



With



our **서은플랜트기술(주)** Since 1998



최상의 설계, 최고의 품질
그리고 약 20년간 축적된 기술력을 토대로



고객의 신뢰를 받는 파트너로서
여러분께 다가서겠습니다.

설계, 인증, 제작, 시공, 시운전 모두 가능한 토탈 엔지니어링 회사

1. PILOT PLANT, TEST BED, 국가정책 R&D 연구과제 등
2. 석유 · 정밀 화학, 바이오, 식품, 신소재, 에너지 환경 분야



서은플랜트기술(주)
SEOEUN PLANTTECH CO., LTD.



서은플랜트기술 주식회사는

석유화학 및 정밀 화학, 바이오, 식품, 신소재, 에너지 환경분야의 엔지니어링 회사로서, 산·학·연·관·군에서 필요로 한 연구용 Pilot Plant 뿐만 아니라 Commercial Plant의 설계 및 제작, 시공, 시운전에 이르기까지 고객의 요구사항을 One Stop으로 해결해 드립니다.

또한 저희 서은플랜트기술(주)은 약 20년간 축적된 노하우와 신뢰를 토대로, 저희 회사를 이용한 고객이 국내는 물론 해외 모든 시장에서 인정받을 수 있도록 최선을 다하고 있습니다. 감사합니다.

- 임직원 일동 -



주요 설비 제작 분야

PILOT PLANT 구축

- SCALE-UP 착수 전 테스트를 위한 소규모 설비 시스템

TEST BED 설비

- 새로운 기술·제품·서비스의 성능 및 효과를 시험할 수 있는 환경시스템
- 수입제품 국산화(Localization Development) 및 제품개발

LAB BENCH SCALE SYSTEM 구축

- 정부R&D사업 설비
- 연구과제 및 연구목적용 실험 설비

플랜트 장치 제작

- 석유화학 / 바이오 / 제약 / 식품 / 신소재 등

각종 EQUIPMENT 제작

- 압력용기 / 반응기 / 열교환기 / 타워 / 저장탱크 / 사일로 /
오토클레이브 / 건조기 / 에어헤더 / FRP용기
- 특수목적용(SPECIAL) 용기 / 고압 및 저온용기 등

기타 산업기계

배관 (PIPING)

철구조물 (STRUCTURE)

주요 설계 용역 분야

설계범위

- 석유화학 / 바이오 / 제약 / 식품 / 신소재 등

설계 적용코드

- ASME SEC.VIII DIV.1,2 / ASME SEC. X / KS B6750 / JIS B8265 / 산업통상자원부 고시 / KGS AC111 / API 620,650 / 선급코드(KR, ABS, DNV.GL, LR, RINA) 등

각종 장치류의 도면작성

- 기본설계 (BASIC ENGINEERING DRAWING)
- 상세설계 (FABRICATION DRAWING)
- PIPING / P&ID / PFD / STRUCTURE DRAWING
- 각종 DOCUMENT의 작성 및 검토지원

강도계산 (STRENGTH CALCULATION)

- MECAL V2.0 프로그램 적용 (서은플랜트기술㈜ 제작,판매프로그램)
- CODEWARE사의 COMPRESS 프로그램 적용
- PV ELITE, CEASER II 적용

구조계산 및 유한요소해석 (STRUCTURAL CALCULATION & FEA)

- MIDAS, ANSYS 프로그램 적용
- 각종 철구조물 구조해석

열계산 (THERMAL CALCULATION)

- HTRI 프로그램 적용

안전인증대행 (국내, 해외)

- 한국산업안전공단(KOSHA), 한국에너지공단(KEA), 가스안전공사(KGS), 소방법 등
- 수입품 검사

선급인증대행 (CLASSIFICATION SAFETY)

- KR, ABS, DNV, GL, LR, RINA 등

클라이언트가 원하는 업무범위에 대한 종류

- 다양한 방법을 통해 원하시는 방향으로 지원 가능합니다.
- 협의를 통해 가장 적절한 방향으로의 가이드를 제시해 드립니다.

1) 견적 단계 참여 (개발 / 신규 / 증설 / 보수 등)

2) 설계만 원하시는 경우 (도면 / PIPING / P&ID / PFD / 강도계산 / 구조계산 / 열계산)

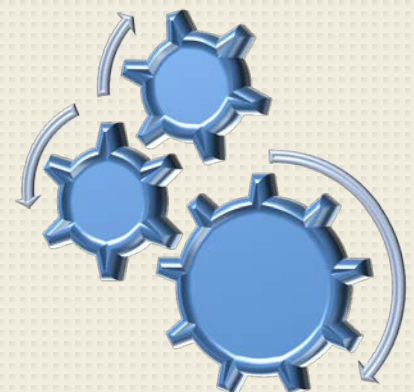
3) 안전인증만 원하시는 경우 (한국산업안전공단 / 한국에너지공단 / 가스안전공사 등)

4) 설계 + 안전인증 원하시는 경우

7) 설계 + 안전인증 + 제작 원하시는 경우

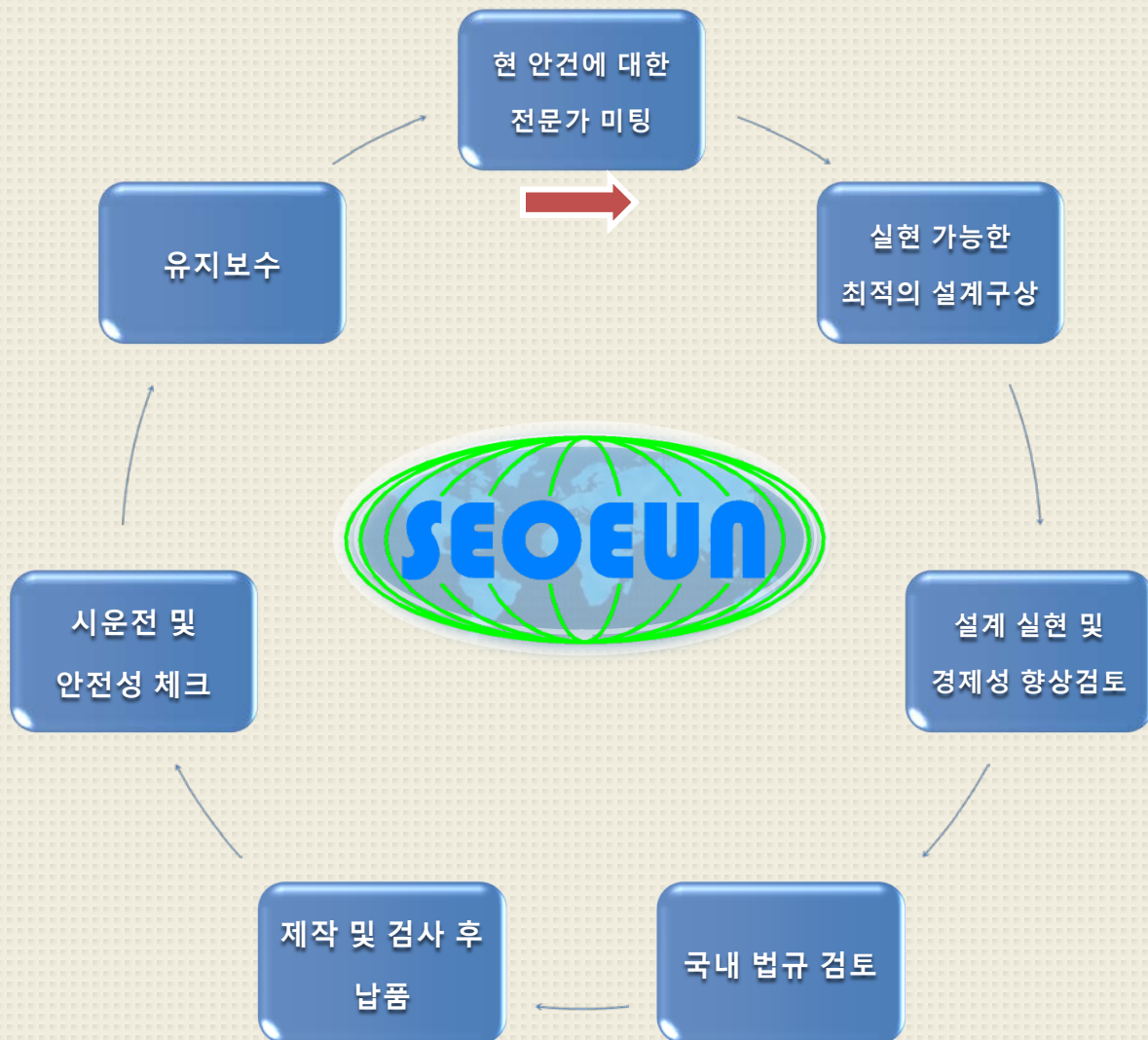
8) 설계 + 안전인증 + 제작 + 시공 + 시운전 원하시는 경우

* PILOT PLANT, TEST BED, R&D과제 등은 설계부터 시운전까지 동시 진행하는 것이 좋습니다.*



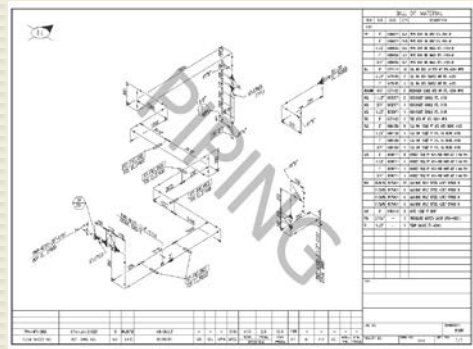
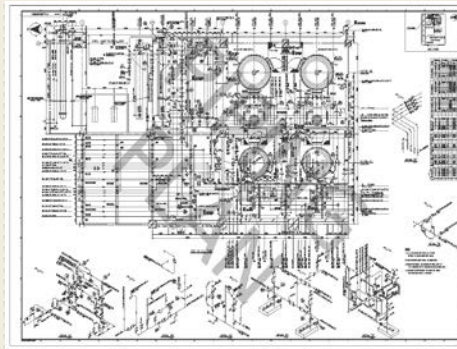
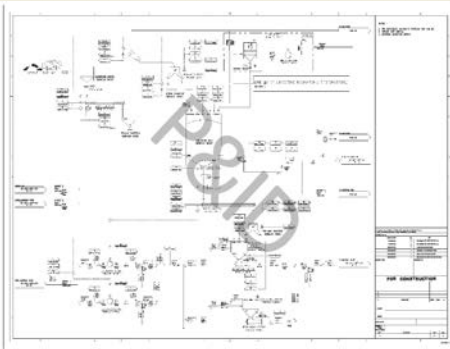
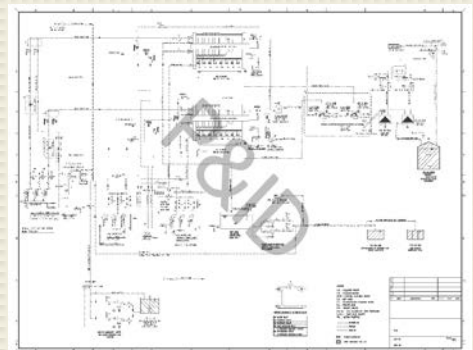
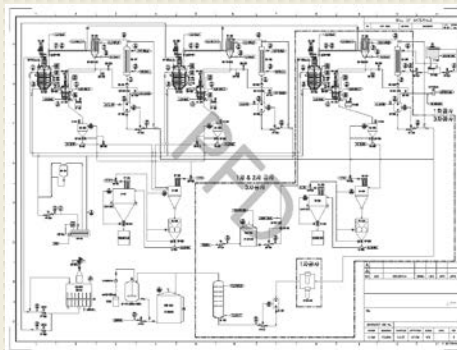
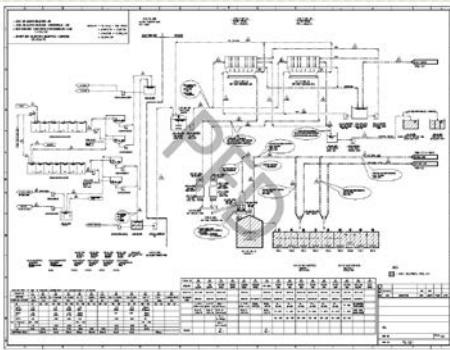
설계 및 인증, 제작, 시운전 - ONE STOP 프로세스

- 설계부터 시운전까지의 과정을 저희와 함께 하시면 한번에 해결 가능 합니다.

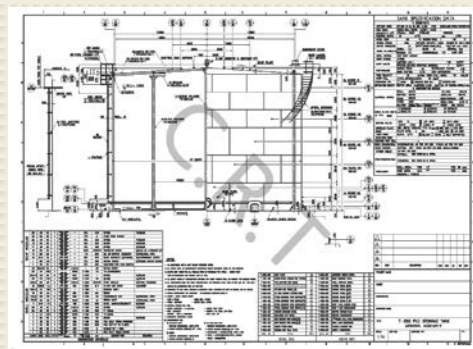
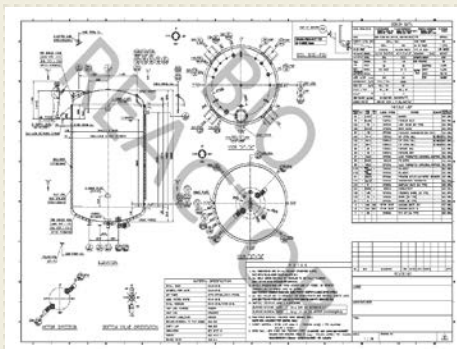
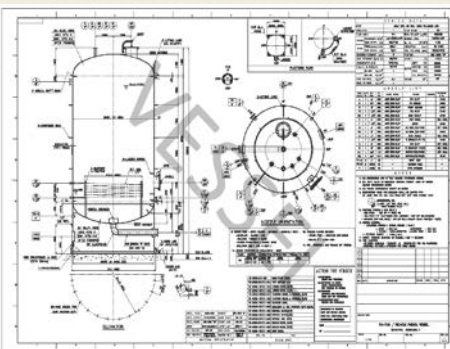
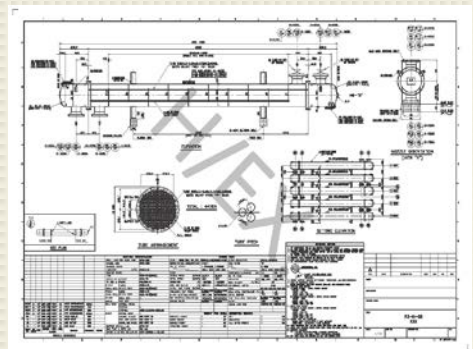
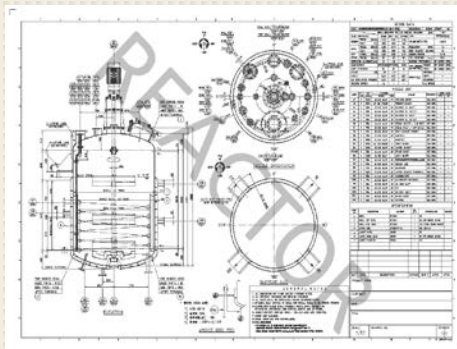
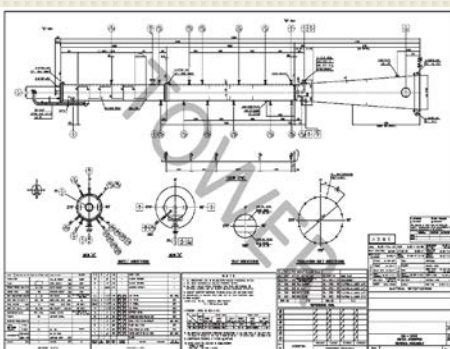


각종 PLANT 및 EQUIPMENT 관련 모든 도면 작성

1) PFD / P&ID / PIPING

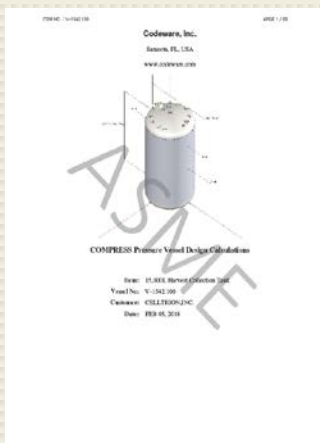


2) 각종 장치류 도면 작성

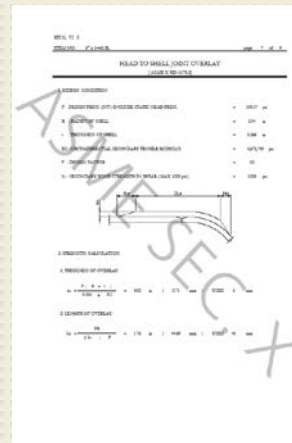


각종 PLANT 및 EQUIPMENT의 강도계산 및 구조계산

- 설계적용 코드 : ASME SEC.VIII DIV.1 / ASME SEC. X / KS B6750 / JIS B8265 / 산업통상자원부 고시 / KGS AC111 / API 620,650 / 선급코드(KR, ABS, DNV+GL, LR, RINA) 등



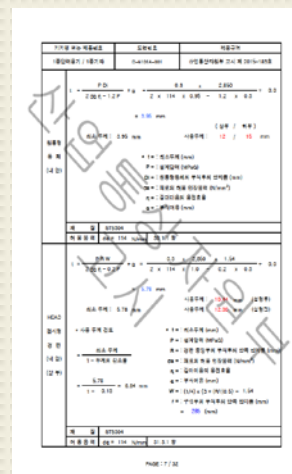
Component	Material	Design Pressure (psia)	Design Temperature (°F)	Design Stress (ksi)
Shell	SA-516 Gr. 60	15.000	100	17.5
Head	SA-516 Gr. 60	15.000	100	17.5
Support	SA-516 Gr. 60	15.000	100	17.5
Flange	SA-516 Gr. 60	15.000	100	17.5
Weld	SA-516 Gr. 60	15.000	100	17.5
Reinforcement	SA-516 Gr. 60	15.000	100	17.5
Stress	SA-516 Gr. 60	15.000	100	17.5
Deflection	SA-516 Gr. 60	15.000	100	17.5
Stability	SA-516 Gr. 60	15.000	100	17.5
Corrosion	SA-516 Gr. 60	15.000	100	17.5
Seismic	SA-516 Gr. 60	15.000	100	17.5
Other	SA-516 Gr. 60	15.000	100	17.5



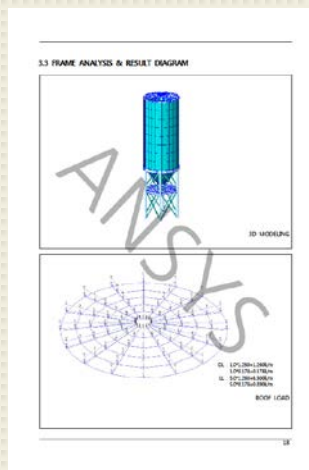
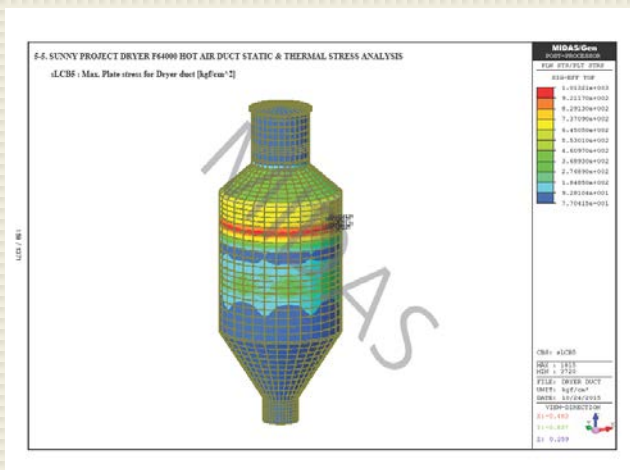
Component	Material	Design Pressure (psia)	Design Temperature (°F)	Design Stress (ksi)
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Flange	SA-516 Gr. 60	15.000	100	17.5
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Reinforcement	SA-516 Gr. 60	15.000	100	17.5
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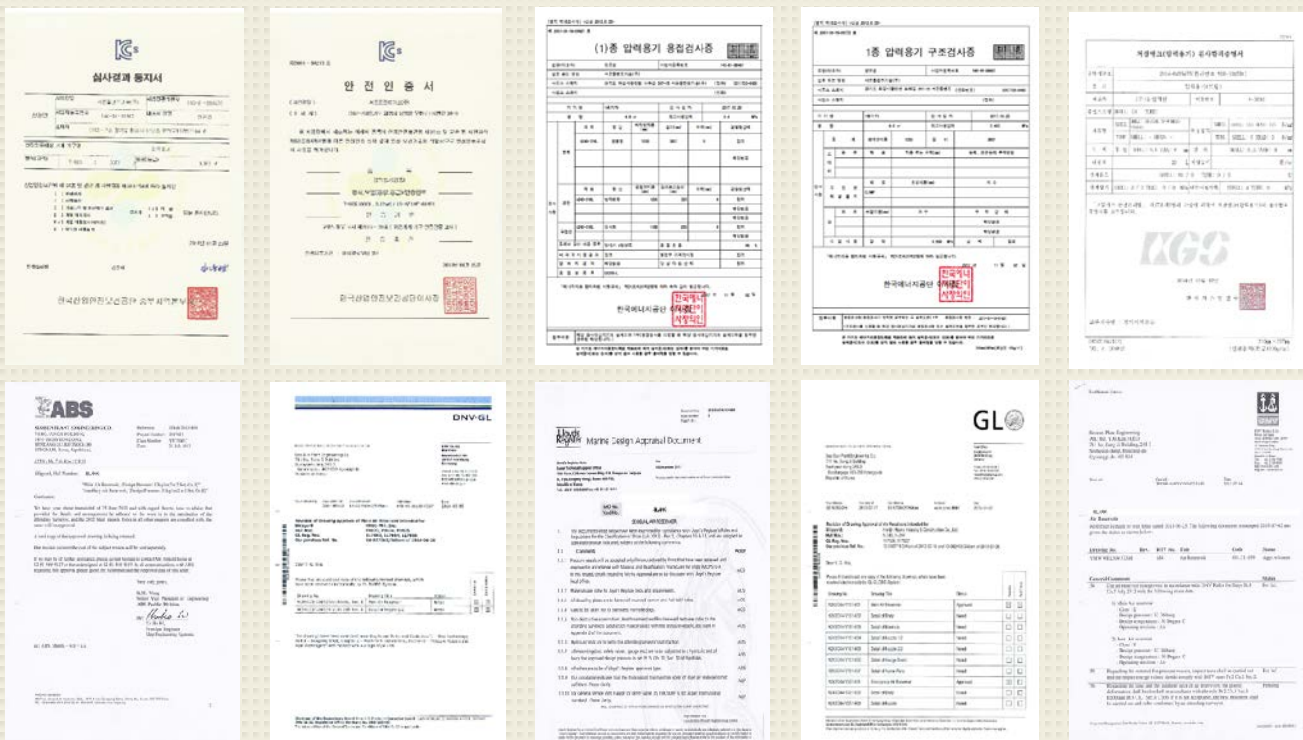
국내외 인증 대행 업무

1-1) 국내외 검사품 / 선급 검사품 등의 인증 흐름 순서

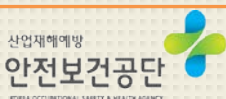
- ① 국내외 법규의 검사품 유무의 판단
- ② 검사품의 국내외 법규 적용하여 도면 및 계산서 등 각종서류 작성
- ③ 신청 및 접수 진행
- ④ 검사담당자와의 미팅 및 대응
- ⑤ 서류 합격까지 책임
- ⑥ 제작검사의 준비사항 및 주의사항 지도 및 전달
- ⑦ 합격 인증서 발행 시까지 책임

* 해외 제조 수입품 인증(국내 수입)의 경우도 모두 처리해 드립니다. *

* 선급 검사품 또한 나라별 선급코드에 맞게 준비하여 모두 처리해 드립니다.*



1-2) 국내외 인증검사 기관



주요 제작 및 시공

1) PILOT PLANT



2) 석유화학 / 정밀화학 / 바이오 / 신소재 / 제약



주요 제작 및 시공

3) TEST BED



주요 제작 및 시공

4) VESSEL / H/EX. / TOWER / REACTOR / DRYER / AUTOCLAVE 등

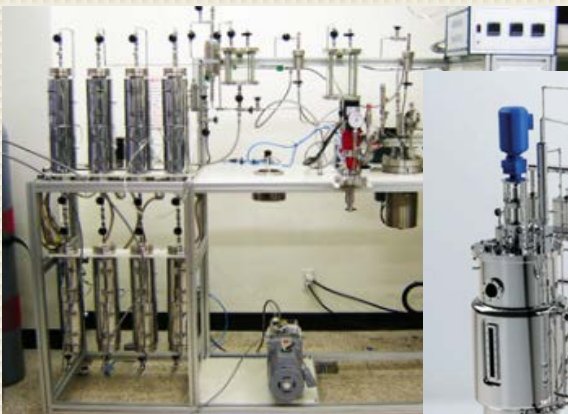


주요 제작 및 시공

5) PIPING / STRUCTURE / ETC.



6) LAB BENCH SCALE SYSTEM



산.학.연.관 프로젝트 주요 관계사



해외

- 미국(Albemarle Corporation, Ross Equip 등)
- 일본(HITACH, TOYO ENG'G, CHISSO ENG'G, BASF, KOBELCO, TOYOBO 등)
- 프랑스 Petron Battan Refinery, 사우디아라비아 SIPCHEM, S.O.C, 카타르 TASSNI
- 오만 Oman Oil Company E&P LLC, SALALAH METHANOL, 벨기에 Solvay

산(産) - 산업분야

- 삼성(중공업, 엔지니어링, 바이오로직스, Electronics 등), 포스코
- LG(케미칼, 엔지니어링, POWER, CONS., Life Science 등)
- SK(이노베이션, 케미컬), KAI, 한화(Tech, 케미컬), 한진중공업, 두산, 한국타이어, 대림산업, 후성
- 한솔케미칼, 휴비스, 덕산, OCI, 다우케미칼, 금호P&B케미칼, , 한일시멘트, 남해화학 등

학(學) - 교육시설

- KAIST(항공우주공학과, 기계공학과), 울산대학교, 전북대학교 등

연(研) - 연구설비

- 한국항공우주연구원, 한국지질자원연구소, 국방과학연구소(엔진시험 설비), 한국기계연구원
- 국립환경과학원, 충북내수면연구소, 한국화학연구원 등

관(官) - 정부 및 군(軍)관련 기관

- 국방부, 한국광물자원공사, 코레일, KT, 창원시
- Holl, 한국남동발전, 한국서부발전, 한국동서발전, 한국수력원자력 등

주요 프로젝트 참여

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 NESPAPER	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 STRUCTURE / 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

주요 프로젝트 참여

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
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 SYSTEM	TOTAL	LG CHEMICAL	KOREA	2000
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 PLAT	VESSEL	DAESUNG SAN SO	KOREA	2001
PET/OFF GAS SCRUBBING SYSTEM	TOWER	SAMNAM	KOREA	2001

주요 프로젝트 참여

NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
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 B2 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
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
CHANSWON CITY HOLL	TOTAL	GOVERNMENT	KOREA	2003
AIR FIN COOLER	COOLER	HYUNDAI OIL	KOREA	2003
BP SHAH DENIZ PROJECT	VESSEL	SOC	SAUDI ARABIAN	2003

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NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
SK 2nd LBO PROJECT	TOTAL	SK CHEMICAL	KOREA	2004
CHANSWON CITY HOLL	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
FLARE STACK	FLARE STACK	JHON ZINK	TAILAND	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 CO.,LTD(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

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NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
GWANGMYEONG DISTRICT HEATING	H/EX.(TWO ZONE)	LG POWER	KOREA	2005
DONGBU H/EX.	H/EX.	DONGBU	KOREA	2005
AN WASTE WATER T-N TREATMENT SYSTEM	TOTAL	TAEKWANG PETRO.	KOREA	2005
FLARE STACK	FLARE STACK	JHON ZINK	TAILAND	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 CO.,LTD(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 1nd LINE TRANSFER PROJECT	PIPING / STRUCTURE / TOTAL EQUIPMENT	KAI	KOREA	2006
FORMSOA NINGBO	FILTER	FORMOSA	TAIWAN	2006
JEBEL ALI POWER AND DESALINATION STATION'L - 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	PETROVIETANA	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

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NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
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
KPA PHENOL PURIFICATION REVAMP PROJECT	REACTOR / VESSEL	KUMHO P&B CHEMICAL	KOREA	2007
P PILOT PROJECT	SPECIAL REACTOR	KCC	KOREA	2007
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

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NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
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 AND POWER 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(국방과학연구소)	KOREA	2009
FAJAR PAPER WASTE INCINERATION PLANT PROJECT	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(국방과학연구소)	KOREA	2010
GYPSUM WATER 2ND SLUDGE PROCESS	TOTAL	NAMHAE CHEMICAL	KOREA	2010
OCMI C PROJECT	ENG'G DWG.	OCI	KOREA	2010
P3.7 PROJECT	TOTAL EQUIPMENT	OCI	KOREA	2010
EA PROJECT	TOTAL EQUIPMENT	SIPCHEM	SAUDI ARABIA	2010
NEOTECHS ROTARY PRESSURE FILTER PILOT PROJECT	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

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NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
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 PLANT	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 FIELD DEVELOPMENT	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

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NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
REACTOR PROJECT	REACTOR	TOYOBO CO., LTD.	JAPAN	2012
MUSANDAM GAS PLANT	VESSEL / FILTER	OMAN OIL COMPANY E&P LLC	OMAN	2012
DONGHAE BIOMASS POWER PLANT	SILO	KOREA EAST-WEST POWER CO.,LTD. (한국동서발전)	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 SYSTEM PROJECT	REACTOR / VESSEL / H/EX.	FTC KOREA CO.,LTD.	KOREA	2013
HYDROMETALLURGY PILOT PLANT BASIC DESIGN	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 (부산항만공사)	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 PROJECT	STRUCTURE	KUWAIT OIL COMPANY (K.S.C.)	KUWAIT	2013

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NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
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, 114, 128, 130, 134s PROJECT (ABS, GL, DNV)	AIR RESERVOIR	HANJIN HEAVY IND.&CON.	PHIL-SUBIC	2014
WATER HEATING SYSTEM PROJECT	REACTOR / H/EX.	HANSEO CHEMICAL CO., LTD.	KOREA	2014
YANBU POWER AND DESALINATION PLANT	SILO / STRUCTURE	SALINE WATER CONVERSION CORPORATION	SAUDI	2014
NTP0137s PROJECT (DNV)	AIR RESERVOIR	HANJIN HEAVY IND.&CON.	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) Co.,Ltd	THAILAND	2014
A1 PROJECT	FILTER	KPX Green Chemical Co.,Ltd.	KOREA	2014
WASTEWATER TREATMENT DRYING FACILITY	DRYER	CHEON-IL CHEMICAL	KOREA	2015
SUPERCONDUCTING FAULT CURRENT LIMITER	VESSEL	KIMM (한국기계연구원)	KOREA	2015
BIOGAS ENERGY PROJECT	VESSEL	UIJEONGBU CITY (의정부시)	KOREA	2015
STEAM GENERATOR PROJECT	HEATER	KEPCO ENG'G&CONST.	KOREA	2015
J-N20 PLANT EXPANSION PROJECT TOTAL EQUIPMENT		WONIK MATERIALS	KOREA	2015

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NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
SRF LN2 SEPARATOR PROJECT	VESSEL (HIGH PRESSURE)	NIER (국립환경과학원)	KOREA	2015
LP&HP HEATER	HEATER (LP&HP)	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
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

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NAME OF PROJECT	DESCRIPTION	CLIENT	SITE	YEAR
C-PURIFICATION SYSTEM	VESSEL / HEX.	DUKSAN UMT	KOREA	2016
HCDS SYNTHESIZER SYSTEM	VESSEL	DUKSAN UMT	KOREA	2016
HIGH EFFICENCY 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 FLUIDIZED BED BOILER FOR PWER 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	충북내수면연구소	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
탈진 폐촉매로부터 희유금속(V,W)회수 및 촉매 소재화	PILOT PLANT	KIGAM(한국지질자원연구소)	KOREA	2017
KORENO KT-Z PROJECT	REACTOR / H/EX.	KRICT(한국화학연구원)	KOREA	2017
HASTELLOY REACTOR /H/EX.	REACTOR / H/EX.	CHEMTROS	KOREA	2017
IMPORT OOMMODITY(BIO)	REACTOR	BIOZEEN	INDIA	2017
HCDS EP FACILITIES PROJECT	VESSEL / SYSTEM	DS TECHOPIA	KOREA	2017
REACTOR / CONDENSER	REACTOR / H/EX.	DK PHARM	KOREA	2017



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