



WOOSUNG FLOWTEC Co., LTD

PRE-QUALIFICATION

THE STRAINER SPECIALTY COMPANY

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2019



Company Profile

01

1. Company Profile

1.1 Greeting in Brief

Since 1989, WOOSUNG FLOWTEC Co.,Ltd has produced all kinds of strainers, filters and customized products and we've done our best to meet customer's needs and satisfactions with three mottos - "Best quality", "Reasonable price", and "On time delivery"

As inexpensive insurance, STRAINERS from WOOSUNG FLOWTEC CO., LTD. have widely applied and utilized in Onshore plant(Oil & Gas industry, Petro-chemistry, Power Plant, Fresh water, unit, etc,) Offshore plant (FPSO, Drill ship, Platform, etc.,)

WOOSUNG FLOWTEC has done our best to globalize by export our products to the world-wide.



Head office & 1st Factory View

2nd Factory View

1. Company Profile

1.2 History in Brief

- 1989 Establishment of “WOOSUNG Precision” by Cho, Youngje(CEO)
- 2002. ISO 9001 Certificate of Registration
- 2003. The Corporation was Changed to WOOSUNG Strainer Company
- 2006. The Corporation was Changed to ‘WOOSUNG FLOWTEC’
- 2006. Head Office Moved to Song Jung-dong Factory
- 2007. API Certificate of Registration
- 2009. CE Certificate of Registration
- 2010. ISO14001:2004 Certificate of Initial Registration
- 2010. OHSAS18001:2007 Certificate of Initial Registration
- 2011. INNO-BIZ Certificate of Registration
- 2013. The name of corporation was changed to ‘WOOSUNG FLOWTEC Co.,Ltd’
- 2014. Company Relocation to Mieum Industrial Area (**Capacity increased 1.5 times**)
- 2014. Establishment of R&D Center
- 2015. Awarded from Ministry of Trade, Industry and Energy
- 2017. UL Certificate of Registration
- 2018. Establishment of TEST SHOP
- 2019. ASME U Stamp Certificate of Registration

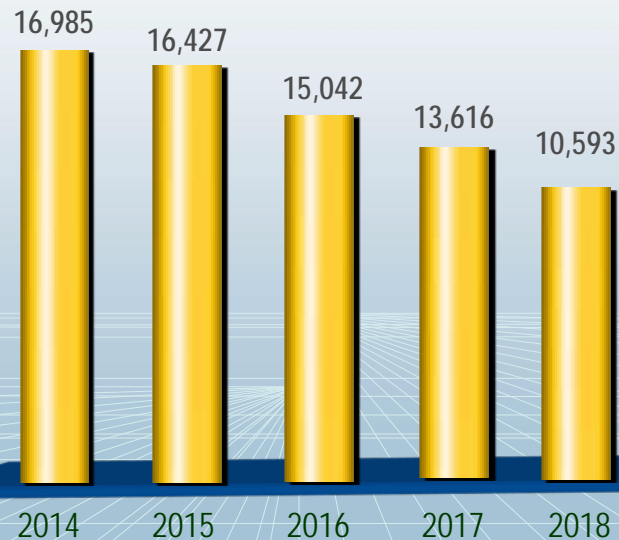


1. Company Profile

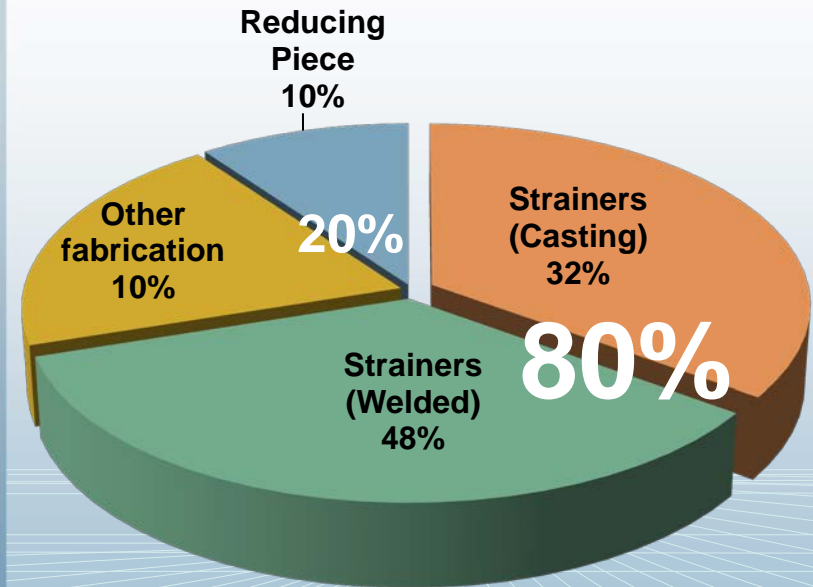
1.3 Annual Turnover and Sales

Annual Turnover

(Unit : million KRW)



Annual Sales Ratio



ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ

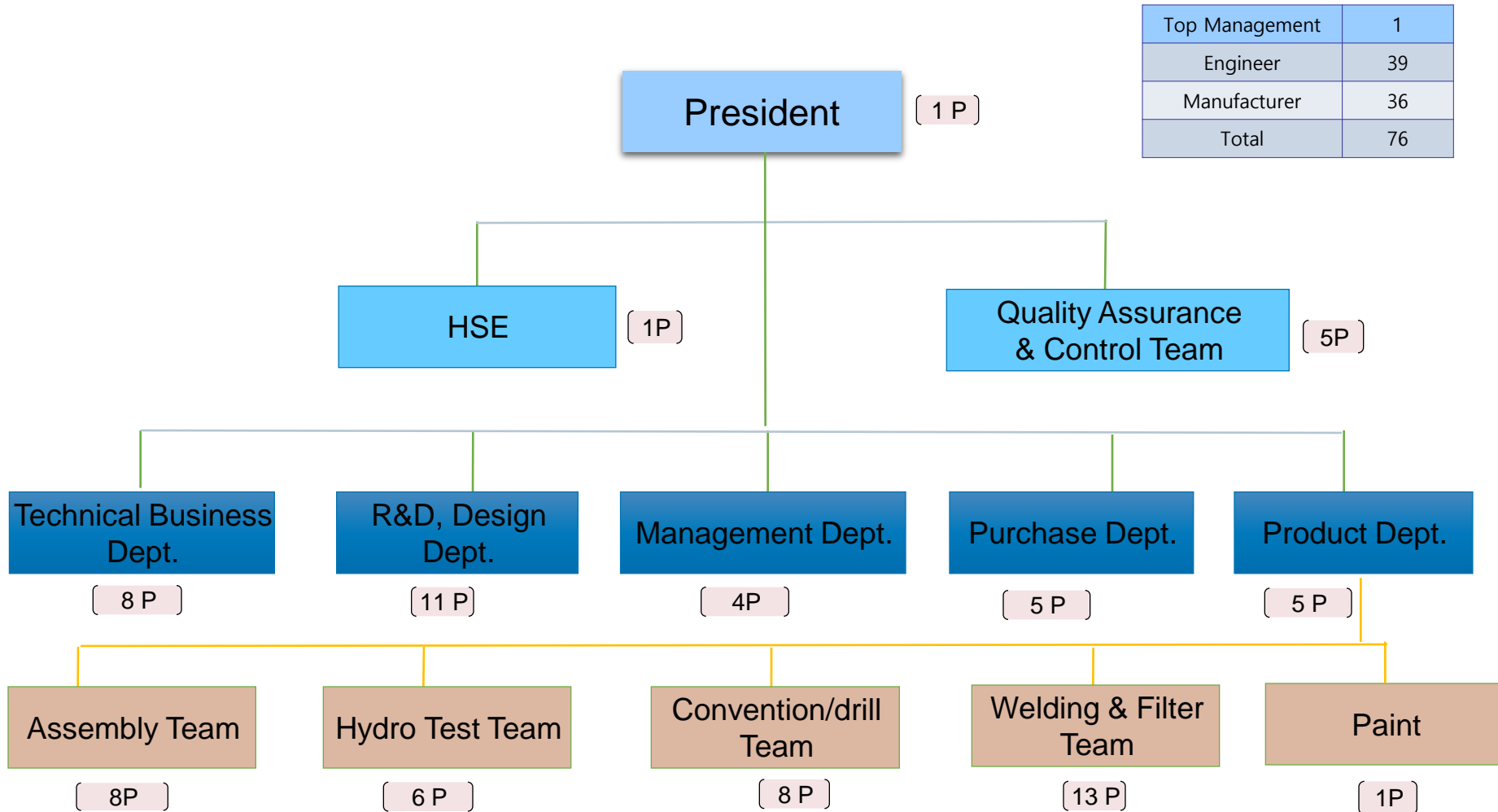
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1. Company Profile

1.4 Organization Chart



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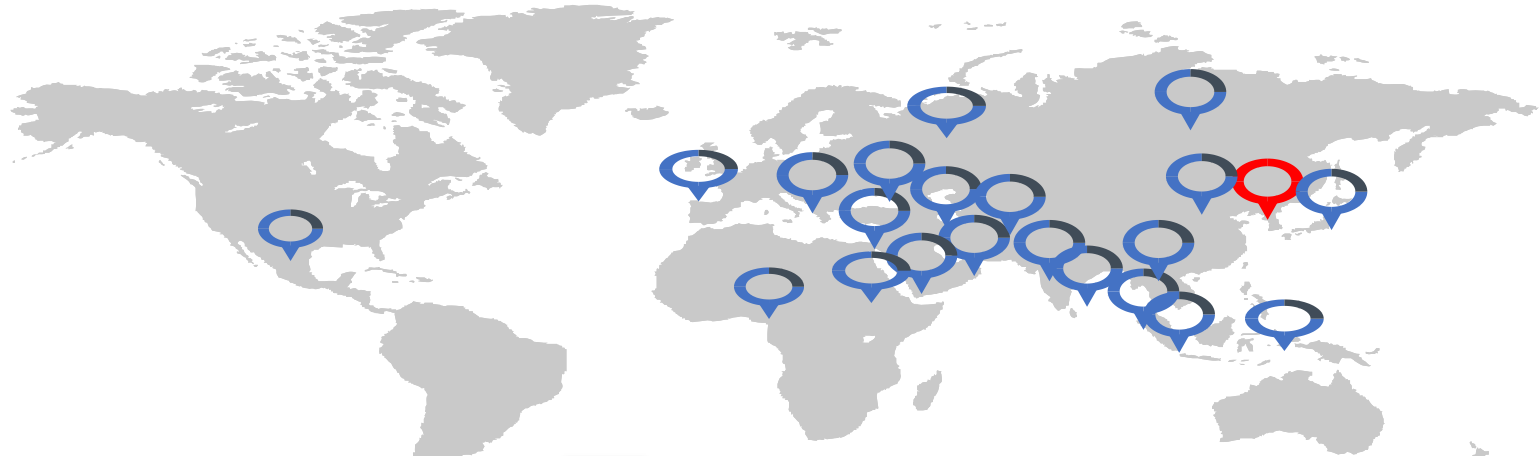
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1. Company Profile

1.5 Overseas Network



 -HANKOOK ENG(Singapore)

 -Next Petroleum(Malaysia)

 -HYPRECISION(India)

 -ATTATECH(Thailand)

 -YONEDA(Japan)

 -NSIC(VIETNAM)

 -Hosanna Energy(Nigeria)

 -HSD(China-Dalian)

 -CM Marine(China-Shenzhen)

 -DAFF(Abu Dahbi)

 -DUTCO(UAE)

 -AFAAL Al-Khaleej(Saudi Arabia)

 -TI SYSTEMS(RUSSIA)

 -CORPEQ(Mexico)

 -FASTLINE(Oman)

 -ALMADAR(Bahrain)

 -UNITED ENG(Kuwait)

 -VIKING A&V(Italy)

 -P.T Tracon(Indonesia)

 -Renaissance T&C(Qatar)

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2019



Factory information

02

2. Factory information

2.1 HSE of Factory

HSE POLICY

Health Safety Environment

We try to achieve customer, employee, the persons concerned satisfaction as we continue to improve risk about the potential environmental aspects and safety and preservation of health in design for the product that is land, marine strainer and pressure vessels, the production process, paint coating and process in all production

We also try to improve work condition by establishing measures of reducing risk by monitoring and grasp the utility factor of management, in order that it doesn't happen matters of the worker's safety and preservation of health, and continue to improve environment aspects as establish measures of major risk and environment influence through evaluating of risk in all process about design, purchase, production and delivery for products, in an order for strainer and vessel pressure

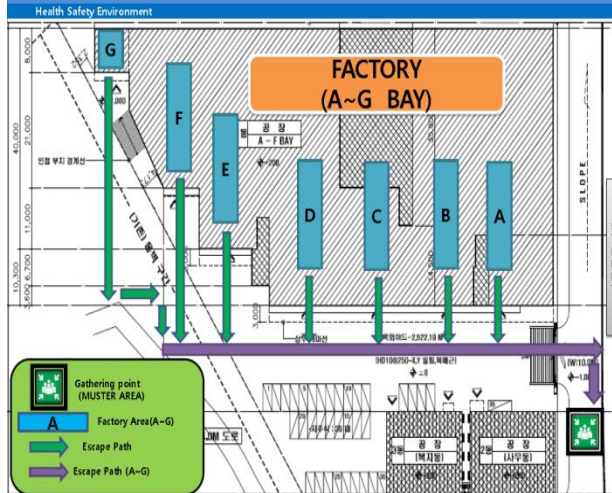
We try to make efforts in order that it doesn't occur the risk of injury and occupational disease and in order to ensure an acceptable level of finances and technical aspects through HSE activities for evaluation.

We prepare the corporate atmosphere that is to the staff to understand and to participate on a voluntary basis through establishing and promoting HSE goals.

We try to adhere HSE-related domestic laws and other requirements by catching hold of them, as set up enhanced internal standards.

WOOSUNG FLOW TEC
The President of Company
CHO YOUNG JE

EVACUATION MAP FOR FACTORY



HSE ACTIVITIES

Health Safety Environment



LABOR & MANAGEMENT JOINT PATROL

- Safety check all of site

(Every other week Tuesday 2 PM)



STRETCHING & TBM

Carry out TBM with manager attending and

Inform worker of today's hazard

(Before work start)



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2. Factory information

2.2 Introduction

■ Company Address

Company Name		WOOSUNG FLOWTEC Co.,Ltd	Owned by	Young-je Cho
Address	Head Office & 1 st Factory	27, Mieum-sandan 3-ro, Gangseo-gu, Busan, Republic of Korea		
		TEL : 82-51-831-1533 FAX : 82-51-831-1534		
	2nd Factory	48, Noksan-sandan 27-ro, Gangseo-gu, Busan, Republic of Korea		
		TEL : 82-51-831-1533 FAX : 82-51-831-1534		

■ Factory Area

Description	Ground Area	Building Area	Total Floor Space	Outside Area	Ownership
1 st Factory	8,321 m ²	5,736 m ²	7,464 m ²	2,585 m ²	Owner <input checked="" type="checkbox"/> Lease <input type="checkbox"/>
2 nd Factory	1,515 m ²	909 m ²	944 m ²	606 m ²	Owner <input checked="" type="checkbox"/> Lease <input type="checkbox"/>
Total	9,836m ²	6,645 m ²	8,408 m ²	3,191 m ²	

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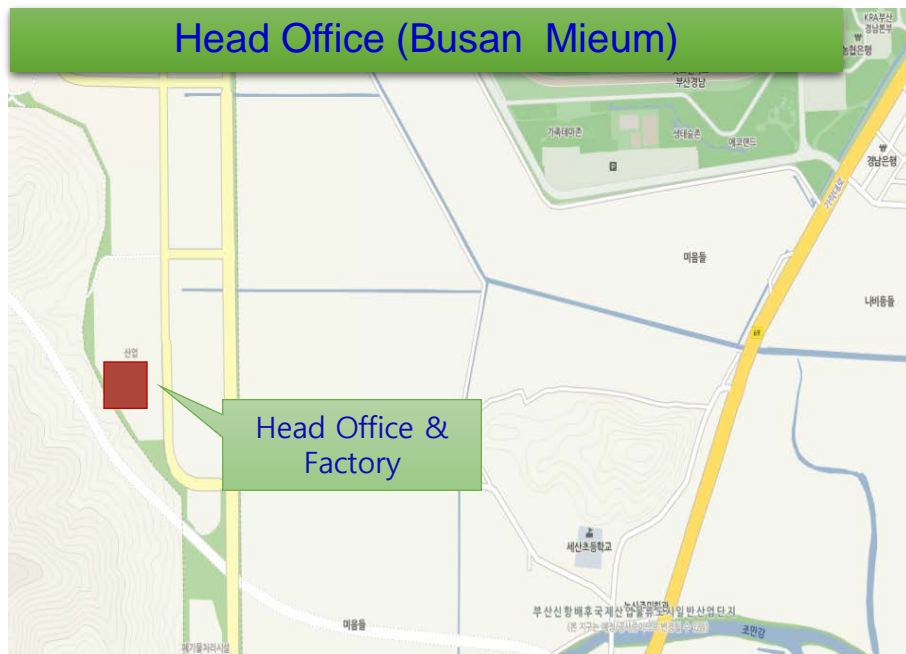
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2. Factory information

2.3 Find US and Contact US

Head Office (Busan Mieum)



Head Office/Factory
27, Mieum-sandan 3-ro, Gangseo-gu, Busan,
Republic of Korea

TEL. +82-51- 831-1532

FAX. +82-51- 831-1534

E-Mail : biz@woosungflowtec.com

2nd Factory (Busan Noksan)



2nd Factory
48, Noksan-sandan 27-ro, Gangseo-gu, Busan,
Republic of Korea

TEL. +82-51- 831-1532

FAX. +82-51- 831-1534

E-Mail : biz@woosungflowtec.com

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2. Factory information

2.4 List of Machine and Equipment

Name of Equipment	Capacity	Maker	Q'ty
LATHE	JUMBO 1000*3000	TUDA SEISAKUSH, CO	1
	DYNA-1200	KYOKUTO	1
	HL580 * 2000G	HWACHEON	1
	580*1500	HWACHEON	1
	TIPL-5 (530*1050)	Tongil	1
	CLL1000	CHUBU KOKI	1
BORING MACHINE	90TL (DIA700 * 1300L)	Hamburg Rieckermann	1
MILLING MACHINE	TMVH-2	Tongil	1
DRILLING MACHINE	DA1300R	Daewoo	1
	SDR1500	JOGWANG	1
	RE2-1450A	OOYA	1
	DUA560	Woochang	1
	HTD-025	Heenam Precision	1
	WSDT 13MM	Heenam Precision	1
TUNING MACHINE	D2000 * H1500	NKK	1
HOIST	0.5/2/2.8/5/10 Ton	BANDO CRANE	4+5+4+8+2=23
CO2 WELDER	MAG600	Daewoo	10
	NW-650GX	Daewoo	1
	350A	NEWCENTURY WELDER	22

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2. Factory information

2.4 List of Machine and Equipment

Name of Equipment	Capacity	Maker	Q'ty
TIG WELDER	350A/500A	NEWCENTURY WELDER	15
ARC WELDER	12KW	NEWCENTURY WELDER	1
	DANDI-500	NEWCENTURY WELDER	1
PLASMA MACHINE	120A	NEWCENTURY WELDER	4
HYDROSTATIC MACHINE	1500*1300	-	1
	2000*900	-	1
	4600*1600	Kyungsae	1
FOLKLIFT	3 TON	Clark	3
SCREW COMPRESSOR	2000L	KYUNGWON	1
		KYUNGWON	1
	50HP	KYUNGWON	1
TURN TABLE	1HP / 3HP	-	4+1=5
	SEME-AUTOMATIC	-	1
	930*770	-	1
	1150*1200	-	1
ROLLER	3HP	-	1
O2 CUTTER	3750*1220*3100	-	1
CUTTER	6.5T*2515	AIZAWA SHEARS	1
CONVEYER PAINTING ROOM	1100*1300*1300	CHUNGSONG MACHINERY	1

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2. Factory information

2.4 List of Machine and Equipment

Name of Equipment	Capacity	Maker	Q'ty
LARGE PAINTING ROOM	2000*2200*2200	CHUNGSONG MACHINERY	1
SHOT BLASTER	2300*2300*2500	CHUNGSONG MACHINERY	1
LARGE DRY ROOM	1100*1300*1300	CHUNGSONG MACHINERY	1
DRY ROOM	3200*2600*2200	CHUNGSONG MACHINERY	1
	2600*2600*2200	CHUNGSONG MACHINERY	1
INLET MOLD	1300*2700	-	1
CUTTER	1500*700	-	1
PRESS MACHINE	0.5 TON	-	1
PUNCHING MACHINE	900*400 / 1700*1300	AMADA	2
	3000*110	NAGAO IRON WORKS	1
HYDRAULIC TORQUE WRENCH	S11000 / S25000	ENERPAC	2
SPOT WELDER	SC680A / SC680H	NEWCENTURY WELDER	1+2=3
	TETRA-222H	NEWCENTURY WELDER	1
	SPOT 1500A	NEWCENTURY WELDER	1
ROTATOR	TE-F	-	1
ROLLING MACHINE	800*400~2700*1650	-	6
ROTATOR	2HP	-	1
GRINDER	300*200	HANKOOK	1
RADIOGRAPHY ROOM			1

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Experience List

03

Experience Of Domestic



SAMSUNG ENGINEERING



DAELIM



POSCO



Experience Of Overseas – END USER

ExxonMobil



ارامكو السعودية
Saudi Aramco



الشركة السعودية للكهرباء
Saudi Electricity Company



شركة أبو ظبي للتكرير والتقطيع
We Refine Right



NPC



MAPNA GROUP



التوسعة
BNGEC



أم الحول للطاقة
UMM AL HOUL POWER



GE Power



HEEREMA



MAERSK
LINE



سوناتراش
sonatrach



SOCAR



Eni



VEOLIA



شركة صلاح الميثانول للبروم (المنطقة الحرة)
Salah Methanol Company L.L.C. (SMC)

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Experience Of Overseas – END USER



Experience Of Overseas - EPC



3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
SAMSUNG ENGINEERING	ADNOC	ADNOC REFINING Crude Flexibility Project(CFP)	Y & TEE & BUCKET STRAINER (UL:5종, 44EA)	461EA	2019.09	U.A.E
SAMSUNG ENGINEERING	ADNOC	ADNOC REFINING Waste Heat Recovery Project(WHRP)	Y & TEE STRAINER (UL:2종, 8EA)	38EA	2019.11	U.A.E
SAMSUNG ENGINEERING	PTTGC	Olefins Reconfiguration Project(ORP)	Dummy Spool	819EA	2019.06	Thailand
SAMSUNG ENGINEERING(THAI AND)	PTTGC	On-Purposed Teg Project	Y & TEE STRAINER	8EA	2019.04	Thailand
SAMSUNG ENGINEERING(THAI AND)	PTTLNG	In-Plant Power Generation Project	Y & TEE & BUCKET STRAINER	10EA	2018.07	Thailand
SAMSUNG ENGINEERING	PTT	WANGNOI (WCS)	T STRAINER	22EA	2018.01	Thailand
SAMSUNG ENGINEERING	PETRONAS	RAPID #6	Y ,T & BASKET STRAINER	110EA	2017.11	Malaysia
SAMSUNG ENGINEERING	PETRONAS	RAPID #11	Y ,T & BASKET STRAINER	114EA	2017.11	Malaysia
SAMSUNG ENGINEERING	SAMSUNG ELECTRONICS	Pyeongtaek Semiconductor P-PJT UT	Y STR 20" etc	113EA	2016.10	Korea
SAMSUNG ENGINEERING	ENI IRAQ B.V.	ENI - IRAQ ZUBAIR OIL FIELD DEVELOPMENT	Y STR, TEE STR	111EA	2016.06	IRAQ
SAMSUNG ENGINEERING	ARAMCO	SHAYBAH IGHC #4	Y- STRAINER	211EA	2014.04	SAUDI ARABIA
SAMSUNG ENGINEERING		Skikda Refinery PJT	Y-STRAINER 16" etc	60EA	2014.03	ALGERIA
SAMSUNG ENGINEERING	SAUDI ARAMCO TOTAL	SHAYBAH	BUCKET STRAINER etc	211EA	2013.09	SAUDI ARABIA
SAMSUNG ENGINEERING		MA'ADEN ALUMINUM ROLLING	Y-STRAINER 16" etc	8EA	2012.05	SAUDI ARABIA

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3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
SAMSUNG ENGINEERING	Samsung Ingenieria Energia S.A.DE C.A	NORTE 2 CCGT POWER PJT	Y- STRAINER	6EA	2012.01	MEXICO
SAMSUNG ENGINEERING		WASIT COGEN &GENERATION	TEE STRAINER 18" etc	11EA	2012.01	SAUDI ARABIA
SAMSUNG ENGINEERING	PETRONAS CARIGALISDN.BHD	PCSB SOGT PROJECT	BUCKET- STRAINER etc	83EA	2011.12	Malaysia
SAMSUNG ENGINEERING	PETROTRIN	PETROTRIN ULSD PJT	Y- STRAINER	79EA	2011.07	Trinidad and Tobago
SAMSUNG ENGINEERING	Ruwais Fertilizer Industries	FERTIL EXPANSION PROJECT (FERTIL-2)	Y- STRAINER etc	172EA	2011.07	U.A.E
SAMSUNG ENGINEERING	Skikda	Refinery Project	T-TYPE STRAINER	700EA	2011.04	ALGERIA
SAMSUNG ENGINEERING	CHIYODA	PACKAGE4(COKER UNIT)FOR JUBAIL	T-TYPE STRAINER	500EA	2011.02	SAUDI ARABIA
SAMSUNG ENGINEERING		TAKREER RRE UTILITES & OFFSITES (PKG #3)	Y- STRAINER	2EA	2011.01	U.A.E
SAMSUNG ENGINEERING	S-OIL	S-OIL ONSAN REFINERY EXPANSION PJT (SEP PJT)	STEAM RING	36EA	2010.05	Korea
SK Engineering & Construction	SK Energy	S-PJT(VRDS) 2nd	TEE STRAINER	12EA	2019.07	Korea
SK Engineering & Construction	SK IPC	공정열원 활용 최적화	TEE STRAINER	5EA	2019.07	Korea
SK Engineering & Construction	SK Energy	S-PJT(VRDS)	Y STR, TEE STR, BUCKET STR	199EA	2019.07	Korea
SK Engineering & Construction	KOREA SOUTH-EAST POWER Co.	GOSUNG GREEN POWER(2nd)	Y STRAINER	11EA	2019.05	Korea
SK Engineering & Construction	PTTGC POLYOLS	POLYOLS(2ND)	TEE & Y STRAINER	83EA	2019.04	Thailand

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3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
SK Engineering & Construction	PTTGC POLYOLS	POLYOLS	TEE & Y STRAINER	311EA	2019.01	Thailand
SK Engineering & Construction	KOREA SOUTH-EAST POWER Co.	GOSUNG GREEN POWER	Y & TEE STRAINER	22EA	2018.07	Korea
SK Engineering & Construction	SK Energy	S-PJT(2ND)	TEE STRAINER	15EA	2018.06	Korea
SK Engineering & Construction	SK Energy	S-PJT	Y & TEE STRAINER	24EA	2018.03	Korea
SK Engineering & Construction	SK Energy	NO.2 SRP EXPENSION	TEE STRAINER	8EA	2018.02	Korea
SK Engineering & Construction	Boryeong LNG Terminal Co., Ltd	Boryeong LNG	Y & TEE STRAINER	6EA	2018.02	Korea
SK Engineering & Construction	SK ENERGY	SBM NO.5 신설사업 01A	TEE STR, BUCKET STR	34EA	2017.12	Korea
SK Engineering & Construction	Nghi Son Refinery & Petrochemical Limited Liability Company	NSRP Complex_ADD	TEMPORARY STR 6"	6EA	2017.12	VIETNAM
SK Engineering & Construction	Nghi Son Refinery & Petrochemical Limited Liability Company	NSRP Complex_ADD	TEMPORARY STR 6"	1EA	2017.11	VIETNAM
SK Engineering & Construction	SK GAS Co., Ltd	SKG 울산기지 BALL TANK 신설공사	Y STR, TEE STR, BUCKET STR	8EA	2017.11	Korea
SK Engineering & Construction	Nghi Son Refinery & Petrochemical Limited Liability Company	NSRP Complex_ADD	TEMPORARY STR 6"	4EA	2017.09	VIETNAM
SK Engineering & Construction	Fort Hills Energy Limited Partnership	FORT HILLS SECONDARY EXTRACTION (SB)추가	Y STR 3"	1EA	2017.08	CANADA
SK Engineering & Construction	E-CL S.A.	RED DRAGON / PIEM PROJECT	Y, BUCKET, DUPLEX STR, TEMPORARY STR	14EA	2017.06	CHILE

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3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
SK Engineering & Construction	SK INNOVATION	LIBS#10,#11 PROJECT	TEMPORARY STRAINER 6"	11EA	2017.06	Korea
SK Engineering & Construction	Nghi Son Refinery & Petrochemical Limited Liability Company	NSRP Complex	TEMPORARY STR 20"	9 EA	2016.12	VIETNAM
SK Engineering & Construction	SK IPC	공정효율개선사업	Y STR, TEE STR	25EA	2016.11	Korea
SK Engineering & Construction	ARAMCO OVERSEAS COMPANY B.V.	JAZAN PJT(PKG #9) UNIT J05	TEE STR, BUCKET STR, Y STR, TEMPORARY STR	184EA	2016.11	SAUDI ARABIA
SK Engineering & Construction	ARAMCO OVERSEAS COMPANY B.V.	JAZAN PJT(PKG #9) UNIT J70/J77	TEE STR, Y STR, TEMPORARY STR	59EA	2016.11	SAUDI ARABIA
SK Engineering & Construction	Fort Hills Energy Limited Partnership	FORT HILLS SECONDARY EXTRACTION (SB)	Y-STRAINER 6"	1EA	2016.05	CANADA
SK Engineering & Construction	Fort Hills Energy Limited Partnership	FORT HILLS SECONDARY EXTRACTION (M1)	Y STR 4"	2EA	2015.11	CANADA
SK Engineering & Construction	Fort Hills Energy Limited Partnership	FORT HILLS SECONDARY EXTRACTION (M2)	Y STR 6"	3EA	2015.11	CANADA
SK Engineering & Construction	Fort Hills Energy Limited Partnership	FORT HILLS SECONDARY EXTRACTION (SB)	Y STR, TEMPORARY STR	178EA	2015.11	CANADA
SK Engineering & Construction	SK GAS Co., Ltd	SK GAS ULSAN PDH	TEE, Y, TEMPORARY STR, BELL MOUTH	156EA	2015.06	Korea
DAELIM INDUSTRIAL	PETROCHEMICAL DIVISION OF D AELIM	EPO PJT(2nd)	TEE STR	3EA	2019.06	Korea
DAELIM INDUSTRIAL	PETROCHEMICAL DIVISION OF D AELIM	EPO PJT	TEE & BUCKET & TEM STR.	10EA	2019.04	Korea
DAELIM INDUSTRIAL	SAN BUENAVENTURA POWER LTD. CO.	Philippines San Buenaventura 500MW Supercritical CFPP_2 nd	Y & TEE & BUCKET	17EA	2017.11	PHILIPPINES
DAELIM INDUSTRIAL	SAN BUENAVENTURA POWER LTD. CO.	Philippines San Buenaventura 500MW Supercritical CFPP_3 rd	Y STR 6"	2EA	2017.11	PHILIPPINES

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3. Experience

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Customer	End User	Project	Products	Q,ty	Date	Location
DAELIM INDUSTRIAL	DAELIM Philippines Inc.	Philippines Pagbilao 420MW unit 3 Coal Fired Power	TEE STR 12", 14"	7EA	2017.09	PHILIPPINES
DAELIM INDUSTRIAL	SAN BUENAVENTURA POWER LTD. CO.	Philippines San Buenaventura 500MW Supercritical CFPP_1 st	DUPLEX STR, Y STR, TEMPORARY STR	11EA	2017.09	PHILIPPINES
DAELIM INDUSTRIAL	PETROCHEMICAL DIVISION OF DAELIM	E-PROJECT	TEE STR, TEMPORARY STR	4EA	2017.05	Korea
DAELIM INDUSTRIAL	TNB MANJUNG FIVE SDN BHD	Malaysia TNB Fast Track 3A	TEMPORARY STR 18"	3EA	2017.04	Malaysia
DAELIM INDUSTRIAL	DAELIM Industrial Co., Ltd.	Poseung Biomass Cogeneration	Y STR, TEE STR	28EA	2017.03	Korea
GS E&C Corporation	LG CHEMICAL	LG CHEM 6AA Project	B & Y STR 24" etc	141EA	2018.06	Korea
GS E&C Corporation	KUWAIT OIL COMPANY (K.S.C)	New Water Centre(NWC) IN NORTH KUWAIT_2 nd	BIRD SCREEN	11EA	2017.12	KUWAIT
GS E&C Corporation	KUWAIT OIL COMPANY (K.S.C)	New Water Centre(NWC) IN NORTH KUWAIT_2 nd	DUPLEX , Y, CONICAL STR, BIRD SCREEN	94EA	2017.08	KUWAIT
GS E&C Corporation	ABU DHABI OIL REFINING COMPANY (TAKREER)	RUWAIS REFINERY WEST (RRW) UNIT RESTORATION PJT	Y STR, BUCKET STR, TEE STR	95EA	2017.10	U.A.E
GS E&C Corporation	KOREA PETROCHEMICAL IND. CO., LTD.	KPIC ONE PJT_1 st	Y STR, TEE STR, BUCKET STR	95EA	2017.10	Korea
GS E&C Corporation	KOREA PETROCHEMICAL IND. CO., LTD.	KPIC ONE PJT_2 nd	Y STR, TEE STR	29EA	2017.10	Korea
GS E&C Corporation	KOREA PETROCHEMICAL IND. CO., LTD.	KPIC ONE PJT_3 rd	Y STR, TEE STR	6EA	2017.10	Korea
GS E&C Corporation	KOREA PETROCHEMICAL IND. CO., LTD.	KPIC ONE PJT for NET System_1 st	Y STR, TEE STR	11EA	2017.10	Korea
GS E&C Corporation	Egyptian Refining Company (ERC) S.A.E.	ERC Refinery PJT	Y & TEE & BUCKET &	221EA	2017.07	EGYPT

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3. Experience

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Customer	End User	Project	Products	Q,ty	Date	Location
GS E&C Corporation	Uz-Kor Gas Chemical LLC	UGCC EHTYLENE PLANT	TEE STRAINER 6" etc	45EA	2013.11	Uzbekistan
GS E&C Corporation	KNOC	BLACKGOLD	Y-STRAINER 2" etc	67EA	2013.01	CANADA
Hyundai Engineering Co., Ltd	Sonelgaz	BISKRA 1600MW CCPP	FILTER FOR T-STRAINER 20"	16EA	2019.04	ALGERIA
Hyundai Engineering Co., Ltd	Sonelgaz	JIJEL 1600MW CCPP	FILTER FOR T-STRAINER 20"	16EA	2019.04	ALGERIA
Hyundai Engineering Co., Ltd	PETRONAS	MELAKA	BUCKET STR. 24" etc	128EA	2018.09	INDONESIA
Hyundai Engineering Co., Ltd	P.T.Asahimas Chemical	ACS PHASE-VI	Cone Strainer	8EA	2018.06	INDONESIA
Hyundai Engineering Co., Ltd	PT. PLN(PERSERO)	KALSETENG 2 CFSP (2X100M) Project	Y, TEE, DUPLEX STR	20EA	2018.06	INDONESIA
Hyundai Engineering Co., Ltd	JSC "TAKHIATASH TPP"	TAKHIATASH POWER PLANT EFFICIENCY IMPROVEMENT	Y, TEE, DUPLEX STR	36EA	2018.06	Uzbekistan
Hyundai Engineering Co., Ltd	OLTIN YO'L GTL	UZBEKISTAN GAS TO LIQUID PJT	B, Y & TEE STRAINER etc	375EA	2018.06	Uzbekistan
Hyundai Engineering Co., Ltd	KUWAIT NATIONAL PETROLEUM COMPANY	KUWAIT AL-ZOUR LNG IMPORT PJT	B-STRAINER 30" etc	125EA	2018.06	KUWAIT
Hyundai Engineering Co., Ltd	Tanjung Power Indonesia	KALSEL-1 COAL FIRED POWER PLANT	Y-STRAINER 1", 4"	4EA	2017.08	INDONESIA
Hyundai Engineering Co., Ltd	Therma Visayas, Inc.,	Therma Visayas Energy PJT (TVEP)	Y, TEE STR, DUPLEX STR	25EA	2016.04	PHILIPPINES
Hyundai Engineering Co., Ltd	Aboitiz Power	TVEP THERMA VISAYAS PJT	T-STRAINER 3" etc	100EA	2016.04	PHILIPPINES
Hyundai Engineering Co., Ltd	ASHUGANJ POWER	ASHUGANJ	Y-STRAINER 8" etc	20EA	2014.11	Bangladesh

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3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
Hyundai Engineering Co., Ltd	Sonelgaz	AIN ARNAT	B-STRAINER 10" etc	34EA	2014.07	ALGERIA
Hyundai Engineering Co., Ltd	the Ministry of Oil and Gas of Turkmenistan	TURKMENBASHI OIL REFINERIES	T-STRAINER 1" etc	270EA	2015.11	TURKMENBASHI
Hyundai Engineering Co., Ltd	KENGEN	OLKIARIA 2ND	Y-STRAINER 4" etc	34EA	2013.05	Kenya
Hyundai Engineering & Construction	CGN DAESAN	Daesan Biomass	BUCKET STR 20" etc	20EA	2019.02	Korea
Hyundai Engineering & Construction	Sarulla Operations Ltd	SARULLA GEOTHERMAL POWER PJT (IPON)	BUCKET STR 30" etc, Y STR, TEE STR	15EA	2017.05	INDONESIA
Hyundai Engineering & Construction	Mirfa International Power & Water Company	MIRFA INDEPENDENT WPP	Y STR	2EA	2017.03	U.A.E
Hyundai Engineering & Construction	PDVSA PETROLEO, S.A. (PDVSA)	PDVSA RPLC DEEP	BUCKET STR, TEE STR, Y STR	290EA	2016.12	Venezuela
Hyundai Engineering & Construction	Mirfa International Power & Water Company	MIRFA INDEPENDENT WPP	Y STR	1EA	2016.09	U.A.E
Hyundai Engineering & Construction	ADWEA & GDF	MIRFA	STRAINER 38" etc	94EA	2016.01	U.A.E
Hyundai Engineering & Construction	Mirfa International Power & Water Company	MIRFA INDEPENDENT WPP	Y, TEE, BUCKET STR, DUPLEX STR	64EA	2015.11	U.A.E
Hyundai Engineering & Construction	PDVSA	RPLC DEEP CONVERSION	BUCKET STRAINER 24" etc	226EA	2014.02	Venezuela
Hyundai Engineering & Construction	Vietnam Electricity	MONG DOUNG1	STRAINER 40" etc	56EA	2013.06	VIETNAM
POSCO E&C	COSTA NORTE LNG TERMINAL, S. DE R. L.,	PANAMA COSTA NORTE LNG	TEE STR, Y STR	12EA	2017.08	PANAMA
SAMSUNG C&T	Sonelgaz	ALGERIA MEGA DEAL CCPP (Mostaghanem Project)	BUCKET, DUPLEX, Y STR etc	66EA	2018.1	ALGERIA

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3. Experience

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Customer	End User	Project	Products	Q,ty	Date	Location
SAMSUNG C&T	PETRONAS	RGT-2	Y-STRAINER 3", 4"	2EA	2017.11	Malaysia
SAMSUNG C&T	Singapore LNG Corporation	SINGAPORE LNG TERMINAL_PHASE3 EX.(SLNG)	DUPLEX STR, Y STR etc	7EA	2016.11	SINGAPORE
SAMSUNG C&T	Sonelgaz	ALGERIA MEGA DEAL CCPP (NAAMA Site)	BUCKET, DUPLEX, Y STR etc	63EA	2016.10	ALGERIA
SAMSUNG C&T	SAMSUNG TOTAL PETROCHEMICALSCO., LTD	STC NCC RECOVERY SECTION OPIMIZATION	TEE, Y STR	3EA	2015.01	Korea
Hanwha Engineering & Construction Corporation	Hanwha Total Petrochemical Corporation	SM#2 RX	Y-STRAINER	1EA	2019.02	Korea
Hanwha Engineering & Construction Corporation	Hanwha Total Petrochemical Corporation	A01	TEE & Y-STRAINER	65EA	2019.01	Korea
Hanwha Engineering & Construction Corporation	Hanwha Chemical Corporation	THE PROJECT	BUCKET, TEE & Y-STRAINER	273EA	2018.12	Korea
Hanwha Engineering & Construction Corporation	Hanwha Total Petrochemical Corporation	CFU/ARO2 DEBOTTLENECKING	TEE STR, TEMPORARY STR	6EA	2017.02	Korea
Hanwha Engineering & Construction Corporation	Hanwha Total Petrochemical Corporation	EVA2 Reamping	TEE STRAINER 3"	2EA	2016.06	Korea
SEA LOUISIANA LLC	LOTTE CHEMICAL	LOTTE CHEMICAL MEG	BIRD SCREEN 4"	5EA	2017.02	USA
SEA LOUISIANA LLC	LOTTE CHEMICAL	LOTTE CHEMICAL MEG	BELL MOUTH 42"	5EA	2017.02	USA
SEA LOUISIANA LLC	LOTTE CHEMICAL	LOTTE CHEMICAL MEG	TEE STRAINER 24"	109EA	2017.01	USA
LOTTE E&C	LOTTE BP CHEMICAL CO.,LTD	A-PROJECT	TEE & Y, TEMPORARY STR	15EA	2019.02	Korea
LOTTE E&C	PT. PERUSAHAAN LISTRIK NEGARA (PERSERO)	GRATI CCPP PJT	BUCKET STR 20" etc DUPLEX STR 12", Y STR 4"	21EA	2017.07	INDONESIA

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3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
LOTTE E&C	KOREA DISTRICT HEATING CORP.	Gwangju-Jeonnam District energy	BUCKET STR, TEE STR DUPLEX STR, Y STR	21EA	2016.12	Korea
LOTTE E&C		DAEGU INNOCITY	TEE STRAINER 12" etc	11EA	2013.11	Korea
LOTTE E&C	Hyundai Steel	HYUNDAI STEEL COKES / HAWSUNG	T STRAINER 500A etc	74EA	2009.06	Korea
DAEWOO E&C	KOREA SOUTHERN POWER CO.,LTD	NAM-JEJU COMBINED CYCLE POWER PLANT	Y,DUPLEX, TEMPORARY STR.	18EA	2019.08	Korea
DAEWOO E&C	KOREA WESTERN POWER CO.,LTD	Shin-Pyeongtaek Combined Cycle Power Plant Project	BUCKET STR, Y STR	50EA	2018.03	Korea
DAEWOO E&C	KIPIC/ FDH JV	KNPC ZOR PJT at Al-Zour	Y-STRAINER 1 1/2"	197EA	2017.12	KUWAIT
DAEWOO E&C	KIPIC/ FDH JV	KNPC ZOR PJT at Al-Zour	Y-STRAINER 2"	3EA	2017.12	KUWAIT
DAEWOO E&C	KIPIC/ FDH JV	KNPC ZOR PJT at Al-Zour	Y-STR	7EA	2017.11	KUWAIT
DAEWOO E&C	S-OIL	S-OIL Residue Upgrading Complex	BELL MOUTH 48" etc	14EA	2017.10	Korea
DAEWOO E&C	KIPIC/ FDH JV	KNPC ZOR PJT at Al-Zour	BUCKET STR, TEE STR, Y STR	56EA	2017.10	KUWAIT
DAEWOO E&C	KIPIC/ FDH JV	KNPC ZOR PJT at Al-Zour	Y STR 16" etc	238EA	2017.09	KUWAIT
DAEWOO E&C	KIPIC/ FDH JV	KNPC ZOR PJT at Al-Zour	BUCKET STR, TEE STR, Y STR	135EA	2017.09	KUWAIT
DAEWOO E&C	KOREA WESTERN POWER CO.,LTD	GUNSAN THERMAL POWER GENERATION	Y-STRAINER 600# 8"	2EA	2009.12	Korea
KEPCO KSP	GUNSAN THERMAL POWER GENERATION	SITE OF COMBINED CYCLE MAJOR COMPONENTS	FILTER	2EA	2010.04	Korea

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3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
Doosan Heavy Industries & Construction Co., Ltd.	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	Sin Seocheon	Y STR	7ea	2019.03	Korea
Doosan Heavy Industries & Construction Co., Ltd.	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	Sin Seocheon	DUPLEX STR	6ea	2019.01	Korea
Doosan Heavy Industries & Construction Co., Ltd.	KOREA SOUTH-EAST POWER Co.	Yeongheung ZLD	TEMPORARY STR. 26" etc	26EA	2018.04	Korea
Doosan Heavy Industries & Construction Co., Ltd.	MEW	DOHA RO	TEMPORARY STR. 26"	7EA	2017.12	KUWAIT
Doosan Heavy Industries & Construction Co., Ltd.	Vietnam Machinery Installation Corp. (LILAMA)	SONG HAU 1 (2x600MW) THERMAL POWER PLAN (TURBIN)	DUPLEX STR, Y STR	16EA	2017.10	VIETNAM
Doosan Heavy Industries & Construction Co., Ltd.	MEW	DOHA RO	TEMPORARY STR. 16"	80 EA	2017.10	KUWAIT
Doosan Heavy Industries & Construction Co., Ltd.	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	Seoul Power TG	Y-STRAINER 2 1/2"	2EA	2017.08	Korea
Doosan Heavy Industries & Construction Co., Ltd.	Vietnam Machinery Installation Corp. (LILAMA)	SONG HAU 1 (2x600MW) THERMAL POWER PLANT (BOP)	Y-STRAINER 8", 10", 12"	8EA	2017.07	VIETNAM
Doosan Heavy Industries & Construction Co., Ltd.	Vietnam Machinery Installation Corp. (LILAMA)	SONG HAU 1 (2x600MW) THERMAL POWER PLANT (BLR)	DUPLEX STR 6", Y STR, TEMPORARY STR	6EA	2017.05	VIETNAM
Doosan Heavy Industries & Construction Co., Ltd.	MEW	DOHA VESSEL REMIN	TEMPORARY STRAINER 6"	11EA	2017.05	KUWAIT
Doosan Heavy Industries & Construction Co., Ltd.	Doosan Heavy Industries Muscat LLC	AL ANSAB PH.2	BUCKET STRAINER 300A	1EA	2017.03	OMAN
Doosan Heavy Industries & Construction Co., Ltd.	KOREA ELECTRIC POWER CORPORATION(KEPCO)	BNPP #1~4	DUPLEX STR 150# 3", 4", 5", 6"	24EA	2016.12	U.A.E
Doosan Heavy Industries & Construction Co., Ltd.	ENGIE ENERGIA CHILE S.A.	RED DRAGON / PIEM FGD	TEMPORARY STRAINER 3", 4", 5", 34", Y STR 4", 5"	23EA	2016.12	CHILE
Doosan Heavy Industries & Construction Co., Ltd.	KoreaDistrict Heating Corp.	Hwasung, Dongtan #1&2 District Energy	Y-STRAINER 8" etc	18EA	2016.06	Korea

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3. Experience

3.1 Onshore

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Doosan Heavy Industries & Construction Co., Ltd.	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	Seoul Power #1,2 HRSG	Y-STR, TEMPORARY STR	28EA	2016.05	Korea
Doosan Heavy Industries & Construction Co., Ltd.	SALINE WATER CONVERSION CORPORATION	RAS AL KHALIJ	Y-STRAINER 3"	2EA	2016.03	SAUDI ARABIA
Doosan Heavy Industries & Construction Co., Ltd.	SALINE WATER CONVERSION CORPORATION	YANBU3	DUPLEX-TYPE STR. 5"	1EA	2016.03	SAUDI ARABIA
Doosan Heavy Industries & Construction Co., Ltd.	Saudi Electricity Company	DUBA #1&2 HRSG	Y-STRAINER 12" etc	8EA	2015.12	SAUDI ARABIA
Doosan Heavy Industries & Construction Co., Ltd.		SALEM HAVOR HRSG	Y-STRAINER 6" etc	6EA	2015.12	USA
Doosan Heavy Industries & Construction Co., Ltd.	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	SIN BORYEONG TG #1&2	DUPLEX OIL STR 150# 3", 4"	4EA	2015.09	Korea
Doosan Heavy Industries & Construction Co., Ltd.	MARAFIQ	MARAFIQ #5&6	DUPLEX OIL STRAINER 2"	2EA	2015.05	SAUDI ARABIA
Doosan Heavy Industries & Construction Co., Ltd.	KOREA ELECTRIC POWER CORPORATION(KEPCO)	SIN HANUL #1 & 2	Y-STRAINER 4"	2EA	2015.05	Korea
Doosan Heavy Industries & Construction Co., Ltd.	KOREA SOUTH-EAST POWER CO.	YEOSU #1 POWER PLANT	DUPLEX-TYPE STR 4"	1EA	2015.04	Korea
Doosan Heavy Industries & Construction Co., Ltd.	Hyundai Engineering & Construction	Talimarjan Thermal Power Plant Expansion	Y-STRAINER 6" etc	8EA	2015.03	Uzbekistan
Doosan Heavy Industries & Construction Co., Ltd.	HANAM ENERGY SERVICE	HANAM CHP	TEE STRAINER 16"	1EA	2015.01	Korea
Doosan Heavy Industries & Construction Co., Ltd.		HANAM CHP	TEE STRAINER 150# 16"	1EA	2015.01	Korea
Doosan Heavy Industries & Construction Co., Ltd.	OCI	SAEMANGEUM BOP&BLR	BUCKET , TEE , Y STRAINER etc.	36EA	2014.12	Korea
Doosan Heavy Industries & Construction Co., Ltd.	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	SIN BORYEONG TG #1,2	DUPLEX STRAINER 150# 3",4"	4EA	2014.11	Korea

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3. Experience

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Customer	End User	Project	Products	Q,ty	Date	Location
Doosan Heavy Industries & Construction Co., Ltd.	KOREA HYDRO & NUCLEAR POWER CO.,LTD	SIN HANUL	Y STRIANER 150# 4"	2EA	2014.09	Korea
Doosan Heavy Industries & Construction Co., Ltd.	Hanwha Engineering & Construction	YANBU2 BLR	BUCKET STRAINER 150# 8" etc.	6EA	2014.07	SAUDI ARABIA
Doosan Heavy Industries & Construction Co., Ltd.	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	SIN BORYEONG 1,2	DUPLEX STRAINER 300# 6" etc.	6EA	2014.04	Korea
Doosan Heavy Industries & Construction Co., Ltd.	KOREA ELECTRIC POWER CORPORATION(KEPCO)	BNPP #1~4	DUPLEX STRAINER 150# 3" ,4",5",6"	24EA	2014.04	U.A.E
Doosan Heavy Industries & Construction Co., Ltd.		Se Jong Cogeneration	TEE STRAINER 150# 18"	1EA	2013.06	Korea
Doosan Heavy Industries & Construction Co., Ltd.		Yang Ju Cogeneration	TEE STRAINER 150# 18"	1EA	2013.04	Korea
Doosan Heavy Industries & Construction Co., Ltd.		Se Jong Cogeneration	BUCKET STRAINER 150# 1 2"	3EA	2013.03	Korea
Doosan Heavy Industries & Construction Co., Ltd.	DAELIM Industrial Co., Ltd.	Pocheon LNG Power Plant	TEE STRAINER 150# 20"	2EA	2013.02	Korea
Doosan Heavy Industries & Construction Co., Ltd.	AES-VCM	MongDuong2 BLR	DUPLEX STRAINER 300# 4"	8EA	2012.12	VIETNAM
Doosan Heavy Industries & Construction Co., Ltd.	Hanjin Heavy Industries	Yangju CHPP	Y STRAINER 300# 2"	2EA	2012.12	Korea
Doosan Heavy Industries & Construction Co., Ltd.	AES-VCM	MongDuong2 BOP	DUPLEX STRAINER 3",4",8 "	48EA	2012.12	VIETNAM
Doosan Heavy Industries & Construction Co., Ltd.		Yang Ju Cogeneration	Y STRAINER 600# 3/4",2"	2EA	2012.12	Korea
Doosan Heavy Industries & Construction Co., Ltd.		Sin-Gori #1&2	Y STRAINER 300# 3"	3EA	2012.12	Korea
Doosan Heavy Industries & Construction Co., Ltd.	General Electric	Erzin CC Power Plant	Y STRAINER 1500# 3",600# 3"	4EA	2012.10	TURKEY

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3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
Doosan Heavy Industries & Construction Co., Ltd.	Hanwha Engineering & Construction	YANBU2 BLR	DUPLEX STRAINER 600# 1.1/2"	124EA	2012.09	SAUDI ARABIA
Doosan Heavy Industries & Construction Co., Ltd.	KOREA SOUTH-EAST POWER Co.	Yeongheung unit 5&6	DUPLEX STRAIENR 300# 6"	2EA	2012.08	Korea
Doosan Heavy Industries & Construction Co., Ltd.		Marafiq MED	Bucket STRAINER 36"	26EA	2012.06	SAUDI ARABIA
Doosan Heavy Industries & Construction Co., Ltd.	-	RPP2 TG	Y STRAINER 300# 4"	4EA	2012.04	SAUDI ARABIA
Doosan Heavy Industries & Construction Co., Ltd.		Raipur HRSG	DUPLEX STR. 300# 4",3"	4EA	2011.12	INDIA
Doosan Heavy Industries & Construction Co., Ltd.		IEC ADD ON	Y-STRAINER 2"	12EA	2011.11	ISRAEL
Doosan Heavy Industries & Construction Co., Ltd.		QATALUM PJT	BUCKET STRAINER 18" etc	18EA	2011.11	QATAR
Doosan Heavy Industries & Construction Co., Ltd.		TEST BED SWRO	TEMPORARY STR. 150# 6", 12",14",16", 18",20"	14EA	2011.08	Korea
Doosan Heavy Industries & Construction Co., Ltd.		Toul steam HRSG	BUCKET STR. 2500# 3", 900# 3"	5EA	2011.08	FRANCE
Doosan Heavy Industries & Construction Co., Ltd.		RPP2	Y-STRAINER 1 1/2"	12EA	2011.11	SAUDI ARABIA
Doosan Heavy Industries & Construction Co., Ltd.		QURAYYAH	TEMPORARY STR. 150# 4", 6",8",16",18"	36EA	2010.12	SAUDI ARABIA
Doosan Heavy Industries & Construction Co., Ltd.	Saudi Electricity Company	QURAYYAH HRSG	Y STR. 600# 2",1500# 2"	30EA	2010.12	SAUDI ARABIA
Doosan Heavy Industries & Construction Co., Ltd.	-	AL Khalij	Duplex STR. 300# 8"	44EA	2010.06	LIBYAN
Doosan Heavy Industries & Construction Co., Ltd.		GHECO ONE	Y STR. 600# 1/2",2"	2EA	2010.03	Thailand

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Customer	End User	Project	Products	Q,ty	Date	Location
Doosan Heavy Industries & Construction Co., Ltd.	Misnistry of Electricity & Water	SHUWAIKH RO	TEMPORARY STR. 150# 18" ,16" ,12" ,10" ,8"	24EA	2010.02	KUWAIT
Doosan Heavy Industries & Construction Co., Ltd.	-	AL Shuweihat	BUCKET STRAINER 1500# 2.1/2",3"	8EA	2009.11	U.A.E
Doosan Heavy Industries & Construction Co., Ltd.	-	CEBU	Conical STR. 150# 18" ,6" ,4" ,3"	13EA	2009.10	PHILIPPINES
Doosan Heavy Industries & Construction Co., Ltd.	-	KOUDIET	Y STRAINER 900# 2 1/2" , 2500# 3"	6EA	2009.07	ALGERIA
Doosan Heavy Industries & Construction Co., Ltd.	GLOW ENERGY PUBLIC	QATALUM PJT	Y STRAINER 150# 1"	2EA	2009.06	QATAR
Doosan Heavy Industries & Construction Co., Ltd.	Q-POWER	RAS LAFFAN	Y STRAINER 1500# 3"	8EA	2009.05	QATAR
Doosan Heavy Industries & Construction Co., Ltd.	-	SAMSUN HRSG	Y STRAINER 900# 2 1/2" , 2500# 3"	4EA	2009.05	TURKEY
Doosan Heavy Industries & Construction Co., Ltd.	Misnistry of Electricity & Water	SHUWAIKH RO	BASKET STR.150# 16" ,18"	33EA	2009.04	KUWAIT
Doosan Heavy Industries & Construction Co., Ltd.	ELECTRICA ANGAMOS	ANGAMOS	DUPLEX STR. 300# 4" ,6"	4EA	2009.04	CHILE
Doosan Heavy Industries & Construction Co., Ltd.	GLOW ENERGY PUBLIC	GLOW 115MW CFB3	BUCKET STR. 150# 2"	2EA	2009.02	Thailand
Doosan Heavy Industries & Construction Co., Ltd.	QATAR PETROLEUM	QATALUM PJT	CONE STR. 150# 4" ,18"	22EA	2009.03	QATAR
Doosan Heavy Industries & Construction Co., Ltd.	Hydro Norsk and QATAR PETROLEUM	QATALUM PJT	DUPLEX STR. 150# 3" ,4"	12EA	2008.12	QATAR
Doosan Heavy Industries & Construction Co., Ltd.	FOUNDATION POWER COMPANY	DAHARKI CCPP EPC PJT	DUPLEX STR. 150# 2" ,8"	16EA	2008.11	Pakistan
Doosan Heavy Industries & Construction Co., Ltd.	GENERAL ELECTRIC	EMAL HRSG	Y STRAINER 1500# 3"	4EA	2008.11	U.A.E

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Doosan Heavy Industries & Construction Co., Ltd.	GLOW ENERGY PUBLIC	GLOW 115MW CFB3	BASKET STR. 150# 12"	10EA	2008.10	Thailand
Doosan Heavy Industries & Construction Co., Ltd.	POSCO	NUEVA VENTANAS 240MW COAL FIRED POWER PJT	DUPLEX STR. 300# 4",6"	2SET	2008.07	CHILE
Doosan Heavy Industries & Construction Co., Ltd.	DOOSAN ENGINE	CHOIS PJT	BUCKET STR. 150# 1",1 1/4",2"	14EA	2008.06	Korea
Doosan Heavy Industries & Construction Co., Ltd.	KOREA SOUTHERN POWER CO., LTD	HADONG TAEAN 7,8#	DUPLEX STR. 2"	4SET	2008.03	Korea
Doosan Heavy Industries & Construction Co., Ltd.	ADWEA	TAWHEELAH A10	Y TYPE STRAINER 1500# 3"	2SET	2007.11	
KOLON GLOBAL CORPORATION	Busan City Gas / SK E&C	Myeongii District Energy	BUCKET STRAINER 20"	3EA	2016.11	Korea
KOLON e Engineering	KIPIC	ZOR	TEE STRAINER 14" etc.	107EA	2018.05	Kuwait
KOLON e Engineering	KIPIC	KLNG	Y STRAINER 150# 3" etc.	18EA	2018.04	Kuwait
GE POWER SYSTEMS KOREA	SIEMENS	BEER TUVIA	Y STRAINER	10EA	2019.03	ISRAEL
GE POWER SYSTEMS KOREA	PT. PERUSAHAAN LISTRIK NEGARA (PERSERO)	GRATI CCPP(PEAKER) EXTENSION PJT 450MW	Y-STRAINER 2"	8EA	2017.07	INDONESIA
GE POWER SYSTEMS KOREA		ERZIN	Y-STRAINER 3"	1EA	2017.05	TURKEY
GE POWER SYSTEMS KOREA	SIEMENS	Santo Domingo de Los Olleros CC Conversion	TEMPORARY STR 3" etc	4EA	2016.12	PERU
Hyundai Heavy Industries Turbomachinery	KOREA SOUTHERN POWER CO., LTD	NAM-JEJU COMBINED CYCLE POWER PLANT	BUCKET STR. 14"	2EA	2019.03	Korea
Hyundai Heavy Industries Turbo machinery	CGN DAESAN	Daesan Biomass	BUCKET STR. 8"	3EA	2018.11	Korea

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3. Experience

3.1 Onshore

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Hyundai Heavy Industries Turbomachinery	PETRONAS	MELAKA BFP	BUCKET STR. 14"	3EA	2018.11	Malaysia
Hyundai Heavy Industries Turbomachinery	PT. PLN(PERSERO)	MUARA TAWAR BFP	DUPLEX STR. 10" etc	24EA	2018.06	INDONESIA
Hyundai Heavy Industries Turbomachinery	KOREA SOUTH-EAST POWER Co.	SIN GORI 5&6	DUPLEX STR. 1-1/2"	12EA	2018.06	Korea
Hyundai Heavy Industries Turbomachinery	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	SIN SEOCHUN	BUCKET STR. 20" etc	3EA	2018.06	Korea
Hyundai Heavy Industries	SEC	SHUQAIQ	Y STRAINER 300# 1/2"	12EA	2015.03	SAUDI ARABIA
Hyundai Heavy Industries	DS POWER CO.,LTD	OSAN CHPP	BUCKET STR 150# 68", 26"	4EA	2015.02	Korea
Hyundai Heavy Industries	PTB Kuwait	Az-Zour North IWPP	TEE STRAINER 150# 30"	99EA	2014.09	KUWAIT
BHI	IHI	NNEG	Y STRAINER	1EA	2019.08	Thailand
BHI	TPSC	SULSEL BARRU2	Y STRAINER	10EA	2019.07	Indonesia
BHI	MEW	SABIYAH CCGT	Y STRAINER	18EA	2019.10	Kuwait
BHI	Pohang ENI	POHANG 3sintering	TEM & Y STRAINER	8EA	2018.04	Korea
BHI	Pohang ENI	POHANG SRF	Y STRAINER	2EA	2018.03	Korea
BHI	SEPCO III	Azzour South Third Stage Conversion Project	Y-STR 2500LB 2-1/2" etc	9EA	2018.04	KUWAIT
BHI	FOSTER WHEELER NORTH AMERICA	CLECO CANAL HEAT RECOVERY ELECTRIC GENERATING UNIT	Y-STRAINER 2" etc	3EA	2017.07	LOUISIANA(USA)

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3. Experience

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Customer	End User	Project	Products	Q,ty	Date	Location
BHI	AIE	HADREA PJT HRSG	Y-STRAINER 3" etc	3EA	2017.05	ISRAEL
BHI	POSCO	Thermal Power Plant Retrofit	Y-STRAINER 300LB 2 1/2"	1EA	2017.04	Korea
BHI	POSCO	Thermal Power Plant Retrofit	BUCKET STRAINER 14", Y-STRAINER 10" etc	2EA	2017.02	Korea
BHI	TOSHIBA PLANT SYSTEMS & SERVICES CORPORATION	EGCO BANPONG Utilities SPP	Y-STRAINER 900LB 1 1/2"	4EA	2016.07	Thailand
BHI	POSCO-G	KWANG YANG #2 SINTER WHRB	BUCKET STR 10K 100A	4EA	2016.02	Korea
BHI	SIEMENS	WIRYE CHP	Y-STRAINER 2500LB 3" etc	7EA	2016.02	Korea
BHI	Calpine Mid-Merit II, LLC	YORK 2 HRSG	Y-STRAINER 2500LB 2 1/2" etc	4EA	2016.02	PENNSYLVANIA
BHI	DAEWOO E&C	POCHON IPP	Y-STRAINER 6" etc	10EA	2015.10	Korea
BHI	CSP	BRAGIL CSP	Y STRAINER 2500# 4"	6EA	2013.10	BRAZIL
BHI	SIEMENS	DAEGU HRSG	Y-STRAINER 2500# 3 " 900# 3"	5EA	2013.09	Korea
Emerson Process Management Korea Ltd	MINISTRY OF OIL(SCOP)	KARBALA REFINERY PROJECT	BUCKET STRAINER 18" etc	12EA	2017.02	IRAQ
HYORIM IND. INC.	PENGERANG LNG(TWO) SDN BHD.	RGT-2 TERMINAL PJT	BUCKET STRAINER 4"	2EA	2016.09	Malaysia
HYORIM IND. INC.	TNB MANJUNG FIVE SDN BHD	FAST TRACK 3A	DUPLEX OIL STRAINER 10"	1EA	2015.08	Malaysia

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3. Experience

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Customer	End User	Project	Products	Q,ty	Date	Location
HyoSung GoodSprings	SK ENERGY	C3	TEE STRAINER	1EA	2019.07	Korea
HyoSung GoodSprings	KOREA HYDRO & NUCLEAR POWER CO.,LTD	Sin Wolsong	DUPLEX STRAINER 1-1/2"	2EA	2019.08	Korea
HyoSung GoodSprings	KOREA SOUTHERN POWER CO., LTD	NAM-JEJU COMBINED CYCLE POWER PLANT	DUPLEX STRAINER 6"	4EA	2019.07	Korea
HyoSung GoodSprings	GS E&C	DANJIN BIOMASS	BUCKET STRAINER 12",16"	4EA	2019.08	Korea
HyoSung GoodSprings	KOREA SOUTH-EAST POWER Co.	GOSUNG GREEN POWER COP / CEP / BFP / LPHDP	BUCKET STR 28",20",16" TEMPORARY 18",12"	22EA	2019.02	Korea
HyoSung GoodSprings	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	Sin Seocheon SWCP	DUPLEX STR. 32"	1EA	2018.10	Korea
HyoSung GoodSprings	PT. PERUSAHAAN LISTRIK NEGARA (PERSERO)	GRATI ADD-ON PJT CEP	TEE STRAINER 16"	3EA	2017.12	INDONESIA
HyoSung GoodSprings	EVN (베트남전력공사)	DOOSAN / VINH TAN4	BUCKET STRAINER 22"	3EA	2017.08	VIETNAM
HyoSung GoodSprings	Sonelgaz	SCT / ALGERIA(MOSTAGHANEM)	BUCKET STRAINER 12"	4EA	2017.08	ALGERIA
HyoSung GoodSprings	CALIK ENERJI	MARY 3	Y-STRAINER 10"	8EA	2017.07	TURKEY
HyoSung GoodSprings	Tanjung Power Indonesia	KALSEL-1 COAL FIRED POWER PLANT	BUCKET STRAINER 10"	8EA	2017.07	INDONESIA
HyoSung GoodSprings	GS POWER CO.,LTD	ANYANG Combined Heat & Power plant] #2 CEP	BUCKET STRAINER 14"	6EA	2017.06	Korea
HyoSung GoodSprings	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	GE/JEJU CAPP/CEP	BUCKET STRAINER 8"	6EA	2017.05	Korea
HyoSung GoodSprings	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	GE/JEJU CAPP/BFP	BUCKET STRAINER 6"	6EA	2017.04	Korea

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HyoSung GoodSprings	DAELIM ENERGY	POSEUNG BIOMASS	BUCKET STRAINER 10"	2EA	2017.03	Korea
HyoSung GoodSprings	Sonelgaz	SCT / ALGERIA MEGA DEAL CCPP (NAAMA Site)	BUCKET STRAINER 12"	4EA	2016.10	ALGERIA
HyoSung GoodSprings	Sarulla Operations Ltd	SARULLA	Y-STRAINER 4"	2EA	2016.09	INDONESIA
HyoSung GoodSprings	EEHC (이집트 전력청)	WEST DAMIETTA	DUPLEX-TYPE STR 8"	6EA	2016.08	EGYPT
HyoSung GoodSprings	PODOLSK	THERMOGAS MACHALA	Y-STRAINER 6"	6EA	2016.08	RUSSIA
HyoSung GoodSprings	Therma Visayas, Inc.,	TVEP COP	BUCKET STRAINER 20"	4EA	2016.08	PHILIPPINES
HyoSung GoodSprings	KoreaDistrict Heating Corp.	Hwasung, Dongtan #1&2 District Energy BFP	Y-STRAINER 16"	4EA	2016.08	Korea
HyoSung GoodSprings	KOREA DISTRICT HEATING CORP.	HANSOL SeenTec/ Gwangju -Jeonnam District energy	BUCKET STRAINER 10"	3EA	2016.07	Korea
HyoSung GoodSprings	E-CL S.A.	SK E&C / RED DRAGON	BUCKET STRAINER 24"	2EA	2016.07	CHILE
HyoSung GoodSprings	EEHC (이집트 전력청)	WEST DAMIETTA	DUPLEX-TYPE STR 8"	12EA	2016.07	EGYPT
HyoSung GoodSprings	EEHC (이집트 전력청)	WEST DAMIETTA	TEE STRAINER 18"	8EA	2016.05	EGYPT
HyoSung GoodSprings	Sonelgaz	BISKRA CCPP BFP	BUCKET STRAINER 14"	8EA	2016.04	ALGERIA
HyoSung GoodSprings	Sonelgaz	JIJEL CCPP BFP	BUCKET STRAINER 14"	8EA	2016.04	ALGERIA
HyoSung GoodSprings	CHUNCHEON ENERGY CO.,LTD	POSCO E&C / CHUNCHEON ENERGY LP	BUCKET STRAINER 4"	2EA	2016.03	Korea

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HyoSung GoodSprings	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	Doosan/Seoul Power	BUCKET STRAINER 12"	4EA	2016.03	Korea
HyoSung GoodSprings	EVN (베트남전력공사)	DOOSAN / VINH TAN4	BUCKET STRAINER 22"	6EA	2016.03	VIETNAM
HyoSung GoodSprings	SAFI ENERGY COMPANY	DAEWOO E&C / SAFI BFP	BUCKET STRAINER 18"	4EA	2016.01	MOROCCO
HyoSung GoodSprings	KOREA ELECTRIC POWER CORPORATION(KEPCO)	UAE BNPP	DUPLEX OIL STR 1 1/2"	12EA	2015.12	U.A.E
HyoSung GoodSprings	SEC -PPP	SAMSUNG C&T / RABIGH2 BFP	BUCKET STRAINER 10"	8EA	2015.09	SAUDI ARABIA
HyoSung GoodSprings	Pocheon Power	DAEWOO E&C /Pocheon CCP	BUCKET STRAINER 18"	4EA	2015.09	Korea
HyoSung GoodSprings	Pocheon Power	DAEWOO E&C /Pocheon CCP	BUCKET STRAINER 16"	3EA	2015.08	Korea
HyoSung GoodSprings	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	Shin Boryeong Coal-Fired SCWP	REDUCING PC'S 00"	10EA	2015.07	Korea
HyoSung GoodSprings	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	Shin Boryeong Coal-Fired GSP	BUCKET STR 14", TEMPORARY STR, Y STR	8EA	2015.06	Korea
HyoSung GoodSprings	TNB MANJUNG FIVE SDN BHD	DAELIM /FAST TRACK 4A	BUCKET STRAINER 28"	3EA	2015.06	Malaysia
HyoSung GoodSprings	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	Shin Boryeong Coal-Fired GSP	TEMPORARY STR 10"	6EA	2015.06	Korea
HyoSung GoodSprings	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	Shin Boryeong Coal-Fired CBP	TEMPORARY STR 18"	6EA	2015.05	Korea
HyoSung GoodSprings	TNB MANJUNG FIVE SDN BHD	DAELIM /FAST TRACK 4A	TEMPORARY STR 10"	8EA	2015.04	Malaysia
HyoSung GoodSprings	SEC -PPP	SAMSUNG C&T / RABIGH2	BUCKET STRAINER 22"	6EA	2015.04	SAUDI ARABIA

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HyoSung GoodSprings	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	Shin Boryeong Coal-Fired SCWP	DUPLEX-TYPE STR 32"	2EA	2015.04	Korea
HyoSung GoodSprings	SEC -PPP	SAMSUNG C&T / RABIGH2	BUCKET STRAINER 22"	6EA	2015.04	SAUDI ARABIA
HyoSung GoodSprings	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	Shin Boryeong Coal-Fired BFP	BUCKET STRAINER 20"	4EA	2015.04	Korea
HyoSung GoodSprings	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	Shin Boryeong Coal-Fired COP	BUCKET STRAINER 28"	6EA	2015.04	Korea
HyoSung GoodSprings	Samsung C&T	RABIGH2 BFP	BUCKET STR 10" / 22"	10EA	2015.03	SAUDI ARABIA
HyoSung GoodSprings	DS POWER CO.,LTD	Osan District heating and cooling HP BFP	BUCKET STRAINER 14"	2EA	2015.02	Korea
HyoSung GoodSprings	DS POWER CO.,LTD	Osan District heating and cooling LP BFP	Y-STRAINER 5"	2EA	2015.02	Korea
HyoSung GoodSprings	DAELIM Industrial Co., Ltd.	FAST TRACK 3A	BUCKET STR 28" etc.	10EA	2015.02	Malaysia
HyoSung GoodSprings	KEPCO	OSAN POWER LP/HP BFP	BUCKET STR 14" etc.	4EA	2015.02	Korea
HyoSung GoodSprings	KOREA WESTERN POWER CO.,LTD	Taeon Thermal Power Plant Unit 9&10 Project COP	BUCKET STRAINER 28"	6EA	2015.01	Korea
HyoSung GoodSprings	KOREA WESTERN POWER CO.,LTD	Taeon Thermal Power Plant Unit 9&10 Project LPHDP	TEMPORARY STR 10"	4EA	2015.01	Korea
HyoSung GoodSprings	KOREA WESTERN POWER CO.,LTD	Taeon Thermal Power Plant Unit 9&10 Project	BUCKET STRAINER 20"	6EA	2015.01	Korea
HyoSung GoodSprings	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	Shin Boryeong Coal-Fired GSP	DUPLEX-TYPE STR 10"	1EA	2015.01	Korea
HyoSung GoodSprings	KOREA WESTERN POWER CO.,LTD	Taeon Thermal Power Plant Unit 9&10 Project CBP	TEMPORARY STR 18"	6EA	2015.01	Korea

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3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
Hyosung Goodsprings	POSCO	KHABAT BFP	BUCKET STRAINER 12"	6EA	2014.12	IRAQ
Hyosung Goodsprings	Korea Electric Power Corporation	YEOSU #1 BFP	BUCKET STRAINER 14"	9EA	2014.11	Korea
Hyosung Goodsprings	Korea Electric Power Corporation	YEOSU #1 COP	BUCKET STRAINER 24"	2EA	2014.11	Korea
Hyosung Goodsprings	KOREA WESTERN POWER CO.,LTD	Taeon #9,10	BUCKET STRAINER 20"/16"	6EA	2014.11	Korea
Hyosung Goodsprings	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	SIN BORYEONG 1,2 GSP	BUCKET STRAINER etc.	12EA	2014.10	Korea
Hyosung Goodsprings	KOREA WESTERN POWER CO.,LTD	Taeon #9,10 LPHDP	TEMPOARY STRAINER 10"	4EA	2014.10	Korea
Hyosung Goodsprings	SK E&C	HANAM BFP	BUCKET STRAINER 18"	2EA	2014.10	Korea
Hyosung Goodsprings	KOREA WESTERN POWER CO.,LTD	Taeon #9,10 COP	BUCKET STRAINER 28"	6EA	2014.09	Korea
Hyosung Goodsprings	SK E&C	HANAM COP	BUCKET STRAINER 12"	6EA	2014.09	Korea
Hyosung Goodsprings	KOREA WESTERN POWER CO.,LTD	Taeon #9,10 CBP	TEMPORARY STR 18"	6EA	2014.09	Korea
Hyosung Goodsprings	KOREA SOUTHERN POWER CO.,LTD	SamCheok Green Power LPHDP	TEMPORARY STR 10"	2EA	2014.09	Korea
Hyosung Goodsprings	KOREA SOUTHERN POWER CO.,LTD	SamCheok #1,2 COP / CBP	BUCKET STR 28" etc.	6EA	2014.09	Korea
Hyosung Goodsprings	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	SIN BORYEONG 1,2	BUCKET STR 20"/16"	6EA	2014.08	Korea
Hyosung Goodsprings	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	SIN BORYEONG 1,2 COP	BUCKET STRAINER 28"	6EA	2014.08	Korea

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3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
Hyosung Goodsprings	KEPCO	CIPREL	DUPLEX STRAINER 14"	3EA	2014.08	Cote d'Ivoire
Hyosung Goodsprings	KOREA WESTERN POWER CO.,LTD	Taeon #9,10 CCWP	TEMPORARY STR 30"	4EA	2014.08	Korea
Hyosung Goodsprings	Doosan Heavy Industries	HANAM POWER	Y-STRAINER 8"/6"/10"	6EA	2014.07	Korea
Hyosung Goodsprings	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	SIN BORYEONG 1,2	DUPLEX STRAINER 32"	2EA	2014.06	Korea
Hyosung Goodsprings	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	SIN BORYEONG 1,2	TEMPORARY STR 18"	3EA	2014.06	Korea
Hyosung Goodsprings	KOREA HYDRO & NUCLEAR POWER CO.,LTD	Sin UI Jin #1,2 CWP	DUPLEX STRAINER 1-1/2"	12EA	2014.06	Korea
Hyosung Goodsprings	KOREA HYDRO & NUCLEAR POWER CO.,LTD	Sin UI Jin 1,2CWP	DUPLEX STRAINER 1-1/2"	12EA	2014.05	Korea
Hyosung Goodsprings	KOREA EAST-WEST POWER CO.,LTD	Dang Jin Thermal Power CBP /CCWP	TEMPORARY STR 18"/30"	5EA	2014.05	Korea
Hyosung Goodsprings	SPE	AIN ARNAT	BUCKET STRAINER 12"	6EA	2014.04	ALGERIA
Hyosung Goodsprings	Samsung T&C	PRAI CCGT	BUCKET STRAINER 20"	6EA	2014.03	Malaysia
Hyosung Goodsprings	TOYO	Korea Petrochemical Ind. Co.,LTD	Y- STRAINER 1"	2EA	2014.03	Korea
Hyosung Goodsprings	KOREA SOUTHERN POWER CO.,LTD	Sam Cheok Green Power LPHDP	TEMPORARY STR 10"	4EA	2014.02	Korea
Hyosung Goodsprings	KOREA SOUTHERN POWER CO.,LTD	SamCheok #1,2 COP	BUCKET STRAINER 28"	6EA	2014.02	Korea
Hyosung Goodsprings	KEPCO	UAE BNPP	DUPLEX STRAINER 1-1/2"	24EA	2014.01	U.A.E

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3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
Hyosung Goodsprings	KOREA SOUTHERN POWER CO., LTD	SamCheok #1,2 CBP	TEMPORARY STRAINER 18"	6EA	2014.01	Korea
Hyosung Goodsprings	Doosan Heavy Industries	Ha Nam si Cogeneration	Y-STRAINER 8" etc	6EA	2013.12	Korea
Hyosung Goodsprings	KOREA EAST-WEST POWER CO., LTD	Dang Jin Thermal Power #9,10	TEMPORARY STRAINER 10"	4EA	2013.11	Korea
Hyosung Goodsprings	POSCO	Ansan Clean Energy	TEE STRAINER 28"/76"	4EA	2013.11	Korea
Hyosung Goodsprings	POSCO	Brazil CSP	TEE STRAINER 64"	6EA	2013.11	BRAZIL
Hyosung Goodsprings	Samsung C&T	Dongducheon combined cycle	BUCKET STRAINER 18"	6EA	2013.08	Korea
Hyosung Goodsprings	MHI	GUACOLDA	Y-STRAINER 3"/4"/6"	6EA	2013.08	CHILE
Hyosung Goodsprings	KEPCO	GHANA TAKORADI T2	BUCKET STRAINER 8"	6EA	2013.06	GHANA
Hyosung Goodsprings		Dongducheon dream power / Dongducheon combined cycle	BUCKET STRAINER 12"/4"	12EA	2013.04	Korea
Hyosung Goodsprings	FHI/CFB BOILERS OF PETRON	FHT/THI-2 PJT	Y-STRAINER 8"	12EA	2013.02	
Hyosung Goodsprings	Doosan Heavy Industries	Yang Ju Cogeneration HRSG	Y- STRAINER 8" etc	8EA	2013.01	Korea
Hyosung Goodsprings	SK E&C	TUFANBEYLI TTP	BUCKET STRIANER 12"	6EA	2013.01	TURKEY
Hyosung Goodsprings	SK E&C	TUFANBEYLI COP	BUCKET STRIANER 12"	6EA	2012.12	TURKEY
Hyosung Goodsprings	Doosan Heavy Industries / Hanjin Heavy Industries	Yang Ju HRSG	BUCKET STRAINER 12"	4EA	2012.12	Korea

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3. Experience

3.1 Onshore

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Hyosung Goodsprings	Doosan Heavy Industries	Se Jong Cogeneration HRSG	Y-STRAINER 12"	6EA	2012.11	Korea
Hyosung Goodsprings	Doosan Heavy Industries	ERZIN PJT	Y-STRAINER 8" (CE PED certification)	6EA	2012.11	
Hyosung Goodsprings		Young Heung Thermal Power #5,6 LPHDP	TEMPORARY STR 10"	8EA	2012.09	Korea
Hyosung Goodsprings	Daewoo E&C	SHUWEIHAT S3 IPP	Y-STRAINER 10"	4EA	2012.09	U.A.E
Hyosung Goodsprings	Hyundai Heavy Industries	UCH-2 EXPANSION	BUCKET STRAINER 10"	4EA	2012.09	Pakistan
Hyosung Goodsprings	Doosan Heavy Industries	Se Jong Cogeneration	Y-STRAINER 8"	4EA	2012.09	Korea
Hyosung Goodsprings	KOREA SOUTH-EAST POWER Co.	Young Heung Thermal Power #5,6	BUCKET STRAINER 18"	6EA	2012.09	Korea
Hyosung Goodsprings	Hyundai Engineering & Construction	NEW HARIPUR	TEMPORARY STR 20"	4EA	2012.09	Bangladesh
Hyosung Goodsprings	Daewoo E&C	SHUWEIHAT S3 IPP	BUCKET STRAINER 14"	6EA	2012.08	U.A.E
Hyosung Goodsprings	Doosan Heavy Industries	Young Heung Thermal Power #5,6 boiler feed pump	TEMPORARY STR 3" etc	24EA	2012.08	Korea
Hyosung Goodsprings	SK E&C	Gim Cheon Energy Group	TEE STRAINER 14"	2EA	2012.07	Korea
Hyosung Goodsprings	Hyundai Green Power	Steel Thermal Power	BUCKET STRAINER 16"	4EA	2012.07	
Hyosung Goodsprings	POSCO	Dong Hae Biomass	BUCKET STRAINER 8"	2EA	2012.07	Korea
Hyosung Goodsprings	SECL	NORTE 2	BUCKET STRAINER 18"	2EA	2012.05	MEXICO

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3. Experience

3.1 Onshore

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Hyosung Goodsprings	Doosan Heavy Industries	IEC ADD ON	BUCKET STRAINER 16"	2EA	2012.03	ISRAEL
Hyosung Goodsprings	DAELIM Industrial Co., Ltd.	MDI 250KT	TEMPORARY STRAINER 4"	2EA	2012.03	CHINA
Hyosung Goodsprings	Hyundai ENG	NEW HARIPUR	Y-STRAINER 8"	2EA	2012.02	Bangladesh
Hyosung Goodsprings	POSCO		TEMPORARY STRAINER 6"	2EA	2012.02	
Hyosung Goodsprings	KOREA SOUTH-EAST POWER Co.	Young Heung #5,6 CBP	TEMPORARY STR 16"	12EA	2012.01	Korea
Hyosung Goodsprings	KOREA SOUTH-EAST POWER Co.	Young Heung #5,6 COP	BUCKET STRAINER 26"	6EA	2012.01	Korea
Hyosung Goodsprings		MARAFIQ PJT	TEMPORARY STRAINER 3"	12EA	2012.01	SAUDI ARABIA
Hyosung Goodsprings	KOREA HYDRO & NUCLEAR POWER CO.,LTD	Kori.Khnp	DUPLEX STRAINER 3/4"	4EA	2011.11	Korea
Hyosung Goodsprings	GS E&C / OMAN	AL SUWADI POWER COMPANY SAOC	TEE STRAINER 600LB 10"	6EA	2011.11	OMAN
Hyosung Goodsprings	GS E&C / OMAN	AL SUWADI POWER COMPANY SAOC	TEE STRAINER 150LB 10"	4EA	2011.11	OMAN
Hyosung Goodsprings	GS E&C / OMAN	AL SUWADI POWER COMPANY SAOC	Y STRAINER 150LB 20"	2EA	2011.08	OMAN
Hyosung Goodsprings	SK E&C	OH SEONG COMBINED CYCLE	Y STRAINER 150LB 24"	2EA	2011.08	Korea
Hyosung Goodsprings	POSCO	CHILCAUNO	TEE STRAINER 300LB 26"	2EA	2011.07	
Hyosung Goodsprings	EUAS	EPP/EUAS/AMBARLT PJT	Y STRAINER 150# 8"	8EA	2011.06	

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3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
Hyosung Goodsprings	DAEWOO E&C	NAOC	TEMPORARY STRAINER	2EA	2011.05	
Hyosung Goodsprings	TAIHAN ELECTRIC WIRE		TEMPORARY STRAINER	2EA	2011.05	
Hyosung Goodsprings	FHI/CFB BOILERS OF PETRON	FHT/THI-1 PJT	Y STRAINER 150# 8"	8EA	2011.03	
Hyosung Goodsprings	GS E&C	OMAN	DUPLEX-TYPE STR 150LB 12"	12EA	2011.03	OMAN
Hyosung Goodsprings	HANWHA E&C	MARAFIQ STG 5&6 PJT	BASKET STR 300# 12"	6EA	2011.03	SAUDI ARABIA
Hyosung Goodsprings	SAUDI ARAMCO TOTAL	JERP#5B	TEMPORARY STR 150LB 18"	2EA	2011.01	SAUDI ARABIA
Hyosung Goodsprings		OSEONG CCPP	Y STRAINER 600LB 8"	3EA	2011.01	Korea
Hyosung Goodsprings	LOTTE E&C	AL QATRANA POWER	BASKET STR 300# 12"	16EA	2010.08	
Hyosung Goodsprings	Doosan Heavy Industries	GENAVEH PJT	BASKET STR 150# 16"	2EA	2010.01	
Hyosung Ebara	KOREA HYDRO & NUCLEAR POWER CO.,LTD	NEW KORI #3,4	DUPLEX BASKET STR 150# 1 1/2"	12EA	2010.05	Korea
Hyosung Ebara	Hyundai Eng	SIPCO	BUCKET STRAIENR 150# 6"	4EA	2010.01	Thailand
Hyosung Ebara	POSCO	POSCO POWER LNG COMBINED CYCLE #5,6	BUCKET STRAIENR 300# 10"	4EA	2009.09	Korea
Hyosung Ebara	Samsung E&c	ADEWA SHUWEIHAT S2 IWPP	BUCKET STRAIENR 300# 14"	6EA	2009.01	U.A.E
SHIN SHIN MACHINERY CO., LTD.	KOMIPO (KOREA MIDLAND POWER CO., LTD.)	GE/JEJU LNG CCPP CWP EC22	Y-STRAINER 16"	4EA	2017.04	Korea

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3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
SHIN SHIN MACHINERY CO., LTD.	CHUNCHEON ENERGY CO.,LTD	POSCO E&C / CHUNCHEON ENERGY MCWP & ACWP	BUCKET STRAINER 48"	3EA	2016.02	Korea
DAE-A PUMP CO.,LTD	GS POWER CO.,LTD	ANYANG Combined Heat & Power plant] #2	BUCKET STRAINER 28"	4EA	2017.04	Korea
DUKJI	Hyundai Engineering & Construction	Talimarjan Thermal Power Plant Expansion	BUCKET STRAINER 6"	8EA	2015.05	Uzbekistan
E-TEC E&C Limited	Solvay Fluor Korea Co.,Ltd	F1EC PJT	Y-STRAINER 300# 3" etc	14EA	2009.06	
E-TEC E&C Limited	Gunjang energy Co.,Ltd	LP PJT	BUCKET STRAINER 8"	2EA	2016.11	Korea
SASAKURA Engineering			DUPLEX STRAINER	2EA	2010.09	
Sewon Cellontech	Hyundai Steel		DUP.OIL STR. 10K 250A etc	31EA	2009.03	
KC cottrell	GHECO	GHECO ASH HANDLING SYSTEM	DUP.OIL STR. 150LB 8"	1EA	2010.09	
JEONGWOO INDUSTRIAL	KOREA HYDRO & NUCLEAR POWER CO.,LTD	NEW KORI #3,4	SIMPLEX STR. 150# 2",10" 300# 1 1/2",3"	78EA	2009.09	Korea
JEONGWOO INDUSTRIAL	KOREA HYDRO & NUCLEAR POWER CO.,LTD	NEW WOLSUNG #1,2 P216	DUPLEX STR. 150# 2",4",300#3"	92EA	2009.04	Korea
JEONGWOO INDUSTRIAL	KOREA HYDRO & NUCLEAR POWER CO.,LTD	NEW KORI #1,2 P216	Y STRAINER 150# 1", 300# 1"	30EA	2008.03	Korea
JEONGWOO INDUSTRIAL	HYUNDAI	NEW ETHANE RECOVERY PLANT PJT	BASKET STR. 150# 4",6", 10",12"	14EA	2007.07	
HWA SAN	Q-POWER	RAS LASFFAN	BASKET STR. 300# 350A	16EA	2009.06	
HWA SAN	ELECTRICA ANGAMOS	ANGAMOS PJT	BUCKET STR. 300# 250A	6EA	2009.04	

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3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
HWA SAN	Hyundai Heavy Industries	PAJU CHPP	Y STRAINER 150# 250A	3EA	2009.03	Korea
HOSAN	Hyundai Heavy Industries	UAE BNPP 3&4	DUPLEX STR 150# 1 ½"	6EA	2015.02	U.A.E
HOSAN	Hyundai Heavy Industries	AMOS & ANAA BFP	DUPLEX STR 150# 1 ½"	16EA	2015.01	ALGERIA
HOSAN	Hyundai Heavy Industries	JEDDAH SOUTH	WATER STR.150# 8"	38EA	2014.11	SAUDI ARABIA
HOSAN	Hyundai Heavy Industries	AZ-ZOUR NORTH	DUPLEX STR 150# 1 ½"	20EA	2014.11	Kuwait
HOSAN	Hyundai Heavy Industries	TALIMARJAN CWP	WATER STR. 150# 1"	16EA	2014.09	Uzbekistan
HOSAN	Hyundai Heavy Industries	POSCO KHABAT	DUPLEX STR 150# 1 ½"	6EA	2014.08	IRAQ
HOSAN	Hyundai Heavy Industries	BUK-PYEONG THERMAL P/P 1&2	Multi type duplex 24", 20"	5EA	2014.05	Korea

3. Experience

3.2 Offshore

Customer	End User	Project	Products	Q,ty	Date	Location
Daewoo Shipbuilding & Marine Engineering	INPEX	H6054 (ICHTHY HULL/TOPSIDE)	CONE STRAINER, TEE STRAINER	223EA	2014.02	
Daewoo Shipbuilding & Marine Engineering	UK Government	7044/UK MARS TANKER	WATER STR 600A etc	192EA	2014.09	
Daewoo Shipbuilding & Marine Engineering	Maersk Drilling	3305 / Jack-Up Rig	WATER STRAINER 16" etc	83EA	2014.11	
Daewoo Shipbuilding & Marine Engineering	Transocean	3511 / DRILL SHIP	WATER STR 700A etc	166EA	2014.12	
Daewoo Shipbuilding & Marine Engineering	UK Government	7044/UK MARS TANKER	WATER STR 600A etc	114EA	2015.03	
Daewoo Shipbuilding & Marine Engineering	3031/3032	SONGA	WATER STRAINER 12" etc	546EA	2013.04	
Daewoo Shipbuilding & Marine Engineering	3034/3035	SONGA	WATER STRAINER 12" etc	546EA	2013.11	
Daewoo Shipbuilding & Marine Engineering	ALLSEAS	H3401	WATER STR 650A etc	200EA	2012.07	
Daewoo Shipbuilding & Marine Engineering	HEEREMA MARINE	H3402	WATER STR 650A etc	135EA	2011.07	
Daewoo Shipbuilding & Marine Engineering	TOTAL	CLOV	T - STRAINER etc	186EA	2011.08	
Daewoo Shipbuilding & Marine Engineering	CAROLINA MARINE. INC	CAROLINA DEEPWATER	MUD BOX 5K 80A etc	292EA	2010.02	
Daewoo Shipbuilding & Marine Engineering	HEEREMA MARINE	HEEREMA LAUNCH	WATER STR 650A etc	12EA	2010.03	
Daewoo Shipbuilding & Marine Engineering	ODEBRECHT DRILLSHIP ODN	H3609	WATER STR 650A etc	139EA	2010.09	
Daewoo Shipbuilding & Marine Engineering	ODEBRECHT DRILLSHIP ODN	H3610	WATER STR 650A etc	139EA	2010.12	

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3. Experience

3.2 Offshore

Customer	End User	Project	Products	Q,ty	Date	Location
Daewoo Shipbuilding & Marine Engineering	Petroserv	H3028	WATER STR 650A etc	269EA	2010.12	
Daewoo Shipbuilding & Marine Engineering	ODEBRECHT OIL&GAS	ODEBRECHT DRILLSHIP H3603/4	MUD BOX 5K 80A etc	292EA	2009.09	
Samsung Heavy Industries	ENI	Coral South Development	STRAINER & MUD BOX	188EA	2018.12	
Samsung Heavy Industries	BP	MAD DOGII	STRAINER & MUD BOX	333EA	2018.1	
Samsung Heavy Industries	BP	MAD DOGII	BIRD SCREEN	28EA	2018.1	
Samsung Heavy Industries	TOTAL	EGINA HULL	STRAINER	41EA	2015.07	
Samsung Heavy Industries	TOTAL	EGINA TOPSIDE	STRAINER	69EA	2015.06	
Samsung Heavy Industries	PETRONAS	2126(F LNG)	STRAINER	34EA	2015.06	
Samsung Heavy Industries	STENA DRILL SHIP	2097(SEMI-RIG)	STRAINER	177EA	2015.03	
Samsung Heavy Industries	STATOIL	7118(JACK UP RIG)	STRAINER	49EA	2015.04	
Samsung Heavy Industries	OCEAN RIG	7121	MUD DUMP VALVE, BASKET STRAINER	36EA	2014.09	
Samsung Heavy Industries	SEADRILL	7120	MUD DUMP VALVE, BASKET STRAINER	31EA	2014.09	
Samsung Heavy Industries	SEADRILL	7119	MUD DUMP VALVE, BASKET STRAINER	36EA	2014.07	
Samsung Heavy Industries	Maersk Drilling	7105	TEMPORARY STRAINER	2EA	2013.03	

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3. Experience

3.2 Offshore

Customer	End User	Project	Products	Q,ty	Date	Location
Samsung Heavy Industries	SEADRILL	7109	MUD DUMP VALVE, BASKET STRAINER	20EA	2013.03	
Samsung Heavy Industries	SHELL	2030(FLNG)	STRAINER	191EA	2013.04	
Samsung Heavy Industries	SEADRILL	7110	MUD DUMP VALVE, BASKET STRAINER	20EA	2013.05	
Samsung Heavy Industries	Pacific Drilling	7112	MUD DUMP VALVE, BASKET STRAINER	36EA	2013.05	
Samsung Heavy Industries	Pacific Drilling	7112	MUD DUMP VALVE, BASKET STRAINER	36EA	2013.05	
Samsung Heavy Industries	SEADRILL	7111	MUD DUMP VALVE, BASKET STRAINER	20EA	2013.06	
Samsung Heavy Industries	SEADRILL	7114	MUD DUMP VALVE, BASKET STRAINER	20EA	2013.08	
Samsung Heavy Industries	OCEAN RIG	7104	MUD DUMP VALVE, BASKET STRAINER	21EA	2013.09	
Samsung Heavy Industries	Pacific Drilling	7116	MUD DUMP VALVE, BASKET STRAINER	22EA	2013.01	
Samsung Heavy Industries	PRIDE DRILL SHIP	7091	MUD DUMP VALVE, BASKET STRAINER	20EA	2012.04	
Samsung Heavy Industries	OCEAN RIG	7094	MUD DUMP VALVE	17EA	2012.05	
Samsung Heavy Industries	SEADRILL	7098	MUD DUMP VALVE, BASKET STRAINER	30EA	2012.06	
Samsung Heavy Industries	SEADRILL	7093	MUD DUMP VALVE, BASKET STRAINER	20EA	2012.07	
Samsung Heavy Industries	Pacific Drilling	7095	MUD DUMP VALVE, BASKET STRAINER	33EA	2012.07	

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3. Experience

3.2 Offshore

Customer	End User	Project	Products	Q,ty	Date	Location
Samsung Heavy Industries	OCEAN RIG	7096	MUD DUMP VALVE	16EA	2012.08	
Samsung Heavy Industries	Pacific Drilling	7097	MUD DUMP VALVE	25EA	2012.01	
Samsung Heavy Industries	OCEAN RIG	7103	MUD DUMP VALVE	16EA	2012.01	
Samsung Heavy Industries	Maersk Drilling	7099	TEMPORARY STRAINER	11EA	2012.11	
Samsung Heavy Industries	Maersk Drilling	7101	TEMPORARY STRAINER	11EA	2012.12	
Samsung Heavy Industries	DELBA MARITINA (Petrobras)	7086	MUD DUMP VALVE	16EA	2011.04	
Samsung Heavy Industries	DELBA MARITINA (Petrobras)	7088	MUD DUMP VALVE	16EA	2011.06	
Samsung Heavy Industries	DELBA MARITINA (Petrobras)	7088	BASKET STRAINER	5EA	2011.07	
Samsung Heavy Industries	CHEVRON	JACK & MALO 7089	BASKET STRAINER	63EA	2011.08	
Samsung Heavy Industries	SCHAHIN #1	7079	TEMPORARY STR. 150# 10" etc	14EA	2010.01	
Samsung Heavy Industries	TANKER PACIFIC MANAGEMENT PTE.	7074	TEMPORARY STR. 150# 10"	11EA	2010.01	
Samsung Heavy Industries	Gazflot #2	7075	TEMPORARY STR. 150# 8" etc	13EA	2010.02	
Samsung Heavy Industries	CARDIFF DRILLSHIP	7071	TEMPORARY STR. 150# 10"	8EA	2010.02	
Samsung Heavy Industries	PRIDE INTERNATIONAL	7067	TEMPORARY STR. 150# 6" etc	3EA	2010.03	

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3. Experience

3.2 Offshore

Customer	End User	Project	Products	Q,ty	Date	Location
Samsung Heavy Industries	CARDIFF DRILLSHIP	7080	MUD DUMP VALVE	16EA	2010.04	
Samsung Heavy Industries	SEADRILL	7045	BUCKET STRAINER 10K 45 0A	2EA	2010.04	
Samsung Heavy Industries	MOSVOLD DRILLING LTD.	7081	MUD DUMP VALVE	16EA	2010.05	
Samsung Heavy Industries	STENA DRILL SHIP	7078	BUCKET STRAINR 150# 10"	20EA	2010.06	
Samsung Heavy Industries	SCHAHIN #2	7082	MUD DUMP VALVE	16EA	2010.08	
Samsung Heavy Industries	PRIDE #4	7085	MUD DUMP VALVE	16EA	2010.08	
Samsung Heavy Industries	ETESCO DRILL SHIP	7084	MUD DUMP VALVE	16EA	2010.08	
Samsung Heavy Industries	SAIPEM	7064	TEMPORARY STR. 150# 4" etc	2EA	2009.11	
Hyundai Heavy Industries	LLOG EXPLORATION CO., L.L.C.	King's Quay FPS HP-12(HULL)	WATER & Y STRAINER	8ea	2019.08	
Hyundai Heavy Industries	LLOG EXPLORATION CO., L.L.C.	King's Quay FPS ME-0065 (TOPSIDE)	TEE STRAINER	18EA	2019.10	
Hyundai Heavy Industries	TOTAL	BADAMYAR	STRAINER 150# 3" etc.	7EA	2015.06	
Hyundai Heavy Industries	TOTAL	Moho-Nord FPU TOPSIDE	STRAINER 150# 18" etc.	69EA	2014.03	
Hyundai Heavy Industries	RASGAS	FLOW ASSURANCE	STRAINER 2500# 2" etc.	16EA	2014.09	
Hyundai Heavy Industries	QATARGAS	FLOW ASSURANCE	STRAINER 2500# 2" etc.	6EA	2014.09	

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Customer	End User	Project	Products	Q,ty	Date	Location
Hyundai Heavy Industries	RASGAS	BARZAN	STRAINER 150# 8" etc.	54EA	2013.04	
Hyundai Heavy Industries	BP	Q204	SURFACE V/V	28EA	2013.07	
Hyundai Samho Heavy Industries	TOTAL	Moho-Nord FPU HULL	STRAINER 150# 16" etc.	30EA	2014.09	

3. Experience

3.3 Overseas

Customer	End User	Project	Products	Q,ty	Date	Location
TSHJ	KIPIC	AL-ZOUR #1	STRAINER	646EA	2018.04	KUWAIT
CSTS	BP	TANGGUH ONSHORE	STRAINER	127EA	2018.02	INDONESIA
YONEDA(TOYO)	INDORAMA	IEFCL2	STRAINER	150EA	2019	NIGERIA
YONEDA(TOYO)	SCG	MOCD2	STRAINER	104EA	2019	Thailand
YONEDA(TOYO)	SCG	MOCD2(2nd)	STRAINER	15EA	2019	Thailand
YONEDA(IKPT)	PBI	B1MTBE	STRAINER	60EA	2019.05	INDONESIA
YONEDA(IKPT)	PBI	B1MTBE(2nd)	STRAINER	4EA	2019.05	INDONESIA
YONEDA(JGC)	TAGANITO	TAGANITO	STRAINER	3EA	2019.03	PHILIPPINES
YONEDA(JGC)	Pilipinas KAo	PKI PFM	STRAINER	48EA	2018.10.	PHILIPPINES
YONEDA(JGC)	PERSERO	M.TAWARA	STRAINER	32EA	2019.03	INDONESIA
YONEDA(MHI)	Navoiyazot JSC	UNF	STRAINER	148EA	2018.06	Uzbekistan
YONEDA	Petro Rabigh	Rabigh 2 UOSP	STRAINER	6EA	2018.06	SAUDI ARABIA
YONEDA	MHPS	IHC 1294	STRAINER	4EA	2018.04	JAPAN
YONEDA	MHPS	H5325	STRAINER	2EA	2018.04	JAPAN

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3.3 Overseas

Customer	End User	Project	Products	Q,ty	Date	Location
YONEDA(JGC)	Banagas	CGP3 (3 rd)	STRAINER	187EA	2018.04	BARAIN
YONEDA	MHPS	IHC	STRAINER	2EA	2018.03	NETHERLANDS
YONEDA	MHPS	COSCO	STRAINER	1EA	2018.03	CHINA
YONEDA(JGC)	SONATRACH	HMD (Hassi Messaoud) (3 rd)	INJECTION NOZZLE	3EA	2018.03	ALGERIA
YONEDA	MHPS	H.1222	STRAINER	2EA	2017.12	JAPAN
YONEDA(JGC)	SONATRACH	HMD (Hassi Messaoud) (3 rd)	STRAINER	10EA	2017.10	ALGERIA
YONEDA(JGC)	SONATRACH	HMD (Hassi Messaoud) (2 nd)	INJECTION NOZZLE	35EA	2017.09	ALGERIA
YONEDA(JGC)	SONATRACH	HMD (Hassi Messaoud) (2 nd)	STRAINER	38EA	2017.09	ALGERIA
YONEDA(JGC)	BANAGAS	CGP3 (2 nd)	STRAINER	27EA	2017.08	BARAIN
YONEDA(JGC)	PETRON	LOBP (2 nd)	STRAINER	57EA	2017.08	PHILIPPINES
YONEDA(SAIPEM)	PETAMINAR	BP TANGGUH	STRAINER	3EA	2017.07	INDONESIA
YONEDA(JGC)	PETRON	LOBP (1 st))	STRAINER	31EA	2017.06	PHILIPPINES
YONEDA(JGC)	SONATRACH	HMD (Hassi Messaoud) (1 st)	STRAINER	69EA	2017.05	ALGERIA
YONEDA(JGC)	SONATRACH	HMD (Hassi Messaoud) (1 st)	INJECTION NOZZLE	115EA	2017.05	ALGERIA

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Customer	End User	Project	Products	Q,ty	Date	Location
YONEDA(IKPT)	SRI	SRI U3 017A	STRAINER	60EA	2017.01	INDONESIA
YONEDA(IKPT)	SRI	SRI U3 018A	STRAINER	190EA	2017.01	INDONESIA
YONEDA(JGC)	Banagas	CGP3 (1 st)	STRAINER	108EA	2017.01	BARAIN
YONEDA	KOBELCO	ZAPSIB NEFTEKHIM	STRAINER	2EA	2017.01	JAPAN
YONEDA	KOBELCO	KT PROJECT	STRAINER	2EA	2017.01	JAPAN
YONEDA(IKPT)	SRI	SRI U3 018B	STRAINER	47EA	2016.12	INDONESIA
YONEDA(Hitachi)	UMM AL HOUR	RSH 4576	STRAINER	30EA	2016.07	QATAR
YONEDA(KOBELCO)	PETRONAS	RAPID PROJECT-SCC	STRAINER	1EA	2016.07	JAPAN
YONEDA(Hitachi)	UMM AL HOUR	RSH 4574	STRAINER	26EA	2016.06	QATAR
MHI	PETROBRAS	MODEC PETROBRAS MV24	STRAINER & SPARE	25EA	2015.12	BRAZIL
MHI	PETROBRAS	MODEC PETROBRAS MV25	STRAINER & SPARE	9EA	2014.05	BRAZIL
MHI	PETROBRAS	MODEC PETROBRAS MV26	STRAINER & SPARE	36EA	2013.08	BRAZIL
MHPS	PETROBRAS	MODEC PETROBRAS MV29	STRAINER & SPARE	41EA	2016.09	BRAZIL
HK ENG	JURONG	STR 11-1116&7 1 SHIPSET	STRAINER	54EA	2017.12	SINGAPORE

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Customer	End User	Project	Products	Q,ty	Date	Location
HK ENG	JURONG	STRAINERS P68	STRAINER	19EA	2017.11	SINGAPORE
HK ENG	JURONG	STRAINER FOR 11-1120	STRAINER	59EA	2017.05	SINGAPORE
HK ENG	JURONG	MUD BOX TOP UP REV2 11-1119	STRAINER	6EA	2017.03	SINGAPORE
HK ENG	JURONG	DRU-4	STRAINER	70EA	2016.12	SINGAPORE
HK ENG	SEMCORP	MUD BOX FOR GINA KROG	STRAINER	7EA	2016.08	SINGAPORE
HK ENG	SEMCORP	STRAINER FOR GINA KROG	STRAINER	5EA	2016.08	SINGAPORE
HK ENG	JURONG	Y-STR TOP UP REV1 FOR 1115	STRAINER	3EA	2016.03	SINGAPORE
YONEDA	KOBELCO	RAPID PROJECT-SCC	STRAINER	1EA	2016.07	JAPAN
YONEDA	HITACHI	RSH 4574	STRAINER	26EA	2016.06	QATAR
MHI	PETROBRAS	MODEC PETROBRAS MV24	STRAINER & SPARE	25EA	2015.12	BRAZIL
MHI	PETROBRAS	MODEC PETROBRAS MV25	STRAINER & SPARE	9EA	2014.05	BRAZIL
MHI	PETROBRAS	MODEC PETROBRAS MV26	STRAINER & SPARE	36EA	2013.08	BRAZIL
MHPS	PETROBRAS	MODEC PETROBRAS MV29	STRAINER & SPARE	41EA	2016.09	BRAZIL
HK ENG	JURONG	STR 11-1116&7 1 SHIPSET	STRAINER	54EA	2017.12	SINGAPORE

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3. Experience

3.3 Overseas

Customer	End User	Project	Products	Q,ty	Date	Location
HK ENG	JURONG	STRAINERS P68	STRAINER	19EA	2017.11	SINGAPORE
HK ENG	JURONG	STRAINER FOR 11-1120	STRAINER	59EA	2017.05	SINGAPORE
HK ENG	JURONG	MUD BOX TOP UP REV2 11-1119	STRAINER	6EA	2017.03	SINGAPORE
HK ENG	JURONG	DRU-4	STRAINER	70EA	2016.12	SINGAPORE
HK ENG	SEMCORP	MUD BOX FOR GINA KROG	STRAINER	7EA	2016.08	SINGAPORE
HK ENG	SEMCORP	STRAINER FOR GINA KROG	STRAINER	5EA	2016.08	SINGAPORE
HK ENG	JURONG	Y-STR TOP UP REV1 FOR 1115	STRAINER	3EA	2016.03	SINGAPORE
HK ENG	JURONG	STR TOP UP REV2 FOR 11-1115	STRAINER	3EA	2016.03	SINGAPORE
HK ENG	JURONG	STR TOP-UP 11-1114	STRAINER	9EA	2016.01	SINGAPORE
HK ENG	JURONG	STR TOP UP FOR 11-1114	STRAINER	5EA	2015.11	SINGAPORE
HK ENG	JURONG	STRAINER TOP UP 11-1115	STRAINER	6EA	2015.08	SINGAPORE
HK ENG	KEPPEL	65A DUPLEX FPSO ARMADA ALI	STRAINER	3EA	2015.08	SINGAPORE
HK ENG	KEPPEL	BASKET FPSO ALI	STRAINER	5EA	2015.07	SINGAPORE
HK ENG	JURONG	STRAINER FOR 11-1118	STRAINER	28EA	2015.04	SINGAPORE

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3. Experience

3.3 Overseas

Customer	End User	Project	Products	Q,ty	Date	Location
HK ENG	KEPPEL	BASKET STR FPSO ARMADA ALI	STRAINER	11EA	2015.04	SINGAPORE
HK ENG	KEPPEL	DUPLEX STR FPSO ARMADA ALI	STRAINER	3EA	2015.04	SINGAPORE
HK ENG	JURONG	STRAINER FOR 22-0331	STRAINER	49EA	2015.03	SINGAPORE
HK ENG	JURONG	DRU-3	STRAINER	71EA	2015.03	SINGAPORE
HK ENG	JURONG	STRAINER FOR 11-1115	STRAINER	52EA	2015.01	SINGAPORE
HK ENG	JURONG	STRAINER FOR 11-1114	STRAINER	76EA	2014.12	SINGAPORE
HK ENG	KEPPEL	C7 FPSO	STRAINER	2EA	2014.06	SINGAPORE
HK ENG	JURONG	MUD BOX TOP-UP FOR 11-1112	STRAINER	48EA	2014.05	SINGAPORE
HK ENG	JURONG	DRU-2	STRAINER	71EA	2014.03	SINGAPORE
HK ENG	JURONG	DRU-7	STRAINER	70EA	2014.01	SINGAPORE
HK ENG	KEPPEL	Y-STRAINER FOR BANYU URIP	STRAINER	22EA	2013.12	SINGAPORE
HK ENG	KEPPEL	MUD BOX FOR BANYU URIP	STRAINER	6EA	2013.11	SINGAPORE
HK ENG	KEPPEL	SIMPLEX STR'S FOR BANYU URIP	STRAINER	27EA	2013.11	SINGAPORE
HK ENG	KEPPEL	FSO-UOTE	STRAINER	2EA	2013.08	SINGAPORE

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3. Experience

3.3 Overseas

Customer	End User	Project	Products	Q,ty	Date	Location
HK ENG	KEPPEL	FPSO LAMSON	STRAINER	20EA	2013.08	VIETNAM
TECHNIP FMC	SHELL	FLNG	STRAINER	20EA	2017.11	AUSTARIA
TEEKAY SHIPPING LIMITED		AL SHAMAL	STRAINER	12EA	2013.02	CANADA
A.P.Moller-MAERSK	MAERSK	9091-9131	STRAINER(Spare)	1497EA	2015.05	DENMARK
SASAKURA ENGINEERING		JPAN DRILLING	STRAINER	16EA	2015.03	JAPAN
SASAKURA ENGINEERING	PPL	PPL SHIPYARD - P2050	STRAINER	8EA	2013.07	JAPAN
ARAMCO ASIA	ARAMCO	SHAYBAH	STRAINER	9EA	2016.04	JAPAN
SEPCO 3	KNPC	Az-Zour South CCGT-3	STRAINER	15EA	2018.06	KUWAIT
FLUOR	KIPIC	AL-ZOUR (1 st)	STEAM RING	77EA	2018.01	KUWAIT
FLUOR	KIPIC	AL-ZOUR (2 nd)	STEAM RING	4EA	2018.03	KUWAIT
CCJV(CTCI & CHIYODA)	PETRONAS	RAPID #1 (2 nd)	STRAINER	125EA	2017.05	Malaysia
CCJV(CTCI & CHIYODA)	PETRONAS	RAPID #1 (1 st)	STRAINER	550EA	2016.12	Malaysia
TURCOMP	SAPURAKANCANA	SK310	STRAINER	17EA	2016.10	Malaysia
TURCOMP	PETRONAS	ZT385	STRAINER	2EA	2016.08	Malaysia

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3.3 Overseas

Customer	End User	Project	Products	Q,ty	Date	Location
NEXT PETROLEUM	EXXON MOBIL	GUNTONG-A	STRAINER (Y)	6EA	2018.04	Malaysia
NEXT PETROLEUM	EXXON MOBIL	GUNTONG-A	STRAINER(Cone)	6EA	2017.08	Malaysia
NEXT PETROLEUM	EXXON MOBIL	GUNTONG-A	STRAINER(Cone)	6EA	2017.08	Malaysia
NEXT PETROLEUM	EXXON MOBIL	TAPIS A	STRAINER	10EA	2015.04	Malaysia
EMERSON(MALAYSIA)	PETRONAS	NEW ANGSI COM	STRAINER	2EA	2018.04	Malaysia
EMERSON(SINGAPORE)	ARAMCO	JAZAN	STRAINER	3EA	2016.10	SINGAPORE
EMERSON(SINGAPORE)	ARAMCO	JAZAN	STRAINER	3EA	2017.05	SINGAPORE
ALIOGAZ KUKUH SDN BHD	PETRONAS	TALISMAN	STRAINER	2EA	2016.07	Malaysia
SEPADU TECH	PETRONAS	ANJUNG	STRAINER	8EA	2018.03	Malaysia
INO INTERNATIONAL	ORPIC	Liwa Plastics	STRAINER	3EA	2018.01	OMAN
INO INTERNATIONAL	ORPIC	LIWA PRASTIC	STRAINER	2EA	2017.08	OMAN
FASTLINE	OXY		BUCKET STRAINER	70EA	2017.10.	OMAN
RASGAS	RASGAS	BARZAN, FAP	STRAINER	100EA	2014.01	QATAR
QATARGAS	QATARGAS	FAP	STRAINER	40EA	2015.07	QATAR

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SSA	SECL SAUDI	TOCGC 2	STRAINER	2EA	2015.10	SAUDI ARABIA
SSA	SECL SAUDI	CO2	STRAINER	21EA	2015.04	SAUDI ARABIA
VELOCITY	Vietsovetro	CA TAM	STRAINER	15EA	2018.04	SINGAPORE
ATTATECH	PTT Terminal	PTT Sriracha Oil Terminal	STRAINER	2EA	2018.06	Thailand
PTTME	PTTME		STRAINER	8EA	2014.06	Thailand
Jan De Nul Dredging N.V.			STRAINER	91EA	2014.05	VELGIUM
NSIC	PNEC(Powerchina)	DUYEN HAI 3	STRAINER	57EA	2017.12	VIETNAM
Hoang Linh Ind	PTSC		STRAINER	4EA	2016.05	VIETNAM
EASTERN SEA COMPANY LTD	PTSC	LAMSON	STRAINER	4EA	2015.04	VIETNAM
NEXT PETROLEUM		HEC MDE5	STRAINER	128EA	2019.03	Malaysia
NEXT PETROLEUM	EXXON MOBIL	GUA PIPING	STRAINER	2EA	2019	Malaysia
SOT	EXXON MOBIL	NORTH GAS	STRAINER	1EA	2019	Malaysia
PETROGAS PIPING	Salalah Methanol Company	SALALAH AMMONIA PJT	STRAINER	31EA	2019	OMAN
PT. Tracon Industri	PT. REKAYASA	MUARA LABOH	STRAINER	25EA	2019.03	INDONESIA

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SEPADU TECH	SAPUA ENERGY	PEGAGA(1)	STRAINER	2EA	2019.03	Malaysia
Spirax Sarco		CCGT POWER PLANT PJT	STRAINER	5EA		
Spirax Sarco		EURO-5 VERTICAL BUCKET	STRAINER	30EA		Malaysia
NSIC	TTCL	DENKO THILAWA OIL STORAGE	STRAINER	30EA	2019.06	MIYANMAR
VELOCITY		MTC1 WELLHEAD PLATFORM	STRAINER	6EA	2019.05	VIETNAM
VELOCITY		SAO VANG PJT	STRAINER	28EA	2019.01	VIETNAM

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2019



Certificates

04

4. Certificates

4.1 Company Certificates

Certificate Name	Date	Remarks
I S O Certificate Of Registration(9001)	Apr. 23. 2007 ~ Mar. 13. 2021	83Q19231
I S O Certificate Of Registration(14001)	Apr. 12. 2013 ~ Apr. 12. 2022	SKE-10401
OHSAS18001	Mar. 26. 2013 ~ Mar. 25. 2022	SKO-10007
API Certificate Of Registration	Apr. 23. 2007 ~ Mar. 2. 2021	Q1-0432
CE Certificate Of Registration	Nov. 8. 2012 ~ Jan. 08. 2022	WFC-001-18-KOR
UL ONLINE CERTIFICATIONS DIRECTORY UL Certificate Of Compliance	Dec. 15. 2017	HLCV.EX27622 20171215-EX27622

4. Certificates

4.1 Company Certificates

ISO 9001



Certificate of Registration

This is to certify that the
QUALITY MANAGEMENT SYSTEM
of
WOOSUNG FLOWTEC Co., Ltd.
27, Mieumsandan3-ro, Gangseo-gu, Busan, 46744, KOREA
for
Design, Development and Manufacture of Strainers and Oil Storage Tanks
has been assessed and registered against the provisions of
ISO 9001:2015
International Standard

With

Registration Number:	83Q19231	Project:	78-19231-1-Q
Certification Date:	19 March 2018	Code:	DK 29.13
Recertification Due Date:	13 March 2021		

Certification Approved By:  Alan Cherry
Chairman



Registration is subject to the management system being continually maintained to the above standard under regular surveillance. Should surveillance not take place when required, registration shall be removed.

This certificate is the property of Globalgroup of Companies Limited,
21 Lansdowne Crescent, Edinburgh, Midlothian, EH12 5EH, Scotland, United Kingdom.
Please validate the authenticity of the certificate at www.globalgroup.net



80005559

ISO 14001



Standard Management Certification


WOOSUNG FLOWTEC CO., LTD.

(Mieum-dong)#27, Mieumsansandan 3-ro, Gangseo-gu, Busan, Korea



This is to certify that the Environment Management System of the above mentioned company has been found to comply with
ISO 14001:2015
Scope
Design and Manufacture of Strainer, Filter and Oil Storage Tank

ANZSIC : 2769


Certificate Number: SKE-10401
Date of Initial Approval: 13 April 2010
Re-issued Date: 20 March 2019
Expiry Date: 12 April 2022

Approved by: 

This certificate is valid only if
Regulatory surveillance audit is conducted within the required time.
Standard Management System Co., Ltd.
(Baeksang Star Tower II, Gasa-dong) Rm 301, #165, GasaDigital 2-ro,
Gurocheon-gu, Seoul, Korea. T)482-2-6111-6301 F)482-2-6111-6309
Website : www.smcsmc.co.kr
JAS-ANZ : www.jas-anz.org/register



OHSAS 18001




Standard Management Certification

WOOSUNG FLOWTEC CO., LTD.

(Mieum-dong)#27, Mieumsansandan 3-ro, Gangseo-gu, Busan, Korea

This is to certify that the Occupational Health & Safety Management System of the above mentioned company has been found to comply with
OHSAS 18001 : 2007
Scope
Design and Manufacture of Strainer, Filter and Oil Storage Tank

Certificate Number: SKO-10007
Date of Initial Approval: 26 March 2013
Re-issued Date: 20 March 2019
Expiry Date: 25 March 2022

Approved by: 

This certificate is valid only if
Regulatory surveillance audit is conducted within the required time.
Standard Management System Co., Ltd.
(Baeksang Star Tower II, Gasa-dong) Rm 301, #165, GasaDigital 2-ro,
Gurocheon-gu, Seoul, Korea. T)482-2-6111-6301 F)482-2-6111-6309
Website : www.smcsmc.co.kr

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4. Certificates

4.1 Company Certificates

API Q1

energy API REGISTRATION NO. Q1-0432

Certificate of Registration

The American Petroleum Institute certifies that the quality management system of

WOOSUNG FLOWTEC CO., LTD
27 - Mieumsandan 3ro
Gangseo-gu, Busan
South Korea

has been assessed by the American Petroleum Institute and found to be in conformance with the following:

API Specification Q1


The scope of this registration and the approved quality management system applies to the:

Design and Manufacture of Strainers and Oil Storage Tanks

API approves the organization's justification for excluding:

Servicing; Customer Property

Effective Date: MARCH 2, 2018
Expiration Date: MARCH 2, 2021
Registered Since: APRIL 23, 2007


Lisa Salley, Vice President, API Global Industry Services

This certificate is valid for the period specified herein. The registered organization must continually meet all requirements of API Spec Q1, Specification for Quality Programs for the Petroleum, Petrochemical and Natural Gas Industry, and the requirements of the Registration Agreement. Registration is maintained and regularly monitored through annual 3rd party audits. This certificate has been issued from API offices located at 12201 L Street, N.W., Washington, D.C. 20005-4070, U.S.A. It is the property of API, and must be returned upon request. To verify the authenticity of this certificate, go to www.api.org/compositeist.

2017-1871 06.17 | Digital

CE PED

Bureau Veritas SA is a Notified Body under the number 0062

BUREAU VERITAS

ATTESTATION D'APPROBATION DE SYSTÈME DE QUALITÉ

CERTIFICATE OF QUALITY SYSTEM APPROVAL

N° CE-0062-PED-H-WFC 001-18-KOR

Bureau Veritas SA, agissant dans le cadre de sa notification (numéro d'organisme notifié 0062), atteste que le système de qualité appliqué par le fabricant pour la conception, la fabrication, l'inspection des produits finis et les essais des équipements sous pression identifiés ci-après, a été examiné selon les prescriptions du module H de l'annexe III de la directive "Équipements sous pression" N° 2014/68/UE et est conforme aux dispositions correspondantes de la directive.

Bureau Veritas SA, acting within the scope of its notification (notified body number 0062), attests that the quality system operated by the manufacturer for design, manufacture, final product inspection and testing of the pressure equipment identified hereunder has been examined against the provisions of annex III, module H, of the Pressure Equipment Directive n° 2014/68/EU, and found to satisfy the provisions of the directive which apply to it.

Fabricant (Nom) / Manufacturer (Name):	Woosung Flowtec Co., Ltd
Adresse / Address:	#27, Mieumsandan 3-ro Gangseo-gu 46744, Busan, Korea
Marque commerciale / Trading Name - Mark:	WFC
Description des équipements / Equipment description:	Welded and casting strainer
Identification des équipements concernés (ou liste au verso ou en annexe le cas échéant) / Identification of equipment concerned (or list on the back or attached where necessary)	See list of the concerned equipment

Cette attestation est valable jusqu'au (jj/mm/aaaa) : 08/01/2022
This certificate will expire on (dd/mm/yyyy)

Le maintien de l'approbation est soumis à la réalisation par l'entité Bureau Veritas locale ayant signé le contrat avec le fabricant des audits, visites, essais et vérifications conformément aux termes de ce contrat.
The approval is conditional upon the surveillance audits, visits, tests and verifications to be carried out by the local Bureau Veritas entity that entered into a contract with the manufacturer, pursuant to the provisions of such contract.

Cette attestation est présumée nulle et le fabricant supportera seul les conséquences de son utilisation, si les assurances - données par le fabricant lors de la demande d'approbation - en matière de disposition de son système qualité approuvé et de l'inspection et de l'essai des produits finis ne sont pas respectées et, de manière générale, si le fabricant ne respecte pas l'une ou l'autre des obligations mises à sa charge par la directive n° 2014/68/UE ou le 18 mai 2014 telle que transposée dans les lois nationales applicables.
This certificate shall be deemed to be void and the manufacturer shall alone bear any consequences pursuant to its use, where the manufacturer fails to comply with his undertakings as per the agreement in respect of an implementation of the approved quality system and (a) inspection and tests on the final product, and generally where the manufacturer fails in particular to comply with any of his obligations under directive n° 2014/68/EU of 18 May 2014 as transposed in the applicable laws.

Établi à / Made at:	Le (jj/mm/aaaa) / On (dd/mm/yyyy)	Approuvé et Enregistré en / Approved and Recorded In:	Signé par / Signed by:	Signature autorisée par l'organisme notifié 0062 / Signature Authorized by Notified Body No 0062:
Seoul	08/01/2019	France	KWANGHO KIM	

Code d'enregistrement / Registration Code: 2018000211CE-0062-PED

Le présent document est soumis aux Conditions Générales de Service jointes à la demande d'intervention signée par le demandeur.
The present document is subject to the terms of General Conditions of Service attached to the agreement signed by the applicant.
The present document shall not be reproduced, except by the manufacturer in compliance with the conditions of the contract entered into between the local Bureau Veritas entity and the manufacturer.



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BUREAU VERITAS

N° CE-0062-PED-H-WFC 001-18-KOR

Liste des équipements concernés
List of the concerned equipment

Identification mark : BS
Welded bucket type strainer - Connection type : Butt welding & Flange Type.
Class 150(DN50-DN600), Class 300(DN50-DN600), Class 600(DN50-DN600)

Identification mark : DS
Welded duplex type strainer - Connection type : Butt welding & Flange Type.
Class 150(DN50-DN300), Class 300(DN50-DN300)


Identification mark : TS
Welded tee type strainer - Connection type : Butt welding & Flange Type.
Class 150(DN32-DN350), Class 300(DN32-DN350), Class 600(DN32-DN300)
Class 600(DN32-DN300), Class 1500(DN32-DN200), Class 2500(DN32-DN150)

Identification mark : YS
Welded Y type strainer - Connection type : Butt welding & Flange Type.
Class 150(DN32-DN350), Class 300(DN32-DN350), Class 600(DN32-DN300)
Class 600(DN32-DN300), Class 1500(DN32-DN200), Class 2500(DN32-DN150)

Identification mark : YC
Casting Y type strainer - Connection type : Butt welding, Flange Type.
Class 150(DN32-DN350), Class 300(DN32-DN350), Class 600(DN32-DN300)
Class 600(DN32-DN300), Class 1500(DN32-DN200), Class 2500(DN32-DN150)

Identification mark : YSC
Casting Y type strainer - Connection type : Socket Type.
Class 150(DN32-DN65), Class 300(DN32-DN65), Class 600(DN32-DN65)
Class 600(DN32-DN65), Class 1500(DN32-DN65), Class 2500(DN32-DN65)

Max. allowable pressure (PS) and operation temperature of strainers based on ASME B16.34 & B16.5 - 2017



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4. Certificates

4.1 Company Certificates

ASME U Stamp



CERTIFICATE OF AUTHORIZATION

The named company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the certification mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this certification mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.


COMPANY: **WOOSUNG FLOWTEC Co., Ltd.**
27, Mieumsandan 3-ro, Gangseo-gu
Busan 46744
Republic of Korea

SCOPE:
Manufacture of pressure vessels at the above location and field sites controlled by the above location (This authorization does not cover impregnated graphite)

AUTHORIZED: June 5, 2019
EXPIRES: June 5, 2022
CERTIFICATE NUMBER: 57,419


David E. Tuttle
Board Chair, Conformity Assessment

Joseph Anderson
Managing Director, Conformity Assessment



The American Society of Mechanical Engineers

UL



ONLINE CERTIFICATIONS DIRECTORY

HLCV.EX27622
Strainers, Pipeline

Page Bottom

Strainers, Pipeline

See General Information for Strainers, Pipeline

WOOSUNGFLOWTEC CO LTD EX27622
27, MIEUMSANDAN 3-RO
GANGSEO-GU
BUSAN, 46744 REPUBLIC OF KOREA

Strainers, basket type, Model(s) T-STRAINER, in the 4 and 6 in. sizes for rated working pressure of 232 psi. Loss of head will approximate 10.05 psi for the 4 in. size at 598.79 GPM and 3.87 psi for the 6 in. size at 1360.49 GPM

Last Updated on 2017-12-15

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UL C OF C

CERTIFICATE OF COMPLIANCE

Certificate Number	20171215-EX27622
Report Reference	EX27622-20171214
Issue Date	2017-DECEMBER-15

Issued to: **WOOSUNGFLOWTEC CO LTD**
27, Mieumsandan 3-ro
Gangseo-gu
Busan 46744 KOREA

This is to certify that representative samples of **STRAINERS, PIPELINE**
Strainers, basket type, Model T-STRAINER, in the 4 and 6 in. size for rated working pressure of 232 psi.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: **UL Subject 321, Outline of Investigation for Pipeline Strainers.**

Additional Information: See the [UL Online Certifications Directory](http://www.ul.com/database) at www.ul.com/database for additional information

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Look for the UL Certification Mark on the product.

Barthelmy
Business Director North American Certification Program
UL LLC

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4. Certificates

4.2 Registration Status(Oil Major Companies)

Name	Type of company	Item	Country	Status	Registration No.
KNPC	Oil Major Company	Strainer	Kuwait	Completed	1003674
PDO	Oil Major Company	Strainer	Oman	Completed	NR01000844-2018
OXY	Oil Major Company	Strainer	Oman	Completed	-
ADNOC JAPAN	Oil Major Company	Strainer	Japan	Completed	-
ADNOC	Oil Major Company	Strainer	UAE	Completed	200003892
ARAMCO ASIA	Oil Major Company	Strainer	Japan	Completed	10052938
PERTONAS	Oil Major Company	Strainer	Malaysia	Completed	525055-A
PEMEX	Oil Major Company	Strainer	Mexico	Completed	217945
Thai Oil	Oil Major Company	Strainer	Thailand	Completed	-
IRPC	Oil Major Company	Strainer	Thailand	Completed	-
PTT TANK	Oil Major Company	Strainer	Thailand	Completed	-
PTTGC	Oil Major Company	Strainer	Thailand	Completed	-
TAKREER	Oil Major Company	Strainer	UAE	Completed	907972
PTT LNG	Oil Major Company	Strainer	Thailand	Completed	-

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4. Certificates

4.2 Registration Status(EPCs)

Name	Type of company	Item	Country	Status	Registration No.
CNPC	EPC	Strainer	China	Completed	-
CPECC	EPC	Strainer	China	Completed	-
TECHNIP	EPC	Strainer	France	Completed	114073
SAIPEM	EPC	Strainer	Italy	Completed	-
TOYO	EPC	Strainer	Japan	Completed	-
KOBE STEEL	EPC	Strainer	Japan	Completed	-
MHI	EPC	Strainer	Japan	Completed	-
MHPS	EPC	Strainer	Japan	Completed	-
JGC	EPC	Strainer	Japan	Completed	125960
CHIYODA	EPC	Strainer	Japan	Completed	-
SAPUA ENERGY	EPC	Strainer	Malaysia	Completed	-
MMHE	EPC	Strainer	Malaysia	Completed	-
HAYA	EPC	Strainer	Oman	Completed	-
TERMOCHILCA	EPC	Strainer	Peru	Completed	-

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4. Certificates

4.2 Registration Status(EPCs)

Name	Type of company	Item	Country	Status	Registration No.
Tecnicas Neudidas	EPC	Strainer	Spain	Completed	-
TTCL	EPC	Strainer	Thailand	Completed	-
BUNDUQ	EPC	Strainer	UAE	Completed	-
ADSSC	EPC	Strainer	UAE	Completed	-
PETROFAC	EPC	Strainer	UAE	Completed	-
NPCC	EPC	Strainer	UAE	Completed	-

4. Certificates

4.2 Registration Status(In proecessing)

Name	Type of company	Item	Country	Status	Registration No.
PERTAMINAR	Oil Major Company	Strainer	Indonesia	Processing	-
Petro Vietnam	Oil Major Company	Strainer	Vietnam	Processing	-
Qatar Petroleum	Oil Major Company	Strainer	Qatar	Processing	-
NNPC	Oil Major Company	Strainer	Nigeria	Processing	-
NLNG	Oil Major Company	Strainer	Nigeria	Processing	-
RINDE	EPC	Strainer	Germany	Processing	-
WISON	EPC	Strainer	China	Processing	-
PTSC	EPC	Strainer	Vietnam	Processing	-
CB & I	EPC	Strainer	USA	Processing	-
CCC	EPC	Strainer	Greece	Processing	-
DEWA	EPC	Strainer	Dubai	Processing	-
Maire Tecnimont	EPC	Strainer	Italy	Processing	-
WOOD Group	EPC	Strainer	England	Processing	-
McDermott	EPC	Strainer	USA	Processing	-

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4. Certificates

4.2 Registration Certificates

KNPC

شركة البترول الوطنية الكويتية
KNPC

VENDORS & CONTRACTORS EVALUATION COMMITTEE

M/S. WOOSUNG FLOWTEC CO. LTD., KOREA
29, MINJUNGDAE, JONGNO, HANGSO, SEONGNAM
GYEONGGI
REPUBLIC OF KOREA

DATE: 26TH MAY 2018
REF: V/C-N 2059-14-0011
FILE NO.: V 8233

SUBJECT: VENDOR APPROVAL

CONTRACTS:
REFERENCE TO YOUR NO. APPLICATION SUBMITTED TO KNPC ON 27.02.2018, YOUR COMPANY IS APPROVED AS A VENDOR SUPPLIER FOR THE SUPPLY OF THE FOLLOWING PRODUCTS FOR E.N.D. SERVICES:

PRODUCT DESCRIPTION
15 20 OPERATORS

THE COMPANY (VENDOR) CODE ALLOCATED TO YOUR COMPANY IS: 3000674

PLEASE ENSURE TO QUOTE THIS CODE AND AGENCY FILE NO. ON ALL YOUR FUTURE CONTRACTS.

VERY TRULY YOURS,

VERGAMA H. SHARIFAR
CHAIRMAN V & CEO

NOTE: APPROVAL VALIDITY IS UP TO 25th MAY 2021

PLEASE REFER OURSelves FOR INQUIRIES

PDO

شركة تنمية نفط عمان ش.م.ع.
Petroleum Development Oman L.L.C.

CERTIFICATE OF REGISTRATION - PRODUCT VENDOR

CERTIFICATE NUMBER : **NR01000844-2018**

VENDOR CODE : **104535** | DATE OF ISSUE : 03.06.2018

PETROLEUM DEVELOPMENT OMAN LLC

CERTIFIES THAT :

MANUFACTURER : WOOSUNG FLOWTEC CO. LTD
COUNTRY OF ORIGIN : South Korea
LOCAL AGENT : FAST LINE TECHNICAL SERVICES
COMMERCIAL AGENCY NO.: 30404
POSTAL ADDRESS : P.O. BOX 1624, PC 130 -SULTANATE OF OMAN

IS REGISTERED WITH THE COMPANY AS AN APPROVED PRODUCT VENDOR WITH EFFECT FROM THE DATE OF ISSUE OF THIS CERTIFICATE FOR THE FOLLOWING PRODUCT GROUP CATEGORIES :

STATIC EQUIPMENT

AVM NO.	PRODUCT CATEGORY	PRODUCT SUB-CATEGORY	COMMENTS & ALERTS	MATERIALS	Pressure Rating (psi/MPa)
AVME 1.3.9	FILTER SEPARATORS & FILTERS	T TYPE STRAINER-CASTING TYPE		CS#D56:#D56:#66	#150-250, #300-350, #600-100, #900-100, #1500-80, #2500-80
AVME 1.3.10	FILTER SEPARATORS & FILTERS	BASKET STRAINER-CASTING TYPE		CS#D56:#D56:#66	#150-300, #300-300

THIS CERTIFICATE IS VALID UNTIL: 31.12.2019

SAUD AL MARJIBI
LEAD OF DATA & SYSTEM MANAGEMENT

CERTIFICATE NUMBER : NR01000844-2018

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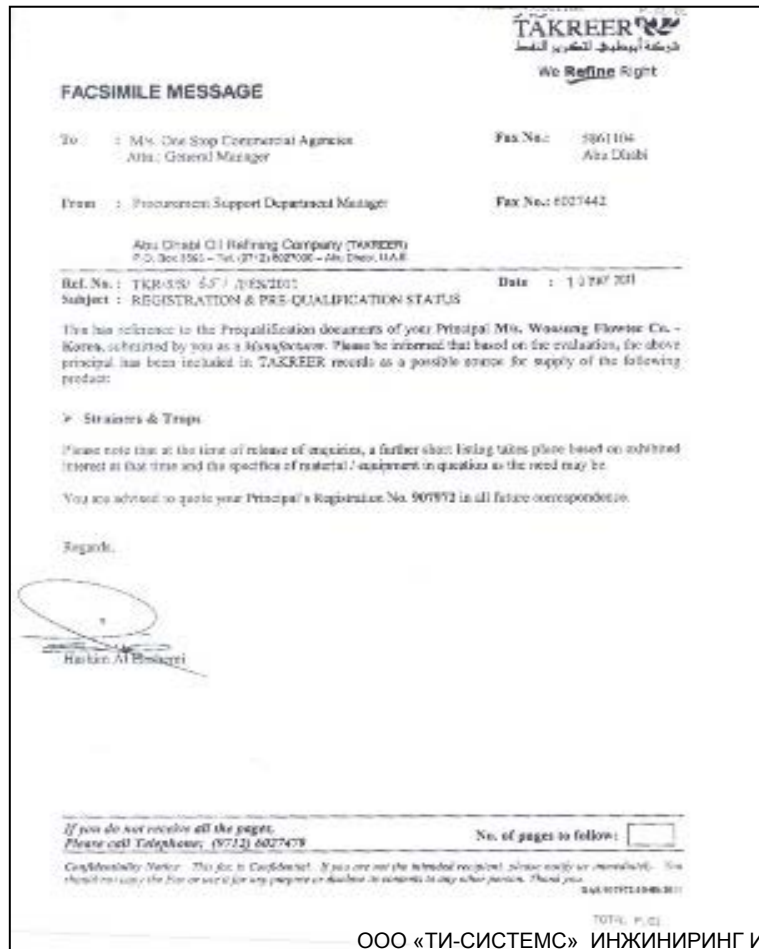
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4. Certificates

4.2 Registration Certificates

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Financial Status

05

5 Financial Status

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A Leading Credit Information Provider

| KOREA BUSINESS REPORT



BUSINESS INFORMATION REPORT

Company Name	WOOSUNG FLOWTEC CO.,LTD.
Address	27, Mieumsandan 3-ro, Gangseo-gu, Busan
Your Ref.	
Our Ref.	ER1-2019-00055
Customer	우성플로텍(주)
Inquiry Date	Apr. 24, 2019
Report Date	Apr. 29, 2019
Report Type	자사영문신용조사서
Exchange Rate	USD 1= KRW 1,161.00 (As of Apr. 29, 2019)

CREDIT OPINION

NOTICE

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 www.woosungflowtec.com

A Leading Credit Information Provider KOREA ENTERPRISE DATA

REPORT HIGHLIGHTS

Company Profile

Company Name(English)	WOOSUNG FLOWTEC CO.,LTD.	
Company Name(Korean)	우성플로텍(주)	
President & CEO	CHO, YOUNG-JE	
Address	New System	27, Mieumsandan 3-ro, Gangseo-gu, Busan
	Old System	1566-4, Mieum-dong, Gangseo-gu, Busan
TEL	Tel : 82-51-831-1533	
FAX	Fax : 82-51-831-1534	
Corporate Reg. No.	180111-0881482	
Business Reg. No	606-86-49896	
Line of Business	Manufacture of taps, valves and similar products	
Homepage	www.woosungflowtec.com	
E-mail	md@woosungflowtec.com	

Credit Rating

Corporate Credit Rating	Cash Flow Rating	Date of Rating	Apr. 22, 2019
BB	CR-5	Fiscal Year-end	Dec. 31, 2018

Financial Highlights

(Unit : KRW million)

Fiscal Year-end	Total Assets	Paid-in Capital	Equity	Sales	Net Income
Dec. 31, 2018	15,957	2,000	5,158	10,593	-796

Summary Credit Information

(as of report date)

Items	Occurred or Not	
Non-Performance Information	Corporate	Not Occurred
	CEO	Not Occurred
Other Related Information	Lawsuit	Not Occurred
	Close of Business	Not Occurred

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2019



Products

06

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ

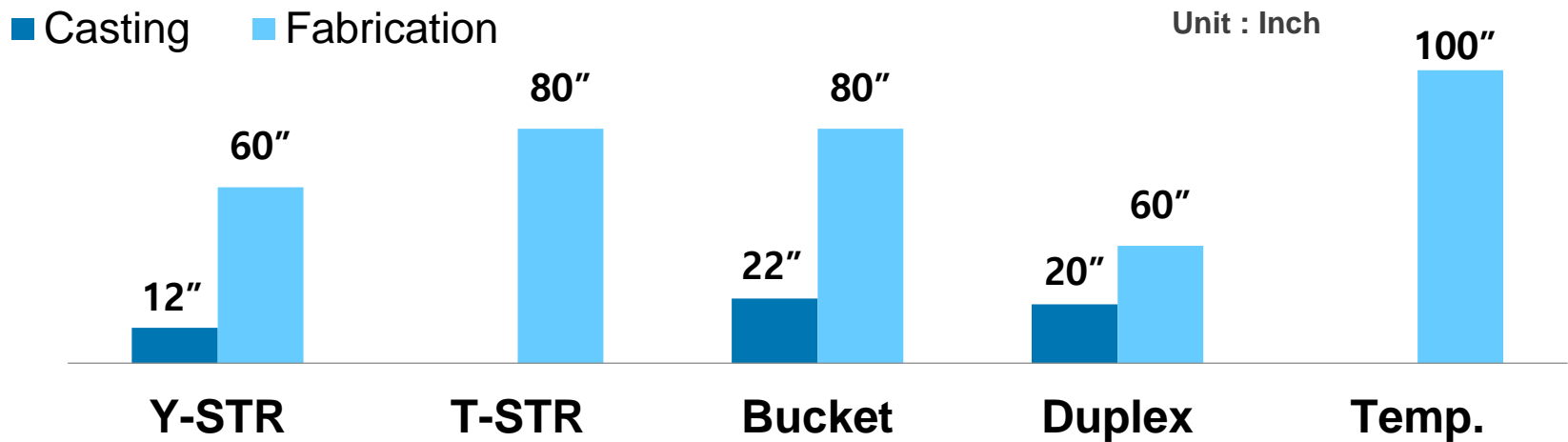
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6 Products

6.1 Manufacturing Capabilities



**** We can manufacture bigger and customizing strainer**

Approximate Monthly Production Units Of Tons			
Commodity	Casting STR	Fabrication STR	Total (Ton/Month)
Capabilities	80 ton/m	100 ton/m	180 ton/m

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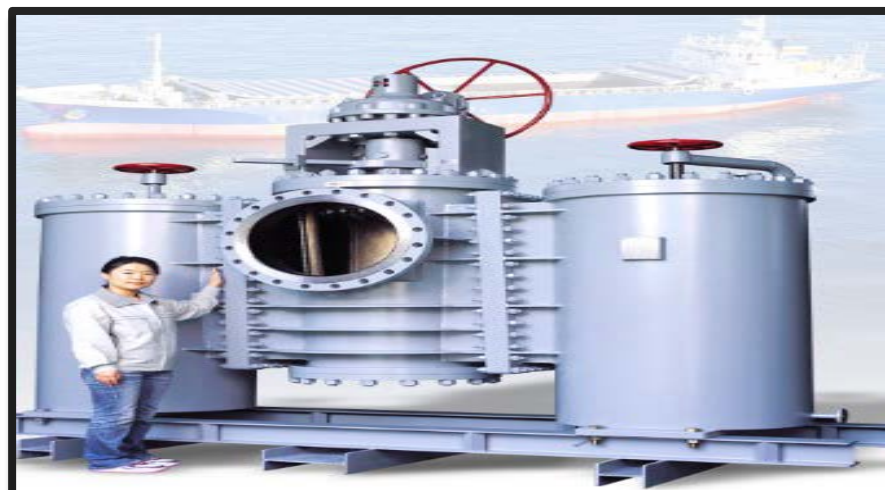
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6 Products

6.2 Figuration

DUPLXE STRAINER (Febrication)



ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ

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6 Products

6.2 Figuration

DUPLXE STRAINER (Casting)



ООО «ТИ СИСТЕМС» - ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ

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6 Products

6.2 Figuration

BUCKET STRAINER (Fabrication)



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6 Products

6.2 Figuration

BUCKET STRAINER (Fabrication)



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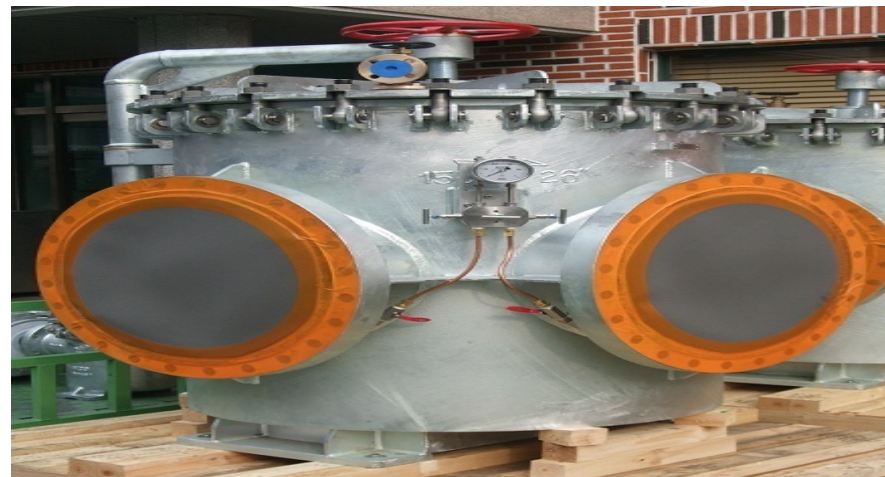
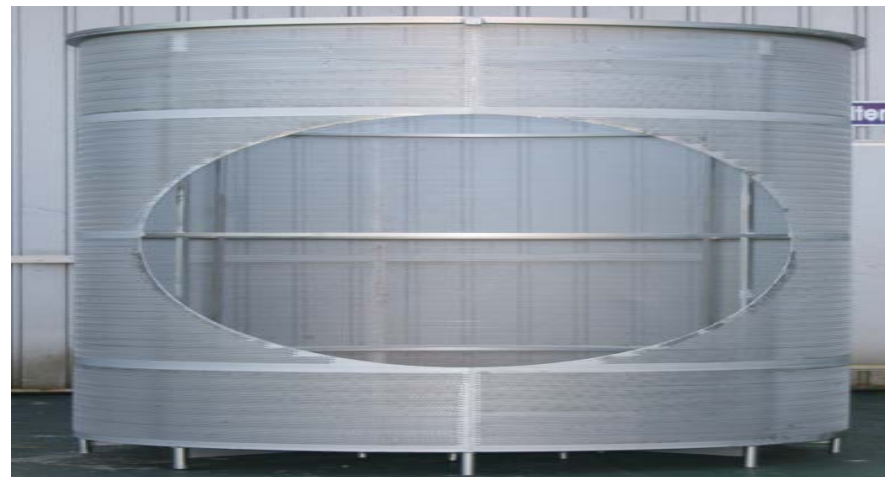
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6 Products

6.2 Figuration

BASKET STRAINER (Fabrication)



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6 Products

6.2 Figuration

BUCKET STRAINER (Casting)



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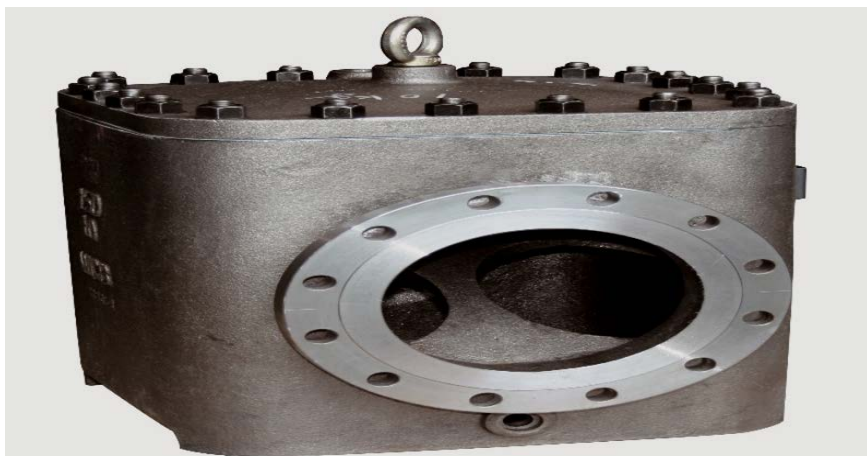
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6 Products

6.2 Figuration

MULTY TYPE STRAINER (Casting)



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6 Products

6.2 Figuration

TEE STRAINER (Fabrication)



ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ
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6 Products

6.2 Figuration

TEE STRAINER (Fabrication)



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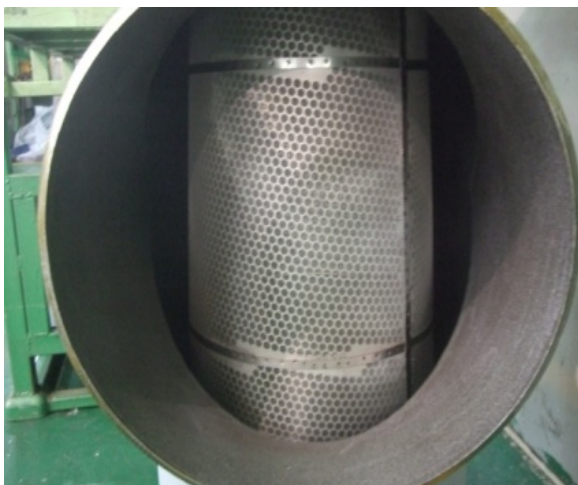
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6 Products

6.2 Figuration

TEE STRAINER (Fabrication)



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6 Products

6.2 Figuration

TEE STRAINER (Fabrication)



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6 Products

6.2 Figuration

Y STRAINER (Fabrication)



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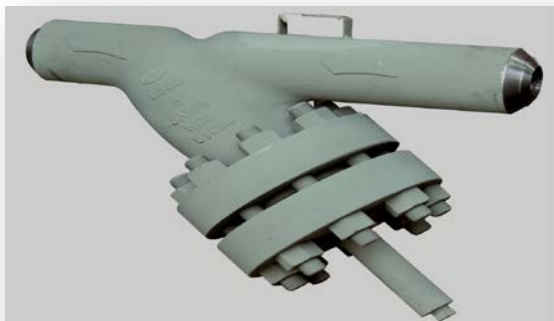
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6 Products

6.2 Figuration

Y STRAINER (Casting)



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6 Products

6.2 Figuration

CONE STRAINER



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6 Products

6.2 Figuration

MESH AND FILTER



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6 Products

6.2 Figuration

CUSTOMISED FILTER



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2019



Inspection & test

07

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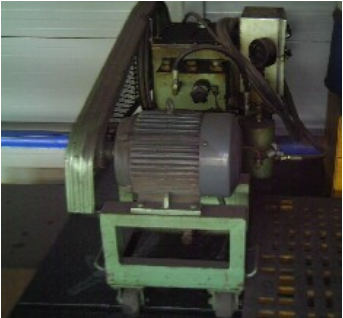




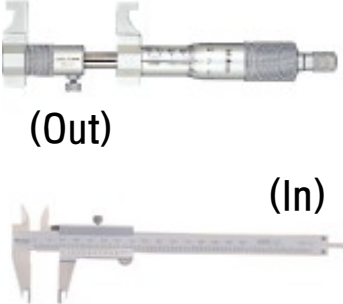



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7 Inspection & Test

7.1 Test Equipment

				
Hydro Testing M/C	Dial Thickness gauge	PMI Analyzer	Multi Test	Graduator
				
Paint Thickness Gauge	Vernier Callipess	Feritscope	Leeb Hardness Tester	Cross Hatch Cutter

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7 Inspection & Test

7.1 Test Equipment



Brinell Hardness Tester

Bresle Salt Kit

Pull-off adhesion tester

DC Holiday Detector

Dust tape kit



Ultrasonic Thickness Gauge

Caliper Gauge

Pyrometer

Roughness Tester

Surface Thermometer

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7 Inspection & Test

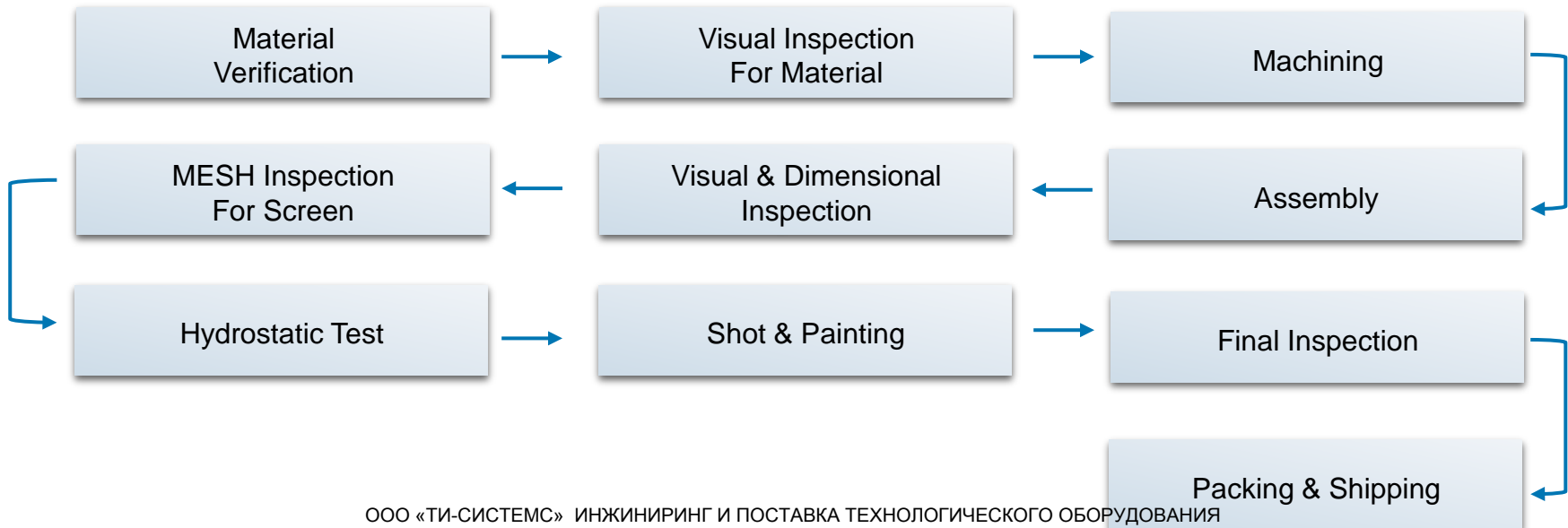
7.2 Inspection & Test Plan

WOOSUNG FLOWTEC	Inspection And Test Plan	Doc No.	****
		Page	2 Of 3

1. Revision State

<u>REV NO.</u>	<u>CONTENTS</u>
0	First Issued (2011. 00. 00)

2. Sequence Of Manufacture



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7 Inspection & Test

7.2 Inspection & Test Plan

WOOSUNG FLOWTEC	Inspection And Test Plan	Doc. No.	****
		Page	3 Of 3

No.	Item Name	Inspection Process	Applicable Code	Inspection Result						Inspection Expected Date	Remarks
				Manufacturer		Company "A"		Company "B"			
				Point	Verified	Point	Verified	Point	Verified		
1	Strainer	1) Material verification (Asme B16.11)	Mill Sheet	R		R		R			
		2) Visual Inspection	As Per Dwg	W		W		W			
		3) Dimensional Inspection	As Per Dwg	W		W		W			
		4) Mesh Inspection For Screen	As Per Dwg	W		W		W			
		5) Hydro Static Test (Ks B 2304)	Document No. (Ws-qp-803)	W		W		W			
		6) Painting Inspection	*	W		W		W			
		7) Packing Inspection	*	W		W		W			

S : Manufacture's inspection

R : Report review SW : Spot witness W : Witness point

H : Hold point

7 Inspection & Test

7.2 Inspection & Test Plan

Test Facility



Pressure drop test

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2019



Welding/NDE/ Painting Procedure

08

8 Welding/NDE/Painting procedure

8.1 Welding Procedure

(Code & Process : ASME Code Sec. IX)

Process No.	Description	Inspection & Test
1	Tack Welding	Fit-up Inspection
2	Welding	Dimension / Visual Inspection
3	Post Weld Heat Treatment (if required)	Hardness Test
4	Non-Destructive Examination	P.T / M.T / U.T / R.T
5	Positive Material Identification (if required)	-

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8 Welding/NDE/Painting procedure

8.2 Non-Destructive Examination Procedure

Product	Test Item		Application Code	Examiner(Sub-Vendor)
Steel Plate (Weld's) / Casting	Magnetic Particle Test (M.T)		ASME B16.34 Appendix II	KNDE Co.,Ltd. (Korea Non Destructive Examination)
	Ultrasonic Test (U.T)		ASME B16.34 Appendix IV	
	Liquid Penetration Test (P.T)		ASME B16.34 Appendix III	
	Radiographic Test (R.T)		ASME B16.34 Appendix I	
	Positive Material Identification (P.M.I)		ASTM CODE	

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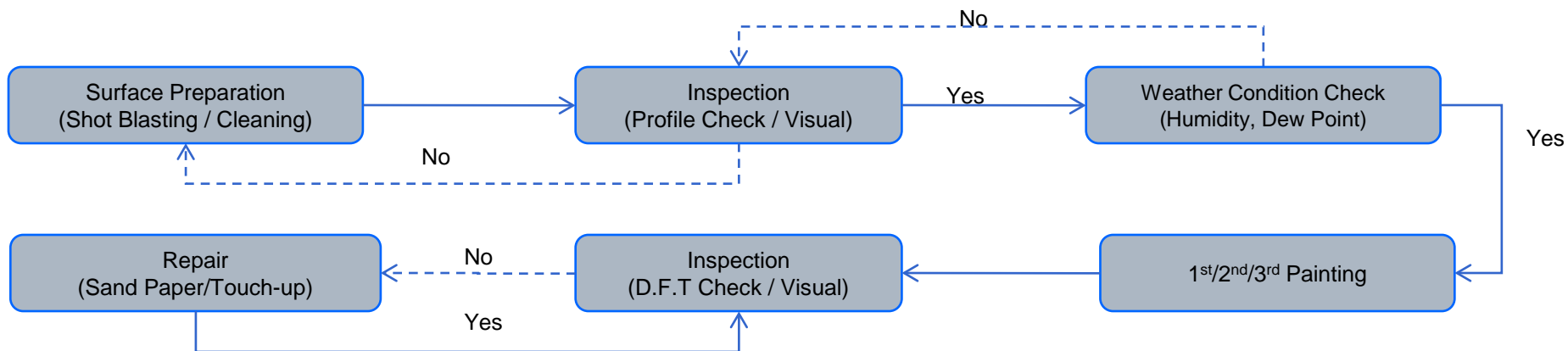
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8 Welding/NDE/Painting procedure

8.3 Painting Procedure & Facilities

QUALIFICATION OF PAINTING.

Apply the paints in accordance with the paint manufacturer's recommendation as to the application, humidity, weather, temperature conditions and coating thickness.



Facilities	Quantity	Testers	Quantity
Painting Booth	2	Dry Film Thickness Gauge	1
Air less	6	Surface Thermometer	1
Dryer	1	Hygrometer	1
Hoist	1	Thermometer	1

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2019

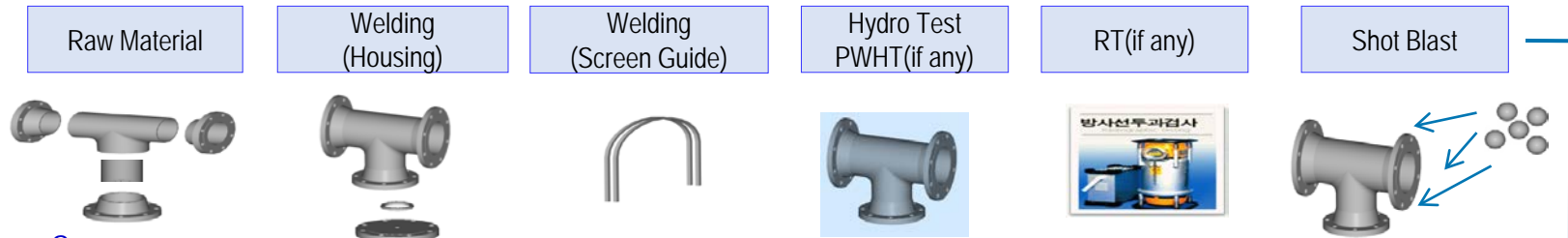
Production Process

09

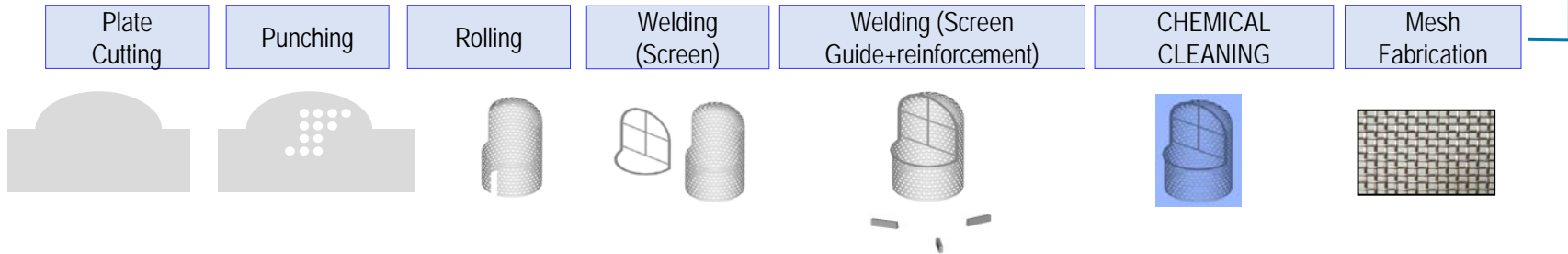
9 Production Process

9.1 "T" Strainer(Straight Flow)

☞ Housing



☞ Screen



☞ Housing + Screen



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Интернет: www.tisys.ru www.tisys.kz www.tisys.by www.tesec.ru www.ти-системс.рф

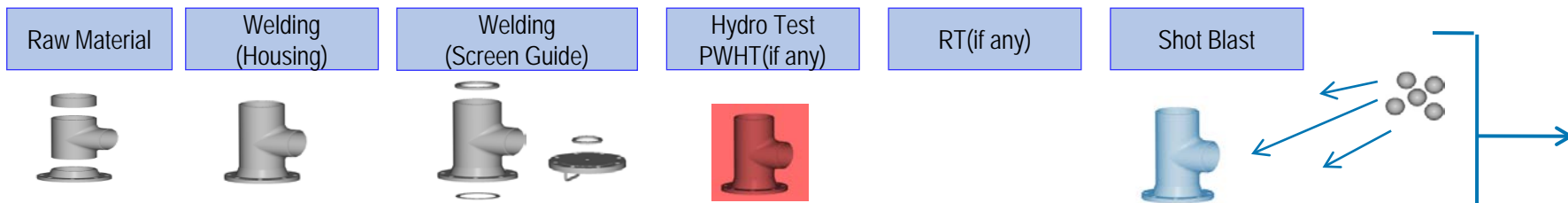
Телефоны для связи: +7 (495) 7774788, 7489626, 5007154, 55, 65

Эл. почта: info@tisys.ru info@tisys.kz info@tisys.by

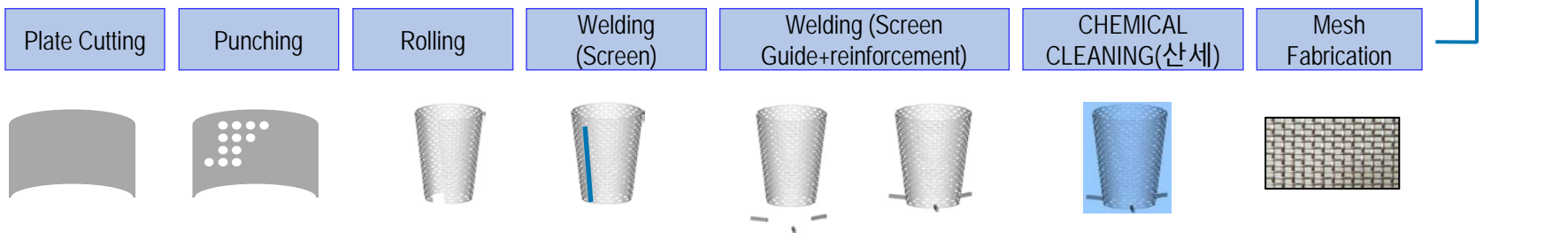
9 Production Process

9.2 “T” Strainer(Angle Flow)

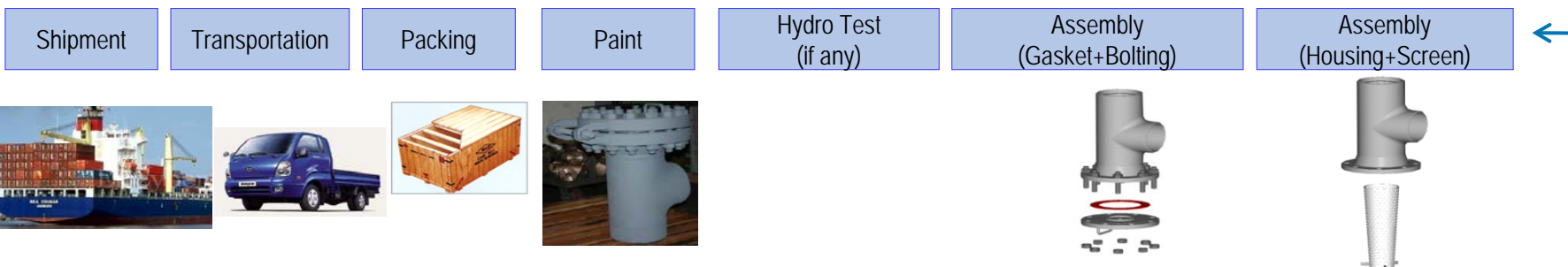
Housing



Screen



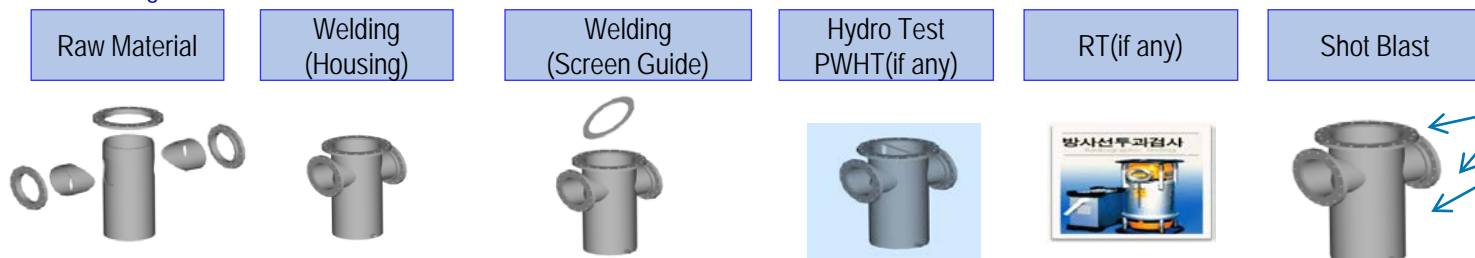
Housing + Screen



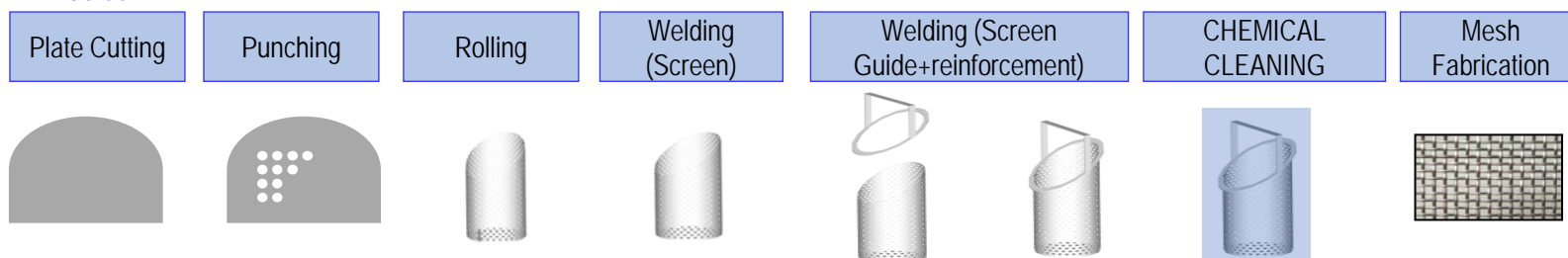
9 Production Process

9.3 “Bucket” (Fabrication type)

Housing



Screen



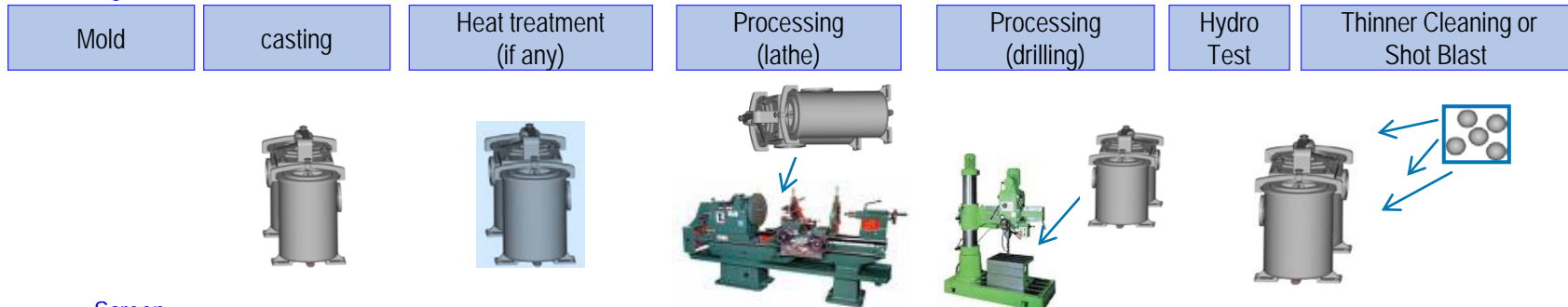
Housing + Screen



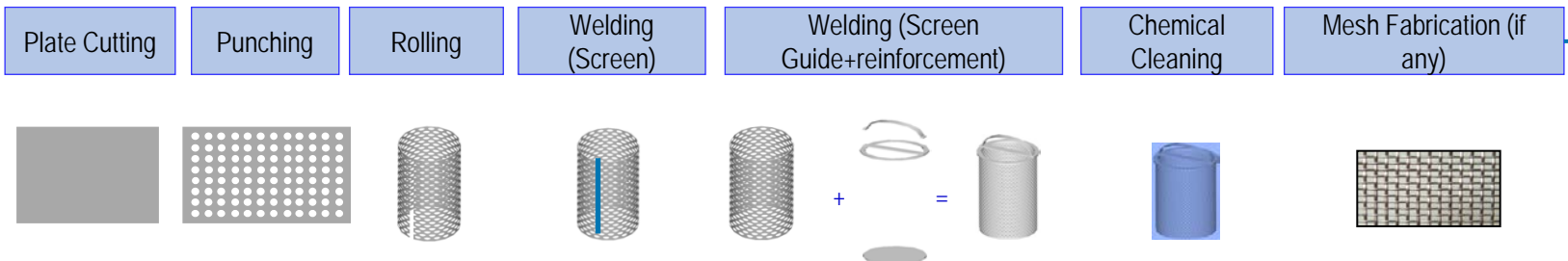
9 Production Process

9.4 "Duplex" (Casting type)

Housing



Screen



Housing+Screen



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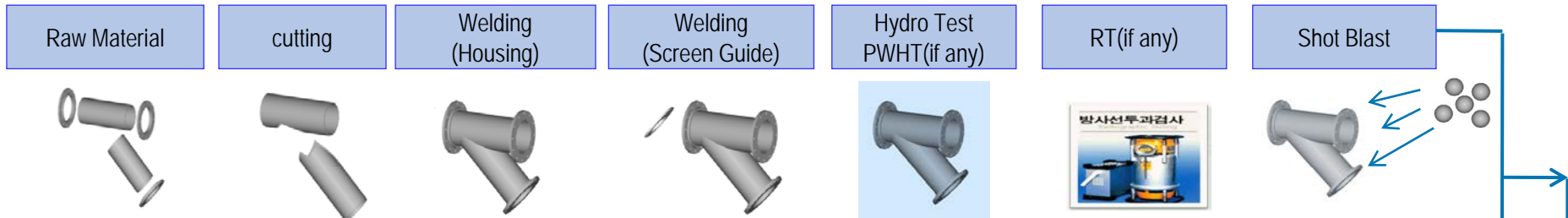
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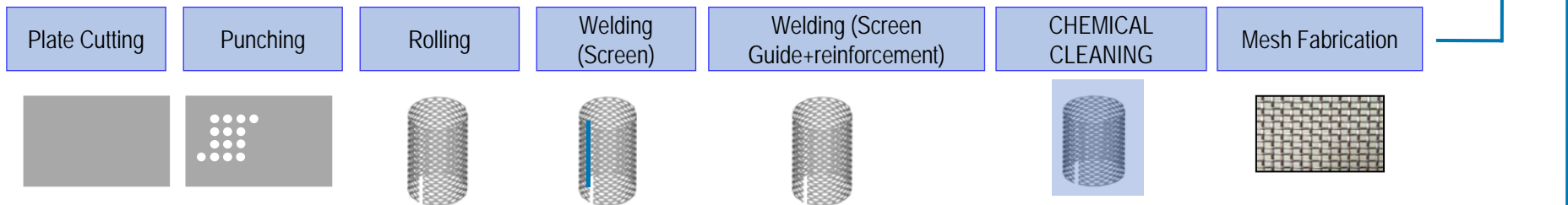
9 Production Process

9.5 “Y” Strainer (Fabrication type)

Housing



Screen



Housing + Screen



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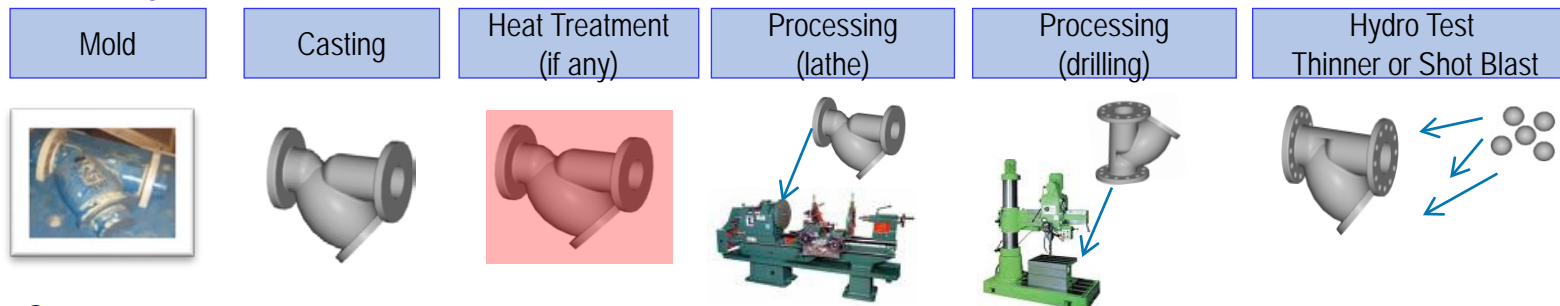
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Эл. почта: info@tisys.ru info@tisys.kz info@tisys.by

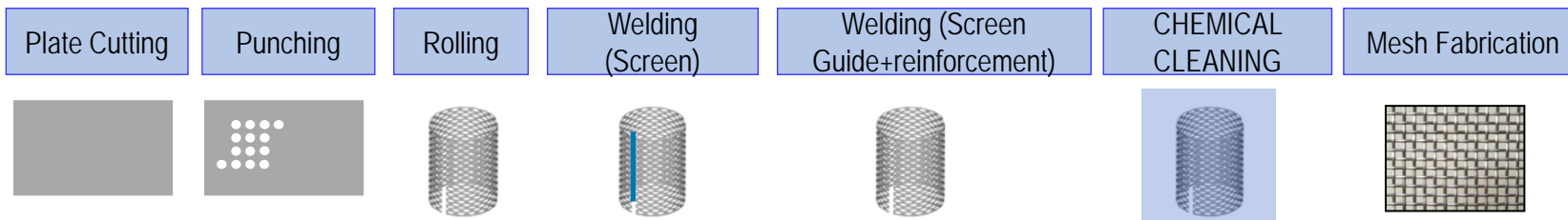
9 Production Process

9.6 “Y” Strainer (Casting type)

Housing



Screen



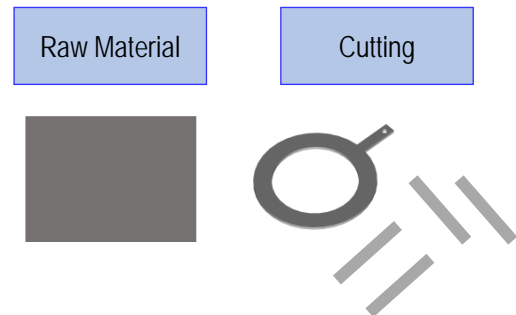
Housing + Screen



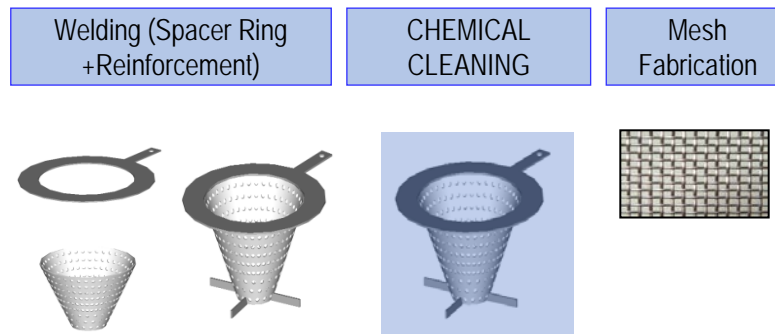
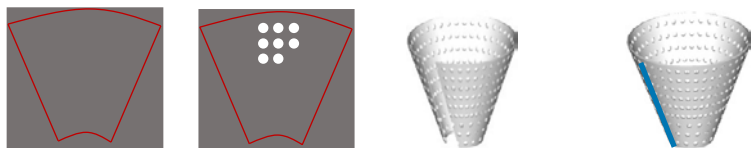
9 Production Process

9.6 "Conical" type

Spacer Ring



Screen



Housing + Screen



THANK YOU!

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