIENT : ORPIC / DAELIM&PETROFAC (2015)

PROJECT : SOHAR REFINERY IMPROVEMENT

LOCATION : OMAN

MATERIAL : SA204-AN+SA240-316L CLAD

SIZE (mm) : 31+3 (T) x 10,000 (ID) x 43,750 (L), 439 tons

REFERENCE LIST

(Zr. & Ti. HYDROLYSIS REACTOR)



CLIENT : SAMSUNG FINE CHEMICAL (2009)

PROJECT : FORMIC ACID

LOCATION : KOREA

MATERIAL : SA516-60 + Ti-1 + Zr-702 Clad

WEIGHT (set) : 10 tons

REFERENCE LIST

(Zr. COLUMN - INEOS)



CLIENT : LOTTE BP CHEMICALS (2019)

PROJECT : ACETIC ACID PLANT

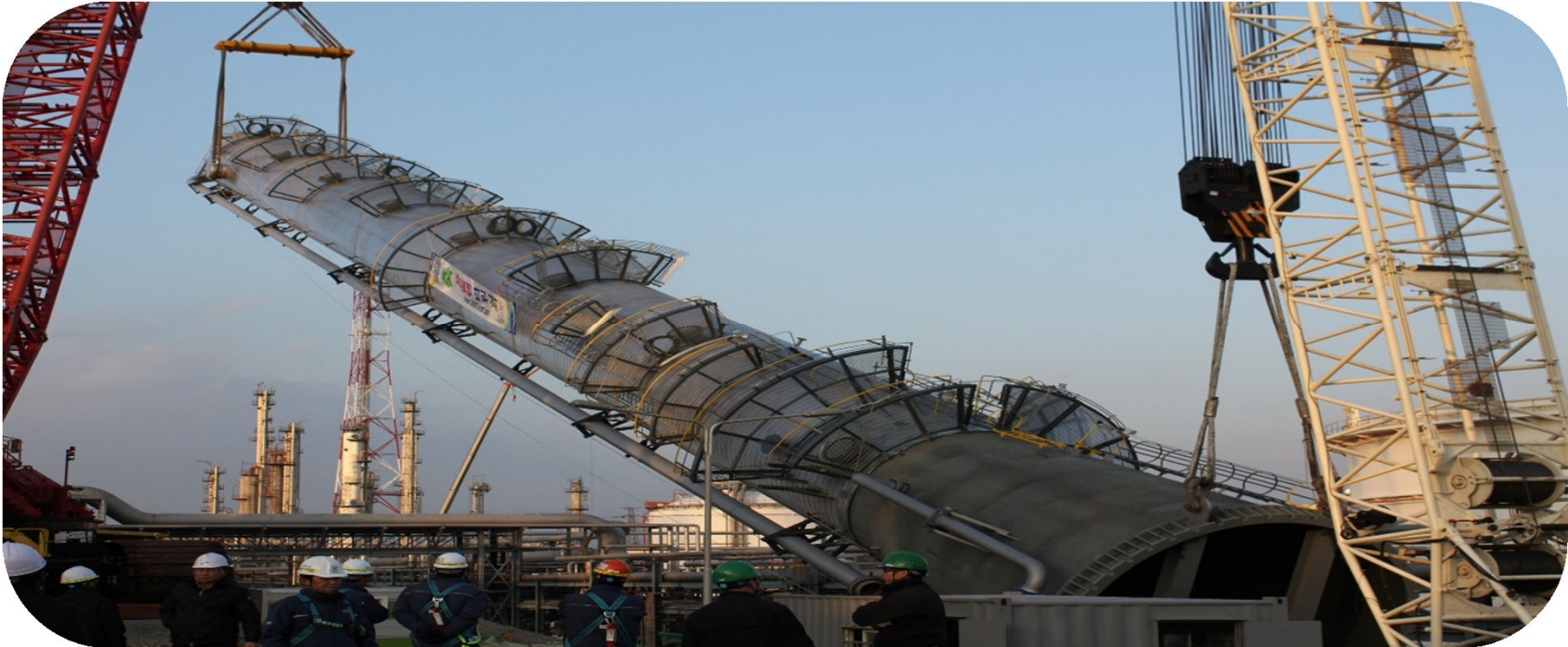
LOCATION : SOUTH KOREA

MATERIAL : B551-R60702

SIZE (mm) : 10 (T) x 1,115 / 1,600 (ID) x 39,900 (L), 17 tons

REFERENCE LIST

(TOWER – PROPYLENE RECTIFIER)



CLIENT : KPIC / GS E&C (2016)

PROJECT : KPIC ONE

LOCATION : KOREA

MATERIAL : A516-70N

SIZE (mm) : 39 (T) x 4,800 (ID) x 87,510 (L) (Supplied with Insulation and Tray) , 715.9 tons

REFERENCE LIST

(CRYOGENIC STORAGE TANK - LIN)



CLIENT : AIR FIRST (2022)

PROJECT : ALPS, Cryogenic Large Storage Tank (Liquid Nitrogen 22,444 m³)

LOCATION : KOREA

MATERIAL : A240-340, A283-C

SIZE : 27,800 (ID) x 30,000 (L), 1,576 tons

REFERENCE LIST

(LPG STORAGE TANK – C3 Propane)



CLIENT : POSCO / POSCO ENG / (2016)

PROJECT : Gwang-Yang LNG Terminal LPG Storage Tank

LOCATION : KOREA

MATERIAL : A537 CL1, A537 CL2 / A36

SIZE : 58,500 (ID) x 34,500 (L), 4,308 tons

REFERENCE LIST

(LOW TEMPERATURE STORAGE TANK – NH₃ Ammonia)



CLIENT : SAMSUNG FINE CHEM / SAMSUNG EVERLAND (2012)

PROJECT : SFC NH₃ Dome Tank

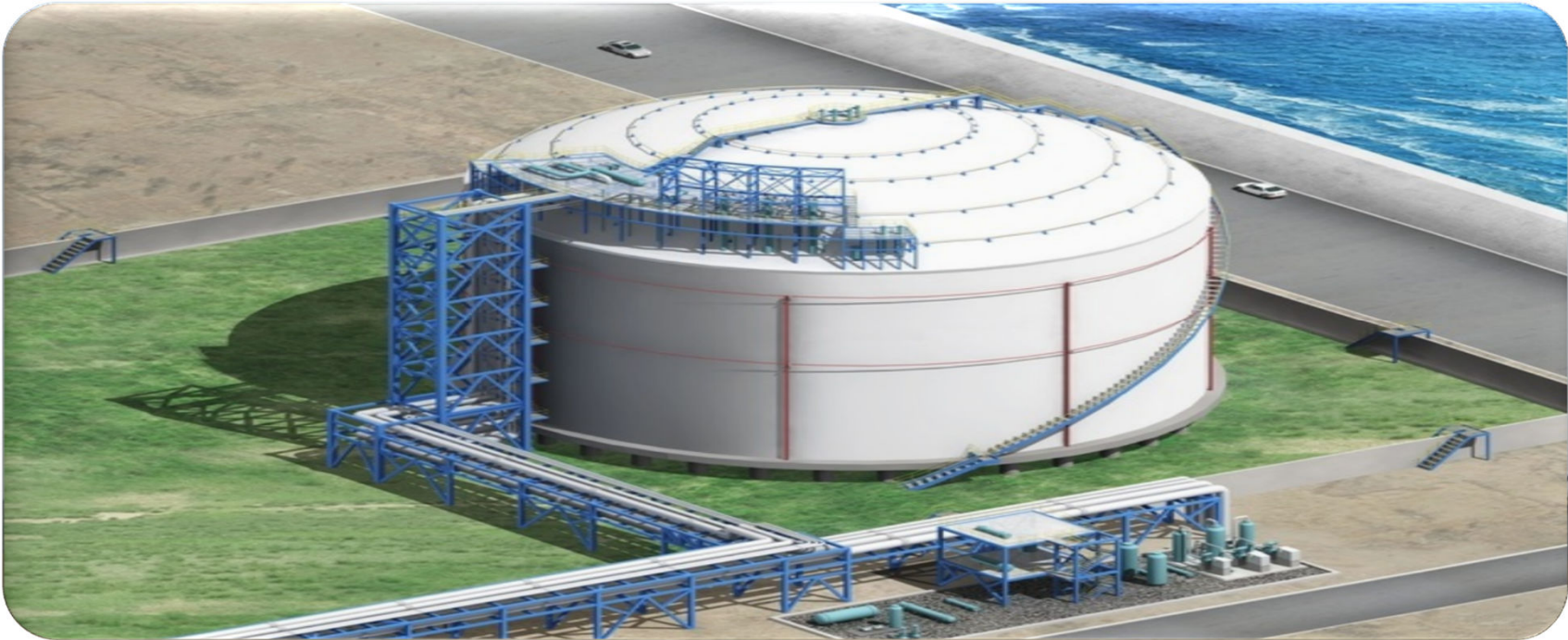
LOCATION : KOREA

MATERIAL : A537 CL1 + S5

SIZE : 38,000 (ID) x 35,956 (L), 1,233 tons

REFERENCE LIST

(LOW TEMPERATURE STORAGE TANK – NH₃ Ammonia)



CLIENT : KOSPO / SAMSUNG C&T (2025 Ongoing)

PROJECT : Samcheok Hydrogen Compound Co-Firing Facility Infrastructure

LOCATION : KOREA

MATERIAL : A537 CL1 + S5

SIZE : 50,000 (ID) x 27,520 (L), 3,131 tons, Full Containment (Double wall tank)

REFERENCE LIST

(SPHERICAL STORAGE TANK - Propylene)



CLIENT : HANWHA TOTAL / HANWHA E&C (2019)

PROJECT : NCC SIDE CRACKER

LOCATION : KOREA

MATERIAL : A537CL.2+S5

SIZE : 45.5 ~ 48 (T) x 21,300 (ID), 677.5 tons

REFERENCE LIST

(SPHERICAL STORAGE TANK - LPG)



CLIENT : JPRC / LOTTE E&C (2010)

PROJECT : New Automatic LPG Storage Facilities

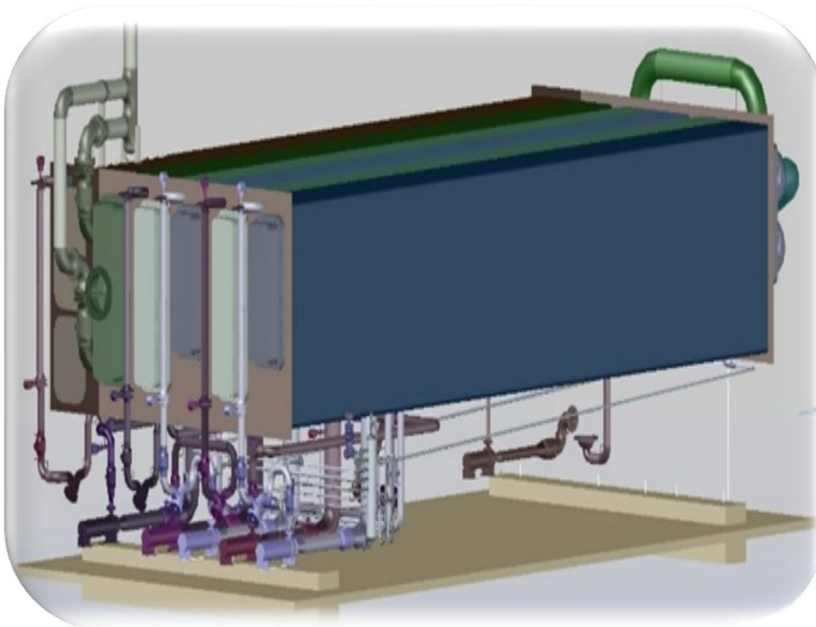
LOCATION : JORDAN

MATERIAL : SA516-70N + S5

SIZE : 46~49 (T) x 20,000 (ID), 583 tons / set (Total 4 sets)

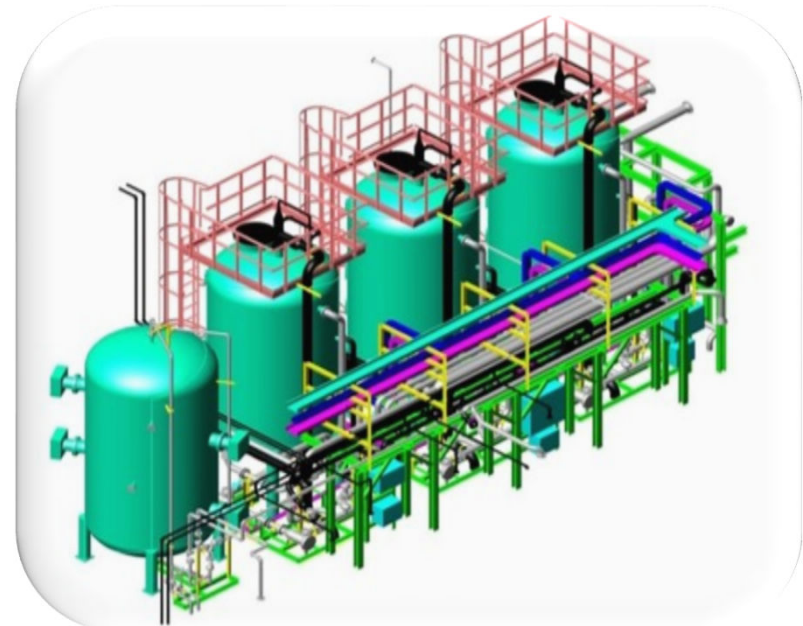
REFERENCE LIST

(MODULE RELATED)



- Project : SADARA Isocyanates Plant
- Client : Daelim / Aramco / Dow (KSA, 2014)
- Dimension : 6,000 (W) x 4,500 (H) x 14,000 (L)
- Weight : 130 tons
- Material : SA516-70 / SA789-S32205 (Shell/Tube)
SA312-TP316/316L (Pipe)

- Project : MARAFIQ STG Unit 5&6 Project
- Client : Siemens (KSA, 2011)
- Dimension : 5,700 (W) x 15,000 (L)
- Material : A240-304 / A238-C





Enabling a Sustainable Future Ahead !

- Hantech Ltd. -