



# **PREQUALIFICATION STATEMENT**

(KOREAN VER.)



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## ■ 인증현황



# 인사말



**대표이사**

**김학철**

(주)대경벤드는 1990년 대경금속으로 창립하여 화학공업, 원자력발전 LPG플랜트와 건축, 선박등의 구조물에 사용되는 스테인레스용접식 관이음쇠 전문생산업체로서 두바이, 말레이시아, 싱가포르에서부터 LG, 삼성, SK, 현대 등 국내외 유수의 메이저기업들에 납품, 기술 수준과 납기 그리고 고객의 요구를 충족시키기 위해 노력한 대경의 땀방울에 만족하여 단골고객이 되고 있습니다.

대경벤드는 나 하나의 기업이 아닌 우리 모두의 기업이라는 이념으로 임직원 복지를 우선으로 하고 적정 기업이윤을 추구하며 더 나아가서 국가경제에 일익을 담당한다는 자부심으로 사업에 임하고 있습니다.

## 주소 & 연락처

### ◇본사

주소 : 경남 양산시 어실로 115

전화 : 055-364-1800

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### ◇홈페이지

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# 회사연혁

- 1990. 01. 대경금속 설립 (부산시 북구 주례동 890-21)
- 1995. 01. 공장확장 이전 (부산시 사상구 감전동 139-12)
- 1996. 10. TQM도입
- 1997. 01. 품질 분임조 사외등록 (최선:제02-09823호, 한우:제02-09824호)
- 1997. 02. 품질보증 Q 마크 GQ인증
- 1997. 08. KS인증 취득 (KS B 1541, 1543)
- 1998. 11. 우수제품 마크 GQ인증
- 2002. 06. 공장 확장 이전 및 법인 전환
- 2002. 07. KS인증 갱신 및 확대
- 2002. 10. KSA 9001:2001/ISO 9001:2000 획득
- 2003. 01. 우수제품 마크 GQ재인증 (제 기기-113호)
- 2003. 02. KS인증 갱신 및 확대
- 2004. 05. 우수제품 마크 GQ재인증(제 기기-113호)
- 2005. 10. KSA 9001:2001/ISO 9001:2000 갱신
- 2008. 06. 공장 확장 이전 (어곡동)
- 2008. 07. 각종 선급 인증 (BV/KR/ABS/DNV/RINA/LR)
- 2008. 10. KSA ISO 9001:2007 / ISO 9001:2000 갱신
- 2008. 12. KS 인증 재취득(KS B 1541, 1543)
- 2009. 02. 신 JIS취득(JIS B 2312/2313)
- 2010. 01. KR선급 품질보증제도승인 인증 취득
- 2010. 05. ASME NPT 취득



# 회사연혁

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- 2011. 01. KEPIC 인증 취득
- 2011. 07. KSA ISO 9001:2009/ISO 9001:2008 갱신  
KSA ISO 14001:2009/ISO 14001:2004 취득
- 2011. 11. KC 위생안전기준인증 취득(KS B 1541, 1543)
- 2013. 03. KR선급 품질보증제도승인 인증 갱신
- 2013. 05. KR선급 형식승인 인증 갱신
- 2013. 07. KSA ISO 14001:2009/ISO 14001:2004 갱신
- 2013. 08. 신 JIS 취득(JIS B 2309)
- 2013. 09. 제조법 승인 RINA 선급 취득
- 2013. 10. PED 97/23/EC 취득
- 2014. 01. ASME NPT 재취득
- 2014. 07. 삼성중공업 협력회사 등록
- 2014. 10. K-OHSMS 18001:2007 인증취득(KSA)
- 2014. 10. LR WPS/PQR/WPQ 인증 취득
- 2016. 06. 공장 확장 이전 (유산동)



# 자본금 & 사업장

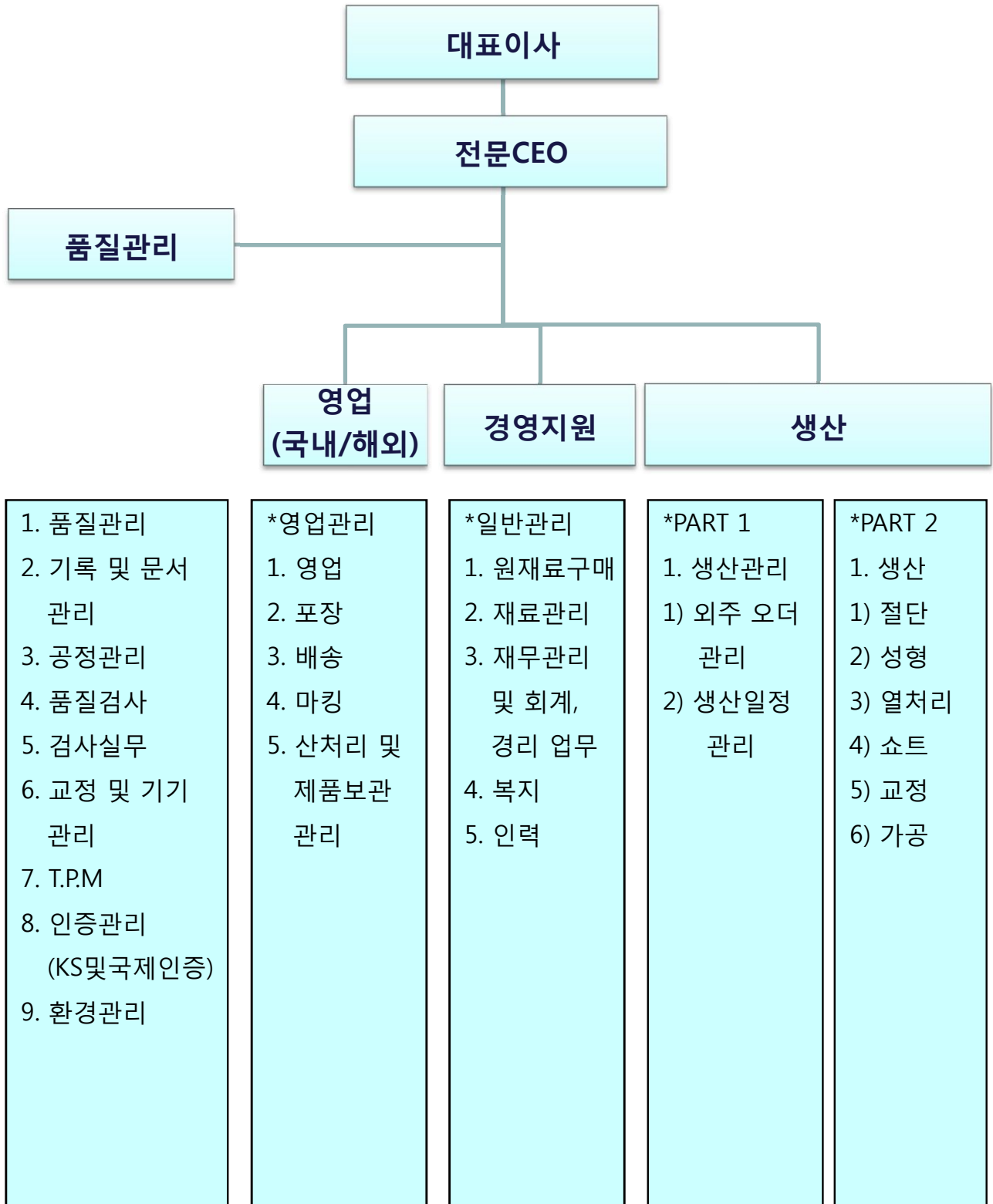
납입 자본금 : 700 백만원

## 본사

- 경남 양산시 어실로 115
- 대지면적 : 33,887m<sup>2</sup>
- 건축면적 : 28,158m<sup>2</sup>
- 종업원 : 83명



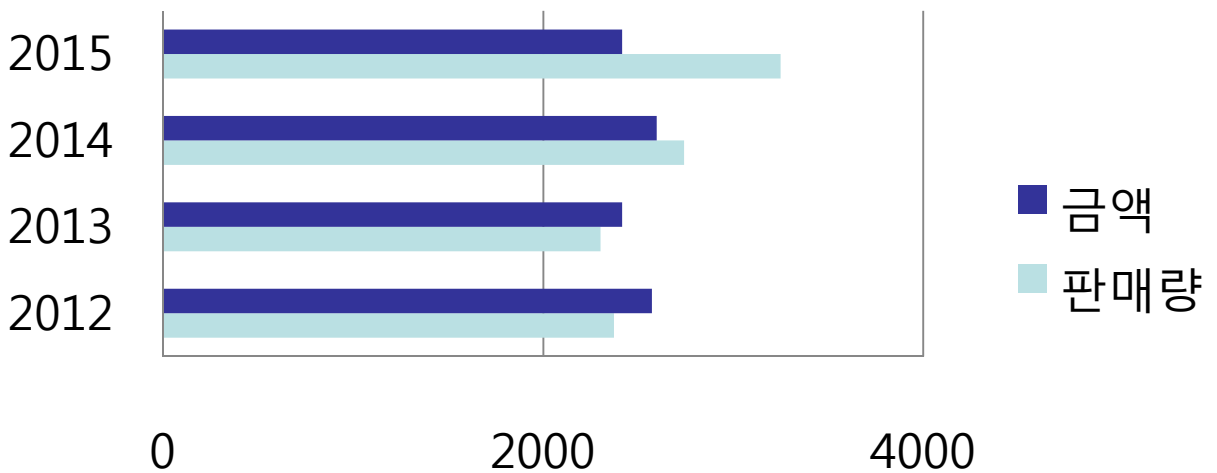
# 조직도



# 판매현황

연도	판매량 (TON)	금액 (천만원)
2012	2372	2571.3
2013	2303	2416.8
2014	2741	2597.1
2015	3250	2415.3

## 대경벤드 판매현황





# 납품실적(국내 주요PJT)

PROJECT	CLIENT	DESCRIPTION	YEAR
High Purity Hydrogen Project	삼성 토탈	A403 WP316L	2006
동양 OCI P1~P4 Project	이테크건설	A403 WP304L, WP316L	2009
구의정수센터 재건설 및 고도정수처리시설 공사	대우건설	KS D3576 STS304	2009
신울진원자력 1,2호기	대림산업	A403 WP304, WP316L	2010
KOGAS-삼척LNG생산기지	대림산업/두산중공업	A403 WP304	2011
호남미쓰이화학 3PZ Project	이테크건설	A403 WP304	2011
동서석유화학 TS7000 Project	대림산업	A403 WP304, WP316L	2011
금호P&B BPA IV 증설 Project	대림산업	A403 WP316L	2011
KOGAS-평택LNG생산기지	대우건설	A403 WP304	2011
HKS PS-2 Project	한국실리콘	KS D3576 STS304, A403 WP304	2011
동서석유화학 TS7000 NO.4 AN Project	이테크건설	A403 WP304, WP316L	2011
휴켄스-#5 NA Project	한화건설	A403 WP316L	2011
포스코 광양 SNG Project	POSCO E&C	A403 WP316L	2012
SK 인천 V-Project	SK건설	A403 WP304L	2012



# 납품실적(내수)

PROJECT	CLIENT	DESCRIPTION	YEAR
고덕그린에너지연료전지 발전시설	SK건설	KS D3576 STS304	2014
구의정수장	대우건설	KS D3576 STS316L	2014
당진화력발전소 9,10호기	대림산업	A403 WP304	2014
동두천복합화력 발전소(LNG)	삼성물산	A403 WP316L	2014
동해북평화력발전소	STX중공업	A403 WP304	2014
삼척그린파워 1,2호기	GS건설	A403 WP304	2014
삼척LNG	한화건설	A403 WP304	2014
신보령화력발전소 1,2호기	두산중공업	A403 WP304, WP316L, A815 S31803	2014
신울진 1,2호기 폐수처리시설	대림산업	A403 WP304	2014
신한울#1 WBPP PACKAGE PJT	SK건설	A403 WP316L	2014
안산복합화력발전소	포스코건설	A403 WP304, WP316L	2014
인천영흥화력발전소 5호기	두산중공업	A403 WP304, WP316L	2014
태안IGCC	두산중공업	A403 WP304L	2014
태안복합화력발전소 9,10호기	대림산업	A403 WP304	2014
평택복합화력 2단계	대우건설	A403 WP316L	2014
광양SNG PJT	포스코건설	A403 WP304/L, WP316L	2014
이천 SK하이닉스 M14건설 PJT	SK건설	KS D3576 STS304	2014
SK V PJT	SK건설	A403 WP304L	2014
롯데케미칼 EC PJT 3차	롯데건설	A403 WP304	2014
새만금집단에너지	두산중공업	A403 WP304	2014
인천송도하수처리장	삼호종합건설	KS D3576 STS304	2014
침상 코크스 공장 PJT	포스코건설	A403 WP304	2014
탕정 SMD-Y (A3) LINE PJT	삼성엔지니어링	A403 WP304	2014
SHIPBUILD & OFFSHORE	삼성중공업	A403 WP304, WP316L KS D3576 STS304, 316L	2014



# 납품실적(내수)

PROJECT	CLIENT	DESCRIPTION	YEAR
당진복합화력발전소	GS건설	A234 WPB	2015
포천 IPP	대림건설	A234 WPC, WP12, WP2	2015
SHIPBUILD & OFFSHORE	DSME, STX, HHI, HMD	A420 WPL6	2015
Edison II Project	삼성엔지니어링	KS D3576 STS304	2015
SK HYNIX I-PROJECT	SK건설	A403 WP304	2015
광양SNG PJT	포스코건설	A403 WP304/L, WP316L	2015
군산 도레이(TORAY) PPS PLANT	SC엔지니어링	JIS B 2312 SUS304, SUS316L	2015
금호석유화학 CHP-S1 PJT	삼성물산	A403 WP304	2015
당진화력발전소 9,10호기	현대건설	A403 WP304	2015
북평화력발전소	STX중공업	A403 WP304L	2015
삼척LNG 생산기지	(주)한양	A403 WP304	2015
삼척그린파워	GS건설	A403 WP304	2015
신보령#1,2폐수처리설비	두산중공업	A403 WP304, WP316L	2015
신한울#1,2	SK건설	A403 WP304/L	2015
여수 KAK PJT	SC엔지니어링	A403 WP304, KS D3576 STS 304, STS316L	2015
이천SK하이닉스 M14-PJT	SK건설	KS D3576 STS304	2015
장문CCPP PJT	SK건설	A403 WP304	2015
탕정A3 15k Hook up	삼성엔지니어링	KS D3576 STS304	2015
탕정LCD밸리 4차	삼성물산	KS D3576 STS304	2015
탕정 공업용수 배수관로 이중화	삼성엔지니어링	KS D3576 STS304	2015
태안복합화력 9,10호기	SK건설	A403 WP304	2015
하동화력CCS	KC코트렐	A403 WP316L	2015
SHIPBUILD & OFFSHORE	삼성중공업	A403 WP304, WP316L KS D3576 STS304, 316L	2015



# 납품실적(해외PJT)

PROJECT	CLIENT	DESCRIPTION	CONTRY
Ethane Cracer Project	PTT Polyethylene Company Limited(PTTPE)	WPB, WPL6, A403 WP304	Thailand
Barakah Nuclear Power Plant(BNPP) Project	UAE ENEC	A403 316L, A234 WPB	UAE
EPC for Spiking Gas Compressor at SHAH CDS(ADCO Project NO.P90174)	Abu Dhabi Company for Onshore Oil Operations(ADCO) / Punj Lloyd	A403 WP304, WP316L	UAE
Guara-Petrobras FPSO Cidade de Sao Paulo MV-23 Project	Aibel Limited	A403 WP316L	Brazil
JRU Project	Aibel Limited	A403 WP316L	Thailand
OSX 3 FPSO	Aibel Limited	A403 WP316L	Thailand
Tupi Project	Aibel Limited	A403 WP316L, A815 S31803	Brazil
AYT Project	Ajinomoto Co.,Ltd	JIS B2313 SUS304, 316L	Thailand
Boi Project	Ajinomoto Co.,Ltd	JIS B2313 SUS304	Thailand
N4C, N5C of TNE3A Project	Ajinomoto Co.,Ltd	JIS B2313 SUS304L, 316L, 10K, JIS B2220 SUS304	Malaysia
IRAN-II PTA DBN Project	Arabian Industrial Fibers Company (IBN-RUSHD)	A403 WP304, WP316L	Iran
Zamzama Phase 1 Development	BHP Billiton Petroleum	A815 S31803	Pakistan
Macedon Gas Project	BHP Billiton Petroleum Pty Ltd / Technip	A403 WP304, WP316L	Australia
Bid Boland-II Gas Treating Plant Project	Bid Boland & Sepehr Co(BBSC)	A403 WP304, WP316L	Iran
Bien Dong 1 Project(Offshore Facilities)	Bien Dong Petroleum Operating Company	A403 WP316L	Vietnam
BLNG TANK T-4106 EPC Project	Brunei LNG Sdn Bhd(TKK)	A403 WP304, WP316L	Brunei
JDA Block B-17 Project - Phase 2 Development.	Carigali-PTTEPI Operation Company Sdn Bhd (CPOC)	A403 WP304L, WP316L	Thailand/Malaysia
Booster Comperession Project	Carigari Hess Operating Co Sdn Bhd	A815 S31803	Malaysia
Sand Management Project	Carigari Hess Operating Co Sdn Bhd	A403 WP316/L, A815 S31803	Malaysia
GORGON Gas Project , Barrow island LNG Plant	Chevron Australia Pty Ltd(CAPL)	A815 S31803	Australia
Singapore Expansion Project	Chevron Oronite Pte Ltd	A403 WP304	Singapore
Jordan Research & Training Reactor(JRTR)	DAEWOO Engineering & Construction	A403 WP316/L	Jordan
Raicing Factory	Daewoo Industry	A403 WP316L	Brazil



# 납품실적(해외PJT)

PROJECT	CLIENT	DESCRIPTION	CONTRY
Suriya B Development Project	Dialog Otec Sdn Bhd	A815 S31803	Malaysia
Newfield Gas Mru Unit Project	Dialog PLNT Services Sdn Bhd	A815 S31803	Malaysia
Macedon Gas Project	Edgen Murray / Thai Nippon Steel	A403 WP316/L, A815 S31803	Australia
Chana Combined Cycle Power Plant Block 2 / Train 1&2	Electricity Generating Authority of Thiland	A403 WP304L	Thailand
Wang Noi CCGP Block 4	Electricity Generating Authority of Thiland	A403 WP304L	Thailand
Topis R Topside	Exxon Mobile Exploration & Production Malaysia Inc	A815 S31803	Malaysia
Sakhalin 1 Project	Exxon Neftegas Limited(ENL)-Subsidiary of ExxonMobil	A403 WP304, WP316L	Russia
Upstream Project(MPDS)	ExxonMobil Exploration & Production Malaysia Inc	A403 WP304, WP316L	Malaysia
Foster Wheeler Project	Foster Wheeler E&C Sdn Bhd	A403 WP321, A403 WP316	Malaysia
PSR-2 Revamp Project	Foster Wheeler Energy Limited(FWEL)	A403 WP321, WP304L, WP304H	Malaysia
Ribigh Development Project	Foster Wheeler Energy Limited(FWEL)	A403 WP316, WP304L	SaudiArabia
TPO Project	Foster Wheeler Energy Limited(FWEL)	A403 WP304	Thailand
Amonia and Urea Plant in MARY	Genoyer(KAWASAKI Plant System)	A403 WP304, WP316L	
HYNIX	HYNIX	A403 WP316L	China
PUSRI-II B Project	Indonesia, Palembang	A403 WP304/L	Indonesia
Ichthys Gas Field Development Project, Offshore Facilities Feed	Inpex Browse Ltd	A403 WP304, WP316L	Australia
Block 06.1 Phase III Lan Do Development Project	INTEC SEA-Worley Parsons Group	A403 WP304, WP316L	Vietnam
Nestor Oil Tuas Power Scop Project	Jacobs Engineering Singapore Pte Ltd	A403 WP316L	Singapore
NoiBai International Airport Terminal 2 Construction Project	JFE Engineering Corporation	A403 WP304, WP316L	Vietnam
Samco Jubail AcryLIC Acid Complex -K1005052	KNM	A403 WP304, WP316L	SaudiArabia
LPG 4 - MAA Project	Kuwait National Petroleum Company(KNPC)	A403 WP316L	Kuwait
Middle East Southeast Asia	Kuwait National Petroleum Company(KNPC)	A403 WP321, WP304, WP316L	Malaysia
Floating Feed Desliming Project	Lane Xang Minerals Limited(LXML)	A403 WP304, WP316L	



# 납품실적(해외PJT)

PROJECT	CLIENT	DESCRIPTION	CONTRY
BTR Singapore Project	Lanxess Butyl Pte Ltd	A403 WP304, WP316L	Singapore
BE & BG Platform	Maersk Oil Qatar(MOQ)	A403 WP316L	Malaysia
MOQ 16	Maersk Oil Qatar(MOQ)	A403 WP316L	Malaysia
VRL PROJECT	Malaysia LNG Sdn Bhd(MLNG)	A403 WP304L	Malaysia
Gumusut-Kakap Topsides	Malaysia Marine and Heavy Engineering (MMHE)	A403 WP304, WP316L	Malaysia
Maintenance	Malaysian Refining Company Sdn Bhd	A403 WP321	Malaysia
MOC Project	Map Ta Phut Olefins Co., Ltd(MOC)	A403 WP304	Thailand
Brine Line Replacement Project	Mighty River Power Limited(MRP)	A403 WP304, WP316L	
Sohar Fertiliser Project	Mitsubishi Heavy Industries	A403 WP316L	Omen
Petrobras FPSO Cidade de Sao Paulo MV-23	Mitsui Ocean Development & Engineering Company (MODEC)	A403 WP304, WP316L	
Borf Centrifugal Compressor Project	Muppy Sarawak Oil Co.,Ltd	A403 WP316L, A815 S31803	Malaysia
NIOEC Project	National Iranian Oil Engineering & Construction Company	A403 WP304, WP316L	Iran
SAWAN Gas Field Development Porject	OMV(Pakistan) Exploration Gmbh	A403 WP316L	Pakistan
Telok Gas Field Project	Pantech	A403 WP316L	Malaysia
RPLC Deep Conversion Project	PDVSA	A403 WP304, WP316L	Venezuela
Jambi Merang Development Project	Pertamina - Hess / PT Tripatra	A403 WP304, WP316L, A182 F51, A815 S31803	Indonesia
Minas Surfactant Project	Petresco Process Systems Cameron	A403 WP304, WP316	Jakarta
NF3 Plant of BIPC	Petrochemical Industries Development	A182 F316	Iran
Betara Complex Development Project	Petro-China International Jabung Ltd	A403 WP304	Indonesia
Kharyaga Phase III Project	Petrofac	A403 WP304, WP316L	Russia
Refinery Master Plan 2(RMP-2) Project	Petron Corporation(Philippines)	A403 WP304, WP316L	Philippines
Petronas Lng Train 9 Project	Petronas	A403 WP304, WP316L	
PFLNG EPCIC Project	Petronas	A403 WP304	



# 납품실적(해외PJT)

PROJECT	CLIENT	DESCRIPTION	CONTRY
Plant Rejuvenation & Revamp 2 Project	Petronas	A403 WP316L	Malaysia
Turkmenistan block-1 Project	Petronas Carigali (Turkmenistan) SDN BHD.	A403 WP304, WP316L	Turkmenistan
Yetagun Phase 4 Development Project	Petronas Carigali Myanmar (Hong Kong) Limited	A403 WP304, WP316L	Myanmar
Kumang Cluster Development Project	Petronas Carigali Sdn Bhd	A403 WP316L	Malaysia
Sabah Oil and Gas Terminal Project	Petronas Carigali Sdn Bhd	A403 WP321	Malaysia
Petronet 2.5 MMTA LNG Receiving Terminal Project	Petronet Lng Ltd(PLL)	A403 WP304, WP316L	Indonesia
HSD/HST Chemical & Methanol Injection Pumps Skid	PetroVietnam Gas Corporation	A182 F316/L	Vietnam
South Sumatra NGL Project	PT E1 - Pertamina / PT Tripatra	A403 WP304	Indonesia
Ammonium Nitrate Prill Plant Project	PT Kaltim Nitrate Indonesia(KNI)	A403 WP304, WP316, A815 S31803	Jakarta
Jambi Merang Development Gas Production Facilities	PT Tripatra-Jambi Merang	A403 WP304, WP316L	Indonesia
Grissik-Pagardewa Pipt Line Project	PT. Perusahaan Gas Negara Tbk(PT. PGN)	A403 WP304S	Indonesia
ROPP Project	PT. Rekayasa Industri	A182 F304, A403 WP304	Indonesia
Banyu Urip Project	PT. Worley parsons Indonesia	A403 WP304, WP316L	Indonesia
PPCL BPA Project(BOI Project)	PTT Phenol Co., Ltd	A403 WP304, WP304L	Thailand
LDPE Plant Project	PTT Polyethylene Company Limited(PTTPE)	A403 WP304	Thailand
PPCL BPA Project	PTT Polyethylene Company Limited(PTTPE)	A403 WP304	Thailand
Platform Compression Facilities Project	Punj Lloyd Group Joint Venture	A403 WP316L	Malaysia
EPIC for Gas Sweetening Facilities Project	Qatar Petroleum / Petrofac	A403 WP304, WP316L	Qatar
Rasgas Long Term EPCM Services Contract Project	Rasgas Company Limited	A403 WP304, WP316L	Qatar
PG Tank and Distributer Project	Rayong Terminal Company Limited(RTC)	A403 WP304, WP316L	Thailand
ABS Cert. SSK H785 LPGC.	Sasebo Shipbuilding(Nippon)	A403 WP304, WP316L	
AR Razi Plant V Project	Saudi Methanol Company	A403 WP304	SaudiArabia
FPSO / Siakap North Petai Development EPCIC	SBM Offshore / Murphy Sabah Oil	A403 WP304, WP316L	Malaysia



# 납품실적(해외PJT)

PROJECT	CLIENT	DESCRIPTION	CONTRY
Corporate Engineering Standard Project	SBM Production Contractors	A403 WP304, WP316L	
MESC Spec	Shell	A403 WP304	
Maintenance	Shell Global Solutions International	A815 S31803	Malaysia
Shell Project	Shell Global Solutions International	A403 WP304L, WP316L, A815 S31803	Malaysia
SMDS Jetty Upgrade Phase 1	Shell MDS	A182 F321, A403 WP321	Malaysia
D12 Field Development	Shell Sarawak	A403 WP316L, A815 S31803	Malaysia
Choryo	Sumitomo	A403 WP316L	Japan
Northern Field Bunga Orkid Development Project	Talisman Malaysia Limited	A403 WP304, 316L	
PVC 9 Project	Thai Plastic and Chemicals Public Co.,Ltd	A403 WP304, WP316L	Thailand
HST Full field Development & HSD Early Production System Development Project	Thang Long Joint Operating Company / Petro Vietnam Technical Services Corporation	A182 F316L, A403 WP304	Vietnam
Waste Water Treatment Plant Project (WWTPP)	The Bahrain Petroleum Company(BAPCO)	A403 WP304, 316L	
Petronet LNG Ahej Expansion Project	Toyo Engineering Corporation	A403 WP304	India
Carigali Hess MRU Project	Tuah Nusa Sdn Bhd	A403 WP316L	Malaysia
Melaka Refinery PSR2 Revamp Project	Tuah Nusa Sdn Bhd	A403 WP316L, WP321, WP304L	Malaysia
PCTSB Turkmenistan, West Diyarbekir Project	Tuah Nusp(MMHE)	A403 WP304, 316L	Turkmenistan
DBN3 Project	UBE Chemicals Public Company	A403 316L	Malaysia
Abadan Refinery Cooling Water System Project	Unknown	A403 WP304, 316L	Iran
Asturi Metal Builders(M) Sdn Bhd	Unknown	A403 WP316L	Malaysia
CGC & RD Project	Unknown	A403 WP304	Malaysia
GS EP PVV 619	Unknown	A403 WP304, WP316L, A815 S31803	Malaysia
JG Summit PE Capacity Expansion Project	Unknown	A403 WP304	Philippines
Mep Project	Unknown	A403 WP304, WP304L	Malaysia
Mingbo LNG Project	Unknown	A403 WP316L	China





# 납품실적(해외PJT)

PROJECT	CLIENT	DESCRIPTION	CONTRY
MT1 & HT1 Project	Unknown	A815 S31803	Vietnam
PNG LNG Epc4(Fuel Gas Conditioning System)	Unknown	A182 F316L	Singapore
PT Profab Indonesia	Unknown	A182 F316L	Indonesia
SBM OXS2 Topside	Unknown	A403 WP316L, A815 S31803	Singapore
Tupi 3 Project	Unknown	A403 WP316L, A815 S32750	Singapore
Vietnam Oil	Unknown	A403 WP316L, A106-B	Vietnam
Bien Dong 1 Project	Worley Parsons Petro Vietnam Engineering	A815 S31803	Vietnam
QCLNG Upstream Project	Worley Parsons Resources & Energy	A403 WP304L	Australia
YANSAB U & O Project	Yanbu National Petrochemical company	A182 F304, A403 WP304	SaudiArabia
BNPP #3, 4	Emirate Nuclear Energy Corporation(ENEC)	A403 WP304, WP304L	UAE
CSP Cokes Plant	Companhia Siderurgica do Pecem	A403 WP304, 316L	Brazil
Oman Barka #1,2 Waste Water	Sohar Power Company SAOC	A403 WP316L,304L	Oman
BESAR PJT	Petronas Carigali SDN.BHD	A815 S31803, S32750	Malaysia
BOD Flowline Headers Extension PJT	Taliaman	A815 S31803	Malaysia
Booster Comperession PJT	Carigali Hess Operating Company SDN.BHD	A815 S31803/S32205	Malaysia
GTPOGT PJT	Petronas Carigari Sdn.Bhd.	A403 WP316L	Turkmenistan
Jijel & Biskra Mega CCPP Plant	Sonelgaz SPE	A403 WP304, 316L	Algeria
NOV PJT STV-Closed Drain Skid	None	A403 WP316L	Vietnam
NSRP PJT-Thanh Hoa Refinery	NSRP LLC	A403 WP304, 316L	Vietnam
PTT Phenol Train II Project	PTT GC	A403 WP304L, 316L	Thailand
S1EX17 & S1EX19 PJT	MES Mitr Project Services Co., Ltd.	A182 F304	Thailand
SHELL Malikai EPC TLP PJT	Petronas	A182 F316/L, A815 S31803	Malaysia
SHELL PJT	Shell Global Solutions	A403 WP316/L, A815 S31803	Malaysia



# 납품실적(해외PJT)

PROJECT	CLIENT	DESCRIPTION	CONTRY
SM200 PJT-Coal fired Power Plant	Conal Holdings Corporation	A403 WP304, 316L	Philippines
STV-CIS PJT	None	A403 WP316L	Vietnam
Yanbu 3 Steam Surface Condenser	Saline Water Conversion Corporation(SWCC)	A403 WP304	SaudiArabia
Morocco ODI	Office Chérifien des Phosphates(OCP)	A403 WP904L	Morocco
Saudi QIPP PJT	Saudi Electricity Co(SEC)	A403 WP304	SaudiArabia
Cochrane-Coal Fired Power Plant	AES Gener	A403 WP304	Chile
<b>【 2015년 납품실적(해외 PJT) 】</b>			
Carboxylate PJT	Foster Wheeler	A403 WP304L, WP316/L A815 S31803	Singapore
CJ C2 PJT	CJ ENC	KS B2313 STS304	Malaysia
FPSO Layang PJT	JX Nippon Oil & Gas Exploration Limited	ASTM A403 WP316/L ASTM A815 S31803	Malaysia
Helwan South Power Project	Upper Egypt Electricity Production Company	ASTM A403 WP304	Egypt
Hess Remote WHP North Malay Basin Development PJT	HESS	A815 S31803, S32760	Malaysia
High-Tan PJT	PTTGC	A403 WP316L	Thailand
Jangkrik Complex PJT	ENI Muara Bakau B.V	ASTM A403 WP316/L ASTM A815 S31803	Indonesia
JDA Block B-17&B17-01 Wellhead Platforms & Pipeline Phase-3	Carigali-PTTEPI Operation Company Sdn Bhd (CPOC)	A815 S31803	Malaysia
Jeddah South Thermal Power Plant	Saudi Electricity Co(SEC)	ASTM A403 WP316L	SaudiArabia
Jijel & Biskra Mega CCPP Plant	Sonelgaz SPE	A403 WP304	Algeria
Kirikkale IPP PJT_CTCS	ACWA Power International	ASTM A403 WP316L	Turky
KOC Project	Kuwait Oil Company.	ASTM A403 WP304	Kuwait
Lanxess PBR NdBR Singapore PJT	Foster Wheeler	A403 WP304L, WP316L	Singapore
Morocco ODI	Office Chérifien des Phosphates(OCP)	A403 WP904L	Morocco
NSRP Complex Project	NSRP LLC	ASTM A403 WP316/L, ASTM A815 S31803	Vietnam
Pagbilao 420MW CFPP Unit 3 Expansion	Pagbilao Energy Corporation	A815 S31803	Philippine
Phase-VI project PVC-4	N/A	A403 WP304	Malaysia
Produce water treatment process skid	Husky-CNOCC Madura Limited(HCML)	A815 S32750	Malaysia



# 납품실적(해외PJT)

PROJECT	CLIENT	DESCRIPTION	CONTRY
Provision of Front end Engineering Design (feed) and Detailed Design Services (optional) for Besar Development PJT	Petronas caricali SDN., BHD	A815 S31803, S32760	Malaysia
Rabigh II IPP	Mitsubishi Hitachi Power Systems	ASTM A403 WP304	SaudiArabia
SAFI PJT	Huviswater	A815 S32750	Morocco
Samsung Vina Electronics	Samsung Electronics	KS B2313 STS304	Vietnam
Shell PJT	Shell Global Solutions International	A403 WP304L, 316L, A815 S31803, S32205	Malaysia
SOCAR Ammonia and Urea Complex	State Oil Company of Azerbaijan Republic (SOCAR)	ASTM A403 WP304L	Azerbaijan
Trans Thailand Malaysia (TTM) New Incinerator PJT	PTT-Petronas JV CO	A403 WP304L, A182 F304L	Thailand
Turkmenistan Ethane Cracker and PE/PP Plant Project (TACE)	Huviswater	A815 S32750	Turkmenistan
UGCC PJT	Uz-Kor Gas	A403 WP316L	Uzbekistan
USGC PJT	Gulf Coast Partners	ASTM A403 WP304/L, WP316/L	USA
VINH TAN 4 Thermal Power PJT	Vietnam Electricity (EVN)	ASTM A403 WP304	Vietnam
Yamal LNG PJT	Technip France	ASTM A403 WP304L	Russia



# 생산품목

NO	PRODUCTS	TYPE		USING CONDITION	APPROVAL
1	CARBON/ STAINLESS STEEL BUTT- WELDING PIPE FITTINGS	ELBOW	45E(L)	A) INDUSTRIAL PLANT B) SHIPBUILDING CONSTRUCTION C) ON LAND CONSTRUCTION D) PETROCHEMICAL PLANT E) OFFSHORE PLANT F) NUCLEAR POWER PLANT G) POWER PLANT H) LNG GAS TERMINAL	<b>A) PRODUCTS</b> 1)KS B 1541 (JIS B 2312) 2) ASTM A403 3) ASTM A815 4) ASTM B366 <b>B) RAW- MATERIAL</b> 1) KS D 3576 2) KS D 3588 3) KS D 3698 4) KS D 3705 5) ASTM A312 6) ASTM A358 7) ASTM A240 8) ASTM A790 9)NI ALLOY
			90E(L)		
			90E(S)		
		REDUCER	R(C)		
			R(E)		
		TEE	T(S)		
			T(R)		
		CAP			
STUB-END					

NO	PRODUCTS	TYPE		USING CONDITION	APPROVAL
1	CARBON/ STAINLESS STEEL PLATE BUTT- WELDING PIPE FITTINGS	ELBOW	45E(L)	A) INDUSTRIAL PLANT B) SHIPBUILDING CONSTRUCTION C) ON LAND CONSTRUCTION D) PETROCHEMICAL PLANT E) OFFSHORE PLANT F) NUCLEAR POWER PLANT G) POWER PLANT H) LNG GAS TERMINAL	<b>A) PRODUCTS</b> 1)KS B 1543 (JIS B 2313) 2) ASTM A403 3) ASTM A815 4) ASTM B366 <b>B) RAW- MATERIAL</b> 1) KS D 3576 2) KS D 3588 3) KS D 3698 4) KS D 3705 5) ASTM A312 6) ASTM A240 7) ASTM A790
			90E(L)		
			90E(S)		
		REDUCER	R(C)		
			R(E)		
		TEE	T(S)		
			T(R)		
		CAP			
STUB-END					

\*INTRODUCTORY REMARKS

-E(L) : ELBOW LONG  
-E(S) : ELBOW SHORT

-R(C) : CONCENTRIC REDUCER  
-R(E) : ECCENTRIC REDUCER

-T(S) : STRAIGHT TEE  
-T(R) : REDUCING TEE

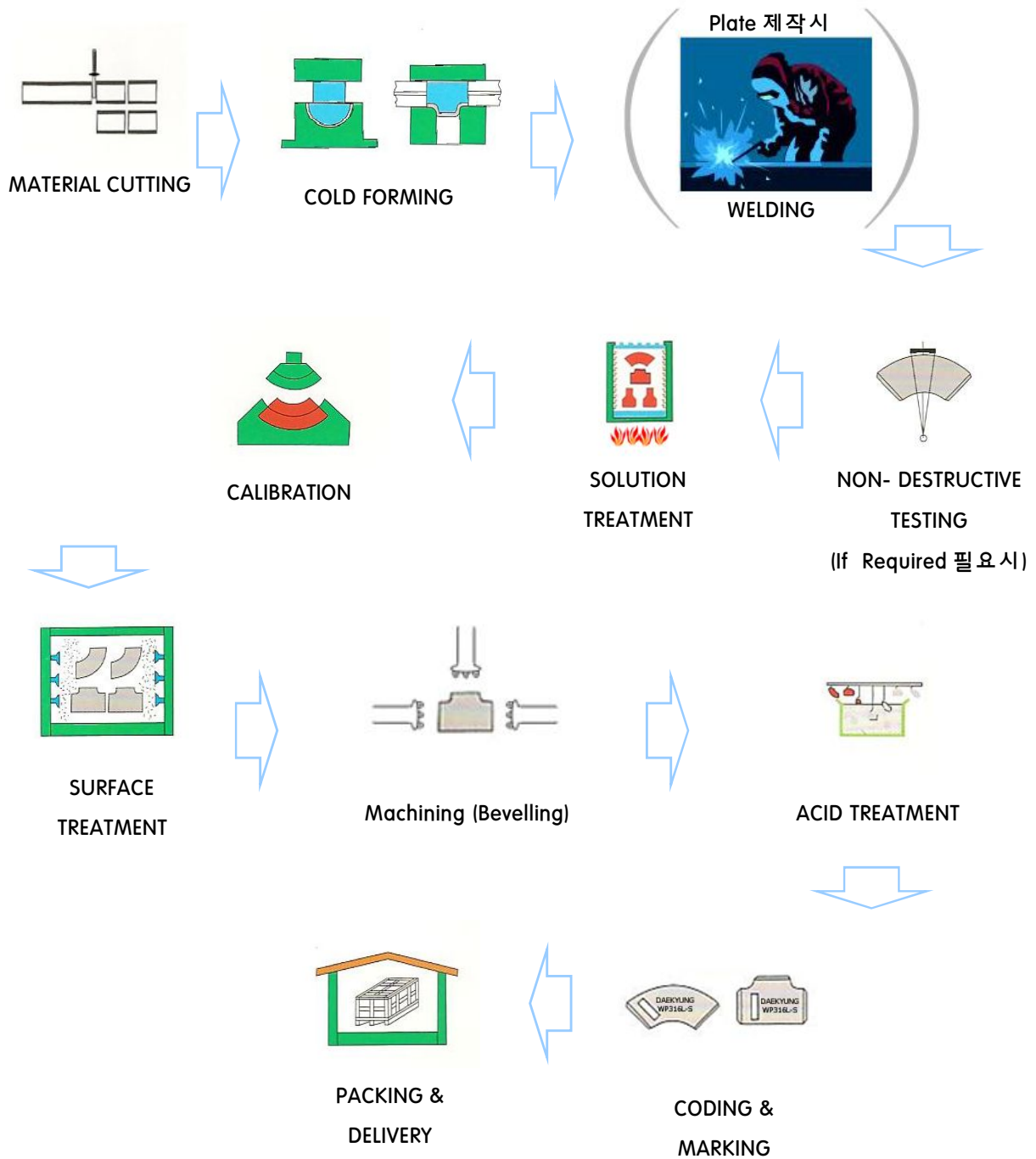


# 제조범위

NO	PRODUCT	RAW MATERIAL (STS 304/304L/316/316L/DUPLEX) (WP 304/304L/316/316L/DUPLEX) (A234 WPB/WPL6/ALLOY)		MANUFACTURING RANGE	
		MATERIAL	TYPE	RANGE	
A	ELBOW 90D, 45D (LONG, SHORT)	PIPE	SEAMLESS	L	15A~500A(1/2"~20")
				S	25A~600A(1"~24")
		PIPE&PLATE	WELD	15A~1200A(1/2"~48")	
B	TEE(S)	PIPE	SEAMLESS	15A~600A(1/2"~24")	
		PIPE&PLATE	WELD	15A~1200A(1/2"~48")	
	TEE(R)	PIPE	SEAMLESS	20X15A~600X550A (3/4"X1/2"~24"X22")	
		PIPE&PLATE	WELD	20X15A~1200X1100A (3/4"X1/2"~48"X44")	
C	REDUCER (CON,ECC)	PIPE	SEAMLESS	20X15A~600X500A (3/4"X1/2"~24"X20")	
		PIPE&PLATE	WELD	20X15A~1200X1100A (3/4"X1/2"~48"X44")	
D	CAP	PLATE	SEAMLESS	15A~1200A(1/2"~48")	
E	STUB-END	STAINLESS STEEL (PIPE+PLATE) WELDING	SEAMLESS	15A~300A(1/2"~12")	
			WELD	15A~1200A(1/2"~48")	



# 제조공정도



# 제조공정도

## MATERIAL CUTTING



## COLD FORMING



# 제조공정도

## TAG WELDING



## WELDING



## NON- DESTRUCTIVE TESTING





# 제조공정도

SOLUTION TREATMENT



CALIBRATION



CALIBRATION



SURFACE TREATMENT



# 제조공정도

## SURFACE TREATMENT

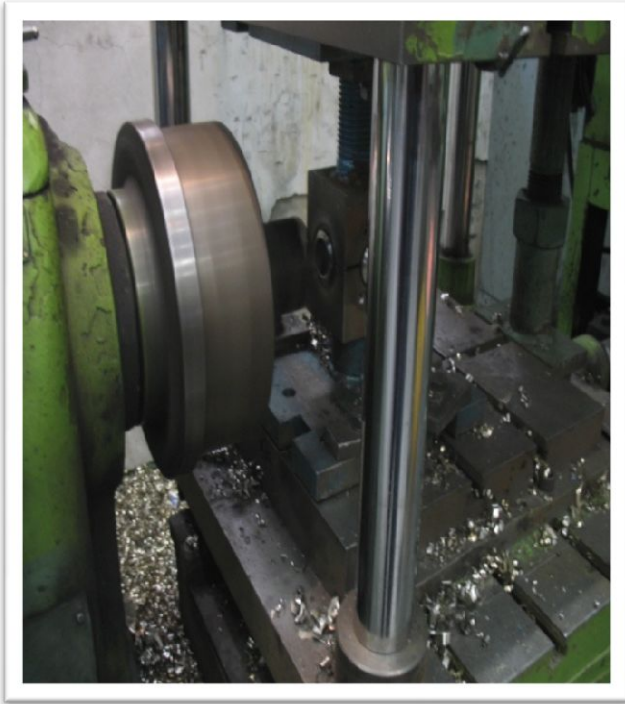


## MACHINING (BEVELLING)



# 제조공정도

**MACHINING (BEVELLING)**



**ACID TREATMENT**



**ACID TREATMENT**



**CODING & MARKING**



# 제조공정도

## PACKING & DELIVERY



# 제조설비 & 능력

NO	구분	명칭	수량	용량
1	절단기	자동톱기계	9	250mm~550mm
		PLASMA절단기	9	120A~160A
2	성형기	유압프레스	15	50Ton~2000Ton
		TEE 성형기	3	600Ton, 1000Ton, 6000Ton
		STUB END 성형기	1	2"~12"
		파워프레스	2	0.5Ton, 1Ton
3	용접기	아크 용접기	3	300A, 500A
		알곤 용접기	2	500A
		CO <sub>2</sub> 용접기	3	500A
4	표면처리기	쇼트기	2	800kg, 1200kg
5	열처리기	열처리로	2	1300 °C
6	가공기	고속선반	4	400X1060, 580X1050, 710X1050, 530X1050
		단면가공기	8	50A, 100A, 200A, 500A, 600A, 1000A, 1200A
		양면가공기	4	100A, 200A, 300A
		삼면가공기	3	150A, 350A
		기계가공기	4	25A, 50A, 100A, 150A
7	기타	밀링	1	370mmX600mm
		탁상드릴링머신	1	600A
		그라인더 커트기	1	16"
		탁상그라인더	1	7", 8"
		핸드그라인더	4	4", 7"
		잉크젯 마킹기	1	¾"~6"
		레이저 마킹기	1	½"~8"
		컴프레샤	2	7.5kW, 37.3kW
		호이스트	10	0.5Ton, 2Ton, 2.8Ton, 5Ton, 10Ton
		지게차	8	1Ton, 1.5Ton, 3Ton
		롤러밴딩기	1	500Φ
		샌딩기	1	5800mmX5400mmX4500mm
		용접봉 예열기	1	400 °C



# 검사 & 시험설비

NO	구분	세부명칭	수량	규격	정밀도	
1	만능재료시험기(UTM)	UNIVERSAL TEST MACHINE	1	0~294.2kn	1kn	
2	경도기	ROCKWELL	1	0~150kgf	1kgf	
		BRINELL	1	0~3000kg	1kg	
3	온도계	열전대식 온도계	1	0~1200°C	1°C	
		적외선 온도계	1	-20°C~315°C	1°C	
		초저온 온도계	1	-300°C~200°C	1°C	
4	측정기	압력계	1	0~4.9MPa	0.1MPa	
			2	0~15MPa	0.1MPa	
			2	0~25MPa	0.1MPa	
			1	0~49.9MPa	0.1MPa	
		내압시험기	1	0~100MPa	1MPa	
5	치수측정기	다이얼게이지	1	0~10mm	0.01mm	
		마이크로메타	1	0~25mm	0.01mm	
		디지털 마이크로메타	1	0~25mm	0.001mm	
		버니어캘리퍼스	3	0~300mm	0.05mm	
			3	0~600mm	0.05mm	
			1	0~1000mm	0.05mm	
		디지털 버니어캘리퍼스	2	0~150mm	0.01mm	
			2	0~200mm	0.01mm	
		두께게이지	1	0~10mm	0.05mm	
		초음파 두께게이지	2	1~225mm	0.1mm	
			1	0.6~500mm	0.01mm	
		높이게이지	3	0~300mm	0.02mm	
			2	0~600mm	0.02mm	
			2	0~1000mm	0.02mm	
		만능 각도기	1	1°~180°	1°	
		베벨각도기	10cm	1	1°~180°	1°
			20cm	1	1°~180°	1°
			30cm	1	1°~180°	0.5°
			100cm	1	1°~180°	0.5°
		디지털 베벨각도기	1	1°~180°	0.1°	
레이저 거리측정기	1	0.05~600mm	1.5mm			
6	화학성분분석설비	PMI	2	Fe Base, Ni Base	0.0001%	
		Portable PMI Tester	2	Ni, Mn, Cr, Ti, Mo, Fe...	0.0001%	
7	석정반	-	1	750X500mm		
8	기 타	클램프메타	1	0~1000A(V)	0.01V	
		충격테스트	1	0~294.2J/(M)	1.0J/(M)	
		전자현미경	1	X40~X400	X5	
		수압테스트기	1	0~40MPa	0.1MPa	
		연마기	1	20~240Mesh	2Mesh	
		리브경도시험기	1	0~900HB	1HB	
		Ferrite Scope	1	0~105% Fe	0.1%	



# 인증현황

인증기관		인증번호	유효기간
한국표준협회장 KS B 1541 / 1543		08-0470 08-0471	2017-05-28
한국표준협회장 JIS B 2312 / 2313		KSKR08139 KSKR08140	2018-03-11
한국표준협회장 KS Q ISO 9001:2009		QMS-1751	2017-07-15
한국표준협회장 KS I ISO 14001:2009		EMS-0934	2019-07-15
한국표준협회장 K-OHSMS 18001:2007/OHSAS 18001:2007		HSS-0146	2017-10-27
한국선급 KR 형식승인인증서		BSN21379-PE001	2018-05-25
American Society of Mechanical Engineers (NPT)		N-4429	2017-01-07
American Society of Mechanical Engineers (NB)		-	2017-01-07
BUREAU VERITAS		SMS.W.II/68935/B.0	2016-06-16
ABS		BK821888-B	-
RINA	Welding Process	N.07/PU/AL/0867-1.ULT.	-
	Manufactures of Materials	FAB129013PU	2018-09-03
Lloyd's Register	Welding PQR	BUS0703492/1	-
	용접절차승인 A240 TYPE 316L 8T, 10T, 25T	BUS1403843/2~10	-
	PED 97/23/EC	0038/PED/MUM/1310009/1	2016-10-27
DNV.GL		WZ 2044 HH 1	2018-07-31
한국상하수도협회 KC 위생안전기준인증서		KCW-2011-0146 KCW-2011-0147	2016-11-19
한국화학융합시험연구원 JIS B 2309		CRKR13006	2016-08-15







출발일: 2014년 11월 14일      출발지: 부산광역시영도구 (49°11'42.100"N, 129°15'00.000"E)

### 위생안전기준 인증서

1. 인증 번호 : KCW-2011-0146
2. 제조 업체명 : (주)대강벤드
3. 대표 자 : 김학배
4. 본 사 주소 : 경남 양산시 아곡동 856-5
5. 공장 소재지 : 경남 양산시 아곡동 856-5
6. 제품 명 : 배관용 관대 및 기계용 관대류
7. 종류, 등급 또는 호칭 : 불기화조
8. 용 도 : 일반수용 관대 및 공구수용관

'수도법, 제14조제1항 및 '수도용 저체적 제형의 위생안전기준 인증 등에 관한 규정, 제8조제1항제 목의 위생안전기준 인증서를 발급합니다.

2011년 11월 14일

한국상하수도협회

출발일: 2014년 11월 14일      출발지: 부산광역시영도구 (49°11'42.100"N, 129°15'00.000"E)

### 위생안전기준 인증서

1. 인증 번호 : KCW-2011-0147
2. 제조 업체명 : (주)대강벤드
3. 대표 자 : 김학배
4. 본 사 주소 : 경남 양산시 아곡동 856-5
5. 공장 소재지 : 경남 양산시 아곡동 856-5
6. 제품 명 : 배관용 관대 및 기계용 관대류
7. 종류, 등급 또는 호칭 : 불기화조
8. 용 도 : 일반수용 관대 및 공구수용관

'수도법, 제14조제1항 및 '수도용 저체적 제형의 위생안전기준 인증 등에 관한 규정, 제8조제1항제 목의 위생안전기준 인증서를 발급합니다.

2011년 11월 14일

한국상하수도협회

Lloyd's Register

### EC CERTIFICATE OF QUALITY SYSTEM APPROVAL

In accordance with the requirements of the Pressure Equipment Directive 97/23/EC and the Pressure Equipment Regulations 1999, UK Statutory Instrument 1999 No. 2001 and 2002 No. 1267

This is to certify that the Quality Management System of:

**Dae Kyung Bend Co., Ltd**  
137, Eogokgongdan-ro, Yangsan-si, Gyeongsangnam-do, South Korea

has been assessed against the requirements of Annex I, paragraph 4.3 of the Pressure Equipment Directive 97/23/EC, and Schedule 1, paragraph 4.3 of the Pressure Equipment Regulations 1999 and conforms to the requirements for the products shown below:

**Manufacture of Steel and Alloy Pipe Fittings**

Approval is subject to the continued maintenance of the quality system in accordance with the requirements of the above Directive and Regulations, and continuing to comply with the surveillance schedule. Products are so listed on the attached schedule.

Certificate No: 0038/PED/MUM/1310009/1  
Original Approval: 28 October 2013  
Current Certificate: 28 October 2013  
Certificate Expiry: 27 October 2016  
LRV Notified Body Number 0038

Raj Kumar on behalf of Lloyd's Register Verification

DNV-GL

### Approval of Material Manufacturers

Zulassung von Werkstoffherstellern

This is to certify that the works of:

**DAE KYUNG BEND CO., LTD**  
YANGSAN, KOREA

has been subjected to an approval test in accordance with GL Rules with satisfactory results and is approved for the manufacture of the following products:

**Pipe Fittings**  
in accordance with the GL-Rules for Metallic Materials, Chapter 2, Section 6 B

This approval is granted provided that all products intended to be used for the construction of ships or installations covered with DNV-GL comply in every respect with GL Rules and Requirements.

Certificate of approval No: WZ 2044 HH 1  
Date of approval: 2015-07-31

DNV GL SE  
Stefan Röhr      Oliver Krömer

CERTIFICATE OF APPROVAL OF MANUFACTURERS OF MATERIALS

No. FAR12903FU

This is to certify that the manufacture of the product identified below is in compliance with the applicable requirements of the RINA Rules for the Approval of Manufacturers of Materials.

Description	Pipes and fittings
Type	Austenitic stainless; steel pipe fittings manufactured from seamless or welded pipes
Manufacturer	DAE KYUNG BEND CO., LTD.
Place of manufacture	137, EOGOK GONGDAN-RO (EOGOK-DONG) YANGSAN-SI, GYEONGSANGNAM-DO, REPUBLIC OF KOREA
Reference standards	RINA Rules for the approval of manufacturers of materials

Issued in Busan on September 30, 2015. This Certificate is valid until September 3, 2018.

RINA Services S.p.A.  
Dong-Han Lee

WELDING PROCESS APPROVAL CERTIFICATE

CERTIFICATO DI APPROVAZIONE DEL PROCEDIMENTO DI SALDATURA

N. 07/PUAL0867-L.U.L.T.

Works Covered: **DAE KYUNG BEND CO., LTD.**

Welding process: **GTAW - FCW**

Procedures to be followed: **GTAW - FCW**

In view of the satisfactory results of the tests carried out, it is hereby certified that the welding process detailed in the welding procedure specification(s) DW-WPS-004 manufactured is approved for welding, under RINA's supervision.

Based on: **Procedure Qualification Record No. DK-PQR-004**

Remark: **None**

The welding process is to be used within the limits and conditions stated in the welding procedure specification(s) and in the RINA rules.

Issued at: **Busan** on **4 June 2007**

Rilasciato a: **Busan**

DONG-HAN LEE, RINA - REGISTRO ITALIANO NAVALE

KR

### TYPE APPROVAL CERTIFICATE

Certificate No. : BSN21379-P001      Initial Approval : 28th May, 2008.

Product : **Pipe Fittings**

Manufacturer : **Dae Kyung Bend Co., Ltd.**  
856-5, Ujuk-dong, Yangsan-city, Kyungnam, Korea

Product Description : **Stainless Steel Pipe & Plate Butt-Welding Pipe Fittings (KS B 1541/1542)**

Approval Condition : Individual Product Certification is required in case of pipes belonging to Class 1 or 2.

THIS IS TO CERTIFY that the above-mentioned product has been approved in accordance with the relevant regulation that the Society's Rules and / or of the recognized standards as follows and entered in the "List of Approved Manufacturers and Type Approval Equipment".

Approval, etc. & KS B 1541/1542. This Certificate is valid until 25th May, 2018. Issued at Busan, Korea on 27th May, 2013.

KOREAN REGISTER OF SHIPPING  
General Manager of Busan Branch Office

MARINE DIVISION

Certificate number: **SNEWJEMR001A**

### RECOGNITION for BV MODE II Survey Scheme

for **DAE KYUNG BEND CO., LTD.**

This is to certify that:

**856-5, Eogok-dong, Yangsan-city, Gyeongsang (KOREA) (REPUBLIC OF K)**

Product range (as detailed in the attached Schedule):

Pipe Fittings in Austenitic Stainless Steels - Seamless and Welded types; Steel grade: 304, 304L, 316 and 316L, (D<sub>o</sub> 1/2" to 36", Wall Thickness - up to 30mm)

is recognized by the Society, as per the provisions of Rule No. NR 230.

The manufacturing and testing facilities, associated procedures and personnel qualifications were found suitable, in the opinion of Bureau Veritas, for the supervision by Bureau Veritas surveys of manufacturing, inspection and testing of above described products in compliance with Bureau Veritas Rules for Classification and the conditions set in the attached schedule of recognition.

The recognition is valid until: **11-06-2012**

For BUREAU VERITAS  
Korea Branch

ABS

### MISCELLANEOUS SURVEY REPORT

Page 1 of 2

Survey Of:	WELDING PROCEDURE QUALIFICATION TEST
Report No:	ABS-2008-0
Date:	10 May 2007
Surveyor's Name:	ABSEPPG05-19006
Manufacturer:	DAEKYUNG BEND CO., LTD.
Location:	Yangsan, KOREA
Material:	Stainless Steel
Welding Process:	GTAW
Welding Position:	3G
Type of Joint:	Groove (Single V)

This is to certify that the undersigned Surveyor in the Bureau conducted the above survey and reports as follows:

The following welding procedure approval tests were carried out in accordance with approved welding procedure specification, examined, tested as required and considered satisfactory.

WPS No: DK-WPS-001  
PQR No: DK-PQR-001  
Welding Process: GTAW-FCW  
Welding Position: 3G  
Type of Joint: Groove (Single V)

File Name: GTAW-Korea-7-2006-1-432 (ANSI A5.9 - 03-09)010

Base Material: ASTM A307 TP304, 1/4" Thick Stainless Steel Plate (25000) 0

Shielding Gas: GTAW with Argon (90% Ar / 10% He) CIG 90/10

Approved Welding Procedure No: GTAW-FCW (DK WPS 001) Dated 16 March 2007

This welding procedure and their supporting PQR to be approved subject to final review of procedure qualification test records by ABS Bureau engineering office.

Jong-Tak Kim, Surveyor, American Bureau of Shipping      Surveyor, American Bureau of Shipping

DET NORSKE VERITAS

DAE KYUNG BEND CO., LTD.

728-6, HAKJANG-DONG, SANGN-GU, PUSAN 615-840 KOREA

Attn.: QC Dept.

Year of: 2007-07-16

Our ref: Ta-Ma-C6200707MN0701305/tyhsh

Date: 2007-07-16

**Approval of Welder/WPS (Dae Kyung Bend Co., Ltd., Pusan, Korea)**

Enclosed please find our invoice no. MKOCR 130 733944 amounting KRW 1,263,900- (including VAT) for Welder Cert. no. WA-07-084, WPS Cert. no. DK-WPS-002.

We kindly ask you to remit the amount to our office in Seoul by using enclosed Giro Paper or pay directly to our Pusan office.

Yours faithfully,  
For: *DNV Korea Ltd.*

D. J. Shin  
District Manager

Enclosure

Welding Procedure Qualification Record (PQR)

Qualification Code/Standard: LR Rule Part 2, Ed 13

WPS Number and Revision: DK-WPS-002 Rev. 0

Date of Issue: 08 Aug 2007

Manufacturer's Name: Dae Kyung Bend Co., Ltd.

Manufacturer's Address: #253, Haebyeong-Dong, Seung-Gu, Busan, Korea

Welding Process: GTAW/CAW

Welding Position: Flat

Welding Backing Material: None

Weld Preparation Details (Sketch):

Base Material, Consumable and Welding Details:

Welding Process	Welding Position	Welding Process
GTAW/CAW	Flat	GTAW/CAW
Welding Position	Flat	Welding Position
Welding Position	Flat	Welding Position

Interpass Temp. Max 120°C

Post-weld heat treatment method and control: None

Other information: None

Top joint detail (Sketch with dimension of weld preparation):

Manufacturer's Preliminary Welding Procedure Specification

Welding Procedure Specification (WPS)

Qualification Code/Standard: LR Rule 2013-A5M6 SEC II

WPS Number and Revision: DK-WPS-002 Rev. 0

Date: 23-OCT-2014

Manufacturer's Name: DAEKYUNG BEND CO., LTD.

Manufacturer's Address: 131, EDONGGONGNAMRO, YANGSAN-SI, GYEONGSANGNAM-DO SOUTH KOREA

Welding Process: GTAW/CAW

Welding Position: Flat

Welding Backing Material: None

Weld Preparation Details (Sketch):

Base Material, Consumable and Welding Details:

Welding Process	Welding Position	Welding Process
GTAW/CAW	Flat	GTAW/CAW
Welding Position	Flat	Welding Position
Welding Position	Flat	Welding Position

Interpass Temp. Max 120°C

Post-weld heat treatment method and control: None

Other information: None

Top joint detail (Sketch with dimension of weld preparation):

Manufacturer's Preliminary Welding Procedure Specification

Welding Procedure Qualification Record (PQR)

Qualification Code/Standard: LR Rule 2013-A5M6 SEC II

WPS Number and Revision: DK-WPS-001 Rev. 0

Date of Issue: 28 August 2014

Manufacturer's Name: DAEKYUNG BEND CO., LTD.

Manufacturer's Address: 131, EDONGGONGNAM-RO, YANGSAN-SI, GYEONGSANGNAM-DO, SOUTH KOREA

Welding Process: GTAW/CAW

Welding Position: Flat

Welding Backing Material: None

Weld Preparation Details (Sketch):

Base Material, Consumable and Welding Details:

Welding Process	Welding Position	Welding Process
GTAW/CAW	Flat	GTAW/CAW
Welding Position	Flat	Welding Position
Welding Position	Flat	Welding Position

Interpass Temp. Max 120°C

Solution Annealing 1500 ± Rapid Cooling of 17 Hour

Post-weld heat treatment method and control: None

Other information: None

Top joint detail (Sketch with dimension of weld preparation):

Manufacturer's Preliminary Welding Procedure Specification

Welder Performance Qualification (WPQ) Certificate

Qualification Code/Standard: LR Rule 2013-A5M6 SEC II

WPS Number and Revision: DK-WPS-001 Rev. 0

Date of Issue: 28 August 2014

Manufacturer's Name: DAEKYUNG BEND CO., LTD.

Manufacturer's Address: 131, EDONGGONGNAM-RO, YANGSAN-SI, GYEONGSANGNAM-DO, SOUTH KOREA

Welding Process: GTAW/CAW

Welding Position: Flat

Welding Backing Material: None

Weld Preparation Details (Sketch):

Base Material, Consumable and Welding Details:

Welding Process	Welding Position	Welding Process
GTAW/CAW	Flat	GTAW/CAW
Welding Position	Flat	Welding Position
Welding Position	Flat	Welding Position

Interpass Temp. Max 120°C

Solution Annealing 1500 ± Rapid Cooling of 17 Hour

Post-weld heat treatment method and control: None

Other information: None

Top joint detail (Sketch with dimension of weld preparation):

Manufacturer's Preliminary Welding Procedure Specification

Welding Procedure Specification (WPS)

Qualification Code/Standard: LR Rule 2013-A5M6 SEC II

WPS Number and Revision: DK-WPS-001 Rev. 0

Date: 23-OCT-2014

Manufacturer's Name: DAEKYUNG BEND CO., LTD.

Manufacturer's Address: 131, EDONGGONGNAMRO, YANGSAN-SI, GYEONGSANGNAM-DO SOUTH KOREA

Welding Process: GTAW/CAW

Welding Position: Flat

Welding Backing Material: None

Weld Preparation Details (Sketch):

Base Material, Consumable and Welding Details:

Welding Process	Welding Position	Welding Process
GTAW/CAW	Flat	GTAW/CAW
Welding Position	Flat	Welding Position
Welding Position	Flat	Welding Position

Interpass Temp. Max 120°C

Post-weld heat treatment method and control: None

Other information: None

Top joint detail (Sketch with dimension of weld preparation):

Manufacturer's Preliminary Welding Procedure Specification

Welding Procedure Qualification Record (PQR)

Qualification Code/Standard: LR Rule 2013-A5M6 SEC II

WPS Number and Revision: DK-WPS-001 Rev. 0

Date of Issue: 28 August 2014

Manufacturer's Name: DAEKYUNG BEND CO., LTD.

Manufacturer's Address: 131, EDONGGONGNAM-RO, YANGSAN-SI, GYEONGSANGNAM-DO, SOUTH KOREA

Welding Process: GTAW/CAW

Welding Position: Flat

Welding Backing Material: None

Weld Preparation Details (Sketch):

Base Material, Consumable and Welding Details:

Welding Process	Welding Position	Welding Process
GTAW/CAW	Flat	GTAW/CAW
Welding Position	Flat	Welding Position
Welding Position	Flat	Welding Position

Interpass Temp. Max 120°C

Solution Annealing 1500 ± Rapid Cooling of 17 Hour

Post-weld heat treatment method and control: None

Other information: None

Top joint detail (Sketch with dimension of weld preparation):

Manufacturer's Preliminary Welding Procedure Specification

Welder Performance Qualification (WPQ) Certificate

Qualification Code/Standard: LR Rule 2013-A5M6 SEC II

WPS Number and Revision: DK-WPS-001 Rev. 0

Date of Issue: 28 August 2014

Manufacturer's Name: DAEKYUNG BEND CO., LTD.

Manufacturer's Address: 131, EDONGGONGNAM-RO, YANGSAN-SI, GYEONGSANGNAM-DO, SOUTH KOREA

Welding Process: GTAW/CAW

Welding Position: Flat

Welding Backing Material: None

Weld Preparation Details (Sketch):

Base Material, Consumable and Welding Details:

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Welding Position	Flat	Welding Position
Welding Position	Flat	Welding Position

Interpass Temp. Max 120°C

Solution Annealing 1500 ± Rapid Cooling of 17 Hour

Post-weld heat treatment method and control: None

Other information: None

Top joint detail (Sketch with dimension of weld preparation):

Manufacturer's Preliminary Welding Procedure Specification

Welding Procedure Specification (WPS)

Qualification Code/Standard: LR Rule 2013-A5M6 SEC II

WPS Number and Revision: DK-WPS-001 Rev. 0

Date: 23-OCT-2014

Manufacturer's Name: DAEKYUNG BEND CO., LTD.

Manufacturer's Address: 131, EDONGGONGNAMRO, YANGSAN-SI, GYEONGSANGNAM-DO SOUTH KOREA

Welding Process: GTAW/CAW

Welding Position: Flat

Welding Backing Material: None

Weld Preparation Details (Sketch):

Base Material, Consumable and Welding Details:

Welding Process	Welding Position	Welding Process
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Welding Position	Flat	Welding Position
Welding Position	Flat	Welding Position

Interpass Temp. Max 120°C

Post-weld heat treatment method and control: None

Other information: None

Top joint detail (Sketch with dimension of weld preparation):

Manufacturer's Preliminary Welding Procedure Specification

