

瑞恩工程技术有限公司

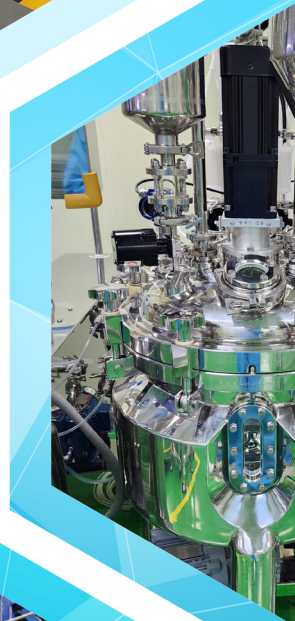
SEOEUN PLANT TECH CO., LTD.

深耕行业40余年，集设计、认证与工程咨询于一体的综合工程技术企业

石油与精细化工 | 生物 | 食品 | 新材料 | 医药 | 二次电池 | 能源与环境领域

压力容器 | 换热器 | 塔器 | Pilot Plant | Test Bed | 国家R&D科研项目等

立足四十载积淀，专注核心技术，助力全球工业升级



瑞恩工程技术有限公司
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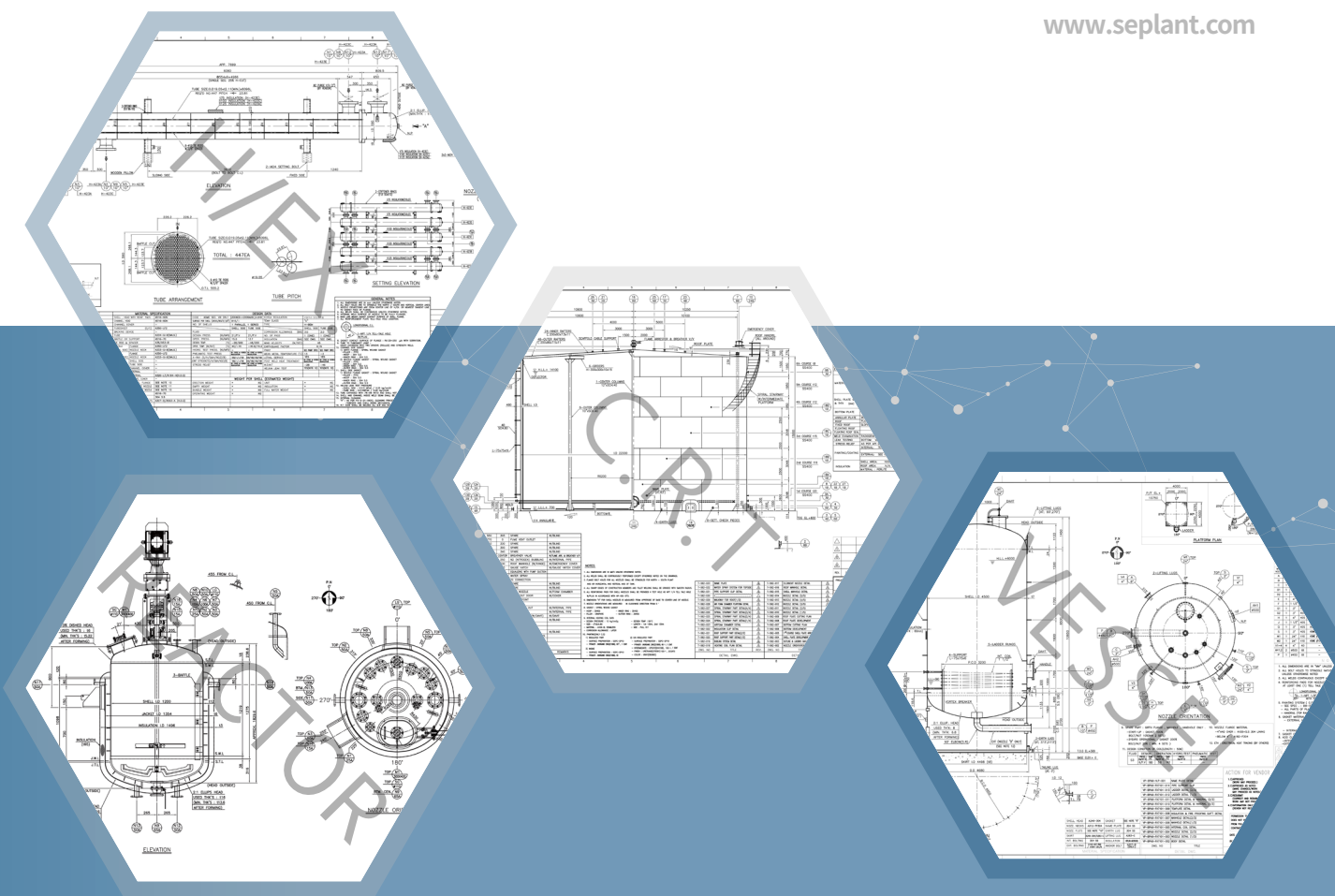
公司简介

About Company

瑞恩工程技术有限公司是一家为石油化工与精细化工、生物、医药、食品、新材料、二次电池、能源与环境等领域 提供服务的综合工程技术公司。

公司业务涵盖工程设计、国内外认证、技术咨询及设备制造支持等，为产业界、学术界、研究机构及政府与军方单 位提供专业的一站式工程解决方案。

凭借40余年积累的技术经验与行业信誉，瑞恩工程技术有限公司始终致力于为客户提供高品质的工程技术服务，助力客户在韩国及全球市场获得认可与成功。



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公司沿革

History

- 1998** • 成立 Seoeeun Engineering
业务领域：石油化工设备初步设计及详细设计
- 2002** • 开发 MECAL V2.0 强度计算程序 (符合 ASME 规范)
- 2005** • 发布 MECAL V3.0 强度计算程序新版本
(符合 ASME 规范)
- 2008** • 完成多种设备设计软件引进
• 业务领域扩展：热计算、管道、工艺及结构设计
- 2011** • 业务领域扩展：韩国压力容器认证及检验代理业务
(KOSHA, KEA, KGS 认证机构及消防法)
- 2013** • 业务领域扩展：船级压力容器设计认证及检验代理
(KR, ABS, DNV, GL, LR, RINA 等船级社)
- 2014** • 公司更名为 SEOEUN PLANT TECH CO., LTD.
• 业务领域扩展：KEA, KOSHA, KGS 海外认证及
检验代理
- 2015** • 应用 MIDAS GEN 程序 (异形结构应力分析)
• 业务领域扩展：启动工艺设计、机械设备、
电气、仪表等综合工程服务
- 2017** • 业务领域扩展：开展韩国能源公团 (KEA)
进口压力容器检验代理业务 (KOSHA 及 KGS 等)
- 2018** • 开发及应用 JIS 强度计算程序 (JIS B8265~8267)
• 支持高规格高温高压特种设备制作
- 2020** • 业务领域扩展：在韩国率先引入 TEST BED 概念并实施设计
- 2022** • 完成中试装置 (PILOT PLANT)、试验平台 (TEST BED)
等实验设备制造及各工况测试室扩建搬迁
- 2024** • 完成韩国盆唐总部及韩国第一工厂扩建搬迁
• 海外进口容器认证及检验代理累计达 2500 件
- 2025** • 已获韩国产业技术振兴协会认定为企业研究开发专职部门
- 2026** • 着手开发基于韩国设计标准的全球唯一设计程序 (开发中)
• 开启专利布局元年 (已获1项 / 申请中2项 / 多项筹备中)



设计范围

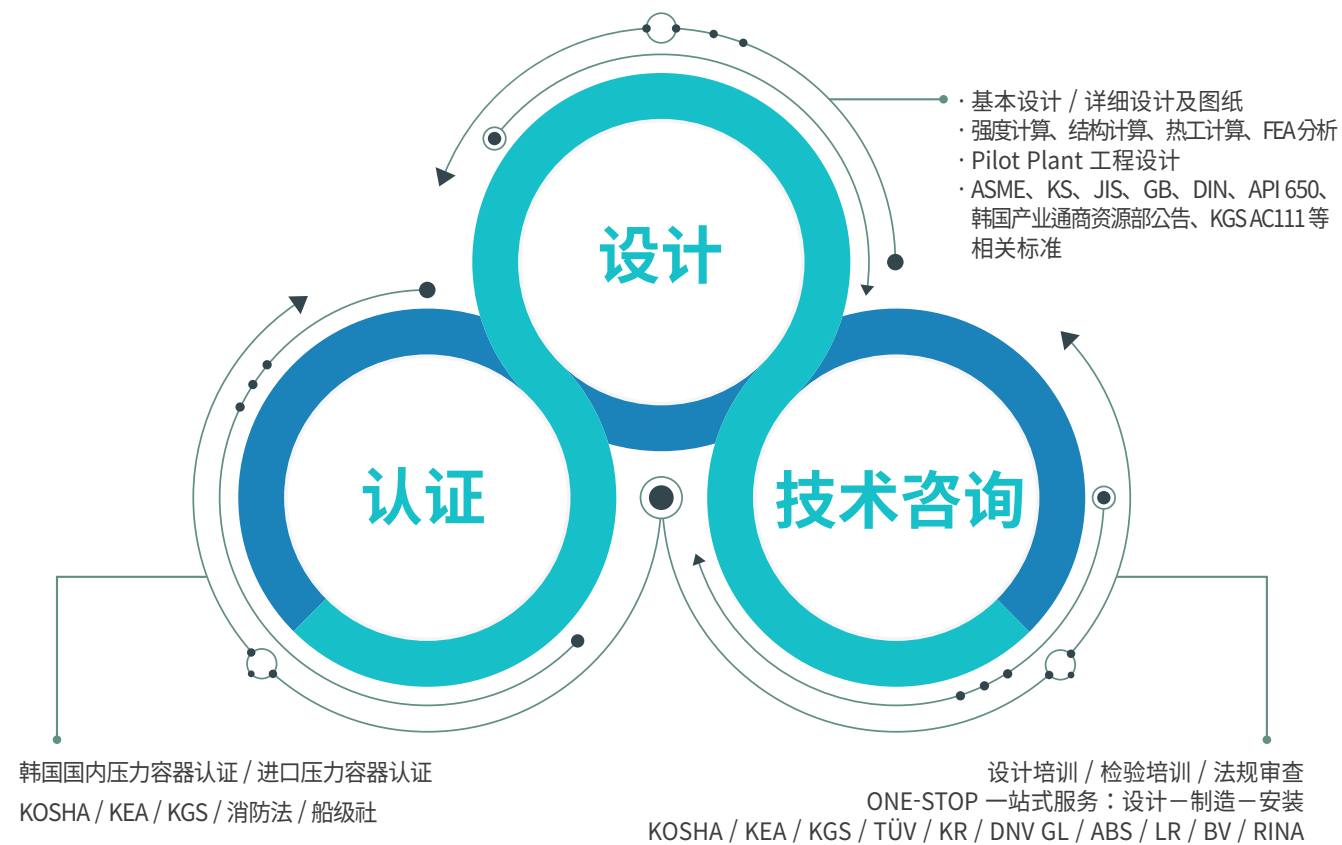
Design Scope

设计范围

- ① 应用于石油化工与精细化工、生物工程、医药、食品工程、新材料、二次电池及节能环保等领域的各类压力容器及相关装置设备。
- ② Pilot Plant、Test Bed 及 R&D 科研项目。
- ③ 根据客户需求提供的各类工程设计服务。

- 01 参与项目报价阶段 (开发 / 新建 / 扩建 / 维修等)
- 02 仅需设计服务 (图纸设计 / 强度计算 / 结构计算 / 热计算 / PFD / P&ID / 管道设计)
- 03 仅需认证服务 (韩国产业安全保健公团[KOSHA] / 韩国能源公团[KEA] / 韩国煤气安全公社[KGS] 等)
- 04 设计与认证一体化服务
- 05 设计、认证与制造全过程技术支持
- 06 咨询服务 (设计培训 / 检验培训 / 法规审查)

* Pilot Plant / Test Bed / R&D 项目建议按照第5项方案推进。



设计对象

Design Target

设计对象

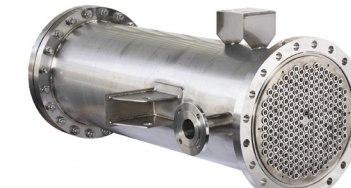
适用于蒸发、吸收、蒸馏、干燥、吸附等工艺过程中，用于流体的储存、分离、输送及混合等的压力容器及相关整体工艺设备的 Pilot Plant 工程设计。

可设计设备范围

压力容器 / 储罐 / 换热器 / 塔器 / 反应器 / 搅拌器 / 生物反应罐 / 空气集管 / 蒸汽集管 / 高压气体容器 / 高压釜 / 杀菌釜 / 杀菌机 / 灭菌器 / 染色机 / 接收罐 / 蒸汽提取器 / 蒸馏器 / 干燥机 / 培养罐 / 脱氧器 / 蓄能器 / 闪蒸罐 / 蒸发器等



压力容器 (Pressure Vessel)



换热器 (Heat Exchanger)



生物反应器 (Bio Tank)



反应器 (Reactor)



储罐 (Storage Tank)



高压釜 (Autoclave)



筒仓 (Silo)



塔器 (Tower)



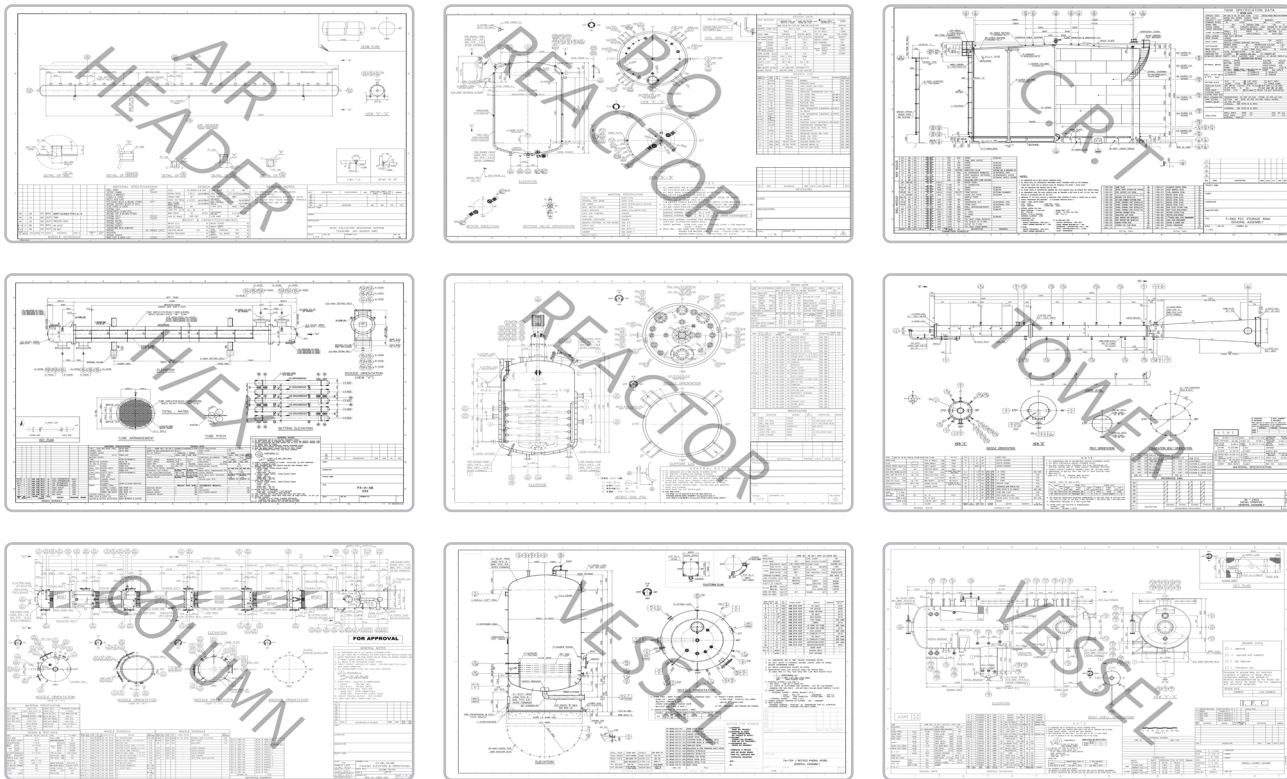
中试装置 (Pilot Plant)



设计图纸 Design Drawing

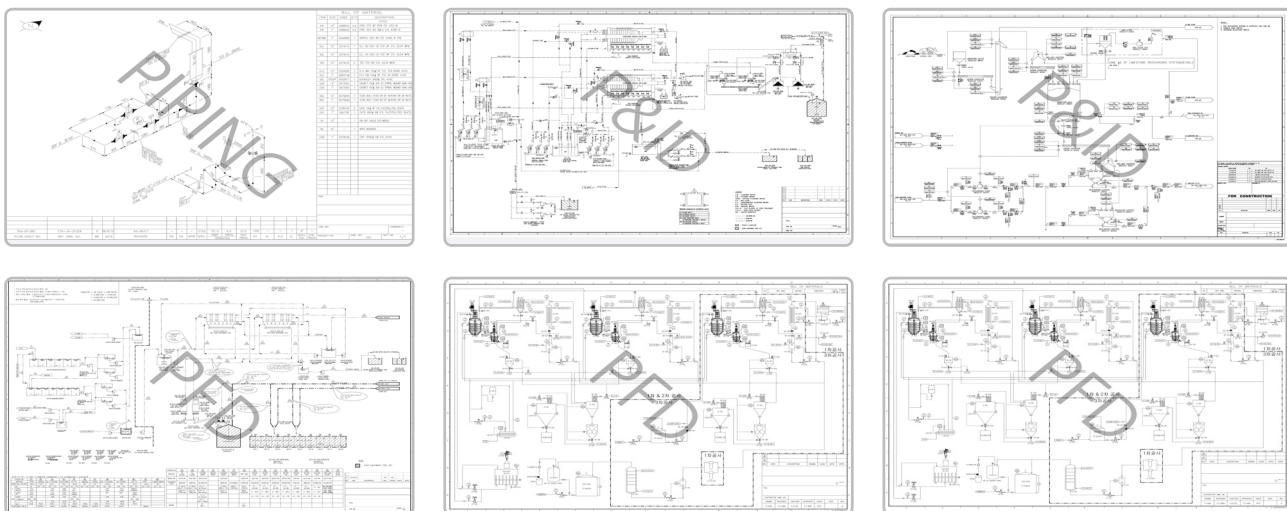
■ 压力容器 — 基本设计 / 详细设计

可为 VESSEL / REACTOR / H/EX. / AUTOCLAVE / TOWER / C.R.T / FILTER HOUSING / SILO / AIR HEADER等
设计对象 (详见上述内容) 中的各类压力容器提供图纸
设计服务。



■ PLANT – PFD / P&ID / PIPING

针对介于实验室规模与工业化生产之间的中试装置 (Pilot Plant), 我们可提供从工艺设计到施工图设计的完整工程设计服务。



设计计算 Design Calculation

■ 设计规范

ASME SEC.VIII DIV.1,2 / KS B6750 / JIS B8265 /
韩国产业通商资源部公告/ KGS AC111 / ASME SEC. X /
API 620,650 / 船级社规范(KR, ABS, DNV.GL, LR, RINA

■ 应用软件

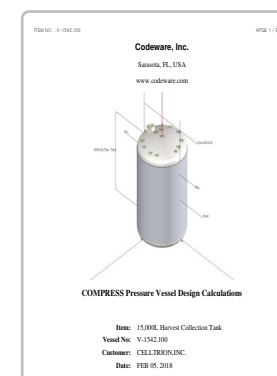
COMPRESS / MECAL / HTRI / MIDAS / ANSYS /
其他自主开发并应用的软件



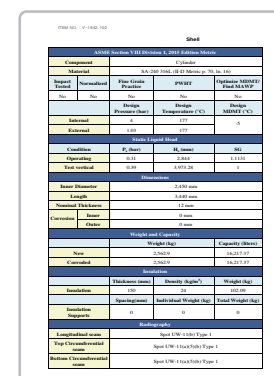
01

强度计算

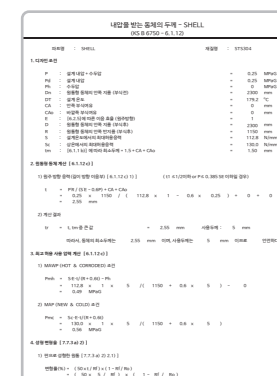
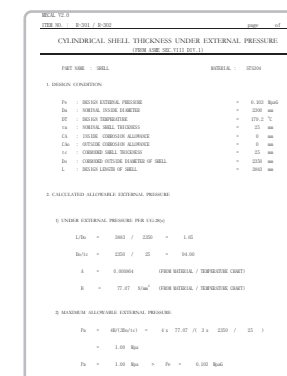
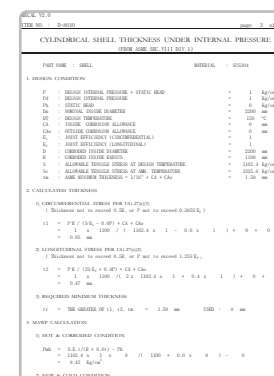
ASME BPVC. SEC.VIII Division 1, 2 – 美国机械工程师学会标准
KS B 6750 – 韩国工业标准
JIS B 8265~7 – 日本工业标准



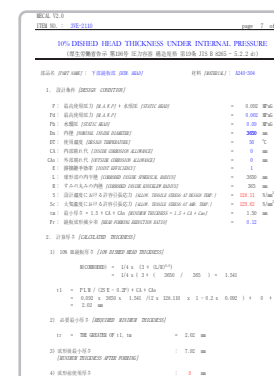
COMPRESS 软件



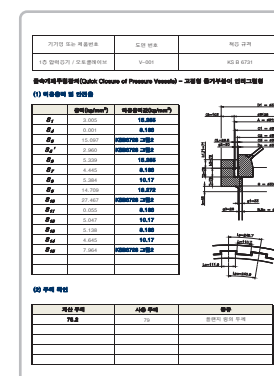
MECAL 软件



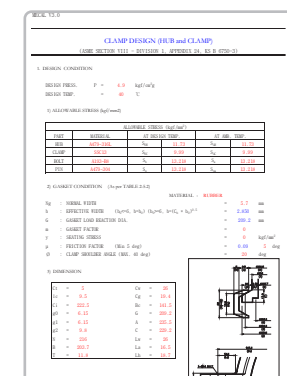
MECAL 韩语版软件



MECAL (日语+英语) 软件



快速开启装置 / 夹箍计算



02 结构计算

기타 정보 및 제품번호		도면번호	제품규격
1종발행유형 1종가		D-S104-001	선형전자식자속 2종서 제 2015-183호
$I = \frac{P R W}{2 \pi a L (0.5 - 0.2 P)} + a = \frac{0.3 \times 2 \times 114 \times 0.95}{1.0 - 0.2 \times 0.3} + 0.0$ $= 3.95 \text{ mm}$		(상부 / 하부)	
원형부	최소 두께 : 3.95 mm	사용두께 :	12 / 15 mm
동 세	■ 1- 최소 두께 (mm) - P = 설계압력 (MPaG) - R = 원형용량부의 부식후의 안지름 (mm) - a = 재료의 허용 안전장력 (N/mm²) - W = 감마선으로 용융조출 0.2 = 부식지수 (mm)		
(4)형			
제 호		STD304	
제 용 용량		20% = 114 N/mm	30.1 l/장
$I = \frac{P R W}{2 \pi a L (0.5 - 0.2 P)} + a = \frac{0.3 \times 2 \times 2850 \times 1.54}{1.0 - 0.2 \times 0.3} + 0.0$ $= 5.78 \text{ mm}$			
HEAD	최소 두께 : 5.78 mm	사용두께 :	10.44 mm (상하부) 12.00 mm (상하부)
입자상	■ 1- 최소 두께 - P = 설계압력 (MPaG) - R = 원형용량부의 부식후의 안지름 (mm) - a = 재료의 허용 안전장력 (N/mm²) - W = 감마선으로 용융조출 0.2 = 부식지수 (mm) - W = (1/d) × (3 / 100) × 0.5 = 1.54 0.2 = 부식후의 부식후의 안지름 (mm) $= 285$		
경 반			
(4)형			
(상 부)	$I = \frac{P R W}{2 \pi a L (0.5 - 0.2 P)} + a = \frac{0.3 \times 2 \times 114 \times 0.95}{1.0 - 0.2 \times 0.3} + 0.0$ $= 3.95 \text{ mm}$		
제 호		STD304	
제 용 용량		20% = 114 N/mm	31.3 l/장

[illegible]

抗震 / 抗风压计算

03 热计算

MAE 3020 PLANT ENGINEERING

HEAD THICKNESS UNDER INTERNAL PRESSURE

(18 MARKS)

1. DESIGN CONDITION

Pi = DESIGN PRESSURE	1	32.37	Bar
T = DESIGN TEMPERATURE	1	50.00	°C
Do = OUTSIDE DIAMETER	1	2754.00	mm
e = CORROSION ALLOWANCE	1	1.00	mm
η = JOINT EFFICIENCY OF HEAD	1	1.00	
bo = DESIGN COEFFICIENT GIVEN BY FIG. 1	1	2.02	
S = ALLOWABLE STRESS OF MATERIAL	1	192.5	N/mm ²

1.1 ALLOW STRESS FOR SHELL: P1.1 Ch.2 Sec.2 & 1.3.1

Mat = MATERIAL SPECIFICATION	1	SPV-315	
Rm = MIN TENSILE STRENGTH AT ROOM TEMP.	1	520.00	N/mm ²
RmT = CONVENTION 0.2% YIELD POINT AT ROOM TEMP	1	310.00	N/mm ²
σt = MIN (Rm/2 + Re/1.7)	1	192.5	N/mm ²

2. CALCULATION OF HEAD

1.1 MIN. REQUIRED THICK: η [P1.1 Ch.2 Sec.2 & D.4.5]

$$t = \frac{Do \times P_i \times bo}{4 \times \sigma_t \times \eta} = \epsilon \times \frac{2754.00 \times 32.37 \times 2.02}{40 \times 192.5 \times 1.00}$$

$$= 1.00 = 24.42 \text{ mm}$$

2.1 USED THICKNESS

$$Tb = 29.00 \text{ mm}$$

3.1 MIN TH. AFTER FORMING

$$Th = 24.7 \text{ mm}$$

4. DESIGN COEFFICIENT GIVEN BY FIG. 1.7.1

$$bo = 2.02 \text{ --- BY GRAPH}$$

$$fDi = 0.25 \quad \therefore fDi = 0.0105$$

INDUSTRIES & CONSTRUCTION CO., LTD.

04 有限元分析(FEA)

[illegible][illegible]

1. DESIGN CONDITION
 P : DESIGN PRESS. = 3.88 psi (0.27 kg/cm²)
 R : RADIUS OF SHELL = 49.2125 in (1250 mm)
 t : THICKNESS OF SHELL = 0.394 in (10 mm)
 I2 : CIRCUMFENTIAL SECONDARY TENSILE MOMENTS = 3,900 in³ (9,461.3 kg/cm²)
 F : DESIGN FACTOR = 30
 Ss : SECONDARY BOND STRENGTH IN SHEAR (MAX. 1000 psi) = 1000 psi (70 kg/cm²)

2. STRENGTH CALCULATION
 1) THICKNESS OF OVERLAY

$$t = \frac{P \{ R + Y \}}{0.001 \times I_2} = 0.15 \text{ in (3.76 mm)} \quad \text{USED } 30 \text{ mm}$$
 2) LENGTH OF OVERLAY

$$L_o = \frac{PR}{2.56 \times F} = 0.96 \text{ in (24.27 mm)} \quad \text{USED } 500 \text{ mm}$$

[illegible]

ANSYS 软件



韩国国内产品认证

Domestic Equipment Certification



01 韩国国内压力容器检验机构

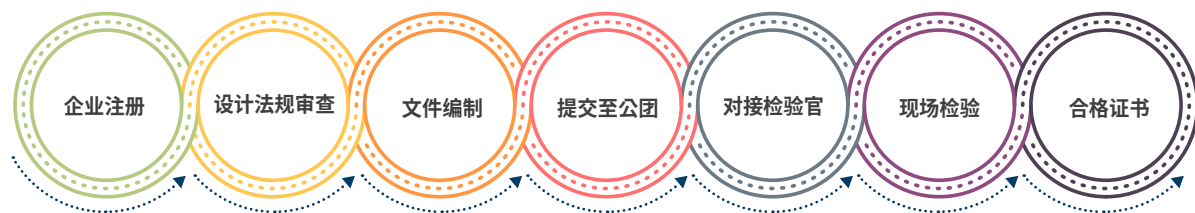
- 韩国能源公团 (KEA)
- 韩国产业安全保健公团 (KOSHA)
- 韩国燃气安全公社 (KGS)
- 韩国电气安全公社 (KESCO) (仅限于发电设备的压力容器)



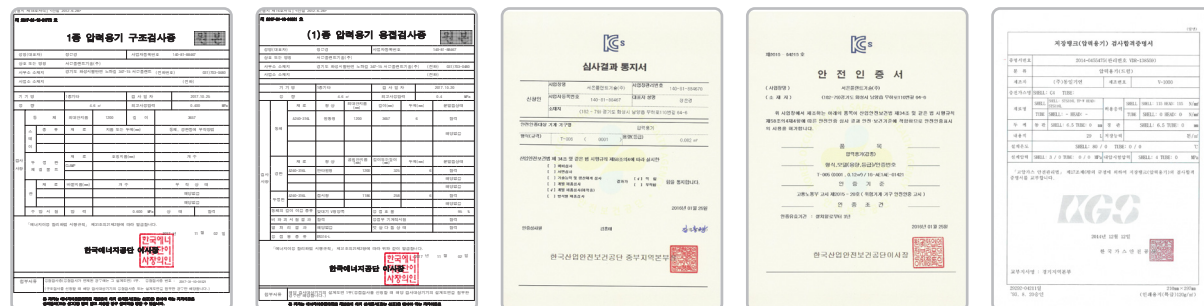
02 各主要机构检验对象标准

	韩国能源公团 (KEA)	韩国产业安全保健公团 (KOSHA)	韩国燃气安全公社 (KGS)
检验对象	第一类压力容器: 压力 × 容积 > 0.004, 且通过加热进行升温、产生蒸汽或使液体超过沸点 (超过大气压) 的容器。 第二类压力容器: 最高使用压力 (MPa) 超过 0.2 MPa, 并用于储存气体 (蒸汽) 的容器。	甲种压力容器: 用于化学工艺流程处理的容器。 乙种压力容器: 除甲种压力容器以外的其他容器 (如空气 / 氮气储罐等) 最高使用压力超过 0.2 MPa。	液化气体 — 0.2 MPa 以上 压缩气体 — 1 MPa 以上
检验标准	韩国产业通商资源部公告 或 KS B 6750 标准 / ASME Sec. VIII Div. 1	KS B KS B 6750-3 ASME SEC.VIII Div.1	KGS AC111 ASME SEC.VIII Div.1
检验流程	焊接检验 → 结构检验 → 安装检验	书面审查 → 单个产品审查 (材料 / 焊接 / 耐压)	设计审查 → 特定设备现场检验 (材料 / 装配 / 焊接 / 耐压)

03 检验产品认证流程



04 韩国各检验机构认证证书



进口设备认证

Certification of Imported Equipment



01 海外检验认证指南 (进口压力容器)

当计划将海外制造的压力容器进口至韩国时, 本公司可全程代理相关认证流程, 从是否属于检验对象的判定到最终取得认证证书的全过程服务。(申请 / 文件准备 / 海外现场检验 / 口译支持 / 技术培训 / 韩国境内安装等)

更多详细内容请参考本公司运营的官方博客: <http://blog.naver.com/septech>

	韩国能源公团 (KEA)	韩国产业安全保健公团 (KOSHA)	韩国燃气安全公社 (KGS)
检验对象	文件审核批准后, 实施海外制造现场检验	① 若已取得与公团签署 MOU 的国际认可机构认证, 可免除检验。 ② 与韩国国内检验程序相同, 在书面审查批准后进行海外制造现场检验。	① 若已取得与公团签署 MOU 的国际认可机构认证, 可免除检验。 ② 海外制造现场检验 + 韩国国内耐压检验。
检验流程	韩国产业通商资源部公告 或 KS B 6750 标准 / ASME Sec. VIII Div. 1	KS B 6750-3 ASME SEC.VIII Div.1	KGS AC111 ASME SEC.VIII Div.1
注意事项	当批量生产相同产品时, 通过工厂注册审查可适当简化检验程序。		制造特定设备必须取得特定设备制造许可。

02 受检产品认证流程



设备运抵韩国后, 提供安装检验、定期检验及继续使用检验支持。

韩国能源公团(KEA) 进口检验代理(压力容器)



01 KEA 检验概述

根据《能源利用合理化法》修订规定，自 2017 年 12 月 3 日起，对进口至韩国的检验对象设备，必须按照与韩国国内相同的标准，在制造厂家现场实施制造检验。

与其他国家的检验制度相比，KEA 进口压力容器检验具有较为特殊的特点。

特别是根据所使用材料的不同，适用的韩国国内标准也有所不同（详见下表）。

此外，海外制造商通常不了解韩国适用的技术标准和法规，因此在认证及设备制造过程中往往会遇到诸多困难。

为帮助客户解决上述问题，SEOEUN PLANT TECH Co., Ltd. 提供从检验对象判定到最终取得认证证书的全流程一站式技术服务与代理。



02 KEA 检验对象及设备类型

· 适用于石油化工、生物、医药、食品、能源、新材料、二次电池等领域中使用热媒进行高温、高压运行的压力容器设备（参见《能源利用合理化法施行规则》第31条之6）

· 检验设备类型

- 压力容器(Pressure Vessel)、换热器(Heat Exchanger)、反应器(Reactor)、高压釜(Autoclave)、灭菌器(Sterilizer)、杀菌釜(Retort)、搅拌机(Agitator)、萃取器(Extractor)、蒸发器(Evaporator)、染色机(Dyeing Machine)、生物类似物设备(Bio Similar)、生物反应器(Bio Reactor)、培养设备、发酵罐(Fermentor)、玻璃衬里容器(Glass Lined Vessel) 等

03 KEA 检验标准

区分	韩国工业标准 (KS)	韩国产业通商资源部公告 (MOTIE)
技术规范	KS B 6750 (=ASME Sec.VIII div.1)	产业通商资源部公告 第2024-184号
可用材质	仅限使用 KS 或 ASME 材质	KS材质或同等及以上材质 (JIS, EN, GB)
质量管理体系	要求建立文件化体系	无要求 (但需提供WPS)
试样试验	仅在特定条件下要求	针对筒体纵缝或环缝焊接部位有要求
认可自检	无损检测、机械性能测试等须由各国政府运营或认可的机构执行	

04 KEA 进口压力容器检验流程

1) 焊接检验 (第一阶段 ~ 第三阶段)



2) 结构检验 (第一阶段 ~ 第二阶段)



韩国能源公团(KEA)· 韩国产业安全保健公团(KOSHA)· 韩国燃气安全公社(KGS) 进口设备检验认证代理

01 SEOEUN PLANT TECH CO., LTD. 简介

SEOEUN PLANT TECH CO., LTD. 是一家专业提供海外压力容器出口韩国检验及认证服务的工程技术公司，主要协助办理 KEA、KOSHA 及 KGS 的相关认证。凭借40余年在工程技术领域积累的丰富经验，我们致力于为全球客户提供专业可靠的认证技术服务。我们为客户提供涵盖进口设备文件准备、图纸审核、检验及安装等全过程的一站式专业技术服务，协助客户顺利取得韩国认证。

02 SEOEUN PLANT TECH CO., LTD. 主要客户

对韩国出口设备的相关企业：项目业主（最终用户）、设备供应商（贸易公司）、海外设备制造商

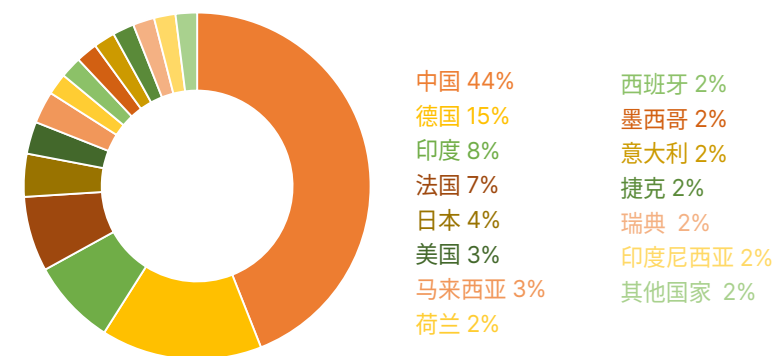
03 SEOEUN PLANT TECH CO., LTD. 业务范围：协助海外客户顺利取得韩国认证并进入韩国市场

1. 合同签署相关事项指导
2. 配合生产进度进行交货期管理
3. 组织 KEA、KOSHA、KGS 检验相关前期会议
4. 根据 KEA、KOSHA、KGS 的要求进行图纸审核及技术文件编制
5. 全权负责与 KEA、KOSHA、KGS 的沟通协调，直至资料审核通过
6. 全程陪同焊接检验及结构检验等现场检验工作
7. 货物运抵韩国后提供全程指导与协助，直至通过安装检验

04 SEOEUN PLANT TECH CO., LTD. 合作必要性

1. SEOEUN PLANT TECH CO., LTD. 凭借40余年的工程经验，以卓越的专业性为您提供咨询服务。
 2. SEOEUN PLANT TECH CO., LTD. 代客户直接管理 从文件、图纸、检验到韩国国内交付及安装完成的全部过程。
 3. SEOEUN PLANT TECH CO., LTD. 严格遵守生产及交付计划，确保项目顺利进行。
- 预计所需时间：文件审查约3周，检验批准约6周

05 SEOEUN PLANT TECH CO., LTD. 项目业绩



SEOEUN PLANT TECH CO., LTD.
自2017年12月3日开始进口容器检验以来，
已在全球约69个国家取得
2800余台以上压力容器检验认证。

06 SEOEUN PLANT TECH CO., LTD. 其他业务

- 韩国国内认证及海外进口认证：KEA / KOSHA / KGS / 船级认证(DNVGL、LR、ABS)
- 基本及详细图纸 / 强度计算 / 热计算 / FEA / 工艺设计 / P&ID / 抗震设计
- 中试装置 (PILOT PLANT) / 测试平台 (TEST BED) / 实验室规模 (LAB BENCH SCALE) / 管道 (PIPING)



船级社认证

Classification Equipment Certification

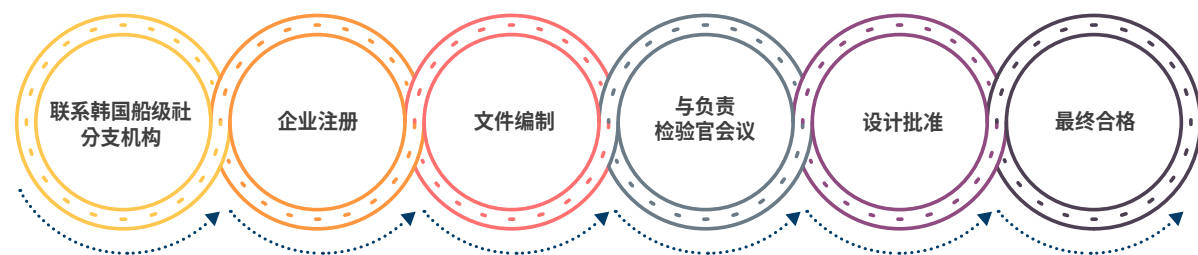


01 船级社检验机构

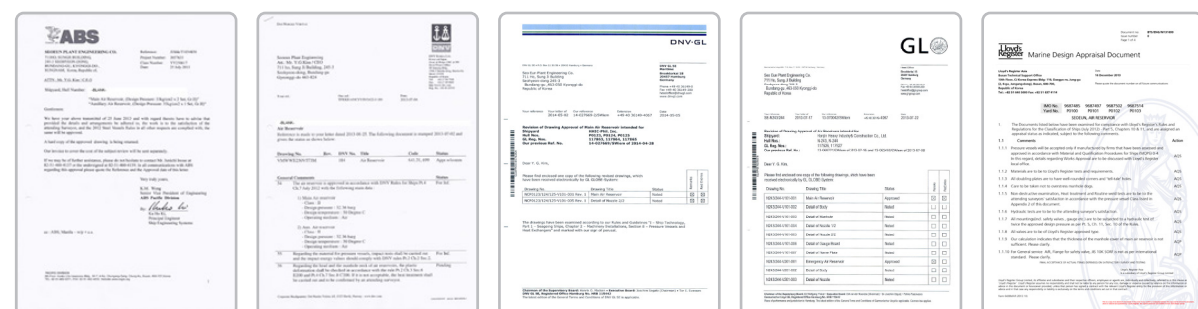
- KR (Korean Register of Shipping, 韩国船级社)
- ABS (American Bureau of Shipping, 美国船级社)
- DNV.GL (Det Norske Veritas&Germanischer Lloyd, 挪威船级社)
- LR (Lloyd's Register, 英国船级社)
- NK (Nippon Kaiji Kyokai, 日本船级社)
- RINA (Registro Italiano Navale, 意大利船级社)



02 检验设备认证流程



03 主要船级社认证证书示例



其他检验认证代理

Other Inspection & Certification Services



01 韩国能源公团 (KEA)

- 安装检验** 拟安装并使用受检设备者(依据《能源利用合理化法》第39条)
- 开放检验** 在首次安装检验后,每2年周期接受检验并继续使用设备的单位(依据《能源利用合理化法》第31条)
- 持续使用检验** 拟继续使用检验有效期届满的受检设备者(依据《能源利用合理化法》第31条第19项)
- 改造检验** 拟对受检设备进行改造并使用者(依据《能源利用合理化法》第39条)
- 安装地点变更检验** 拟变更需检验设备安装地点者(依据《能源利用合理化法》第39条)

02 韩国产业安全保健公团 (KOSHA)

- 安全检查(定期检查)** 对属于安全检验对象机械的设备实施安全检验(依据《产业安全保健法》第93条第1项)
- 自主安全确认申报** 对属于自主安全确认对象机械产品的设备进行确认申报(依据《产业安全保健法》第89条第1项)
- 有害危险预防计划书** 在产品生产工艺中直接使用的机械设备,以及为防止职业健康危害而使用的设备,或拟进行建设工程开工的情况(依据《产业安全保健法》第42条第1项)
- 工艺安全报告(PSM)** 当事业场所存在总统令规定的有害或危险设备时(依据《产业安全保健法》第44条第1项)
- 化学事故厂外影响评价书** 拟安装或运营有害化学物质处理设施的单位(依据《化学物质管理法》第23条)

03 韩国燃气安全公社 (KGS)

- 特定设备** 依据《高压气体安全管理法》第5条第1项
- 协助取得制造许可证**
- 协助海外企业办理工厂注册**

04 其他检验

- 防爆认证** IECEx / KC 等电气设备类产品

技术咨询 Consulting



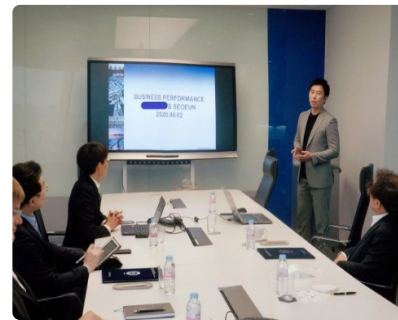
01 设计培训

- ① ASME CODE — 设计 / 制造培训
- ② KS CODE — 设计 / 制造培训
- ③ JIS CODE — 设计 / 制造培训
- ④ API 650 CODE — 设计 / 制造培训
- ⑤ 设计软件操作方法培训 — COMPRESS / MECAL 等

02 国内 / 进口检验流程培训

提供从检验开始到认证取得及后期维护的全流程培训 (设计 + 制造 + 检验准备)

- 对于韩国国内及进口压力容器, 可安排现场技术会议
- 检验培训对象一般包括以下人员:
 - ① 进口设备 (对韩出口设备) - 海外制造企业相关负责人
 - ② 韩国国内检验设备 - 制造企业相关负责人
 - ③ 设备使用单位 / 代理人 / 贸易公司



韩国能源公团 (KEA) 进口检验必须进行制造现场见证检验, 因此海外制造企业相关人员必须按照韩国相关规范进行对应与配合。

03 法规审查及报价支持

① 压力容器法规审查

- 判定压力容器是否属于检验对象 / 免检对象 / 第一类与第二类划分 / 甲种与乙种划分
- 我司通过准确的法规审查, 为您预先解决后期可能出现的问题。

② 压力容器检验机构适用优先顺序

- 各检验机构的优先级如下。若您的压力容器属于上位机构的检验对象, 根据以下依据, 必须在上位机构接受检验。
- 韩国燃气安全公社(KGS) > 韩国能源公团(KEA) > 韩国产业安全保健公团(KOSHA)

依据: 韩国产业安全保健公团(KOSHA) - [产业安全保健法施行规则 第58条之2]
韩国能源公团(KEA) - [能源利用合理化法施行规则 第1条之2]

③ 各种审批文件的编制

- 协助编制客户要求的各类审批文件 (JOB REQUIREMENT SPECIFICATIONS、WPS & PQR、INSPECTION & FABRICATION PROCEDURE、LOADING DATA 等)。

④ 报价支持业务

- 提供关于设计、认证、咨询等我司所提供业务的所有报价。

⑤ 各种审批文件的审核支持

- 可根据客户的要求规格书、设计规范及法律标准, 对供应商 (VENDOR) 提交的图纸、强度计算书、检验文件等各类资料进行审核。

04 制造支持

工程试验平台 Test bed



01 韩国唯一的测试平台(TEST BED)设计企业 — 将构想变为现实

工程试验平台 (Test Bed)

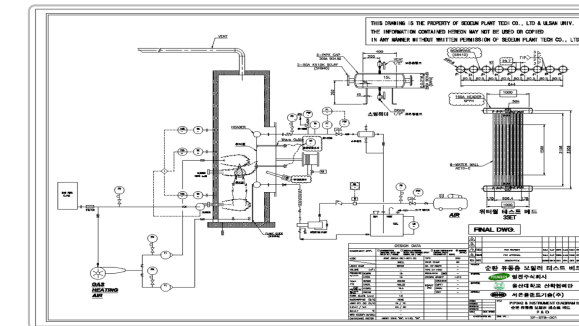
是指为企业、研究机构及大学所开发的各类新技术及原型产品, 提供用于测试其性能、效果、安全性、量产可行性及使用便利性的环境、空间、系统及设备 (设施), 并通过工程设计使其能够进行实际测试与验证。

本公司在工程试验平台 (Test Bed) 设计方面拥有丰富经验, 可为客户提供技术方案与创意建议, 帮助客户将构想实现并落地。

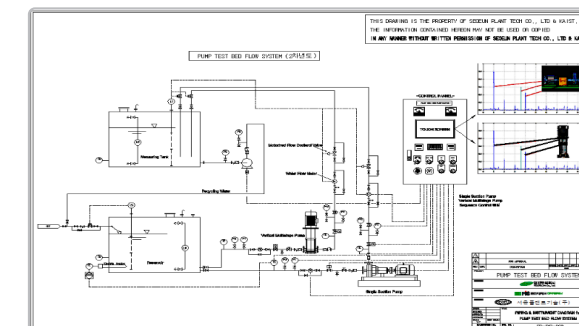
- 可执行进口产品国产化 (Localization Development) 及产品开发
- 可执行 LAB SCALE BENCH / R&D 研究课题 / 政府课题

02 工程试验平台业绩

项目名称	循环流化床锅炉试验平台
主要内容	循环流化床锅炉炉膛声发射故障预测诊断系统开发
客户名称	韩国能源技术评价院

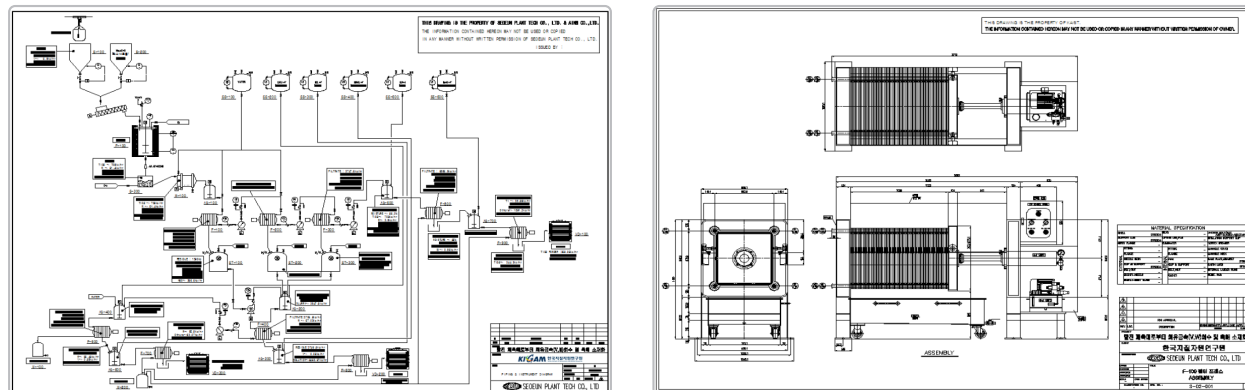


项目名称	核电旋转设备复合故障算法及数据库开发工程 (ENGINEERING)
主要内容	综合管道系统声发射故障预测与诊断系统研发
客户名称	韩国西部发电株式会社 (Korea Western Power Co.,Ltd.)

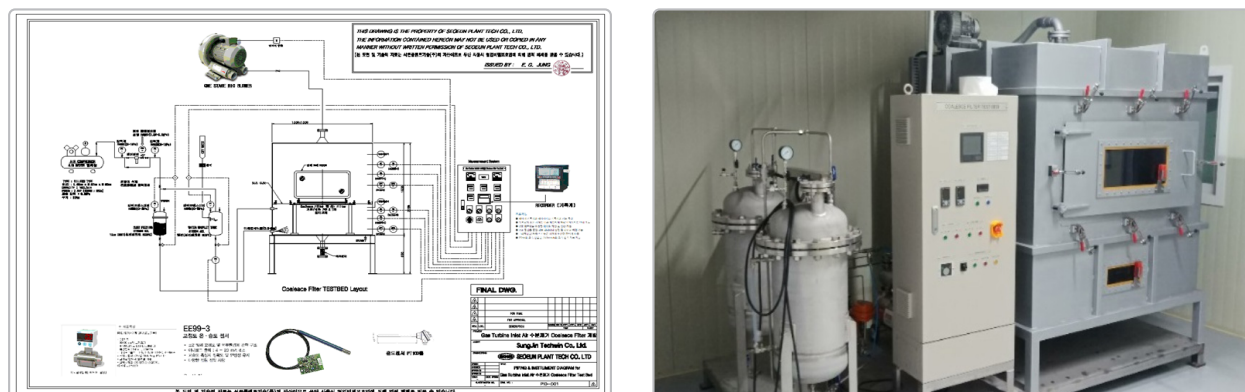


工程试验平台项目业绩

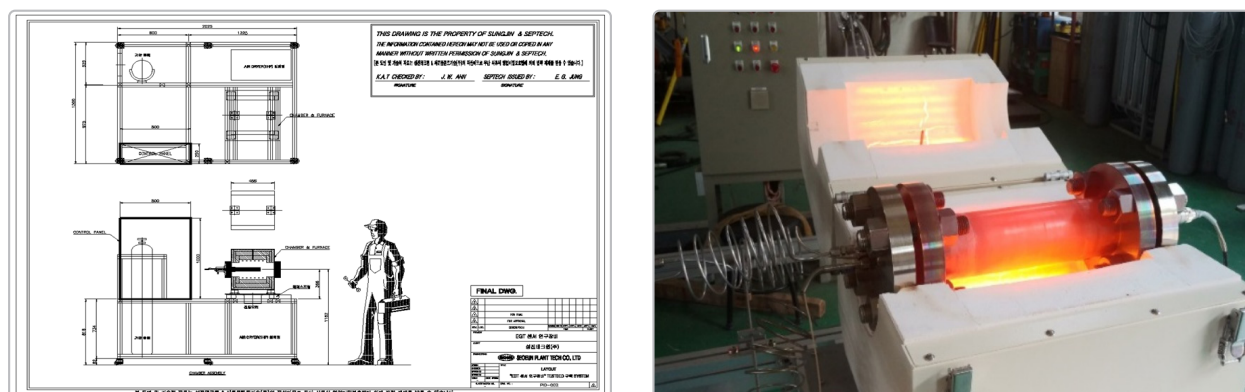
项目名称 用于验证汽车废催化剂电化学铂浸出技术的 Basic Engineering 设计
主要内容 汽车废催化剂电化学铂浸出技术验证
客户名称 韩国地质资源研究院



项目名称 燃气轮机进气空气水分去除 Coalesce Filter 开发
主要内容 针对电厂地理环境特点及频繁沙尘天气导致 Air Intake System内部水分与粉尘积聚加剧的测试
客户名称 韩国西部发电株式会社 (Korea Western Power Co.,Ltd. (WP))



项目名称 EGT 传感器可靠性试验平台 (TEST BED)构建
主要内容 开发安装在燃气轮机机壳 (Frame)上, 用于感知燃气温度, 并实时监测轮机燃烧状态, 旨在实现燃气轮机高效安全控制的温度传感器。
客户名称 韩国西部发电株式会社 (Korea Western Power Co.,Ltd.)



特殊制造项目 Special Manufacture Project



01 以世界领先的技术制造特殊设备

特殊制造项目 (Special Manufacture Project)

可制造高难度、高规格的设备 (如压力容器、换热器、塔器等), 并在石油化工、高纯度气体、精细化工、生物、PLANT 等领域, 能够全面完成工艺设计、P&ID 设计以及设备制造。同时, 公司还具备实施研究用 BATCH SYSTEM、PILOT PLANT、COMMERCIAL PLANT 等项目的能力。

02 特殊制造项目业绩

项目名称 SiCl_4 精制站系统 (STATION SYSTEM)
主要内容 本系统通过对原料 SiCl_4 中所含的金属杂质、气体杂质、水分及油分等进行精制处理, 用于生产高纯度 SiCl_4 。该 SiCl_4 精制方法采用蒸馏工艺, 可同时或连续去除 SiCl_4 中的杂质混合气体, 从而实现纯度达到 99.999995% 以上的高纯度 SiCl_4 精制装置。
客户名称 SOL MATERIALS CO., LTD.



项目名称 重质焦油销售设施
主要内容 建设商业化生产装置 (COMMERCIAL PLANT), 用于将现代制铁年度炼钢生产过程中产生的副产品——重质焦油进行独立销售。
客户名称 HYUNDAI STEEL CO., LTD.





企业主要业绩

Project Experience



01

产·学·研·政项目主要合作单位



海外

USA(ALBEMARLE CORP, ROSS EQUIP, LOST WAX, KNBS, MATHESON GAS, KBR, ENDORFF, etc.)
China(WUXI BIOLOGICS, ANHUI JINMA, DTS, JIBO TAIJI, TECH SOLUTION, INTERCONSTEK, SUNGIL HITEK, etc.)
Japan (HITACHI, TOYO ENG'G, CHISSO ENG'G, BASF, KOBELCO, TOYOBO, YAMAGEN, KAJIWARA, HOSOKAWA, etc.)
France(STERIFLOW, 3C FRANCE, PETRON BATTAN REFINERY, etc.) **India** BIOZEEN,
Germany (BOSCH, DFT, JANSSEN, THEMATEK, INTRON, etc.) **Saudi Arabia** SIPCHEM, S.O.C.
Qatar TASSNI **Oman** (OMAN OIL COMPANY E&P LLC, SALALAH METHANOL, etc.) **Belgium** SOLVAY

产业企业领域

SAMSUNG (Bioepis / Heavy Industries /Engineering / Biologics / Electronics),
POSCO(Holdings, Future-m, M-Tech), LG(Chem./Display/Energy SoluTion/ Electronics),
SK(Innovation /Chemical / Bio pharm / Bioscience), KAI, HANWHA(Tech/Solutions), HJ Shipbuilding & Construction,
DOOSAN, HANKOOK TIRE, DL E&C, FOOSUNG, HANSOL CHEMICAL, HUVIS, DUCKSAN, OCI, DOW CHEMICAL,
KUMHO P&B CHEMICALS, HANIL CEMENT, NAMHAE CHEM., HANMI PHARM., CHEMTROS, CELLTRION,
HANSOL CHEMICAL, SUNGSHIN CEMENT , SAMPYO CEMENT, KUMHO MITSUI CHEMICALS, HUCHEMS, GS BIO,
GS CALTEX, KCC SILICONE, LS CABLE & SYSTEM, HANSOL PAPER, GC BIOPHARM., KOREA UNITED PHARM.

高等院校

KAIST, AJOU UNIVERSITY, PUSAN NATIONAL UNIVERSITY, SEOUL NATIONAL UNIVERSITY, ULSAN UNIVERSITY,
JEONBUK NATIONAL UNIVERSITY, CHUNGNAM NATIONAL UNIVERSITY

科研机构

KARI, KIGAM, ADD(Engine test equipment), KIMM, NIER, KRIC, KETE, KAERI, KFE, KEPKO-ENC

政府及军方相关机构

MINISTRY OF NATIONAL DEFENSE, KORES, KORAIL, KT, CHANGWON CITY, DAEGU CITY,
BUSAN CITY, SEOUL CITY, HOII, KOEN, KOWEPO, KEWP, KHNP

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
BCC PROJECT	VESSEL	SSANGYONG OIL REFINERY	KOREA	1998
INCINERATOR SYSTEM	INCINERATOR	HANYANG CHEMICAL	KOREA	1998
E/O PURIFICATION PROJECT	TOWER	HYUNDAI PETROCHEMICAL	KOREA	1998
BTX PROJECT	VESSEL / H/EX.	JEONGWOO CHEMICAL	KOREA	1998
NCC PROJECT	H/EX.	NAMHAE CHEMICAL	KOREA	1998
JILIN CAK PROJECT	FLARE STACK	TOYO ENGINEERING	JAPAN	1998
COMPANY PARK BUILDING	TOTAL ENGINEERING	KYUNGHANG NEWSPAPER	KOREA	1998
TCL PROJECT	VESSEL / TOWER	TOYO ENGINEERING	JAPAN	1998
HSR PROJECT	VESSEL / REACTOR	HYUNDAI PETROCHEMICAL	KOREA	1998
FCC PROJECT	VESSEL(HIGH PRESSURE)	YUKONG	KOREA	1998
CUPOLA FLUE CLEANING SYSTEM	FILTER / H/EX. / DUCT STEEL S TRUCTURE / PIPING	BUEKSAN	KOREA	1998
RFCC F/G SOX SCRUBBER	STRUCTURE	SK CORPORATION	KOREA	1998
BIBA-1 PROJECT	VESSEL	BIBACO	KOREA	1998
SOLVENT RECOVERY SYSTEM	VESSEL	YOUL CHON CHEMICAL	KOREA	1998
OZONE TANK SYSTEM TANK & PIPING	TANK, PIPING	YOUL CHON CHEMICAL	KOREA	1998
SBR-9 PROJECT	C.R.T	KUMHO PETROCHEMICAL	KOREA	1999
TSING MA BRIDGE PROJECT	TOTAL	HONGKONG	HONGKONG	1999
UTILITY & FACILITY PROJECT	TOWER	DAELIM INDUSTRIAL	KOREA	1999
PTA PROJECT	VESSEL	SAMSUNG GENERAL CHEMICAL	KOREA	1999
LG 3AA PROJECT	C.R.T	LG ENGINEERING	KOREA	1999
PL/TCM PLANT PROJECT	TOTAL	HANBO IRON STEEL	KOREA	1999
FEB PROJECT	TOTAL	DONGYANG NYLON	KOREA	1999
YER-11 PROJECT	H/EX.	KUMHO PETROCHEMICAL	KOREA	1999
OXYGEN SUPPLY PLANT PROJECT	TOTAL	POSCO	KOREA	1999
SR PROJECT	C.R.T	LG ENGINEERING	KOREA	1999
HP24M PROJECT	VESSEL	OCI	KOREA	1999
CRT PROJECT	H/EX.	KOOKDO CHEMICAL	KOREA	1999
P PROJECT	TOWER / H/EX.	DCI / KT	KOREA	1999
40,000 MTY K-RESIN PROJECT	FILTER, H/EX.	DAELIM INDUSTRIAL	KOREA	1999
396,000 T/Y #3 SULFURIC ACID PLANT	BIG TOWER	NAMHAE CHEMICAL	KOREA	1999
FLARE STACK	TOTAL	LG CHEMICAL	KOREA	2000

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
YDR-4 PROJECT	REACTOR / TOWER / H/EX.	KKPC	CHINA	2000
VCM PROJECT	TOWER / H/EX.	HYUNDAI PETROCHEMICAL	KOREA	2000
PEB STRUCTURE	TOTAL	HANKOOK TIRE	KOREA	2000
KEROSENE/ DIESEL PROJECT	STRUCTURE / H/EX.	LG CALTEX OIL	KOREA	2000
NO.2 UTILITY OFF-SITE PROJECT	VESSEL / C.R.T	SAMSUNG GENERAL CHEMICAL	KOREA	2000
CDP-1 PROJECT	TOTAL	SK NJC	KOREA	2000
NO.2 PP PROJECT	VESSEL / H/EX.	PEMEX	KOREA	2000
HEAVY NAPHTHA SPLITTER UNIT	TOTAL	SAMSUNG GENERAL CHEMICAL	KOREA	2000
P PROJECT	TOWER / H/EX.	KT	KOREA	2000
AGC AVL PROJECT	VESSEL / H/EX.	CHISSO ENGINEERING	JAPAN	2000
GWANGJU 2ND FACTORY	TOTAL	SAMSUNG ELECTRONICS	KOREA	2000
HYDROGEN PLANT	VESSEL	FPC	KOREA	2000
FLARE STACK SYSTEM	FLARE STACK	PE CHEMICAL	TAIPEI	2001
CHEONGJU NO.5 PLANT	VESSEL	DAESUNG SAN SO	KOREA	2001
PET OFF GAS SCRUBBING SYSTEM	TOWER	SAMNAM	KOREA	2001
AGC AVL PROJECT	VESSEL / H/EX.	CHISSO ENGINEERING	KOREA	2001
NEW TDI PROJECT	VESSEL / H/EX.	BASF	JAPAN	2001
NEW HYVAHL COMPLEX PROJECT	H/EX.	S-OIL	KOREA	2001
VOC SYSTEM	VESSEL	BASF	KOREA	2001
YM-2 PROJECT	H/EX.	LG	KOREA	2001
KA1, K2, K4 PROJECT	VESSEL / H/EX.	CHEIL ENGINEERING	KOREA	2001
SGC AROMATICS REVAMPING	H/EX.	SAMSUNG ENGINEERING	KOREA	2001
TORAY OCP-3 PROJECT	VESSEL H/EX.	TEK KOREA	KOREA	2001
EXPANSION PROJECT 2002	VESSEL / H/EX.	LG NIKKO COPPER	KOREA	2002
NYLON POWDER 50 MTPY PLANT	VESSEL / H/EX.	SHINHO PETROCHEMICAL	KOREA	2002
WORK TANK FABRICATION	VESSEL	DAEWOO ELEC.	KOREA	2002
VITAMIN PRODUCTION PROJECT	VESSEL / H/EX./ C.R.T	BASF	KOREA	2002
GWANGMYEONG DISTRICT HEATING	HEATER(TWO ZONE)	LG POWER	KOREA	2002
HP-SCWO PILOT PROJECT	VESSEL	KOREA PETROCHEMICAL.	KOREA	2002
PL/TCM PROJECT	H/EX.	DONGBU STEEL	KOREA	2002
BAIONGAN BLUE SKY PROJECT	VESSEL	HITACHI	KOREA	2002

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
S-PROJECT	VESSEL / H/EX.	KCC	KOREA	2002
WATER JET PROJECT	SPECIAL SYSTEM	MINISTRY OF NATIONAL DEFENSE (국방부)	KOREA	2002
FPCC ARDS-I I PROJECT	VESSEL	FORMOSA	TAIWAN	2003
SK 2nd LBO PROJECT	TOTAL	SK CHEMICAL	KOREA	2003
CHANGWON CITY HALL	TOTAL	GOVERNMENT	KOREA	2003
AIR FIN COOLER	COOLER	HYUNDAI OIL	KOREA	2003
BP SHAH DENIZ PROJECT	VESSEL	SOC	SAUDI ARABIA	2003
SK 2nd LBO PROJECT	TOTAL	SK CHEMICAL	KOREA	2004
CHANGWON CITY HALL	TOTAL	GOVERNMENT	KOREA	2004
HANWHA VENT CONDENSER	H/EX.	HANHWA	KOREA	2004
DONGBU H/EX.	H/EX.	DONGBU	KOREA	2004
KANGMYUNG LOCAL HEATING	H/EX.(TWO ZONE)	LG CONS.	KOREA	2004
AN WASTE WATER T-N TREATMENT SYSTEM	TOTAL	TAEKWANG PETRO.	KOREA	2004
J-PROJECT	REACTOR / STORAGE TANK	JOHN ZINK	THAILAND	2004
5th GAS SEPARATION PLANT PROJECT	VESSEL	HITACHI	JAPAN	2004
M-PROJECT	REACTOR	HANMAEK IND.	MYANMAR	2004
FLARE STACK	FLARE STACK	HAMWORTHY	INDONESIA	2004
SUCTION HEATER OF FUEL OIL	STORAGE TANK	KOREA WESTERN POWER (한국서부발전)	KOREA	2004
CURING OVEN INCINERATOR	H/EX.	BUEKSAN	KOREA	2004
N-PROJECT	REACTOR / VESSEL	HYOSUNG CORP.	KOREA	2004
LOTTE SAMGANG CHON-AN FACTORY	VESSEL	DOOSAN MECHATEC	KOREA	2004
VENT CONDENSOR & H/EX.	H/EX.	DONG YANG CHEMICAL	KOREA	2004
SK COPORATION	STRUCTURE	DOOSAN MECHATEC	KOREA	2005
SOLVENT RECOVERY SYSTEM	TOTAL	SAMKUN E&C	KOREA	2005
OZONE TANK	PIPING / STRUCTURE	YOUL CHON CHEMICAL	KOREA	2005
YM-2 PROJECT	H/EX.	LG	KOREA	2005
KA1, K2, K4 PROJECT	TOTAL	CHEIL ENGINEERING	KOREA	2005
EXPANSION PROJECT 2002	VESSEL / H/EX.	LG NIKKO COPPER	KOREA	2005
WORK TANK FABRICATION	TOWER / VESSEL	DAEWOO ELEC.	KOREA	2005
VITAMIN B2 PRODUCTION PROJECT	VESSEL / C.R.T / H/EX.	BASF	KOREA	2005
GWANGMYEONG DISTRICT	H/EX.(TWO ZONE)	LG POWER	KOREA	2005

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
DONGBU H/EX.	H/EX.	DONGBU	KOREA	2005
AN WASTE WATER T-N TREATMENT SYSTEM	TOTAL	TAEKWANG PETRO.	KOREA	2005
FLARE STACK	FLARE STACK	JOHN ZINK	THAILAND	2005
5th GAS SEPARATION PLANT PROJECT	VESSEL	HITACHI	JAPAN	2005
M-PROJECT	REACTOR	HANMAEK IND.	MYANMAR	2005
FLARE STACK	FLARE STACK	HAMWORTHY	INDONESIA	2005
SUCTION HEATER OF FUEL OIL	STORAGE TANK	KOREA WESTERN POWER (한국서부발전)	KOREA	2005
N-PROJECT	REACTOR / VESSEL	HYOSUNG CORP.	KOREA	2005
N-PROJECT	ENG'G DWG.	HYOSUNG	KOREA	2006
PLASMA PILOT PLANT	VESSEL	KGC	KOREA	2006
PIT VESSEL	TOTAL	SEC	KOREA	2006
POHANG H2 PROJECT	VESSEL	BOCK	KOREA	2006
PILOT PLANT	H/EX.	JEIO	KOREA	2006
WTP 1st LINE TRANSFER PROJECT	PIPING / STRUCTURE / TOTAL EQUIPMENT	KAI	KOREA	2006
FORMOSA NINGBO	FILTER	FORMOSA	TAIWAN	2006
JEBEL ALI POWER PHASE 2	FILTER	HEC	KOREA	2006
INITIAL Z	VESSEL / H/EX.	SAN NOPCO	KOREA	2006
BD PROJECT	VESSEL / C.R.T	DANSUK	KOREA	2006
DUNG QUAT REFINERY PROJECT	STORAGE TANK	PETROVIETNAM	VIETNAM	2006
P2-PROJECT	VESSEL	SAMSUNG TOTAL PETROCHEMICALS	KOREA	2006
A-PROJECT	VESSEL / H/EX.	SK CHEMICAL	KOREA	2006
MODACRYL RESIN 800L PILOT PLANT	VESSEL	HANWHA CHEMICAL	KOREA	2006
SKICO REVAMP PROJECT	H/EX.	SK INCHEON OIL	KOREA	2006
CELLTRION EXPANSION PROJECT	VESSEL	CELLTRION	KOREA	2006
WTP 2nd LINE TRANSFER PROJECT	PIPING / STRUCTURE / TOTAL EQUIPMENT	KAI	KOREA	2006
HP-ECH PILOT	VESSEL / H/EX.	HANWHA CHEMICAL	KOREA	2006
P2 PROJECT	ENG'G DWG. TOTAL EQUIPMENT	OCI	KOREA	2007
HP-ECH PILOT	TOWER / VESSEL	HANWHA CHEMICAL	KOREA	2007
45m3 REACTOR	REACTOR	KOBELCO	JAPAN	2007
KPPR-PROJECT	REACTOR / VESSEL	KUMHO P&B CHEMICAL	KOREA	2007
P PILOT PROJECT	SPECIAL REACTOR	KCC	KOREA	2007

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
DISTILLATION UNIT SYSTEM	TOTAL EQUIPMENT	KAYA ENERGY	KOREA	2007
B-1 PROJECT	TOWER / VESSEL / H/EX.	BIZEL CORPORATION	KOREA	2007
ACP PLANT PROJECT	VESSEL / C.R.T	ECOPRO	KOREA	2007
BPA(III) PLANT PROJECT	VESSEL	KUMHO P&B CHEMICAL	KOREA	2007
MIBK PLANT REVAMP PROJECT	TOWER	KUMHO P&B CHEMICAL	KOREA	2007
FUMED SILICA PROJECT	TOWER	KCC	KOREA	2007
KFCT PROJECT	C.R.T	OCI	KOREA	2007
GLOW 115MW CFB3 PROJECT	SPECIAL VESSEL	GLOW ENERGY PUBLIC	KOREA	2007
ARQ PROJECT	ENG'G DWG. TOTAL EQUIPMENT	TASSNI	QATAR	2008
HMC PP PROJECT LINE-3	VESSEL	HMC POLYMERS	KOREA	2008
40m3 REACTOR	SPECIAL REACTOR	KOBELCO	JAPAN	2008
RUSSIA PROJECT	REACTOR	SAMHWA MIXING TECH	RUSSIA	2008
THAILAND ASR PROJECT	REACTOR / VESSEL / H / EX.	HANWHA CHEMICAL THAILAND	THAILAND	2008
P2 PROJECT	TOWER / VESSEL / H/EX.	OCI	KOREA	2008
SALALAH METHANOL PROJECT	H/EX.	SALALAH METHANOL	OMAN	2008
P3 PROJECT	ENG'G DWG.	OCI	KOREA	2008
CNP PROJECT	TOWER / VESSEL / C.R.T	HANWHA TECH	CHINA	2008
CNP PROJECT	VESSEL	HANWHA CHEMICAL	CHINA	2009
P3.5 PROJECT	VESSEL	OCI	KOREA	2009
OSAN STEAM SUPPLY GENERATION	H/EX. (TWO ZONE)	KOSEP	KOREA	2009
DINH VU POLYESTER PLANT PROJECT	VESSEL	PV-TEX	VIETNAM	2009
HP-2 PROJECT	TOWER / REACTOR	HANSOL CHEMICAL	KOREA	2009
NO.4 DNT PROJECT	VESSEL / H/EX.	HUCHEMS	KOREA	2009
ADD ENGINE TEST FACILITY PROJECT	TOTAL	AGENCY FOR DEFENSE DEVELOPMENT	KOREA	2009
PAPER WASTE INCINERATION	INCINERATOR	HYOSUNG EBARA ENGINEERING	INDONESIA	2009
YEO SU THERMAL POWER PLANT UNIT 2	SILO	KOSEP	KOREA	2009
MAIN, AUXILIARY FUEL HEATER	TOTAL	AGENCY FOR DEFENSE DEVELOPMENT	KOREA	2010
GYPSUM WATER 2ND SLUDGE PROCESS	TOTAL	NAMHAE CHEMICAL	KOREA	2010
OCIMC PROJECT	ENG'G DWG.	OCI	KOREA	2010
P3.7 PROJECT	TOTAL EQUIPMENT	OCI	KOREA	2010
EA PROJECT	TOTAL EQUIPMENT	SIPCHEM	SAUDI ARABIA	2010

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
NEOTECHS ROTARY PRESSURE FILTER	TOTAL	SK PETROCHEMICAL	KOREA	2010
CAPE PROJECT	C.R.T	KPX LIFE SCIENCE	KOREA	2010
CA2 PROJECT	VESSEL	OCI	KOREA	2010
AUTO CRAVE PROJECT	VESSEL	ROULUNDS RUBBER	DENMARK	2010
2x60MW MERAK CFPP PROJECT	SILO	PT. MERAK ENERGI INDONESIA	INDONESIA	2010
NO.4 DNT PROJECT	ENG'G DWG.	HUCHEMS	KOREA	2010
P4-PROJECT (18000 TON)	TOTAL	OCI	KOREA	2011
EAGLE PROJECT	REACTOR / VESSEL / H / EX.	HANWHA CHEMICAL	KOREA	2011
C.R.T (2000 M3)	C.R.T	SKC	KOREA	2011
SPC ULSAN NO.1 PTA DBN PROJECT	TOTAL	SAMSUNG TOTAL	KOREA	2011
NORTH STAR PROJECT (1200 M3)	D.R.T	THE DOW CHEMICAL COMPANY	KOREA	2011
A/R PILOT PROJECT	TOTAL	JEONBUK UNIVERSITY	KOREA	2011
NO.1 TAC PROJECT	H/EX.	SK INNOVATION	KOREA	2011
1000 MT/y K-991 3RD PLANT	TOWER / VESSEL / H/EX.	FOOSUNG CO., LTD.	KOREA	2011
GARNET BLASTING MACHINE	VESSEL	SAMSUNG HEAVY INDUSTRY	KOREA	2011
KPA(III) REVAMP PROJECT	TOWER	KUMHO P&B CHEMICAL	KOREA	2011
EDISON PROJECT	REACTOR	SAMSUNG BIOLOGICS	KOREA	2011
SMVR-01 PROJECT	TOTAL	SK PETROCHEMICAL	KOREA	2011
#2 BTX-PROJECT	VESSEL	HC PETROCHEM	KOREA	2011
NaOH CONCENTRATION	TOTAL	PKC CHEMICAL & BIOTECH	KOREA	2011
EA PROJECT	ENG'G DWG.	SIPCHEM	SOUDI	2011
CIVP PROJECT	REACTOR	HITACH PLANT TECHNOLOGIES	JAPAN	2011
3PZ-PROJECT	REACTOR	HONAM MITSUI CHEMICALS INC	KOREA	2011
EVALUATION REACTOR	PILOT PLANT SYSTEM	HANWHA	KOREA	2011
SOUTH PARS GAS FIELDDEVELOPMENT	PIPING	NIOC PARS OIL AND GAS CO.,LTD.	IRAN	2011
#2 BTX PROJECT	STRAINER	HC PETROCHEM	KOREA	2012
YDR-S-1 SSBR PROJECT	H/EX.	DAELIM INDUSTRIAL CO.,LTD.	KOREA	2012
NO.2 SPENT CAUSTIC INCINERATOR SYSTEM	INCINERATOR / VESSEL / H/EX / STACK	GS CALTEX CORPORATION	KOREA	2012
30,000 MTPA AC/ ECH PLANT	TOWER / VESSEL	SAMSUNG FINE CHEMICALS CO.,LTD.	KOREA	2012
REACTOR PROJECT	REACTOR	TOYOBO CO., LTD.	JAPAN	2012
MUSANDAM GAS PLANT	VESSEL / FILTER	OMAN OIL COMPANY	OMAN	2012

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
DONGHAE BIOMASS POWER PLANT	SILO	KOREA EAST-WEST POWER	KOREA	2012
REFINERY MASTER PLAN 2 PROJECT	VESSEL	PETRON BATAAN REFINERY	FRANCE	2012
P3.9 PROJECT	VESSEL	OCI	KOREA	2012
PURE GROWTH PROJECT	ENG'G DWG.	ALBEMARLE CORPORATION	U.S.A	2012
CF DRYER PROJECT	VESSEL	YOUGUANG CHEMICAL CO.,LTD.	KOREA	2012
HIB 1000L PROJECT	VESSEL	LG LIFE SCIENCES CO.,LTD.	KOREA	2012
TOTE TANK PROJECT	VESSEL	BOKWANG CO.,LTD.	KOREA	2012
EDISON II PROJECT	REACTOR / VESSEL	SAMSUNG BIOLOGICS	KOREA	2013
LP-1 PPB EXTENSION PROJECT	REACTOR / VESSEL	HANWHA CHEMICAL	KOREA	2013
TRIM HEATER PROJECT	H/EX.	DAELIM INDUSTRIAL CO.,LTD.	KOREA	2013
P0093s&P0095 PROJECT (ABS & G.L)	AIR RESERVOIR	HANJIN HEAVY IND.&CON.	PHIL- SUBIC	2013
OLE-SIV BENCH SCALE PROJECT	REACTOR / VESSEL	SK INNOVATION	KOREA	2013
RESIN REACTOR SYSTEMPROJECT	REACTOR / VESSEL / H/EX.	FTC KOREA CO.,LTD.	KOREA	2013
HYDROMETALLURGY PILOT PLANT	ENG'G DWG.	KORES	KOREA	2013
400 BAR TEST BENCH PROJECT	VESSEL (HIGH PRESSURE)	SVC	KOREA	2013
SEWAGE TREATMENT EQUIPMENT	VESSEL / H/EX.	BUSAN PORT AUTHORITY	KOREA	2013
AUTO CLAVE PROJECT	AUTO CLAVE	Hosiden Vietnam (Bac Giang) Co.,Ltd.	VIETNAM	2013
NCP0104-0119 PROJECT (DNV)	AIR RESERVOIR	HANJIN HEAVY IND.&CON.	PHIL- SUBIC	2013
CFRTPC PROJECT	REACTOR / VESSEL	HANWAH L&C	KOREA	2013
DEG DRYING FACILITY PROJECT	TOTAL	YOUKWANG CHEMICAL CO.,LTD.	KOREA	2013
WARA PRESSURE MAINTENANCE	STRUCTURE	KUWAIT OIL COMPANY (K.S.C.)	KUWAIT	2013
GMP PROJECT	REACTOR / VESSEL / H/EX.	NATURALENDO TECH CO.,LTD.	KOREA	2013
S721s PROJECT (DNV)	AIR RESERVOIR	HYUNDAI SAMHO	KOREA	2013
SLUDGE RECOVER PROJECT	STORAGE TANK / RECTOR	NAMHAE CHEMICAL CO.,LTD.	KOREA	2013
VACUUM DEFOAMER PROJECT	REACTOR / VESSEL	KISCO	KOREA	2013
NCP0123s PROJECT (G.L & RINA)	AIR RESERVOIR	HANJIN HEAVY IND.&CON.	PHIL- SUBIC	2013
DUST COLLECTOR PROJECT	VESSEL	KORAIL	KOREA	2014
RESIN PROJECT	VESSEL	SAMSUNG TOTAL	KOREA	2014
SLP CCGT Power Plant PROJECT	VESSEL / FRP VESSEL	SAMSUNG ENGINEERING	KOREA	2014
NCP0113 PROJECT	AIR RESERVOIR	HANJIN HEAVY IND.	PHIL- SUBIC	2014
WATER HEATING SYSTEM PROJECT	REACTOR / H/EX.	HANSEO CHEMICAL	KOREA	2014

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
YANBU POWER AND DESALINATION PLANT	SILO / STRUCTURE	SALINE WATER CONVERSION CORP.	SAUDI	2014
NTP0137s PROJECT (DNV)	AIR RESERVOIR	HANJIN HEAVY IND.	PHIL-SUBIC	2014
Premixing PROJECTT	VESSEL	OCI Special CO.,LTD.	KOREA	2014
PURIFICATION COLUMN PROJECT	TOWER / REACTOR	SOULBRAIN Co.,Ltd.	KOREA	2014
BCCM PLANT PROJECT	VESSEL	SEAH BESTEEL	KOREA	2014
FIXED BED REACTOR SYSTEM	VESSEL (HIGH PRESSURE)	DAELIM IND. CO.,LTD.	KOREA	2014
MPPU PROJECT	STACK / HEATER	STYROLUTION	THAILAND	2014
A1 PROJECT	FILTER	KPX Green Chemical	KOREA	2014
WASTEWATER TREATMENT DRYING	DRYER	CHEON-IL CHEMICAL	KOREA	2015
SUPERCONDUCTING FAULT CURRENT LIMITER	VESSEL	KIMM	KOREA	2015
BIOGAS ENERGY PROJECT	VESSEL	UIJEONGBU CITY	KOREA	2015
STEAM GENERATOR PROJECT	HEATER	KEPCO ENG	KOREA	2015
J-N20 PLANT EXPANSION PROJECT	TOTAL EQUIPMENT	WONIK MATERIALS	KOREA	2015
SRF LN2 SEPARATOR PROJECT	VESSEL (HIGH PRESSURE)	NIER	KOREA	2015
LP&HP HEATER	HEATER	BESAT POWER PLANT	KOREA	2015
SUNNY PROJECT	DRYER	SOLVAY	KOREA	2015
RO-COMP. CALORIMETER PROJECT	VESSEL	SAMSUNG	KOREA	2015
BAS-514H PROJECT	H/EX.	OCI	KOREA	2015
A PROJECT	REACTOR / VESSEL	ROSS EQUIP.	USA	2015
REACTOR PROJECT	REACTOR	HANSEO CHEM.	KOREA	2015
FFC MIXING SYSTEM PROJECT	VESSEL	DOOSAN	KOREA	2015
DANYANG PLANT PROJECT	VESSEL	HANIL CEMENT CO.,LTD.	KOREA	2016
UK3 PROJECT	BIO REACTOR	HITACHI	JAPAN	2016
EDISON III PROJECT	BIO REACTOR	SAMSUNG BIOLOGICS	KOREA	2016
CP-2 LM-V PROJECT	C.R.T	HUVIS	KOREA	2016
TOTAL PIPING SYSTEM	PIPING	KGS	KOREA	2016
REACTOR PROJECT	REACTOR	HANSEO CHEM.	KOREA	2016
LN2 SEPARATOR PROJECT	VESSEL (HIGH PRESSURE)	NIER	KOREA	2016
FILTER HOUSING PROJECT	FILTER	ELCOM KOREA LIMITED	KOREA	2016
EDISON III PROJECT	BIO REACTOR	SAMSUNG BIOLOGICS	KOREA	2016
S PROJECT	VESSEL / C.R.T / H/EX.	WONIK MATERIALS	KOREA	2016

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
E PROJECT	REACTOR / TOWER / VESSEL	DAELIM	KOREA	2016
100,000 MTY PB2 PLANT	REACTOR	DAELIM	KOREA	2016
HANMI BIOPLANT PROJECT	BIO REACTOR	HANMI PHARM CO.,LTD.	KOREA	2016
UK3 PROJECT	BIO REACTOR	HITACHI	JAPAN	2016
50L PURIFICATION SYSTEM	TOTAL	HANSOL CHEMICAL	KOREA	2016
C-PURIFICATION SYSTEM	VESSEL / HEX.	DUKSAN UMT	KOREA	2016
HCDS SYNTHESIZER SYSTEM	VESSEL	DUKSAN UMT	KOREA	2016
HIGH EFFICIENCY CYCLONE SEPARATOR	VESSEL	HANWHA	KOREA	2016
YEOJU PLANT	AIR HEADER	HANIL CEMENT CO.,LTD.	KOREA	2016
DREAM PROJECT	BIO REACTOR	POLUS	KOREA	2017
RO-COMP. CALORI JECTION	VESSEL	SAMSUNG	KOREA	2017
SHIN-KORI NUCLEAR POWER PLANT	VESSEL / TANK	"KHNP (한국수력원자력)"	KOREA	2017
J-N20 1800MTPY EXPANSION	H/EX.	WONIK MATERIALS	KOREA	2017
CIRCULATING POWER GENERATION	TEST BED	ULSAN UNIVERSITY	KOREA	2017
FLUID REACTOR	TEST BED	KAIST	KOREA	2017
RESIDUE UPGRADING COMPLEX	VESSEL / TANK	S-OIL	KOREA	2017
BIO PLANT NO.2 FACTORY	BIO REACTOR	HANMI PHARM	KOREA	2017
STERILIZED INCUBATOR	BIO REACTOR	CHUNGCHEONGBUK-DO.	KOREA	2017
NTS PROJECT	VESSEL	KUKDO CHEMICAL	KOREA	2017
PRESSURIZATION CHAMBER	TEST BED	SAMSUNG	KOREA	2017
BIO KOMBINAT	REACTOR / H/EX.	GS CALTEX	KOREA	2017
PHEONIX	BIO REACTOR	CELLTRION	KOREA	2017
SPENT CATALYST RARE METAL RECOVERY	PILOT PLANT	KIGAM (한국지질자원연구소)	KOREA	2018
KORENO KT-Z PROJECT	REACTOR / H/EX.	KRICT (한국화학연구원)	KOREA	2018
HASTELLOY REACTOR /H/EX.	REACTOR / H/EX.	CHEMTROS	KOREA	2018
IMPORT OOMMODITY(BIO)	REACTOR	BIOZEEN	INDIA	2018
HCDS EP FACILITIES PROJECT	VESSEL / SYSTEM	DS TECHOPIA	KOREA	2018
DK-PROJECT	REACTOR / H/EX.	DK PHARM	KOREA	2018
PURIFICATION SYSTEM	VESSEL / PIPING	DUKSAN UMT	KOREA	2018
GAS PURIFIER	VESSEL	LEADERS & GLOBAL	KOREA	2018
PILOT YSTEM	TOTAL	WONIK MATERIALS	KOREA	2018

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
T-PROJECT	REACTOR / H/EX.	CERES R&D	KOREA	2019
NCK B2 PROJECT	VESSEL	NCK	KOREA	2019
ACTIVATED CARBON 20L REACTOR SYSTEM	REACTOR	HI AIR KOREA	KOREA	2019
MONOMER REACTOR SYSTEM	REACTOR	HANSOL	KOREA	2019
REACTOR 12m SYSTEM	REACTOR / H/EX.	SHINSUNG MATERIALS	KOREA	2019
NITROGEN GENERATOR INSTALLATION	VESSEL	HYUNDAI MOTOR UIWANG R&D CENTER	KOREA	2019
PYEONGTAEK RESIN PLANT PHASE 2	VESSEL	JEVISCO	KOREA	2019
PURIFICATION VESSEL	VESSEL	3C FRANCE	FRANCE	2019
RETORT SYSTEM	AUTOCLAVE	CST	CHINA	2019
REACTOR SYSTEM	REACTORS & HEAT EXCHANGER	DAEDAL	CHINA	2019
FERMENTAL SYSTEM	FERMENTAL VESSEL	SATORIOUS	GERMANY	2019
FERMENTAL SYSTEM	FERMENTAL VESSEL	SATORIOUS	INDIA	2019
CIP PROCESS	HEAT EXCHANGERS	BOSH	GERMANY	2019
DRYER SYSTEM	DRYER	HAKO PLAN	JAPAN	2019
REACTOR SYSTEM	REACTORS	HITACHI	JAPAN	2019
RETORT SYSTEM	AUTOCLAVE	DFT	GERMANY	2019
RETORT SYSTEM	AUTOCLAVE	STERIFLOW	FRANCE	2019
BIO PROCESS	CLEAN VESSEL	M-PRO TECH	FRANCE	2019
REACTOR SYSTEM	REACTORS & HEAT EXCHANGER	JINHEUNG	CHINA	2019
AUTO CLAVE	AUTO CLAVE	THEMATEC	JAPAN	2019
CIP PROCESS	HEAT EXCHANGERS	TECH SOLUTION	CHINA	2019
FOOD SYSTEM	PEELER	JUNGWOO	NETHERLAND	2019
HEAT PROCESS	HEAT EXCHANGER	VEOLIA	ITALIA	2019
DRYER SYSTEM	DRYER MACHINE	GEM-BIO	JAPAN	2019
PHC1 PROJECT	SILO	HUVIS	KOREA	2019
REACTOR SYSTEM	REACTORS & HEAT EXCHANGER	DOOYOUNG	CHINA	2019
IN-PROJECT	AUTO CLAVE	INTERCONSTEC	JAPAN	2019
CIP PROCESS	HEAT EXCHANGER	EKL	FRANCE	2019
EGT SENSOR TEST BED	TEST BED	KHNP(한국수력원자력)	KOREA	2019
COALESCE FILTER TEST BED	TEST BED	ADD (국방과학연구소)	KOREA	2019
RO-COMP. CALORIMETER	VESSEL	SAMSUNG	KOREA	2019

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
MFG-8 WuXi SHIJIAZHUANG	BIO TANK	WUXI BIOLOGICS	CHINA	2020
FK3 PROJECT	VESSEL	HITACHI PLANT SERVICE	JAPAN	2020
REACTOR SYSTEM	REACTOR / VESSEL / H/ EX.	DONGYANG PNE	KOREA	2020
SR RECOVERY PROJECT	H/EX.	DAEWOONG BIO	KOREA	2020
PM1 CORRUGATING MEDIUM PAPER	VESSEL	경산제지㈜	KOREA	2020
REACTOR SYSTEM	REACTOR / H/EX.	㈜대원포리머	KOREA	2020
HONGIK PROJECT	REC.VESSEL	HONGIK	KOREA	2020
YOUNGCHANG CHEMICAL PLANT 4	VESSEL	영창케미칼	KOREA	2020
VERTICAL PLANETARY MIXER	MIXER VESSEL	HANWHA	KOREA	2020
CIP PROCESS	HEAT EXCHANGER / CONDENSER	YOOYOUNG PHARMACY	GERMANY	2020
JW-PROJECT	AUTO CLAVE	JW PHARMACY	FRANCE	2020
IN-PROJECT	AUTO CLAVE	INTERCONSTEK	CHINA	2020
JWO-PROJECT	STEAM PEELER & ACCULULATOR	JUNGWOO	NETHERLAND	2020
TMT-PROJECT	AUTO CLAVE	THEMATEK	GERMANY	2020
SYB-PROJECT	REACTOR & CONDENSER	SAMYANG BIO	CHINA	2020
JTM-PROJECT	H/EX / REACTANGLER CLAVE	JETEMA	SWEDEN	2020
SC-PROJECT	REACTOR & CONDENSER	SK CHEM	GERMANY	2020
TS-PROJECT	HEAT EXCHANGER / CONDENSATE TANK	TS TECH	CHINA	2020
HEAT EXCHANGER	HEAT EXCHANGER / STORAGE TANK	KOREA UNITED PHARMACY	CHINA	2020
YM-PROJECT	REACTOR	YAMAGEN	JAPAN	2020
CHEMICAL TOWER	TOWER	HANWHA E&C	CHINA	2020
UHT PROCESS	UHT	SAMYOOK FOOD	ITALY	2020
BA-PROJECT	AUTO CLAVE	BINEX	AUSTRIA	2020
SKB-PROJECT	BIO JACKET VESSEL	SK BIO	KOREA	2020
CHEMICAL PROCESS	EVAPORATOR	SAMYANG BIO	KOREA	2020
FERMENTAL PROCESS	FERMENTAL VESSEL	LG CHEMICAL	INDIA	2020
PHARMACY PROCESS	STEAM GENERATOR	KOREA UNITED PHARM.	CHINA	2020
SEPARATOR PROCESS	SEPARATOR	SAMSUNG BIO	GERMANY	2020
CHEMICAL PROCESS	EVAPORATOR	SAMYANG INNOCHEM	GERMANY	2020
FOOD PROCESS	UHT	SAMYOOK FOOD	ITALY	2020
SCORPION PROJECT	VESSEL / REACTOR	UJL INC.	KOREA	2020

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
DEEP-SEA WIRE TEST	AUTO CLAVE	LS CABLE & SYSTEM LTD.	KOREA	2020
HIGH-PRESSURE / TEMP-PROJECT	VESSEL	KNT	KOREA	2020
CHEMICAL PRODUCT SYSTEM	REACTOR / VESSEL / H/ EX	CCCE	KOREA	2020
CHEMICAL LINE SYSTEM	CONDENSER	DS CHEMSOL	KOREA	2020
BATTERY METATERIALS	VESSEL	UMICORE	KOREA	2020
LSP PROJECT	LSP REACTOR	HUVIS	KOREA	2020
MAINTENANCE SYSTEM	H/EX / VESSEL / PIPING	SUWON ENVIRONMENT AGENCY	KOREA	2020
FACTORY EQUIPMENT SYSTEM	REACTOR / RETORT	PEPTRON	KOREA	2020
PROCESS SYSTEM	VESSEL	SUNGEEL HITECH	KOREA	2020
NEW PROCESS PROJECT	C.R.T. / VESSEL	JEVISCO	KOREA	2020
EDISON-3 PROJECT	BIO-TANK / REACTOR	SAMSUNG BIOLOGICS	KOREA	2020
FERMENTER LINE PROJECT	FERMENTOR	CJ CHEILJEDANG CORP	KOREA	2020
POLYMERIZATION PROJECT	SILO	HUVIS	KOREA	2020
TEST EQUIPMENT	VESSEL.	KIER	KOREA	2020
CEMENT PROJECT	AIR HEADER	HANIL CEMENT	KOREA	2020
PI CONSTRUCTION PROJECT	VESSEL / REFLUX TANK	DL E&C	KOREA	2021
GL PROJECT	REACTOR	SUNGIL	CHINA	2021
RO-COMP PROJECT	VESSEL	SAMSUNG ELECTRONICS	KOREA	2021
DRYING FACILITY PROJECT	DRYER / VESSEL	SEOUL CITY	KOREA	2021
BRP PROJECT	AGING TANK / H/EX	ECOPRO	KOREA	2021
CHEMICAL SYSTEM	REACTOR / TANK	SAKURANOMIYA CHEMICAL	KOREA	2021
DOUST COLLECTOR PROJECT	VESSEL / COLLECTOR	HYUNDAI SAMHO HEAVY INDUSTRIES	KOREA	2021
CHAMBER SYSTEM	HEAT EXCHANGER	BINEX	ITALY	2021
FERMENTER SYSTEM	FERMENTER VESSEL	NOROO HOLDINGS	INDIA	2021
SMT VESSEL PROJECT	REACTOR / VESSEL	PI ADVENCED MATERIALS	KOREA	2021
N-PROJECT	FEED GAS PRE-COOLER	TEMC	KOREA	2021
SK PROJECT	MIXER TANK	ECELL	KOREA	2021
HELUIM SYSTEM	VESSEL	JH ENG	KOREA	2021
FILTER SYSTEM	VESSEL	TOPS	KOREA	2021
DISTILLATION SYSTEM	HEAT EXCHANGER	YOOYOUNG PHARM	GERMANY	2021

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
ASPHALT RUBBER SYSTEM	HEAT EXCHANGER	POINIX	USA	2021
EDISON-PROJECT	BIO REACTOR / VESSEL	SAMSUNG BIOLOGICS	KOREA	2021
SPECIA-PROJECT	HEAT EXCHANGER / COOLER	TY PFAUDLER	GERMANY	2021
SK PROJECT	MIXER TANK	ECELL	KOREA	2021
FOOD STERILIZER SYSTEM	AUTO CLAVE	HARIM	GERMANY	2021
SUI-PLANT FILTER HOUSING PROJECT	FILTER HOUSING	AEKYUNG CHEMICAL	KOREA	2021
KOLMAR PROJECT	MIXER TANK	ECELL	KOREA	2021
WASTE WATER BOILER SYSTEM	BOILER PKG	SAMPYO CEMENT	CHINA	2021
DONGJIN CHEMICAL BUYEO PLANT PROJECT	REACTOR / H / EX / RECEIVER TANK	DONGJIN CHEMICAL	KOREA	2021
H2 SYSTEM	ACCUMULATOR	DOOSAN FUELCELL	CANADA	2021
150HP DISSOLVER PROJECT	BUCKET STRAINER	DAEKWANG HIGHPOLYMER	KOREA	2021
DISTILLATION SYSTEM	HEAT EXCHANGER	EYON PHARM.	GERMANY	2021
H2 COLUMN SYSTEM	COLUMN / TANK	DAEJOO ELECTRONIC MATERIALS	KOREA	2021
NA50 PROJECT	REACTOR	ANP CORP.	KOREA	2021
DISTILLATION SYSTEM	HEAT EXCHANGER	BMI	GERMANY	2021
EVAPORATOR SYSTEM	VESSEL	THE O FOUR	ITALY	2021
BIO PROJECT	WATER TANK	SAMSUNG BIO	GERMANY	2021
FILTER HOUSING PROJECT	FILTER HOUSING	ECOPRO INNOVATION	KOREA	2021
ASPHALT RUBBER SYSTEM	BOILER	POINIX	USA	2021
DISTILLATION SYSTEM	HEAT EXCHANGER	HUONS	GERMANY	2021
N2 CHEMICAL TANK	TANK	KUMHO PETROCHEMICAL	KOREA	2021
SB01 PROJECT	JACKET VESSEL	CELLTRION	KOREA	2021
DISTILLATION SYSTEM	HEAT EXCHANGER	DONG-A	GERMANY	2021
AHF SYSTEM	VESSEL	ENF TECHNOLOGY	CHINA	2021
100ML PROJECT	BIO VESSEL	KUMHO PETROCHEMICAL	KOREA	2021
STEAM CONCRET SYSTEM	DRAIN TANK	GIANT	CHINA	2021
C-2 PROJECT	REACTOR / VESSEL	HYOSUNG	KOREA	2021
P-PROJECT	BIO REACTOR / TANK	DAEWON HEALTHCARE	KOREA	2021
BIO PROJECT	WATER TANK	SAMSUNG BIO	GERMANY	2021
QR01 PROJECT	BIO VESSEL	HANMI	KOREA	2021

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
SEMI- CONDUCTOR SYSTEM	REACTOR	NCK	JAPAN	2021
N2 PKG SYSTEM	VESSEL	CARTOOLS	CHINA	2021
HIGH PRESSURE REACTOR 200L	REACTOR	CHEMTROS	KOREA	2021
AIR COMPRESSOR PKG	AIR RECEIVER TANK	BINGGRAE	KOREA	2021
SMELTING PROCESS PROJECT	TOTAL SYSTEM	KIGAM	KOREA	2021
QR02 PROJECT	BIO VESSEL	CELLTRION	KOREA	2021
FORM SPONGE SYSTEM	REACTOR	KM&I	GERMANY	2021
N-PROJECT	BUFFER TANK	TEMC	KOREA	2021
DISTILLATION SYSTEM	HEAT EXCHANGER	HONEX	CHINA	2021
SK PROJECT	MIXER TANK	SK BIO	KOREA	2021
NMP PURIFICATION SYSTEM	TOWER / VESSEL / H/EX	KOKAM	KOREA	2021
DANGJIN THERMAL POWER 1-4 PROJECT	REACTOR / H/EX	KOREA EAST- WEST POWER	KOREA	2021
WASTE WATER BOILER SYSTEM	BOILER	NONGSHIM	CHINA	2021
EC05 PROJECT	BIO VESSEL	CELLTRION	KOREA	2021
FOOD STERILIZER SYSTEM	AUTO CLAVE	LOTTE FOOD	FRANCE	2021
REACTOR SYSTEM	REACTOR / H/EX	DS CHEMSOL	KOREA	2021
FERMENTER SYSTEM	FERMENTER VESSEL	INTRON	GERMANY	2021
EC010 PROJECT	BIO VESSEL	CELLTRION	KOREA	2021
PLASTIC PRODUCTION SYSTEM	HEAT EXCHANGER	INEOS	GERMANY	2021
PG-4 PROJECT	REACTOR / VARNISH TANK	PI ADVENCED MATERIALS	KOREA	2021
DISTILLATION SYSTEM	HEAT EXCHANGER	JANSSEN	GERMANY	2021
EDISON IV PROJECT	BIO REACTOR	SAMSUNG BIOLOGICS	KOREA	2021
WASTE INCINERATION FACILITY PROJECT	AIR PREHEATER	JEJU PROVINCE DEVELOPMENT	KOREA	2021
CMDL PLANT EXPANSION PROJECT	REACTOR / H/ EX / RECEIVER TANK	CMDL	KOREA	2021
DISTILLATION SYSTEM	BIO VESSEL	KOREA UNITED PHARM	CHINA	2022
MACHINING SPOT	P.C.I FEED HOPPER CONE	POSCO	KOREA	2022
SHIPPING PIPING PROJECT	PIPING / TANK	POINIX INC.	KOREA	2022
FERMENTER SYSTEM	VESSEL	KNBS	USA	2022
CHEMICAL SYSTEM	BIO VESSEL / TANK	DONG-A PHARM	KOREA	2022
T-PROJECT	CONDENSER / SEPARATOR	DONGSUNG CHEMICAL	KOREA	2022
REACTOR SYSTEM	BIO VESSEL	MI PHARM	CHINA	2022

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
FOOD STERILIZER SYSTEM	VESSEL	CJ FOOD	USA	2022
V-PROJECT	STORAGE TANK	KTL	KOREA	2022
H2 PSA SYSTEM PROJECT	ADSORBER COLUMN / TANK	EN2CORE TECH	KOREA	2022
UHT PKG SYSTEM	VESSEL	SAMYANG HOLDINGS	GERMANY	2022
VACUUM SYSTEM	VESSEL	KOREA LOST WAX	USA	2022
BIO SYSTEM	FILTER HOUSING / VESSEL	KUKDO CHEMICAL	KOREA	2022
OIL PURIFICATION SYSTEM	TUBE CLUSTER	S-OIL	TAIWAN	2022
WASTE WATER FILTERING SYSTEM	HEAT EXCHANGER	THE O FOUR	ITALY	2022
SOLBRAIN PROJECT	VESSEL / RECOVERY TANK	SOLBRAIN	KOREA	2022
BIO PROJECT	BIO REACTOR	CELLTRION	KOREA	2022
STEAM PJG SYSTEM	BIO VESSEL	FROM BIO	GERMANY	2022
UHT PJG SYSTEM	HEAT EXCHANGER	SAMYANG HOLDINGS	GERMANY	2022
H1 PROJECT	HEAT EXCHANGER	TEMC	KOREA	2022
H/EX MANUFACTURE PROJECT	HEAT EXCHANGER	WELCRON HANTEC	KOREA	2022
VACUUM COOLING SYSTEM	AUTO CLAVE	SHIMADZU	CHINA	2022
E4-PROJECT	C.R.T.	HYOSUNG CHEMICAL	KOREA	2022
STS316L REACTOR SYSTEM	REACTOR / H / EX / RECEIVER TANK	CHEMTROS	KOREA	2022
CMDL PLANT EXPANSION	REACTOR / H / EX	CMDL	KOREA	2022
LG PROJECT	MIXING TANK / VESSEL	LG ENERGY SOLUTION	GERMANY	2022
CHEMICAL SYSTEM	BIO VESSEL	KUMHO MITSUI CHEMICALS, INC.	KOREA	2022
AIR FILTER PROJECT	FILTER HOUSING	SAMSUNG DISPLAY	KOREA	2022
DISTILLATION SYSTEM	HEAT EXCHANGER	STGEN BIO	GERMANY	2022
REACTOR SYSTEM	REACTOR	LG CHEM	SWITZERLAND	2022
STS304 PROJECT	HOT OIL TANK / RECEIVER TANK	CHEMTROS	KOREA	2022
BIO PROJECT	BUFFER PREP TANK / BIOREACTOR	CELLTRION	KOREA	2022
KIA MOTORS TANK PROJECT	STORAGE TANK	KIA CORP	KOREA	2022
DISTILLATION SYSTEM	H/EX / SEPARATOR	DM BIO	GERMANY	2022
SINGLE USE MIXER SYSTEM	DOUBLE JACKET VESSEL	DONG-A PHARM	KOREA	2022
REACTOR PROJECT	VESSEL / TANK / DRUM / SEPARATOR	META BIOMED	KOREA	2022
DISTILLATION SYSTEM	H/EX / PROCESS VESSEL	RF BIO	GERMANY	2022
DAEJEON PLANT PROJECT	REACTOR / H / EX / RECEIVER TANK	DONGYANG	KOREA	2022

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
PG5 PROJECT	REACTOR	PI ADVANCED MATERIALS	KOREA	2022
DISTILLATION SYSTEM	STERILIZER	BINEX	AUSTRIA	2022
MDI PLANT PROJECT	BIO VESSEL	KUMHO MITSUI CHEMICALS CORP	KOREA	2022
HEAT EXCHANGER SYSTEM	HEAT EXCHANGER	METHISON GAS	USA	2022
CO2 PSA SYSTEM PROJECT	STRUCTURE / PIPING / VESSEL	HYUNDAI ROTEM	KOREA	2022
LITHIUM SYSTEM	VESSEL	POSCO HOLDINGS	GERMANY	2022
BIO PROJECT	BIO REACTOR / STORAGE TANK	CELLTRION	KOREA	2022
LGESOC2 1P PROJECT	COOLER / REBOILER / H/ EX	LG ENERGY SOLUTION	KOREA	2022
HSPP PROJECT	REACTOR / VESSEL	P&O CHEMICAL	KOREA	2022
MH-PROJECT	C.R.T.	KUKDO CHEMICAL	KOREA	2022
EPOXY PILOT INSTALLATION PROJECT	BIO VESSEL / STERILIZER	KUMHO P&B CHEMICALS	KOREA	2022
POSCO CONTINENTAL	VESSEL	POSCO HOLDINGS	GERMANY	2022
WASTEWATER TREATMENT FACILITY PROJECT	PROCESS VESSEL	HYUNDAI STEEL	KOREA	2022
PITK PROJECT	REACTOR / VEESEL	DAEWON PHARMACEUTICAL	KOREA	2022
NORTHVOLT D. S-3	BINDER MIXER / STORAGE TANK	NORTHVOLT	KOREA	2022
POLY-E PROJECT	VESSEL / FILTER HOUSING	SOLBRAIN	KOREA	2022
OXO RTO-PROJECT	RTO / FERMENTER	LG CHEMICAL	KOREA	2022
BIO PROJECT	BIO VESSEL	SAMSUNG BIOLOGICS	KOREA	2022
DRYER PKG SYSTEM	VESSEL	TAEKWANG	JAPAN	2022
POSCO LITHIUM SOULTION	HEAT EXCHANGER	POSCO HOLDINGS	GERMANY	2022
T20 PROJECT	REACTOR / STORAGE TANK	LG CHEM.	KOREA	2022
NH3 VPSA PROJECT	TOTAL EQUIPMENT	KIER	KOREA	2022
J-PROJECT	VESSEL	KIER	KOREA	2022
LINE-PROJECT	AIR FLOTATION	LOTTE CHEMICAL	KOREA	2022
OCI STC PROJECT	REACTOR / H/EX	OCI	KOREA	2022
POLYMER PROJECT	STORAGE TANK	LG CHEMICAL	KOREA	2022
V.E. PROJECT	WATER COOLER	LOTTE CHEMICAL	KOREA	2022
DUST PNEUMATIC CONVEYING SYSTEM	TANK / VESSEL	POSCO	KOREA	2022
VAPOR BOILER SYSTEM	BOILER	SAMSHIN	USA	2022
DISTILLATION SYSTEM	HEAT EXCHANGER	DONG-A PHARM.	GERMANY	2022
PISTON PRESSURE VESSEL	VESSEL / DRYER	SK GEO CENTRIC	KOREA	2022

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
EDISON PROJECT	BIO REACTOR / STERILIZER	SAMSUNG BIOLOGICS	KOREA	2023
AU PROJECT	AUTOCLAVE / H/EX	CIS CHEMICAL	KOREA	2023
STEAM COOKER SYSTEM	VESSEL / DRYER	KAJIWARA	JAPAN	2023
STEAM BOILER PKG	STEAM BOILER	KBR	USA	2023
T1 PROJECT	EVAPORATOR	LG CHEM	KOREA	2023
REACTOR SYSTEM	REACTOR	CMDL	KOREA	2023
BIO PROJECT	HOLD VESSEL	SAMSUNG BIOLOGICS	KOREA	2023
UHT SYSTEM	HEAT EXCHANGER	GEA TDS	GERMANY	2023
CHEMICAL SYSTEM	VESSEL	MIWON CHEM	USA	2023
POLY-E PROJECT	STORAGE TANK	SOLBRAIN	KOREA	2023
BPA POWDER PROJECT	TRANSPORTER	KUMHO P&B CHEMICALS	KOREA	2023
QL-PROJECT	C.R.T.	CHEMTRONICS	KOREA	2023
CHEMICAL PROCESS	DRYER / STORAGE TANK	CIS CHEMICAL	GERMANY	2023
VESSEL PROJECT	H/EX / AUTOCLAVE / REACTOR	HUMEDIX	KOREA	2023
LITHIUM SYSTEM	VESSEL	POSCO	ITALY	2023
LITHIUM SYSTEM	VESSEL	SUNGIL HITEK	CHINA	2023
DISTILLATION SYSTEM	H/EX / STERILIZER	STGEN BIO	GERMANY	2023
DS-1 PROJECT	REACTOR / BUFFER TANK	NORTHVOLT	KOREA	2023
SEJONG PLANT PROJECT	VESSEL	KCC GLASS CORP	KOREA	2023
CHEMICAL SYSTEM	HEAT EXCHANGER	HOSOKAWA	JAPAN	2023
CHEMICAL SYSTEM	EVAPORATOR	WUXI LIMA	CHINA	2023
LITHIUM SYSTEM	VESSEL	POSCO	TURKIYE	2023
BIO PROJECT	BIO VESSEL	DAEWON PHARMACEUTICAL	KOREA	2023
GLASS FIBER NO.2 PROJECT	PROCESS VESSEL	KCC GLASS CORP	KOREA	2023
INSTALLATION OF USER TANK PROJECT	C.R.T.	KUMHO MITSUI CHEMICALS	KOREA	2023
BOILER SYSTEM	BOILER	ENDORFF	USA	2023
HF PH2 PROJECT	TOWER / REACTOR / STEAM HEADER	ENF TECHNOLOGY	KOREA	2023
BIO SYSTEM	VESSEL	TDS	GERMANY	2023
CHEMICAL PROCESS	TOWER / PROCESS VESSEL	CIS CHEMICAL	KOREA	2023
REACTOR SYSTEM	REACTOR	CHEMTROS	KOREA	2023
A-PROJECT	VESSEL / MIXER / DRUM	SAMSUNG SDI	KOREA	2023

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
GRAPHENE PILOT PLANT	REACTOR	JNC MATERIALS	KOREA	2023
FTS PROJECT	REACTOR / TANK /	DNF	KOREA	2023
STEAM COOKER SYSTEM	PRESSURE VESSEL	KAJIWARA	JAPAN	2023
STEAM BOILER PKG	POWER BOILER	KBR	USA	2023
UHT SYSTEM	HEAT EXCHANGER	GEA TDS	GERMANY	2023
CNT DISPERSION PROJECT	MIXER BOWL	SAMSUNG SDI	KOREA	2023
CHEMICAL SYSTEM	EVAPORATOR	MIWON CHEM	USA	2023
DISTILLATION SYSTEM	HEAT EXCHANGER	STGEN BIO	GERMANY	2023
CHEMICAL SYSTEM	H/EX / STORAGE TANK	HOSOKAWA	JAPAN	2023
H2 PSA SYSTEM	HIGH-PURITY HYDROGEN SEPARATION& PURIFICATION SYSTEM	KTL	KOREA	2023
DP010 PROJECT	NITROGEN PURIFICATION COLUMN	SK HYNIX INC	KOREA	2023
CHEMICAL SYSTEM	EVAPORATOR	WUXI LIMA	CHINA	2023
C PROJECT	METHANOL ADSORPTION TOWER	DAEJOO ELECTRONIC MATERIALS	KOREA	2023
DRINK PRODUCE SYSTEM	HEAT EXCHANGER	DONGWON SYSTEMS	CHINA	2023
CS050(020) PROJECT	NITROGEN PURIFICATION COLUMN	WONIK MATERIALS	KOREA	2023
CLEAN WATER SYSTEM	HEAT EXCHANGER	BINEX	ITALY	2023
BIO SYSTEM	REACTOR	SK BIO	USA	2023
Lar PROJECT	LIQUID ARGON CRYOGENIC CHAMBER	SEOUL NATIONAL UNIVERSITY	KOREA	2023
FOOD PRODUCE SYSTEM	AUTO CLAVE	LOTTE FOOD	FRANCE	2023
PHARMACY SYSTEM	HEAT EXCHANGER	KOREA UNITED PHARM.	CHINA	2023
TaV PROJECT	HEAVY TAR SALES FACILITY	HYUNDAI STEEL	KOREA	2023
NO.2 MNB PROJECT	TANK / H/EX	DAEWOO E&C	KOREA	2023
PHARMACY SYSTEM	PRESSURE VESSEL	HANMI PHARM.	GERMANY	2023
BIO SYSTEM	HEAT EXCHANGER	SAMSUNG BIO	JAPAN	2023
N-1(Maf) PROJECT	AMMONIA PRESSURE VESSEL / STORAGE TANK	HANWHA CORPORATION	KOREA	2023
LSP PROJECT	RAW MATERIAL FEEDING SYSTEM	LG PRI	KOREA	2023
FOOD PRODUCE SYSTEM	AUTO CLAVE	DONGWON	FRANCE	2023
FOOD OIL SYSTEM	EVAPORATOR	DONGSUH	MALAYSIA	2023
PILOT PLANT PROJECT	PROCESS VESSEL	ISU SPECIALTY CHEM.	KOREA	2023
CHEMICAL SYSTEM	REACTOR	MIJOOENBICHEM	CHINA	2023
P.C.I PROJECT	HIGH-PRESSURE GAS FEED HOPPER	POSCO	KOREA	2023

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
3MS PROJECT	3MS SYNTHESIS SYSTEM	SOLEMATERIALS	KOREA	2024
PHARMACY RESEARCH SYSTEM	H/EX / FERMENTER	YOORYOUNG PHARMACY	GERMANY	2024
FOOD PRODUCE SYSTEM	AUTO CLAVE	HARIM FOOD	FRANCE	2024
AFTER COOLER PROJECT	H/EX / DRAIN TANK	SAMYANG HOLDINGS CORP.	KOREA	2024
C2H2 PROJECT	HIGH-PURITY C2H2 FILLING SYSTEM	TAEKYUNG ECO	KOREA	2024
CHEMICAL SYSTEM	PRESSURE VESSEL	GLCHEM	CHINA	2024
PROCESS MILK SYSTEM	UHT / STERILIZER	BINGGRAE	GERMANY	2024
YEP-VI PROJECT	HEATER / EVAPORATOR	KUMHO POLYCHEM	KOREA	2024
HE PROJECT	H/EX / FILTER / HARVEST TANK	HUMEDIX	KOREA	2024
SECONDARY CELL	PROCESS VESSEL	INNOX	CHINA	2024
A144 PROJECT	HIGH-PURITY HELIUM CHARGING UNIT	SK HYNIX INC.	KOREA	2024
RECYCLE PLASTIC SYSTEM	REACTOR / BIO VESSEL	LG CHEMICAL	SWEDEN	2024
BIO SYSTEM	REACTOR / BIO VESSEL	SK BIO	USA	2024
A145 PROJECT	HIGH-PRESSURE NITROGEN CHARGING SYSTEM	TEMC	KOREA	2024
A148 PROJECT	NITROGEN PURIFICATION SYSTEM	SAMSUNG SDI	KOREA	2024
CONCRETE SYSTEM	BOILER	POINIX	USA	2024
CN200 PROJECT	HIGH-PRESSURE HYDROGEN PURIFICATION SYSTEM	SAMSUNG SDI	KOREA	2024
HSC COSMOS PROJECT	BIOVESSEL	HANWHA SOLUTIONS	KOREA	2024
BIO SYSTEM	BIO VESSEL / TOWER	SAMSUNG BIO	FRANCE	2024
DCD-401 PROJECT	MELT POLYMERIZATION REACTOR	META BIOMED	KOREA	2024
P.C.I PROJECT	LOW-VOLATILITY PCI STORAGE TANK	POSCO	KOREA	2024
CHEMICAL SYSTEM	AUTO CLAVE / DRYER	HYOSUNG	CHINA	2024
BH-1 PROJECT	NOx EMISSION REDUCTION SYSTEM	LG CHEM	KOREA	2024
DE-PROJECT	REACTOR / TOWER	DONGIN CHEM	KOREA	2024
SAL DE ORO PROJECT	PROCESS VESSEL	POSCO	KOREA	2024
RF PROJECT	ETHYLENE GLYCOL STORAGE TANK	KUMHO PETROCHEMICAL.	KOREA	2024
PAPER PRODUCE SYSTEM	PROCESS VESSEL	MOORIM	CHINA	2024
E PROJECT	MOISTURE SEPARATION SYSTEM	OCI & KUMHO	KOREA	2024
GMP PROJECT	H/EX / STERILIZER	DAEWOONG BIO	KOREA	2024
RECHARGEABLE BATTERY SYSTEM	HEAT EXCHANGER	VEOLIA	ITALY	2024
HT PROJECT	VACUUM SYSTEM	HUMANTEK	KOREA	2024

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
ENVIRONMENTAL ANALYSIS LAB VENT SYSTEM	TOWER	SK SPECIALITY	KOREA	2024
C-PROJECT	STERILIZER / CYCLONE	DAEWOONG	KOREA	2024
HM-PROJECT	STORAGE TANK / REACTOR / H/EX / AUTO CLAVE	HUMEDIX	KOREA	2024
PAPER PRODUCE SYSTEM	PROCESS VESSEL	MOORIM	CHINA	2024
GLP PROJECT	GLYCOLIDE PRODUCTION SYSTEM	POLY BIOTECH	CHINA	2024
CS500 PROJECT	NITROGEN PURIFICATION COLUMN	SK HYNIX INC.	KOREA	2024
CMN250 PROJECT	OXIDATION SYSTEM	SAMSUNG SDI	KOREA	2024
LGESOC2 1P PROJECT	CONDENSER / H/EX	LG ENERGY SOLUTION	KOREA	2024
RECHARGEABLE BATTERY SYSTEM	HEAT EXCHANGER	VEOLIA	ITALY	2024
HOSPITAL RESEARCH SYSTEM	CHAMBER	BUSAN UNIVERSITY	ITALY	2024
HL-PROJECT	TANK / STERILIZER	HANLIM PHARM.	KOREA	2024
CS200 PROJECT	H2 / N2 / NH3 PURIFIERS	SAMSUNG SDI	KOREA	2024
FOOD PRODUCE SYSTEM	DRYER / STERILIZER	HARIM FOOD	DENMARK	2024
CHEMICAL SYSTEM	REACTOR / BIO VESSEL	LG CHEMICAL	GERMANY	2024
FOOD PRODUCE SYSTEM	AUTO CLAVE / BIO VESSEL	CJ	FRANCE	2024
UT PROJECT	AIR HEADERS FOR SEWAGE TREATMENT	GUNSAN SEWAGE TREATMENT CENTER	KOREA	2024
OXO SUPER	HEATER	LG CHEM.	KOREA	2024
BIO SYSTEM	PROCESS VESSEL / CYCLONE	LOTTE BIO	FRANCE	2024
VHE PROJECT	CONDENSER	CGP MATERIALS	KOREA	2024
SI2H6 PROJECT	SI2H6 RESIDUAL GAS PURIFICATION EQUIPMENT	SOLEMATERIALS	KOREA	2024
PAPER PRODUCE SYSTEM	DRYER	AJIN P&P	CHINA	2024
LNG TERMINAL PROJECT	DRYER / FILTER	POSCO E&C	KOREA	2024
SHAHEEN PROJECT	STORAGE TANK	S-OIL CORP.	KOREA	2024
GAS PRODUCE SYSTEM	HEAT EXCHANGER	ENF	CHINA	2024
PHARMACY SYSTEM	H/EX / SEPARATOR	JANSSEN	GERMANY	2024
A180 PROJECT	HELIUM GAS PURIFICATION GETTER TOWER	SAMSUNG SDI	KOREA	2024
JIO-PROJECT	DRYER / REACTOR	JIOS AEROGEL	SINGAPORE	2024
BIOGAS UPGRADING SYSTEM	TOWER / BIO VESSEL	ECO BIO	KOREA	2024
SECONDARY CELL	PRESSURE VESSEL	POSCO	GERMANY	2024
GL-R PROJECT	MEDICAL DEVICE MANUFACTURING EQUIPMENT	META BIOMED	KOREA	2024
BIO DIESEL PROJECT	EVAPORATOR / DRYER / CONDENSER	GS BIO	KOREA	2024

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
NUCLEAR FUEL TEST FACILITY	TOWER / VESSEL	KEPCO NUCLEAR FUEL	KOREA	2025
GL PJT	SURGICAL SUTURE MANUFACTURING EQUIPMENT	META BIOMED	KOREA	2025
FOOD PREDUCE SYSTEM	AUTO CLAVE	LOTTE FOOD	FRANCE	2025
JNPP PROJECT	DRYER	HS BIO	KOREA	2025
XLP PJT	CHEMICAL & PHYSICAL ADSORPTION COLUMN	SAMSUNG	KOREA	2025
CHEMICAL SYSTEM	GL REACTOR	MIJOO	CHINA	2025
HP PROJECT	NITROGEN PURIFICATION SYSTEM	WOORIM	KOREA	2025
BIO SYSTEM	HEAT EXCHANGER	GREEN CROSS	CHINA	2025
CIS-PROJECT	MIXING TANK	CIS CHEMICAL	KOREA	2025
EUV THINNER	REACTOR / CONDENSER / RECEIVER TANK	CHEMTROS	KOREA	2025
SECONDARY CELL	PRESSURE VESSEL	POSCO	GERMANY	2025
CHEMICAL SYSTEM	EVAPORATOR	SGC	CHINA	2025
ELECTRIC PROVIDING SYSTEM	PRESSURE VESSEL	LS ELECTRIC	GERMANY	2025
BIO SYSTEM	HEAT EXCHANGER	BIO POUR	CHINA	2025
SHORT PATH DISTILLATOR	DISTILLATOR /	SK CHEMICAL	KOREA	2025
O2 AD PJT	HIGH-PRESSURE OXYGEN DECOMPOSITION COLUMN	SAMSUNG	KOREA	2025
R-101 PJT	PYROLYSIS & CRYSTALLIZATION REACTORS	META BIOMED	KOREA	2025
D PROJECT	LNG HIGH-PRESSURE CYLINDER	HD HYDROGEN	KOREA	2025
DEEP OCEAN WATER PRODUCE SYSTEM	REACTOR	COOP ENG	CHINA	2025
1HAPL PICKLING PROJECT	LOW-PRESSURE HYDROGEN EQUIPMENT	POSCO	KOREA	2025
CHEMICAL SYSTEM	PROCESS VESSEL	LG CHEMICAL	MALAYSIA	2025
BIO SYSTEM	BIO VESSEL	SAMSUNG BIO	FRANCE	2025
ABN-PROJECT	HEATER	ALBANY INTERNATIONAL	USA	2025
K-CALL PROJECT	H/EX / REACTOR	WELKIN BIOTECHNOLOGY	CHINA	2025
RS-101 PROJECT	HIGH-CONCENTRATION SLURRY REACTOR	EcoPro BM	KOREA	2025
PROCESS DRINK PRODUCE SYSTEM	PRESSURE VESSEL	GAONNURI	CHINA	2025
PS PROJECT	PURE STEAM GENERATION SYSTEM	DALIMBIOTECH	KOREA	2025
BIO SYSTEM	HEAT EXCHANGER	BINEX	ITALY	2025
PAPER PRODUCE SYSTEM	DRYER	MOORIM P & P	ITALY	2025
H2 PROJECT	LOW-PRESSURE HYDROGEN SYSTEM	TAEGUTEC	KOREA	2025
MEDICAL EQUIPMENT SYSTEM	CHAMBER	CYTIVA	UK	2025

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
INCINERATION FACILITY	REACTOR / DRYER	ANSAN CITY	KOREA	2025
HEXA 1500 L/H	HEXA MIXER	SAMSUNG ELECTRONICS	KOREA	2025
NH3 Recovery PROJECT	AMMONIA RECOVERY & PURIFICATION SYSTEM	RIST	KOREA	2025
CHEMICAL SYSTEM	GL REACTOR	SDC	CHINA	2025
H1 PLANT	HEAT EXCHANGER	KCC CORP.	KOREA	2025
Sapphire Modify PROJECT	LAB CHEMICAL SYSTEM MAINTENANCE UNIT	PKC	KOREA	2025
BIO SYSTEM	REACTOR	SK BIO	USA	2025
MEDICAL EQUIPMENT SYSTEM	CHAMBER	AJOO UNIVERSITY HOSPITAL	ITALY	2025
CDQ PROJECT	CDQ BOILER	POSCO	KOREA	2025
DEG PROJECT	DEG PRESSURE VESSEL	SAMYANG HOLDINGS CORP.	KOREA	2025
HW PROJECT	MIXER BOWL	HANWHA AEROSPACE	KOREA	2025
H2 PSA SYSTEM	HIGH-PURITY HYDROGEN PURIFICATION SYSTEM	HYUNDAI MOTOR COMPANY	KOREA	2025
RECHARGEABLE BATTERY	HEAT EXCHANGER	SUNG HIMETAL	CHINA	2025
SLUDGE TREATMENT SYSTEM	DRYER	BUCHEON CITY	KOREA	2025
FOOD PRODUCE SYSTEM	BIO VESSEL	LOTTE WELL FOOD	SWISS	2025
SECONDARY CELL	VESSEL	POSCO PLANTEC	INDIA	2025
DCD PROJECT	MELT POLYMERIZATION REACTOR	META BIOMED	KOREA	2025
GAS PROVIDING SYSTEM	PROCESS VESSEL	ISTE	CHINA	2025
P PROJECT	PRESSURE TANK	POSCO	KOREA	2025
PRSTG	H/EX / EVAPORATOR / TANK	PRESTIGE BIOLOGICS	KOREA	2025
CDQ3 PROJECT	DUST COLLECTING & COOLING SYSTEM	POSCO	KOREA	2025
PHARMACY RESEARCH SYSTEM	HEAT EXCHANGER	CHUNGANG VACCINE	GERMANY	2025
FOOD PRODUCE SYSTEM	PROCESS VESSEL	DONGWON FOOD	FRANCE	2025
GREEN STEAM POWER PROJECT	CONDENSER / H/EX	MOORIM P&P	KOREA	2025
BF3 CLEANING SYSTEM	BF3 FROM 11BF3 SCRUBBING & DECONTAMINATION SYSTEM	TEMC	KOREA	2025
PROCESS MILK SYSTEM	PROCESS VESSEL	BINGGRAE	GERMANHY	2025
FOOD PEELER SYSTEM	BOILER & STEAM PEELER	AGRICULTURAL CORPORATION	TURKIYE	2025
SOLID PROJECT	HEAT EXCHANGER	KIER	KOREA	2025
SORTER PROJECT	H/EX / CYCLONE	SAMSUNG SDI	KOREA	2025
Ar PROJECT	ARGON GAS STORAGE TANK	WOORIM	KOREA	2025
1HAPL PICKLING PROJECT	HEAT EXCHANGER	POSCO	KOREA	2025

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