WOOSUNG FLOWTEC Co., LTD

PRE-QUALIFICATION

THE STRAINER SPECIALTY COMPANY

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ
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2017

Company Profile

01

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ
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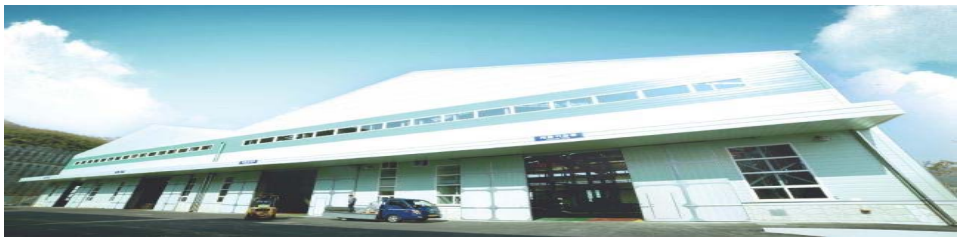
1. Company Profile

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.



2nd Factory View

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1. Company Profile

1.2 History in Brief

- 1989 Establishment of “WOOSUNG Precision” by Cho, Youngje(CEO)
- 2000 Head Office Moved to Noksan Industrial Area
- 2002. ISO 9001 Certificate of Registration
- 2003. The Corporation was Changed to WOOSUNG Strainer Company
- 2006. Approval Of Welding Procedure
- 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 Registration
- 2010. OHSAS18001:2007 Certificate of Registration
- 2011. INNO-BIZ Certificate of Registration
- 2013. The 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

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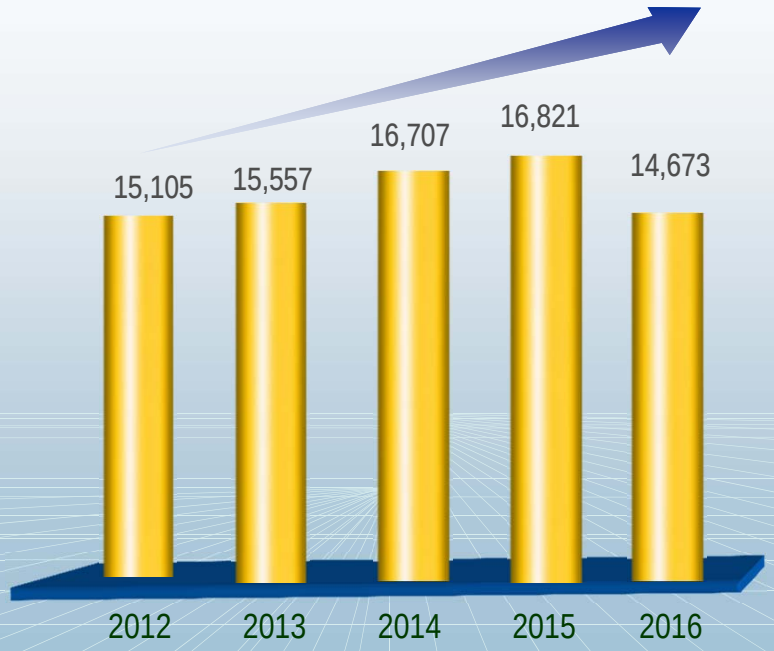
1. Company Profile

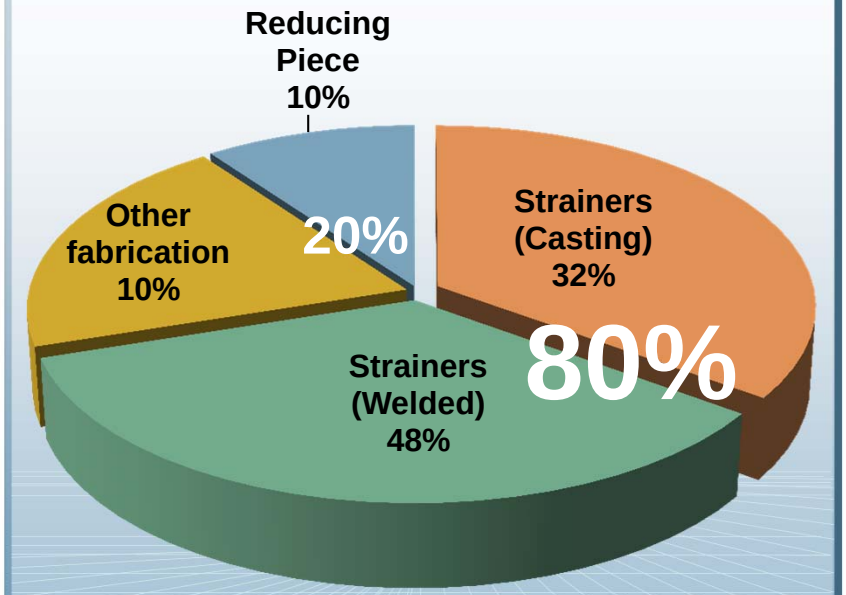
1.3 Annual Turnover and Sales

Annual Turnover

(Unit : million KRW)



Annual Sales Ratio



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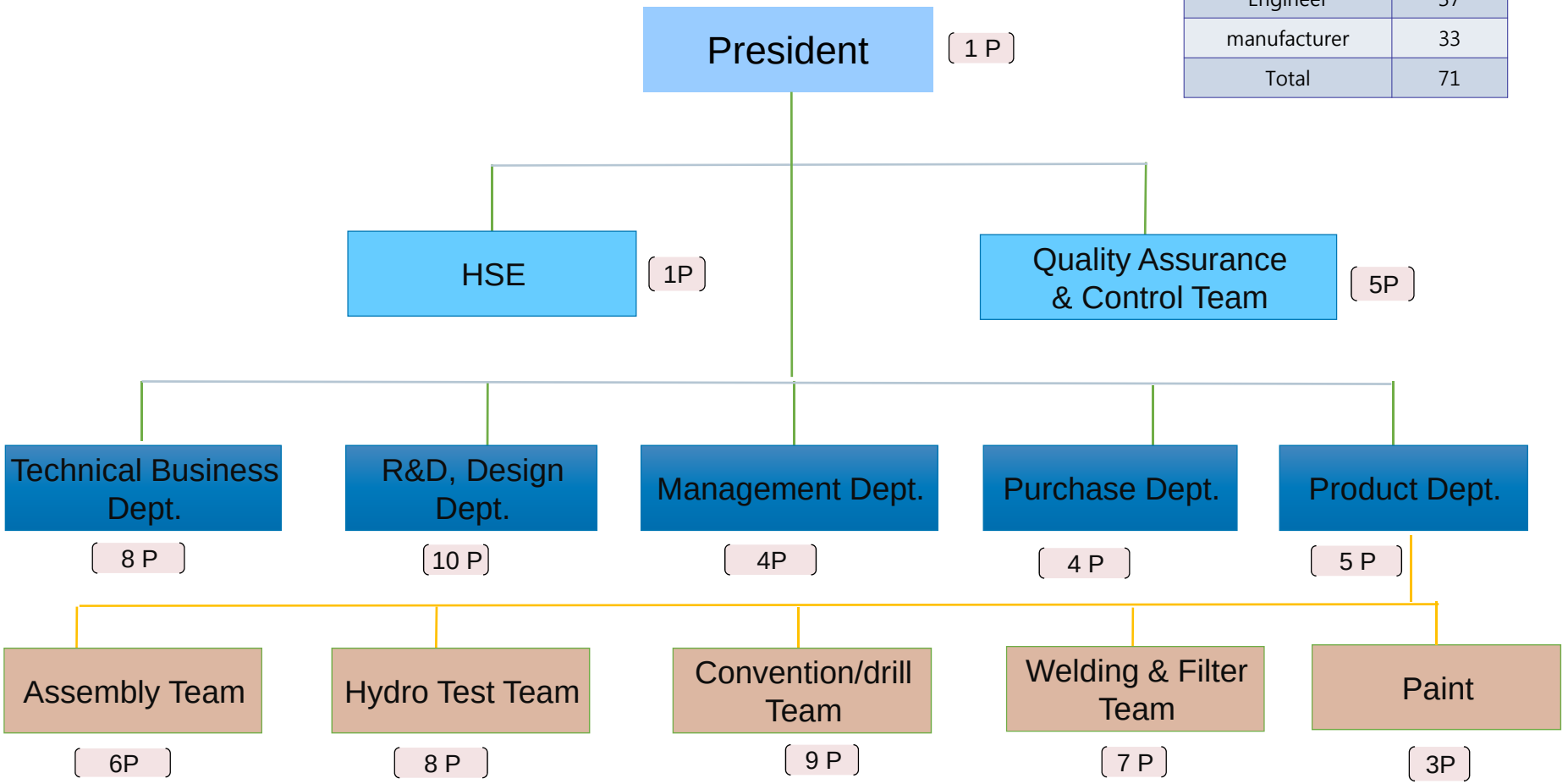
1. Company Profile

1.4 Organization Chart

manager	1
Engineer	37
manufacturer	33
Total	71



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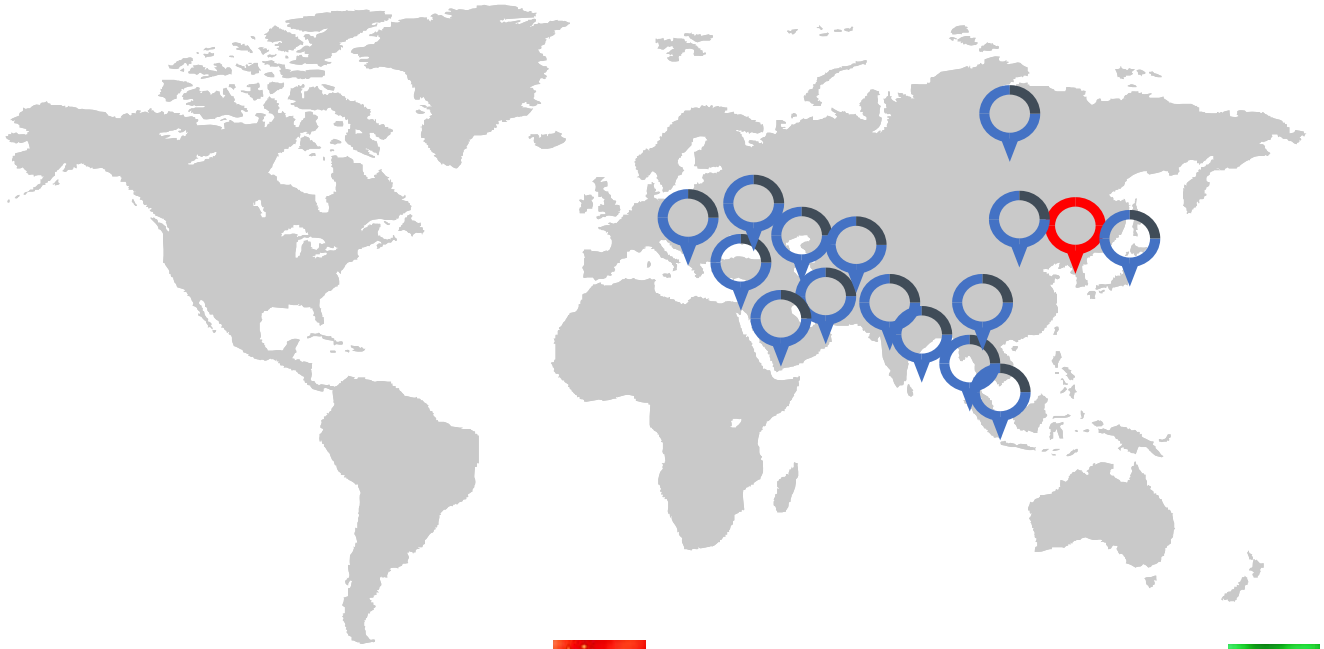
1. Company Profile

1.5 Overseas Network



-HANKOOK ENG(Singapore)

-Next Petroleum(Malaysia)

-HYPRECISION(India)

-ATTATECH(Thailand)

-YONEDA(Japan)

-HSD(China-Dalian)

-CM Marine(China-Shenzhen)

-DAFF(Abu Dahbi)

-ARIES(UAE)

- AFAAL Al-Khaleej(Saudi Arabia

-WOLFSON(Iran)

-FASTLINE(Oman)

-ALMADAR(Barain)

-UNITED ENG(Kuwait)

-VIKING A&V(Italy)

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2017

Factory information

02

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ
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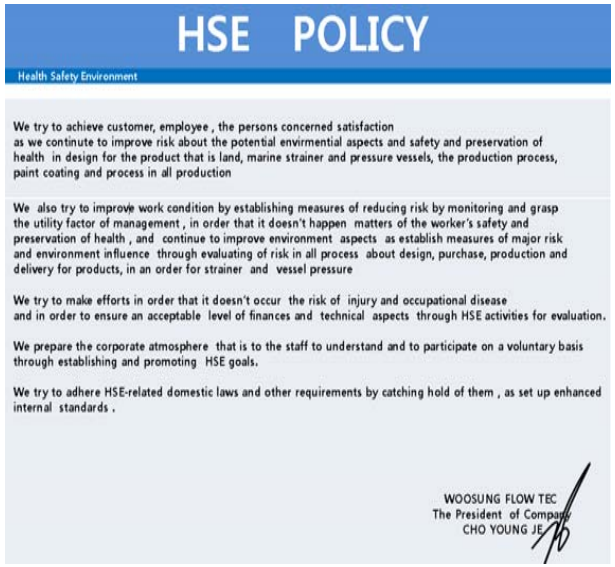
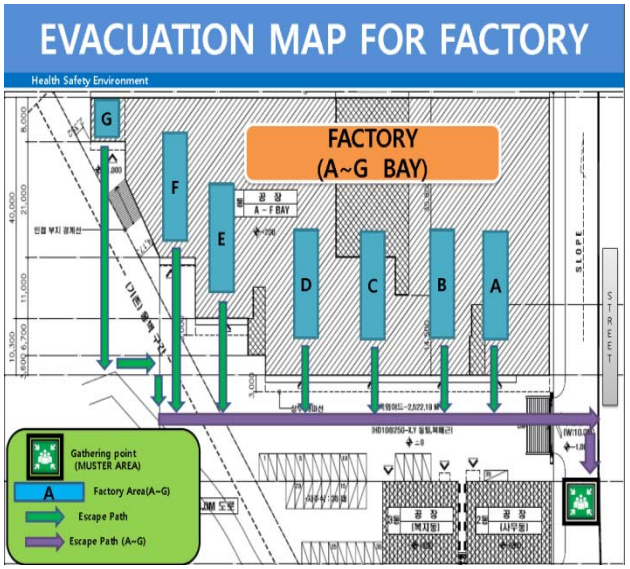
2. Factory information

2.1 HSE of Factory





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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 & 1st 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
1st Factory	8,321 ㎡	5,736 ㎡	7,464 ㎡	2,585 ㎡	Owner ■ Lease □
2nd Factory	1,515 ㎡	909 ㎡	944 ㎡	606 ㎡	Owner ■ Lease □
Total	9,836㎡	6,645 ㎡	8,408 ㎡	3,191 ㎡	

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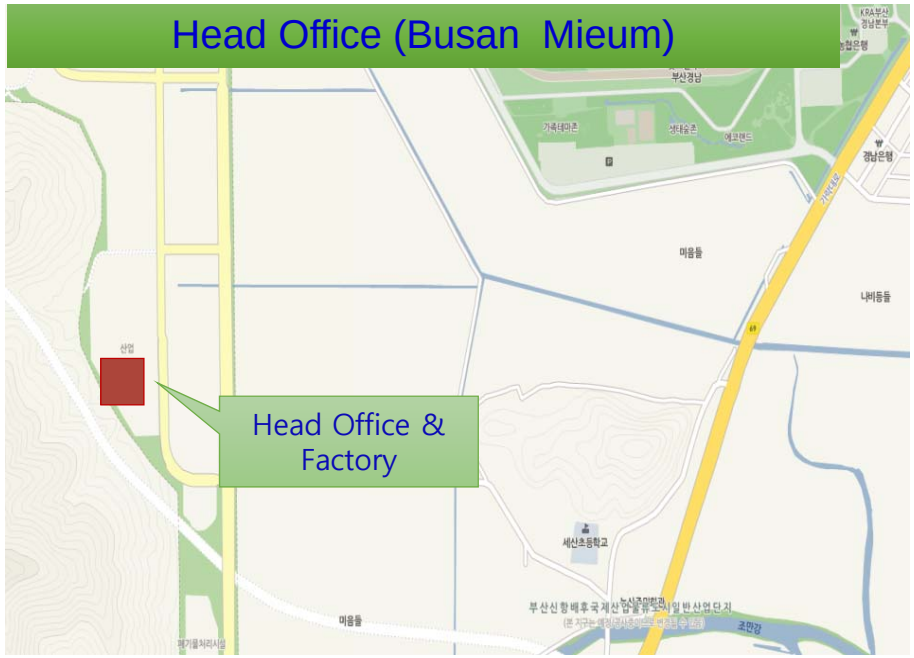
2. Factory information

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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2017

Experience List

03

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3. Experience

Experience Of Domestic

SAMSUNG ENGINEERING

HYUNDAI ENGINEERING & CONSTRUCTION

DAEWOO E&C

SAMSUNG HEAVY INDUSTRIES

HYUNDAI HEAVY INDUSTRIES

DSME

SAMSUNG C&T

HYUNDAI ENGINEERING CO., LTD.

DOOSAN

SK E&C

GS E&C

DAELIM

Hanwha Engineering&Construction

posco

LOTTE ENGINEERING & CONSTRUCTION

HYOSUNG GOODSPRINGS PUMPS & WATER

eTEC E&C

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3. Experience

Experience Of Overseas

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2017

Certificates

04

3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
Samsung Engineering	PETRONAS	RAPID#6	Y & BASKET STRAINER	62EA	2016.10	MALAYSIA
Samsung Engineering	PETRONAS	RAPID#6	Y & BASKET STRAINER	116EA	2016.10	MALAYSIA
Samsung Engineering	삼성전자	삼성전자/평택	Y STRAINER	113EA	2016.07	KOREA
Samsung Engineering	SWCC	YANB3	Y & BASKET STRAINER	600EA	2016.05	SAUDIARABIA
Samsung Engineering	GTIM	TIMIMOUN	TEE STRAINER	54EA	2015.09	ALGERIA
Samsung Engineering	ENI	ENI ZUBAIR DGS NORTH PKG	Y-STRAINER etc.	333EA	2016.03	IRAQ
Samsung Engineering	PETRONAS+HESS	TGAST PJT	Y- STRAINER	38EA	2014.12	MALAYSIA
Samsung Engineering	GAZPROM	BADRA	T-TYPE STRAINER	139EA	2014.10	IRAQ
Samsung Engineering	YPFB	BOLIVIA YPFB Ammonia/Urea	Y- STRAINER	199EA	2014.7	BOLIVIA
Samsung Engineering	ARAMCO	LUBEREF Yanbu Refinery EX.	T-TYPE STRAINER	257EA	2014.7	SAUDIARABIA
Samsung Engineering	TOGCC	TOCGC Expansion II	Y- STRAINER	11EA	2014.5	THAILAND
Samsung Engineering	SHAH	Shah Gas PJT	T-TYPE STRAINER	4EA	2014.5	UAE
Samsung Engineering	S-OIL	S-OIL Onsan Refinery Exp. PJT	BUCKET STRAINRER etc	44EA	2014.5	KOREA
Samsung Engineering	ARAMCO	SHAYBAH IGHC #4	Y- STRAINER	211EA	2014.4	SAUDIARABIA

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3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
Samsung Engineering	SONATRACH	Skikda Refinery PJT	Y-STRAINER 16” etc	60EA	2014.3	ALGERIA
Samsung Engineering	ARAMCO	SHAYBAH	BUCKET STRAINRER etc	211EA	2013.09	SAUDIARABIA
Samsung Engineering	Samsung Ingenieria Energia S.A.DE C.A	NORTE 2 CCGT POWER PJT	Y- STRAINER	6EA	2012.01	MEXICO
Samsung Engineering	MA'ADEN	MA'ADEN ALUMINUM ROLLING	Y-STRAINER 16” etc	8EA	2012.05	SAUDIARABIA
Samsung Engineering	ARAMCO	WASIT COGEN &GENERATION	TEE STRAINER 18“ etc	11EA	2012.1	SAUDIARABIA
Samsung Engineering	Skikda	Refinery Project	T-TYPE STRAINER		2011.04	ALGERIA
Samsung Engineering	CHIYODA	PACKAGE4(COKER UNIT)FOR JUBAIL	T-TYPE STRAINER		2011.02	SAUDIARABIA
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	UAE
Samsung Engineering	TAKREER	TAKREER RRE UTILITES & OFFSITES (PKG #3)	Y- STRAINER	2EA	2011.1	UAE
Samsung Engineering	PETRONAS CARIGALISDN. BHD	PCSB SOGT PROJECT	BUCKET- STRAINER etc	83EA	2011.12	Malaysia
Samsung Engineering	S-OIL	S-OIL ONSAN REFINERY EXPANSION PJT (SEP PJT)	CONDENSATE SEPARATOR	8EA	2010.04	KOREA
Samsung Engineering	S-OIL	S-OIL ONSAN REFINERY EXPANSION PJT (SEP PJT)	DRIP FUNNEL	9EA	2010.05	KOREA
Samsung Engineering	S-OIL	S-OIL ONSAN REFINERY EXPANSION PJT (SEP PJT)	STEAM RING	36EA	2010.05	KOREA

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3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
GS E&C	KOC	NWC PJT	DUPLEX STRAINER 12“ etc	94EA	2016.10	KUWAIT
GS E&C	KPIC	KPIC ONE PJT	Y-TEE STRAINER 16“ etc	145EA	2016.07	KOREA
GS E&C	SAE	ERC REFINERY PJT	Y-STRAINER 2" etc	249EA	2016.02	EGYPT
GS E&C	Uz-Kor Gas Chemical LLC	UGCC EHTYLENE PLANT	TEE STRAINER 6“ etc	45EA	2013.11	Uzbekistan
GS E&C	KNOC	BLACKGOLD	Y-STRAINER 2" etc	67EA	2013.01	CANADA
Hyundai Engineering	KENGEN	OLKIARIA 2ND	Y-STRAINER 4“ etc	34EA	2013.05	Kenya
Hyundai Engineering	the Ministry of Oil and Gas of Turkmenistan	TURKMENBASHI OIL REFINERIES	T-STRAINER 1” etc	270EA	2015.11	TURKMENBASHI
Hyundai Engineering	SONELGAZ	AIN ARNAT	B-STRAINER 10” etc	34EA	2014.07	ALGERIA
Hyundai Engineering	ASHUGANJ POWER	ASHUGANJ	Y-STRAINER 8” etc	20EA	2014.11	BANGLADESH
Hyundai Engineering	Aboitiz Power	TVEP THERMA VISAYAS PJT	T-STRAINER 3” etc	100EA	2016.04	PHILIPPINES
Hyundai E&C	PDVSA	RPLC DEEP CONVERSION	BUCKET STRAINER 24“ etc	226EA	2014.02	Venezuela
Hyundai E&C	Vietnam Electricity	MONG DOUNG1	STRAINER 40“ etc	56EA	2013.06	VIETNAM
Hyundai E&C	ADWEA & GDF	MIRFA	STRAINER 38“ etc	94EA	2016.01	UAE
SK E&C	SK ENERGY	LIBS #10,11	Y & TEE STRAINER	11EA	2016.11	KOREA

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3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
SK E&C	E-CL	PIEM / RED DRAGON	Y & TEE STRAINER	10EA	2016.07	CHILE
SK E&C	SK ENERGY	공정효율개선사업	Y & TEE STRAINER	25EA	2016.05	KOREA
SK E&C	ARAMCO	JAZAN	Y & TEE STRAINER	243EA	2016.05	SAUDIARABIA
SK E&C	FORT HILLS	FORT HILLS SE PJT	Y & TEE STRAINER etc	183EA	2015.11	CANADA
DAELIM	SAN BUENAVENTURA POWER LTD. CO	SBPL 500MW CFPP	BUCKET-STRAINER 28” etc	11EA	2017.01	PHILIPPINE
DAELIM	POSEUNG GREEN ENERGY	POSEUNG-BIOMASS	T-STRAINER 44” etc	28EA	2016.11	KOREA
DAELIM	KOMIPO(Korea Midland Power)	SINSEOCHUN	BUCKET-STRAINER 5” etc	19EA	2016.09	KOREA
DAELIM	DEALIM	E-PROJECT	T-STRAINER 4” etc	4EA	2016.09	KOREA
Lotte E&c	KOSPO	DAEGU INNNOCITY	TEE STRAINER 12“ etc	11EA	2013.11	KOREA
Lotte E&c	Hyndai Steel	HYUNDAI STEEL COKES / HAWSUNG	T STRAINER 500A etc	74EA	2009.06	KOREA
DAEWOO E&C	KOREA WESTERN POWER CO., LTD	GUNSAN THERMAL POWER GENERATION	Y-STRAINER 600# 8"	2EA	2009.12.15	KOREA
KEPCO KSP	GUNSAN THERMAL POWER GENERATION	SITE OF COMBINED CYCLE MAJOR COMPONENTS	FILTER	2EA	2010.04	KOREA
Hyundai Heavy Industries	SEC	SHUQAIQ	Y STRAINER 300# 1/2"	12EA	2015.03	SAUDI ARIBIA
Hyundai Heavy Industries	DS POWER	OSAN CHPP	BUCKET STRAINER 150# 68", 26"	4EA	2015.02	KOREA

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3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
Hyundai Heavy Industries	PTB Kuwait	Az-Zour North IWPP	TEE STRAINER 150# 30"	99EA	2014.09	KUWAIT
DOOSAN HEAVY INDUSTIES	KOMIPO(Korea Midland Power)	HANAM CHP	TEE STRAINER 150# 16"	1EA	2015.01	KOREA
DOOSAN HEAVY INDUSTIES	OCI	SAEMANGEUM BOP&BLR	BUCKET , TEE , Y STRAINER etc.	36EA	2014.12	KOREA
DOOSAN HEAVY INDUSTIES	KOMIPO(Korea Midland Power)	SIN BORYEONG TG #1,2	DUPLEX STRAINER 150# 3",4"	4EA	2014.11	KOREA
DOOSAN HEAVY INDUSTIES	Korea Hydro & Nuclear Power	SIN HANUL	Y STRIANER 150# 4"	2EA	2014.09	KOREA
DOOSAN HEAVY INDUSTIES	Hanwha Engineering & Construction	YANBU2 BLR	BUCKET STRAINER 150# 8" etc.	6EA	2014.07	SAUDI ARABIA
DOOSAN HEAVY INDUSTIES	KOMIPO(Korea Midland Power)	SIN BORYEONG 1,2	DUPLEX STRAINER 300# 6" etc.	6EA	2014.04	KOREA
DOOSAN HEAVY INDUSTIES	KOREA ELECTRIC POWER CORPORATION (KEPCO)	BNPP #1~4	DUPLEX STRAINER 150# 3",4",5,",6"	24EA	2014.04	UAE
DOOSAN HEAVY INDUSTIES	DAELIM Industrial Co., Ltd.	Pocheon LNG Power Plant	TEE STRAINER 150# 20"	2EA	2013.02	KOREA
DOOSAN HEAVY INDUSTIES	KOMIPO(Korea Midland Power)	Se Jong Cogeneration	BUCKET STRAINER 150# 12"	3EA	2013.03	KOREA
DOOSAN HEAVY INDUSTIES	KOMIPO(Korea Midland Power)	Yang Ju Cogeneration	TEE STRAINER 150# 18"	1EA	2013.04	KOREA
DOOSAN HEAVY INDUSTIES	KOMIPO(Korea Midland Power)	Se Jong Cogeneration	TEE STRAINER 150# 18"	1EA	2013.06	KOREA
DOOSAN HEAVY INDUSTIES	Saudi Electricity Company	RPP2 TG	Y STRAINER 300# 4"	4EA	2012.04	SAUDI ARABIA
DOOSAN HEAVY INDUSTIES	Korea South East Power Co.	Yeongheung unit 5&6	DUPLEX STRAIENR 300# 6"	2EA	2012.08	KOREA

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3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
DOOSAN HEAVY INDUSTIES	MARAFIQ	Marafiq MED	Bucket STRAINER 36"	26EA	2012.06	SAUDI ARABIA
DOOSAN HEAVY INDUSTIES	Hanwha Engineering & Construction	YANBU2 BLR	DUPLEX STRAINER 600# 1.1/2"	124EA	2012.09	SAUDI ARABIA
DOOSAN HEAVY INDUSTIES	General Electric	Erzin CC Power Plant	Y STRAINER 1500# 3",600# 3"	4EA	2012.1	TURKEY
DOOSAN HEAVY INDUSTIES	AES-VCM	MongDuong2 BLR	DUPLEX STRAINER 300# 4"	8EA	2012.12	VIETNAM
DOOSAN HEAVY INDUSTIES	Hanjin Heavy Industries	Yangju CHPP	Y STRAINER 300# 2"	2EA	2012.12	KOREA
DOOSAN HEAVY INDUSTIES	AES-VCM	MongDuong2 BOP	DUPLEX STRAINER 3",4",8"	48EA	2012.12	VIETNAM
DOOSAN HEAVY INDUSTIES	HHIC	Yang Ju Cogeneration	Y STRAINER 600# 3/4",2"	2EA	2012.12	KOREA
DOOSAN HEAVY INDUSTIES	Korea Hydro &Nuclear Power	Sin-Gori #1&2	Y STRAINER 300# 3"	3EA	2012.12	KOREA
DOOSAN HEAVY INDUSTIES	General Electric	TEST BED SWRO	TEMPORARY STR. 150# 6",12",14",16“ ,18",20"	14EA	2011.08	KOREA
DOOSAN HEAVY INDUSTIES	JACOBS	Toul steam HRSG	BUCKET STR. 2500# 3",900# 3"	5EA	2011.08	FRANCE
DOOSAN HEAVY INDUSTIES	GMR CHHATTIS	Raipur HRSG	DUPLEX STR. 300# 4",3"	4EA	2011.12	INDIA
DOOSAN HEAVY INDUSTIES	The Israel Electric Co	IEC ADD ON	Y-STRAINER 2"	12EA	2011.11	ISRAEL
DOOSAN HEAVY INDUSTIES	Qatar Aluminium	QATALUM PJT	BUCKET STRAINER 18“ etc	18EA	2011.11	QATAR
DOOSAN HEAVY INDUSTIES	Saudi Electricity Company	RPP2	Y-STRAINER 1 1/2"	12EA	2011.11	SAUDI ARABIA

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3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
DOOSAN HEAVY INDUSTIES	Misnistry of Electricity & Water	SHUWAIKH RO	TEMPORARY STR. 150# 18",16",12",10“ ,8"	24EA	2010.02	KUWAIT
DOOSAN HEAVY INDUSTIES	Gheco-One	GHECO ONE	Y STR. 600# 1/2",2"	2EA	2010.03	THAILAND
DOOSAN HEAVY INDUSTIES	General Electricity	AL Khalij	Duplex STR. 300# 8"	44EA	2010.06	LIBYAN
DOOSAN HEAVY INDUSTIES	Saudi Electricity Company	QURAYYAH	TEMPORARY STR. 150# 4",6",8",16",18"	36EA	2010.12	SAUDI ARABIA
DOOSAN HEAVY INDUSTIES	Saudi Electricity Company	QURAYYAH HRSG	Y STR. 600# 2",1500# 2"	30EA	2010.12	SAUDI ARABIA
DOOSAN HEAVY INDUSTIES	QATAR PETROLEUM	QATALUM PJT	CONE STR. 150# 4",18"	22EA	2009.03	QATAR
DOOSAN HEAVY INDUSTIES	GLOW ENERGY PUBLIC	GLOW 115MW CFB3	BUCKET STR. 150# 2"	2EA	2009.02	THAILAND
DOOSAN HEAVY INDUSTIES	Q-POWER	RAS LAFFAN	Y STRAINER 1500# 3"	8EA	2009.05	QATAR
DOOSAN HEAVY INDUSTIES	Misnistry of Electricity & Water	SHUWAIKH RO	BASKET STR.150# 16",18"	33EA	2009.04	KUWAIT
DOOSAN HEAVY INDUSTIES	General Electricity	SAMSUN HRSG	Y STRAINER 900# 2 1/2", 2500# 3"	4EA	2009.05	TURKEY
DOOSAN HEAVY INDUSTIES	General Electricity	KOUDIET	Y STRAINER 900# 2 1/2", 2500# 3"	6EA	2009.07	ALGERIA
DOOSAN HEAVY INDUSTIES	ELECTRICA ANGAMOS	ANGAMOS	DUPLEX STR. 300# 4“,6”	4EA	2009.04	CHILE
DOOSAN HEAVY INDUSTIES	GLOW ENERGY PUBLIC	QATALUM PJT	Y STRAINER 150# 1"	2EA	2009.06	QATAR
DOOSAN HEAVY INDUSTIES	Ruwais Suez Tractebei	AL Shuweihat	BUCKET STRAINER 1500# 2.1/2",3"	8EA	2009.11	UAE

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3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
DOOSAN HEAVY INDUSTIES	KEPCO	CEBU	Conical STR. 150# 18",6",4",3"	13EA	2009.1	PHILIPPINE
DOOSAN HEAVY INDUSTIES	KOSPO	HADONG TAEAN 7,8#	DUPLEX STR. 2"	4SET	2008.03	KOREA
DOOSAN HEAVY INDUSTIES	DOOSAN ENGINE	CHOIS PJT	BUCKET STR. 150# 1",1 1/4",2"	14EA	2008.06	KOREA
DOOSAN HEAVY INDUSTIES	POSCO	NUEVA VENTANAS 240MW COAL FIRED POWER PJT	DUPLEX STR. 300# 4",6"	2SET	2008.07	CHILE
DOOSAN HEAVY INDUSTIES	GLOW ENERGY PUBLIC	GLOW 115MW CFB3	BASKET STR. 150# 12"	10EA	2008.1	THAILAND
DOOSAN HEAVY INDUSTIES	FOUNDATION POWER COMPANY	DAHARKI CCPP EPC PJT	DUPLEX STR. 150# 2",8"	16EA	2008.11	PAKISTAN
DOOSAN HEAVY INDUSTIES	GENERAL ELECTRIC	EMAL HRSG	Y STRAINER 1500# 3"	4EA	2008.11	UAE
DOOSAN HEAVY INDUSTIES	Hydro Norsk and QATAR PETROLEUM	QATALUM PJT	DUPLEX STR. 150# 3",4"	12EA	2008.12	QATAR
DOOSAN HEAVY INDUSTIES	ADWEA	TAWHEELAH A10	Y TYPE STRAINER 1500# 3"	2SET	2007.11	
Hyosung Goodsprings	KEPCO	UAE BNPP	DUPLEX STRAINER 1-1/2"	24EA	2014.01	UAE
Hyosung Goodsprings	KOREA SOUTHERN POWER CO.,LTD	SamCheok #1,2 CBP	TEMPORARY STRAINER 18"	6EA	2014.01	KOREA
Hyosung Goodsprings	KOREA SOUTHERN POWER CO.,LTD	SamCheok #1,2 COP	BUCKET STRAINER 28"	6EA	2014.02	KOREA
Hyosung Goodsprings	KOREA SOUTHERN POWER CO.,LTD	Sam Cheok Green Power LPHDP	TEMPORARY STRAINER 10"	4EA	2014.02	KOREA
Hyosung Goodsprings	Samsung T&C	PRAI CCGT	BUCKET STRAINER 20"	6EA	2014.03	Malaysia

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3. Experience

3.1 Onshore

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Hyosung Goodsprings	TOYO	Korea Petrochemical Ind. Co.,LTD	Y- STRAINER 1"	2EA	2014.03	KOREA
Hyosung Goodsprings	SPE	AIN ARNAT	BUCKET STRAINRER 12"	6EA	2014.04	Algeria
Hyosung Goodsprings	Korea Hydro&Nuclear Power	Sin Ul 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 STRAINER 18"/30"	5EA	2014.05	KOREA
Hyosung Goodsprings	KOMIPO(Korea Midland Power)	SIN BORYEONG 1,2	DUPLEX STRAINER 32"	2EA	2014.06	KOREA
Hyosung Goodsprings	KOMIPO(Korea Midland Power)	SIN BORYEONG 1,2	TEMPORARY STRAINER 18"	3EA	2014.06	KOREA
Hyosung Goodsprings	Korea Hydro & Nuclear Power Co.,	Sin Ul Jin #1,2 CWP	DUPLEX STRAINER 1-1/2"	12EA	2014.06	KOREA
Hyosung Goodsprings	DOOSAN HEAVY INDUSTIES	HANAM POWER	Y-STRAINER 8"/6"/10"	6EA	2014.07	KOREA
Hyosung Goodsprings	KOMIPO(Korea Midland Power)	SIN BORYEONG 1,2	BUCKET STRAINER 20"/16"	6EA	2014.08	KOREA
Hyosung Goodsprings	KOMIPO(Korea Midland Power)	SIN BORYEONG 1,2 COP	BUCKET STRAINER 28"	6EA	2014.08	KOREA
Hyosung Goodsprings	KEPCO	CIPREL	DUPLEX STRAINER 14"	3EA	2014.08	Cote d'Ivoire
Hyosung Goodsprings	KOREA WESTERN POWER CO.,LTD	Taean #9,10 CCWP	TEMPORARY STRAINER 30"	4EA	2014.08	KOREA
Hyosung Goodsprings	SK E&C	HANAM COP	BUCKET STRAINER 12"	6EA	2014.09	KOREA
Hyosung Goodsprings	KOREA WESTERN POWER CO.,LTD	Taean #9,10 CBP	TEMPORARY STRAINER 18"	6EA	2014.09	KOREA

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3. Experience

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Customer	End User	Project	Products	Q,ty	Date	Location
Hyosung Goodsprings	KOREA SOUTHERN POWER CO.,LTD	SamCheok Green Power LPHDP	TEMPORARY STRAINER 10"	2EA	2014.09	KOREA
Hyosung Goodsprings	KOREA SOUTHERN POWER CO.,LTD	SamCheok #1,2 COP / CBP	BUCKET STRAINER 28" etc.	6EA	2014.09	KOREA
Hyosung Goodsprings	KOREA WESTERN POWER CO.,LTD	Taean #9,10 COP	BUCKET STRAINER 28"	6EA	2014.09	KOREA
Hyosung Goodsprings	SK E&C	HANAM BFP	BUCKET STRAINER 18"	2EA	2014.10	KOREA
Hyosung Goodsprings	KOMIPO(Korea Midland Power)	SIN BORYEONG 1,2 GSP	BUCKET STRAINER etc.	12EA	2014.10	KOREA
Hyosung Goodsprings	KOREA WESTERN POWER CO.,LTD	Taean #9,10 LPHDP	TEMPOARY STRAINER 10"	4EA	2014.10	KOREA
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	Taean #9,10	BUCKET STRAINER 20"/16"	6EA	2014.11	KOREA
Hyosung Goodsprings	POSCO	KHABAT BFP	BUCKET STRAINER 12"	6EA	2014.12	IRAQ
Hyosung Goodsprings	DAELIM Industrial Co., Ltd.	FAST TRACK 3A	BUCKET STRAINER 28" etc.	10EA	2015.02	Malaysia
Hyosung Goodsprings	KEPCO	OSAN POWER LP/HP BFP	BUCKET STRAINER 14" etc.	4EA	2015.02	KOREA
Hyosung Goodsprings	Samsung C&T	RABIGH2 BFP	BUCKET STRAINER 10" / 22"	10EA	2015.03	SAUDIARABIA
Hyosung Goodsprings	Doosan Heavy Industries	Yang Ju Cogeneration HRSG	Y- STRAINER 8“ etc	8EA	2013.01	KOREA

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3. Experience

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Customer	End User	Project	Products	Q,ty	Date	Location
Hyosung Goodsprings	SK E&C	TUFANBEYLI TTP	BUCKET STRIANER 12"	6EA	2013.01	Turkey
Hyosung Goodsprings	FHI/CFB BOILERS OF PETR ON	FHT/THI-2 PJT	Y-STRAINER 8"	12EA	2013.02	
Hyosung Goodsprings	Samsung C&T	Dongducheon dream power / Dongducheon combined cycle	BUCKET STRAINER 12"/4"	12EA	2013.04	KOREA
Hyosung Goodsprings	KEPCO	GHANA TAKORADI T2	BUCKET STRAINER 8"	6EA	2013.06	GHANA
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	KOREA EAST-WEST POWE R CO.,LTD	Dang Jin Thermal Power #9,10	TEMPORARY STRAINER 10"	4EA	2013.11	KOREA
Hyosung Goodsprings	POSCO E&C	Ansan Clean Energy	TEE STRAINER 28"/76"	4EA	2013.11	KOREA
Hyosung Goodsprings	POSCO E&C	Brazil CSP	TEE STRAINER 64"	6EA	2013.11	BRAZIL
Hyosung Goodsprings	Doosan Heavy Industries	Ha Nam si Cogeneration	Y-STRAINER 8“ etc	6EA	2013.12	KOREA
Hyosung Goodsprings	Hyundai ENG	NEW HARIPUR	Y-STRAINER 8"	2EA	2012.02	Bangladesh
Hyosung Goodsprings	Posco E&c		TEMPORARY STRAINER 6"	2EA	2012.02	
Hyosung Goodsprings	Doosan Heavy Industries	IEC ADD ON	BUCKET STRAINER 16"	2EA	2012.03	Israel
Hyosung Goodsprings	DAELIM Industries co., Ltd	MDI 250KT	TEMPORARY STRAINER 4"	2EA	2012.03	CHINA

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3. Experience

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Customer	End User	Project	Products	Q,ty	Date	Location
Hyosung Goodsprings	SECL	NORTE 2	BUCKET STRAINER 18"	2EA	2012.05	MEXICO
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 E&C	Dong Hae Biomass	BUCKET STRAINER 8"	2EA	2012.07	KOREA
Hyosung Goodsprings	Daewoo E&C	SHUWEIHAT S3 IPP	BUCKET STRAINER 14"	6EA	2012.08	UAE
Hyosung Goodsprings	Doosan Heavy Industries	Young Heung Thermal Power #5, 6 boiler feed pump	TEMPORARY STRAINER 3“ etc	24EA	2012.08	KOREA
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	Young Heung Thermal Power #5, 6	BUCKET STRAINER 18"	6EA	2012.09	KOREA
Hyosung Goodsprings	Hyundai E&C	NEW HARIPUR	TEMPORARY STRAINER 20"	4EA	2012.09	Bangladesh
Hyosung Goodsprings	Doosan Heavy Industries	Young Heung Thermal Power #5, 6 LPHDP	TEMPORARY STRAINER 10"	8EA	2012.09	KOREA
Hyosung Goodsprings	Daewoo E&C	SHUWEIHAT S3 IPP	Y-STRAINER 10"	4EA	2012.09	UAE
Hyosung Goodsprings	Korea South-East Power	Young Heung #5,6 CBP	TEMPORARY STRAINER 16"	12EA	2012.1	KOREA
Hyosung Goodsprings	Korea South-East Power	Young Heung #5,6 COP	BUCKET STRAINER 26"	6EA	2012.1	KOREA

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3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
Hyosung Goodsprings	MARAFIQ	MARAFIQ PJT	TEMPORARY STRAINER 3"	12EA	2012.1	SAIDI ARIBIA
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 certif ication)	6EA	2012.11	
Hyosung Goodsprings	Doosan Heavy Industries / Hanjin Heavy Industries	Yang Ju HRSG	BUCKET STRAINER 12"	4EA	2012.12	KOREA
Hyosung Goodsprings	SK E&C	TUFANBEYLI COP	BUCKET STRIANER 12"	6EA	2012.12	TURKEY
Hyosung Goodsprings	NIORDC	ABADAN REFINERY CO	TEMPORARY STRAINER 300L B 6"	5EA	2011.01	Iran
Hyosung Goodsprings	SAUDI ARAMCO TOTAL	JERP#5B	TEMPORARY STRAINER 150L B 18"	2EA	2011.01	SAIDI ARIBIA
Hyosung Goodsprings	FHI/CFB BOILERS OF PETR ON	FHT/THI-1 PJT	Y STRAINER 150# 8"	8EA	2011.03	
Hyosung Goodsprings	GS E&C	OMAN	DUPLEX-TYPE STRAINER 150 LB 12"	12EA	2011.03	OMAN
Hyosung Goodsprings	HANWHA E&C	MARAFIQ STG 5&6 PJT	BASKET STRAINER 300# 12"	6EA	2011.03	SAIDI ARIBIA
Hyosung Goodsprings	DAEWOO E&C	NAOC	TEMPORARY STRAINER	2EA	2011.05	
Hyosung Goodsprings	TAIHAN ELECTRIC WIRE		TEMPORARY STRAINER	2EA	2011.05	
Hyosung Goodsprings	EUAS	EPP/EUAS/AMBARLT PJT	Y STRAINER 150# 8"	8EA	2011.06	
Hyosung Goodsprings	POSCO	CHILCAUNO	TEE STRAINER 300LB 26"	2EA	2011.07	

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3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
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	SK E&C	OSEONG CCPP	Y STRAINER 600LB 8"	3EA	2011.1	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	Korea Hydro Nuclear Power	Kori.Khnp	DUPLEX STRAINER 3/4"	4EA	2011.11	KOREA
Hyosung Goodsprings	LOTTE E&C	AL QATRANA POWER	BASKET STRAINER 300# 12"	16EA	2010.08	
Hyosung Goodsprings	DOOSAN HEAVY INDUSTIES	GENAVEH PJT	BASKET STRAINER 150# 16"	2EA	2010.1	
Hyosung Goodsprings	MAPNA BOILER		Y STRAINER 300# 10"	4EA	2010.11	Iran
Hyosung Ebara	Hyundai Eng	SIPCO	BUCKET STRAIENR 150# 6"	4EA	2010.01	Thailand
Hyosung Ebara	Korea Hydro & Nuclear Power Co.,	NEW KORI #3,4	DUPLEX BASKET STRAINER 150# 1 1/2"	12EA	2010.05	KOREA
Hyosung Ebara	MAPNA BOILER	40HRSG PJT	BASKET STRAINER 150# 16"	34EA	2010.05	Iran
Hyosung Ebara	MAPNA BOILER	ABADAN2&SHIRVAN3	BASKET STRAINER 150# 16"	4EA	2010.08	Iran
Hyosung Ebara	Posco E&c	POSCO POWER LNG COMBINED CYCLE #5,6	BUCKET STRAIENR 300# 10"	4EA	2009.09	KOREA

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3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
Hyosung Ebara	Samsung E&c	ADEWA SHUWEIHAT S2 I WPP	BUCKET STRAIENR 300# 14"	6EA	2009.1	UAE
SASAKURA Engineering	SASAKURA		DUPLEX STRAINER	2EA	2010.09	
E-TEC E&C Limited	Solvay Fluor Korea Co.,Ltd	F1EC PJT	Y-STRAINER 300# 3“ etc	14EA	2009.06	
Sewon Cellontech	Hyndai Steel		DUP.OIL STR. 10K 250A etc	31EA	2009.03	
KC cottrell	GHECO	GHECO ASH HANDLING S YSTEM	DUP.OIL STR. 150LB 8"	1EA	2010.09	
BHI	Simens AG	DAEGU HRSG	Y-STRAINER 2500# 3 " , 900# 3 "	5EA	2013.09	KOREA
BHI	CSP	BRAGIL CSP	Y STRAINER 2500# 4"	6EA	2013.1	BRAZIL
JEONGWOO INDUSTRIAL	KOREA HYDRO & NUCLEAR POW ER CO.,LTD	NEW WOLSUNG #1,2 P216	DUPLEX STR.150# 2",4",300#3 "	92EA	2009.04	KOREA
JEONGWOO INDUSTRIAL	KOREA HYDRO & NUCLEAR POW ER 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 POW ER 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",1 2"	14EA	2007.07	
HWA SAN	HYUNDAI HEAVYINDUSTRIE	PAJU CHPP	Y STRAINER 150# 250A	3EA	2009.03	KOREA
HWA SAN	ELECTRICA ANGAMOS	ANGAMOS PJT	BUCKET STR. 300# 250A	6EA	2009.04	
HWA SAN	Q-POWER	RAS LASFFAN	BASKET STR. 300# 350A	16EA	2009.06	

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3. Experience

3.1 Onshore

Customer	End User	Project	Products	Q,ty	Date	Location
HOSAN	HYUNDAI HEAVYINDUSTRIES	BUK-PYEONG THERMAL P/P 1&2	Multi type duplex 24”, 20”	5EA	2014.05	KOREA
HOSAN	HYUNDAI HEAVYINDUSTRIES	UAE BNPP 3&4	DUPLEX STRAINER 150# 1 ½”	6EA	2015.02	UAE
HOSAN	HYUNDAI HEAVYINDUSTRIES	JEDDAH SOUTH	WATER STR.150# 8”	38EA	2014.11	SAIDI ARIBIA
HOSAN	HYUNDAI HEAVYINDUSTRIES	AMOS & ANAA BFP	DUPLEX STRAINER 150# 1 ½”	16EA	2015.01	Algeria
HOSAN	HYUNDAI HEAVYINDUSTRIES	TALIMARJAN CWP	WATER STR. 150# 1”	16EA	2014.09	Uzbekistan
HOSAN	HYUNDAI HEAVYINDUSTRIES	AZ-ZOUR NORTH	DUPLEX STR 150# 1 ½”	20EA	2014.11	Kuwait
HOSAN	HYUNDAI HEAVYINDUSTRIES	POSCO KHABAT	DUPLEX STRAINER 150# 1 ½”	6EA	2014.08	IRAQ

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3. Experience

3.2 Offshore

Customer	End User	Project	Products	Q,ty	Date	Location
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	
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	
Daewoo Shipbuilding & Marine Engineering	INPEX	H6054 (ICHTHY HULL/TOPSIDE)	CONE STRAINER,TEE STRAIN ER	223EA	2014.02	
Daewoo Shipbuilding & Marine Engineering	UK Government	7044/UK MARS TANKER	WATER STRAINER 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 STRAINER 700A etc	166EA	2014.12	
Daewoo Shipbuilding & Marine Engineering	UK Government	7044/UK MARS TANKER	WATER STRAINER 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	

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3. Experience

3.2 Offshore

Customer	End User	Project	Products	Q,ty	Date	Location
Daewoo Shipbuilding & Marine Engineering	ALLSEAS	H3401	WATER STRAINER 650A etc	200EA	2012.07	
Daewoo Shipbuilding & Marine Engineering	HEEREMA MARINE	H3402	WATER STRAINER 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 STRAINER 650A etc	12EA	2010.03	
Daewoo Shipbuilding & Marine Engineering	ODEBRECHT DRILLSHIP ODN	H3609	WATER STRAINER 650A etc	139EA	2010.09	
Daewoo Shipbuilding & Marine Engineering	ODEBRECHT DRILLSHIP ODN	H3610	WATER STRAINER 650A etc	139EA	2010.12	
Daewoo Shipbuilding & Marine Engineering	Petroserv	H3028	WATER STRAINER 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	TOTAL	EGINA HULL	STRAINER	41EA	2015.07	
Samsung Heavy Industries	TOTAL	EGINA TOPSIDE	STRAINER	69EA	2015.06	
Samsung Heavy Industries	PETRONAS	2126(FLNG)	STRAINER	34EA	2015.06	
Samsung Heavy Industries	STENA	2097(SEMI-RIG)	STRAINER	177EA	2015.03	
Samsung Heavy Industries	STATOIL	7118(JACK UP RIG)	STRAINER	49EA	2015.04	

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3. Experience

3.2 Offshore

Customer	End User	Project	Products	Q,ty	Date	Location
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	
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	2013.1	
Samsung Heavy Industries	PRIDE DRILL SHIP	7091	MUD DUMP VALVE, BASKET STRAINER	20EA	2012.04	

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3. Experience

3.2 Offshore

Customer	End User	Project	Products	Q,ty	Date	Location
Samsung Heavy Industries	OCEAN RIG	7094	MUD DUMP VALVE	17EA	2012.05	
Samsung Heavy Industries	SEADRILL	7098	MUD DUMP VALVE, BASKET S TRAINER	30EA	2012.06	
Samsung Heavy Industries	SEADRILL	7093	MUD DUMP VALVE, BASKET S TRAINER	20EA	2012.07	
Samsung Heavy Industries	Pacific Drilling	7095	MUD DUMP VALVE, BASKET S TRAINER	33EA	2012.07	
Samsung Heavy Industries	OCEAN RIG	7096	MUD DUMP VALVE	16EA	2012.08	
Samsung Heavy Industries	Pacific Drilling	7097	MUD DUMP VALVE	25EA	2012.1	
Samsung Heavy Industries	OCEAN RIG	7103	MUD DUMP VALVE	16EA	2012.1	
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	

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3. Experience

3.2 Offshore

Customer	End User	Project	Products	Q,ty	Date	Location
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	
Samsung Heavy Industries	CARDIFF DRILLSHIP	7080	MUD DUMP VALVE	16EA	2010.04	
Samsung Heavy Industries	SEADRILL	7045	BUCKET STRAINER 10K 450A	2EA	2010.04	
Samsung Heavy Industries	MOSVOLD DRILLING LTD.	7081	MUD DUMP VALVE	16EA	2010.05	
Samsung HeavyIndustries	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 HeavyIndustries	SAIPEU	7064	TEMPORARY STR. 150# 4“ etc	2EA	2009.11	

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3. Experience

3.3 Oveaseas

Customer	End User	Project	Products	Q,ty	Date	Location
YONEDA	HITACHI	RSH 4574	STRAINER	26	2016.06	QATAR
YONEDA	HITACHI	RSH 4576	STRAINER	30	2016.07	QATAR
YONEDA	KOBELCO	RAPID PROJECT-SCC	STRAINER	1	2016.07	JAPAN
YONEDA	KOBELCO	ZAPSIB NEFTEKHIM	STRAINER	2	2017.01	JAPAN
YONEDA	TOYO	SRI U3 017A	STRAINER	60	2017.01	INDONESIA
YONEDA	TOYO	SRI U3 018A	STRAINER	190	2017.01	INDONESIA
YONEDA	TOYO	SRI U3 018B	STRAINER	47	2016.12	INDONESIA
YONEDA	JGC	CGP3	STRAINER	105	2017.01	BARAIN
YONEDA	JGC	HMD	STRAINER	186	2017.05	ALGERIA
HK ENG	KEPPEL	FPSO ARMADA ALI	STRAINER	22	2015.08	SINGAPORE
HK ENG	JURONG	11-1115	STRAINER	141	2016.03	SINGAPORE
HK ENG	JURONG	DRU3~6	STRAINER	452	2016.12	SINGAPORE
HK ENG	JURONG	22-0331	STRAINER	54	2015.11	SINGAPORE
HK ENG	JURONG	11-1112	STRAINER	84	2014.12	SINGAPORE

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3. Experience

3.3 Oveaseas

Customer	End User	Project	Products	Q,ty	Date	Location
HK ENG	KEPPEL	BANYU URIP	STRAINER	55	2013.10	SINGAPORE
HK ENG	JURONG	11-1116	STRAINER	54	2017.02	SINGAPORE
HK ENG	JURONG	11-1117	STRAINER	54	2017.12	SINGAPORE
HK ENG	JURONG	11-1114	STRAINER	120	2014.12	SINGAPORE
A.P.Moller-MAERSK	MAERSK	9091, 9131	STRAINER	1497	2015.05	DENMARK
ALIOGAZ KUKUH SDN BHD	PETRONAS	TALISMAN	STRAINER	2	2016.07	MALAYSIA
ARAMCO ASIA	ARAMCO	SHAYBAH	STRAINER	9	2016.04	JAPAN
EASTERN SEA COMPANY LTD	PTSC	LAMSON	STRAINER	4	2015.04	VIETNAM
Hoang Linh Ind	PTSC		STRAINER	4	2016.05	VIETNAM
Jan De Nul Dredging N.V.	KDL		STRAINER	91	2014.05	VELGIUM
EMERSON SINGAPORE	ARAMCO	JAZAN	STRAINER	3	2016.10	SINGAPORE
MHI	PETROBRAS	MODEC PETROBRAS MV26	STRAINER	36	2013.08	JAPAN
MHI	PETROBRAS	MODEC PETROBRAS MV25	STRAINER	9	2014.05	JAPAN
MHI	PETROBRAS	MODEC TEN MV29	STRAINER	25	2015.12	JAPAN

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3. Experience

3.3 Oveaseas

Customer	End User	Project	Products	Q,ty	Date	Location
NEXT PETROLEUM	EXXON MOBIL	TAPIS	STRAINER	10	2015.04	MALAYSIA
PTTME	PTTME		STRAINER	8	2014.06	THAILAND
RASGAS	RASGAS	BARZAN, FAP	STRAINER	100	2014.01	QATAR
QATARGAS	QATARGAS	FAP	STRAINER	40	2015.07	QATAR
WOFSON	NIOC	South Pars 17 & 18	STRAINER	45	2016.12	IRAN
WOFSON	IOEC	FOROOZAN PJT	STRAINER	30	2015.12	IRAN
SSA	SECL SAUDI	LUBEREF	STRAINER	29	2016.03	SAUDI ARABIA
SSA	SECL SAUDI	TOCGC 2	STRAINER	2	2015.10	SAUDI ARABIA
SSA	SECL SAUDI	CO2	STRAINER	21	2015.04	SAUDI ARABIA
SASAKURA ENGINEERING CO., LTD.	PPL	JPAN DRILLING	STRAINER	16	2015.03	JAPAN
SASAKURA ENGINEERING CO., LTD.	PPL	PPL SHIPYARD - P2050	STRAINER	8	2013.07	JAPAN
TEEKAY SHIPPING LIMITED	ARAMCO	AL SHAMAL	STRAINER	12	2013.02	CANADA
TURCOMP	PETRONAS	ZT385	STRAINER	2	2016.08	MALAYSIA
TURCOMP	SAPURAKANCANA	SK310	STRAINER	17	2016.10	MALAYSIA

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ
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4. Certificates

4.1 Company Certificates

Certificate Name	Date	Remarks
I S O Certificate Of Registration(9001)	Apr. 23. 2007 ~ Mar. 2. 2018	0693
I S O Certificate Of Registration(14001)	Apr. 12. 2013 ~ Apr. 11. 2019	10/1133
OHSAS18001	Mar. 26. 2013 ~ Mar. 25. 2019	JOK-4013
API Certificate Of Registration	Apr. 23. 2007 ~ Mar. 2. 2018	Q1-0432
CE Certificate Of Registration	Nov. 8. 2012 ~ Oct. 30. 2018	WFC-001-12-KOR
Welding Procedure Specification(WPS)	Mar. 31. 2008.	
Welder’s Approval Test Certification	Mar. 31. 2008.	
Record Of Welder Performance Qualification(WPQ)	Jun. 23. 2007.	
Approval Of Welding Procedure	Mar. 13. 2006.	

4. Certificates

4.1 Company Certificates

ISO 9001

QMS REGISTERED

Certificate of Registration

APIQR® REGISTRATION NUMBER
0693

This 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 Quality Registrar (APIQR®) and found it to be in conformance with the following standard

ISO 9001:2008

The scope of this registration and the approved quality management system applies to the
Design and Manufacture of Strainers and Oil Storage Tanks

APIQR® approves the organization's justification for excluding:
No Exclusions Identified as Applicable

Effective Date: MARCH 2, 2015
Expiration Date: MARCH 2, 2018
Registered Since: APRIL 23, 2007

Vice President, API Global Industry Services

QUALITY REGISTRAR

ISO 14001

SMC

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 14001:2004

Scope :

Design and Manufacture of Strainer, Filter and Oil Storage Tank

ANZSIC : 2769

Certification Number : SKE-10401
Date of Initial Approval: 13th April 2010
Re-issued : 8th April 2016
Expiry : 12th April 2019

Approved by : C.H.Lee

This certificate is valid only if
Regulatory surveillance audit is conducted within the required time.
Standard Management System Co., Ltd.
(Baeksang Star Tower Ⅱ, Gasan-dong) Rm 301, #165, Gasandigital 2-ro, Geumcheon-gu, Seoul, Korea T)+82-2-6111-6301~4 F)+82-2-6111-6309~10
Website : www.smcsmc.co.kr
JAS-ANZ : www.jas-anz.org/register

JAS-ANZ

OHSAS 18001

SMC

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

K-OHSMS 18001 : 2007 / OHSAS 18001 : 2007

Scope :

Design and Manufacture of Strainer, Filter and Oil Storage Tank

Certification Number : SKO-10007
Date of Initial Approval : 26th March 2013
Re-issued : 25th March 2016
Expiry : 25th March 2019

Approved by : C.H.Lee

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ
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4. Certificates

4.1 Company Certificates

API Q1

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

Effective Date: JANUARY 26, 2015
Expiration Date: MARCH 2, 2018
Registered Since: APRIL 23, 2007

Vice President, API Global Industry Services

API Spec Q1 Registered

CE PED

ATTESTATION D'APPROBATION DE SYSTÈME DE QUALITÉ

CERTIFICATE OF QUALITY SYSTEM APPROVAL

N° CE-0062-PED-H-WFC 001-15-KOR

CE PED

N° CE-0062-PED-H-WFC 001-15-KOR

Annexe à l'attestation d'approbation de système de qualité

Annex to the certificate of quality system approval

Liste des équipements concernés

List of the concerned equipment

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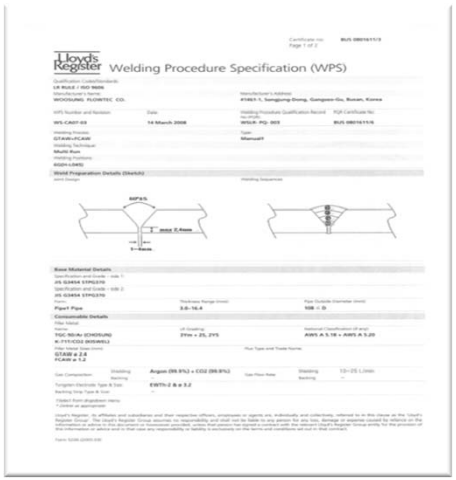
4. Certificates

4.1 Company Certificates

Welding Procedure Specification (WPS / PQR)



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4. Certificates

4.2 Registration Certificates

Name of Company	ASSIGNED ITEM	Registration No. / Site
KNPC	Strainer	1003674 / Kuwait
TAKREER	Strainer	907972 / UAE
ZADCO	Strainer	UAE
IOOC	Strainer	489 / Iran
NIOC	Strainer	18341 / Iran
OIEC	Strainer	13996 / Iran
NIGC	Strainer	60.112.160201 / Iran
NIOEC	Strainer	Iran
IPMI	Strainer	Iran
MAPNA	Strainer	Iran

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4. Certificates

4.2 Registration Certificates

Name of Company	ASSIGNED ITEM	Registration No. / Site
NPC	Strainer	Iran
JGC	Strainer	125960 / Japan
TOYO	Strainer	Japan
CHIYODA	Strainer	Japan
KOBE STEEL	Strainer	Japan
ARAMCO ASIA	Strainer	10052938 / Japan
PERTONAS	Strainer	525055-A / Malaysia
SAPURA KENKANA	Strainer	Malaysia
TECHNIP	Strainer	114073 / France
PPT TANK	Strainer	Thailand

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4. Certificates

4.2 Registration Certificates(Ongoing)

Name of Company	ASSIGNED ITEM	Registration No. / Site
PDO	Strainer	Oman
OXY	Strainer	Oman
HAYA	Strainer	Oman
PTT GC & 16 Subsideries	Strainer	Thailand
TATWEER	Strainer	Barain
ALBA	Strainer	Barain
ADNOC	Strainer	UAE
CPECC	Strainer	China
EIED	Strainer	Iran
PTSC	Strainer	Vietnam

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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, MIRUM-RO 43BEON-GIL, DONGAN-GU
ANYANG
REPUBLIC OF KOREA

DATE: 26TH MAY 2016
REF: VEC/V-5200/14-0621E
FILE NO.: V 5200

SUBJECT: VENDOR APPROVAL

GENTLEMEN,

WITH REFERENCE TO YOUR PQ APPLICATION SUBMITTED TO KNPC ON 27/05/2016, YOUR COMPANY IS APPROVED AS A VENDOR (EFFECTIVE 26/05/2016) FOR THE SUPPLY OF THE FOLLOWING PRODUCT(S) FOR K.N.P.C. REFINERIES:

PRODUCT	DESCRIPTION
15 30	STRAINERS

THE COMPANY (VENDOR) CODE ALLOCATED TO YOUR COMPANY IS "1000679".

PLEASE ENSURE TO QUOTE THIS CODE AND ABOVE FILE NO. ON ALL YOUR FUTURE CORRESPONDENCE.

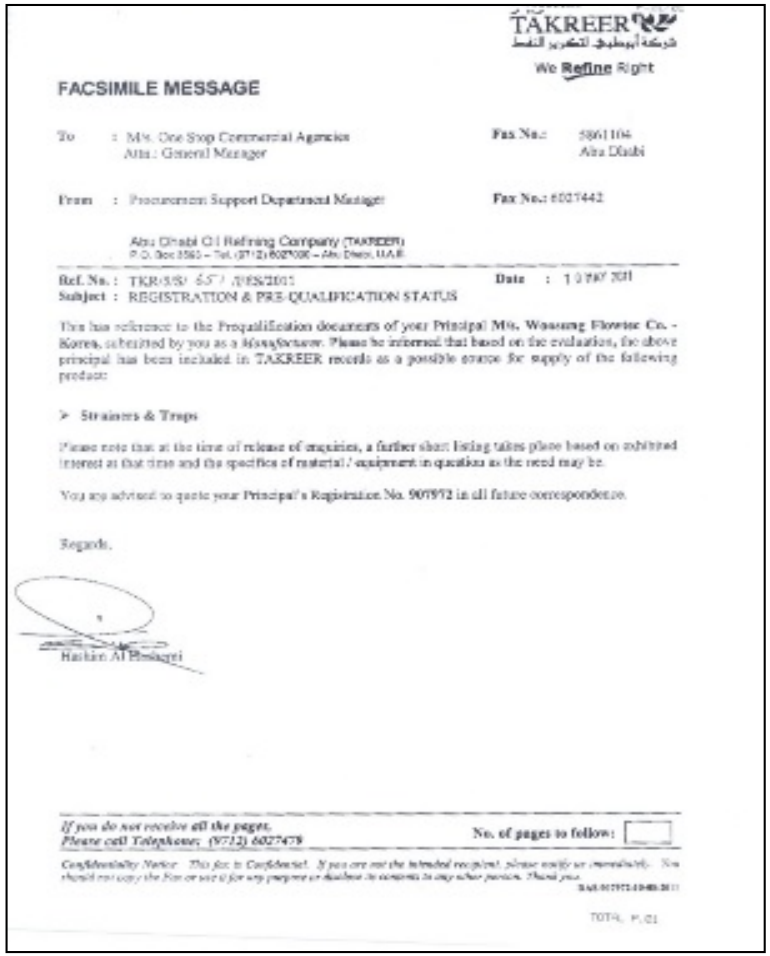
VERY TRULY YOURS,

VENAMA H. SHASTRI
CHAIRMAN V & CEO

NOTE: APPROVAL VALIDITY IS UPTO 25TH MAY 2021

VENDOR REPORT OVERDUE FOR INSPECTIONS

TAKREER



TAKREER
شركة أبوظبي للتكرير النفط
We Refine Right

FACSIMILE MESSAGE

To : M/s. One Stop Commercial Agencies
Attn.: General Manager
Fax No.: 5861104
Abu Dhabi

From : Procurement Support Department Manager
Fax No.: 6027442

Abu Dhabi Oil Refining Company (TAKREER)
P.O. Box 3565 – Tel. (9712) 6027000 – Abu Dhabi, U.A.E.

Ref. No. : TKR/SS/ 657 /DES/2011
Date : 13 FEB 2011
Subject : REGISTRATION & PRE-QUALIFICATION STATUS

This has reference to the Prequalification documents of your Principal M/s. Woosung Flowtec Co. - Korea, submitted by you as a Manufacturer. Please be informed that based on the evaluation, the above principal has been included in TAKREER records as a possible source for supply of the following product:

- Strainers & Traps

Please note that at the time of release of enquiries, a further short listing takes place based on submitted interest at that time and the specifics of material / equipment in question as the need may be.

You are advised to quote your Principal's Registration No. 907972 in all future correspondence.

Regards,

Hashim Al Bastaqi

If you do not receive all the pages,
Please call Telephone: (9712) 6027479
No. of pages to follow:

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TOTAL P.01

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2017

Financial Status

05

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ
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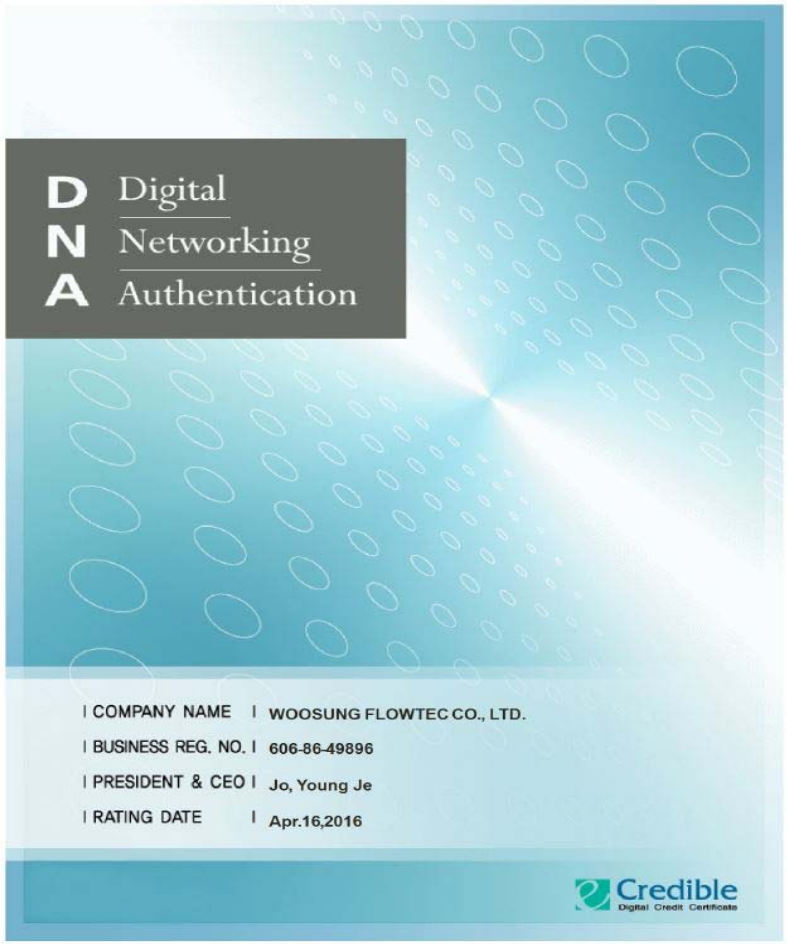
5 Financial Status



CREDIT RATING

ECC20160400511 4| WOOSUNG FLOWTEC CO., LTD. | Jo, Young Je | 606-86-49896

■ Company Information

Company Name	WOOSUNG FLOWTEC CO., LTD.
President	Jo, Young Je
Head Office	(46744) Gangseo-gu, Busan-si
TEL	051-831-1533
Business Reg. Number.	606-86-49896
Line of Business	Manufacturing of Taps, Valves and Similar Products
Date of Registration	Oct.14,2013
Fiscal Year	Dec.31,2015
Credit Rating Effective Date	Apr.16,2016~Apr.15,2017

Credit Rating

B+

Credit Rating Date

Apr.16,2016

Credit Rating History

Reporting Date	Fiscal Year	Credit Rating	Cash Flow Rating
Apr.16,2016	Dec.31,2015	B+	C+
Apr.24,2015	Dec.31,2014	B	C-
Jun.27,2014	Dec.31,2013	BB-	A

■ Company Overview

Main Items	Business Profile		Customer (%)		Major Shareholders	
Strainer	No. of Employee	65	DSME Co., Ltd.	15%	Jo, Young Je	90%
Reducing Piece	Company Size	Medium	Samsung Heavy Industries Co., Ltd.	13%	Jo, Sung Hwan	10%
Emergency Tank	Legal Status	Audited Company	Samsung Engineering Co., Ltd.	10%		
Filter	Paid-in Capital (KRW million)	2,000	Hyosung Good Springs, Inc.	8%		

(Unit: KRW million)

Fiscal Year	Total Asset	Total Liabilities	Total Stockholders' Equity	Sales	Operating Income	Net Income
Dec.31,2015	13,240	9,868	3,371	16,427	921	611
Dec.31,2014	14,273	12,512	1,760	16,985	783	480
Dec.31,2013	4,942	3,661	1,280	15,390	1,405	1,797
Dec.31,2012	6,240	5,181	1,058	15,154	547	374

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1

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2017

Products

06

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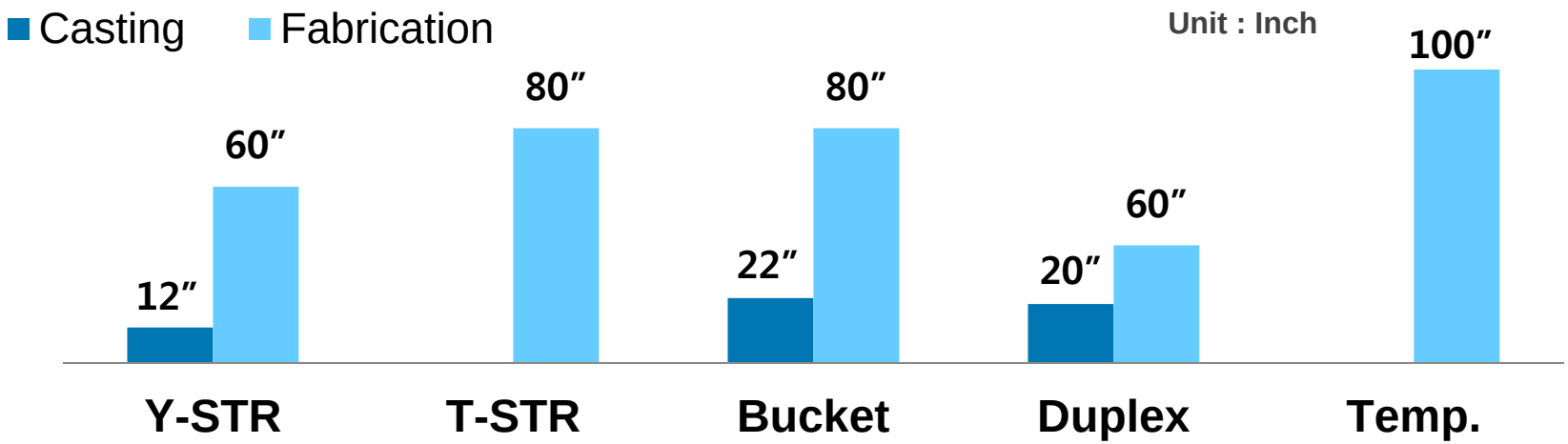
6 Products

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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6.2 Figuration

DUPLXE STRAINER (Febrication)

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6.2 Figuration

DUPLXE STRAINER (Casting)

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ
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6.2 Figuration

BUCKET STRAINER (Fabrication)

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ
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6.2 Figuration

BUCKET STRAINER (Fabrication)

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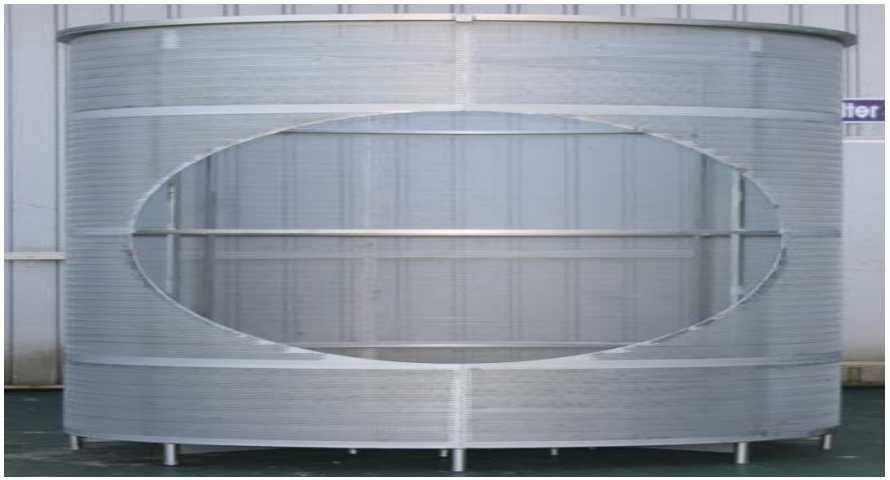
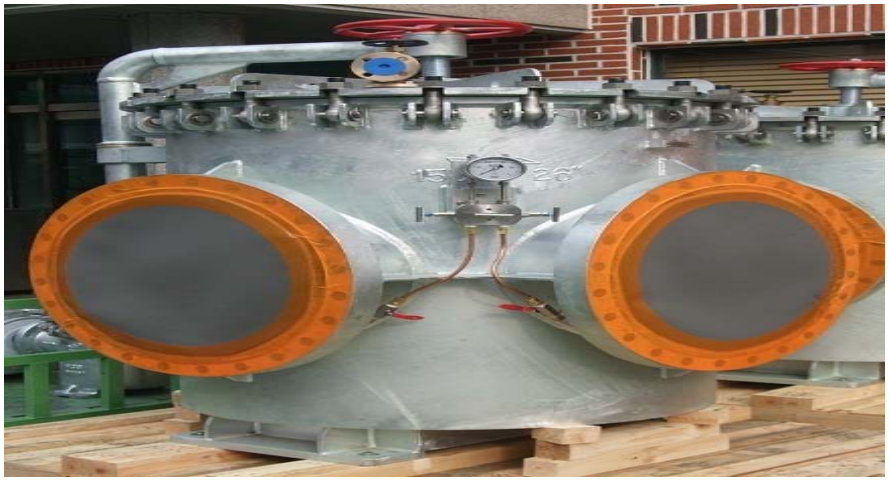
6.2 Figuration

BASKET STRAINER (Fabrication)





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6.2 Figuration

BUCKET STRAINER (Casting)

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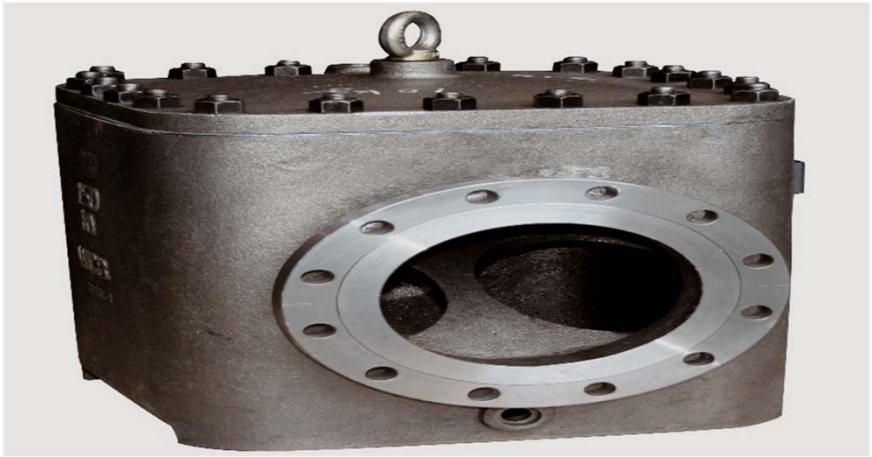
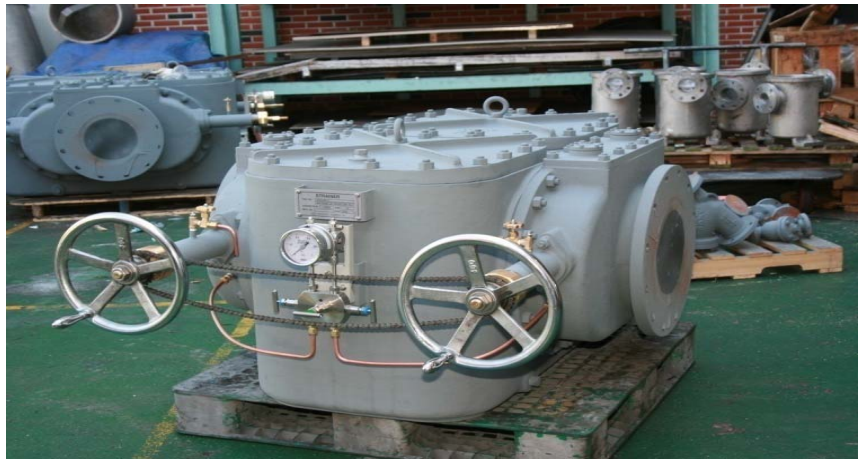
6.2 Figuration

MULTY TYPE STRAINER (Casting)





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6.2 Figuration

TEE STRAINER (Fabrication)

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6.2 Figuration

TEE STRAINER (Fabrication)

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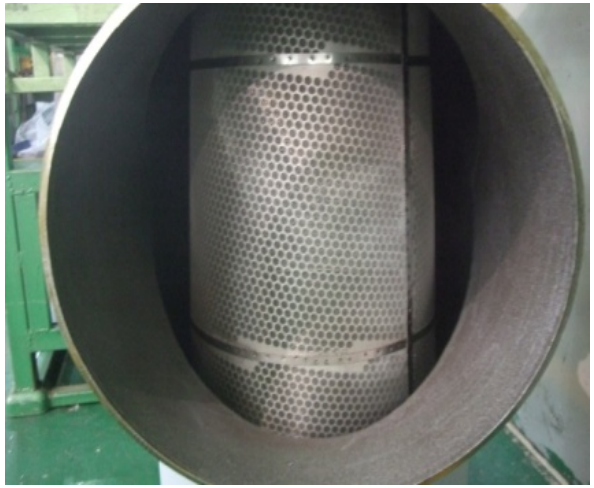
6.2 Figuration

TEE STRAINER (Fabrication)



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6.2 Figuration

TEE STRAINER (Fabrication)

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6.2 Figuration

Y STRAINER (Fabrication)

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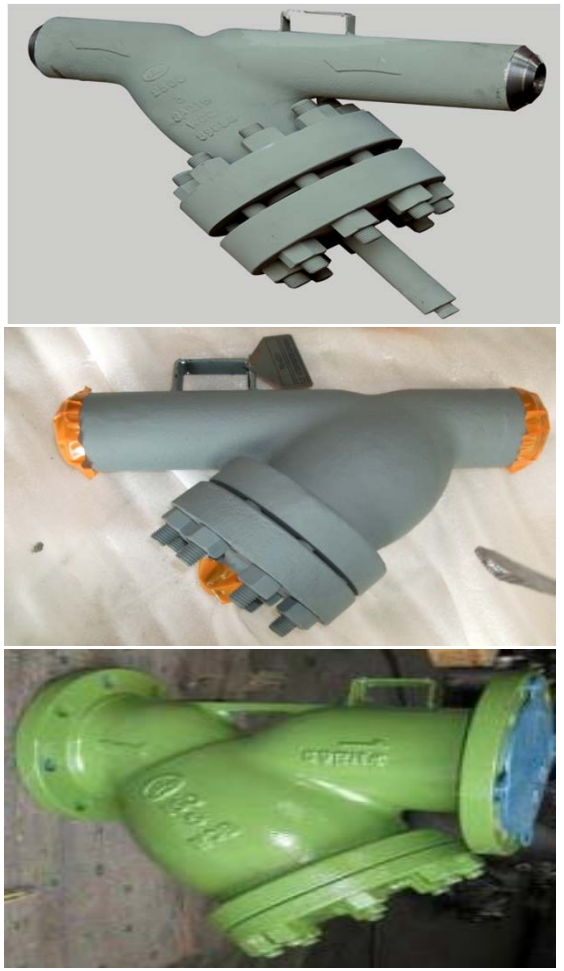
6.2 Figuration

Y STRAINER (Casting)



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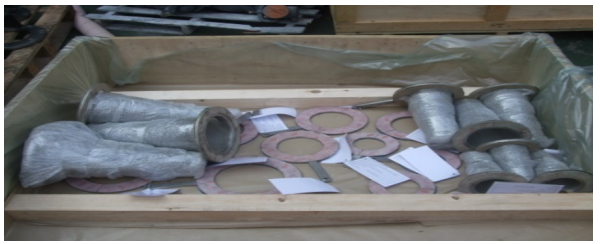
6.2 Figuration

CONE STRAINER



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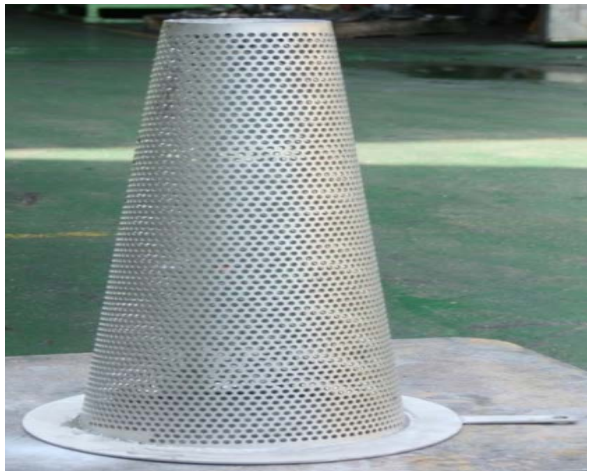
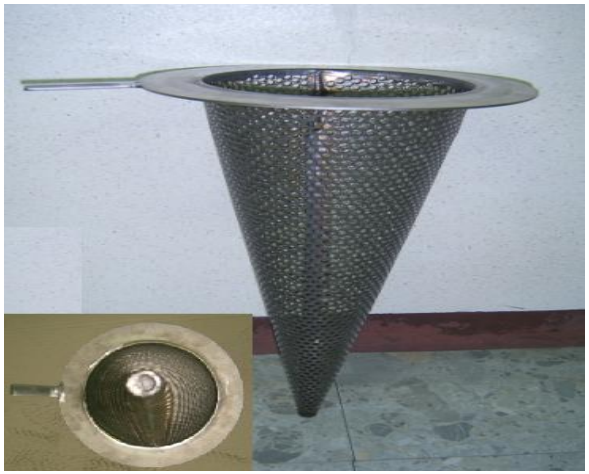
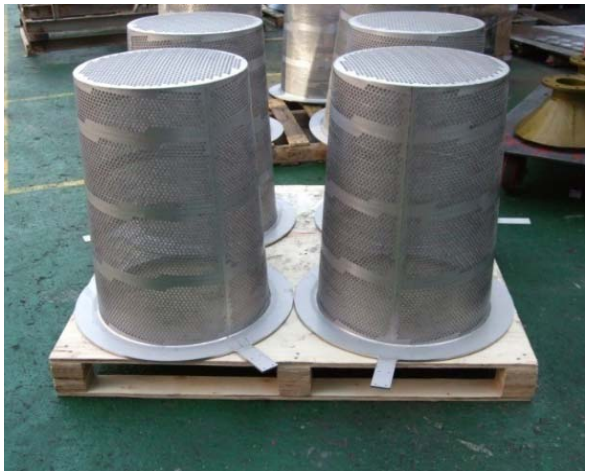
6.2 Figuration

MESH AND FILTER

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6.2 Figuration

CUSTOMISED FILTER

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2017

Inspection & test

07

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ
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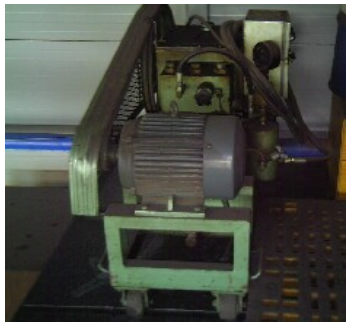
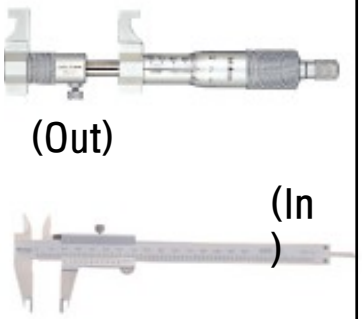
7 Inspection & Test

7.1 Test Equipment

				
Hydro Testing M/C	Dial Thickness gauge	PMI Analyzer	Multi Test	Graduator
				
Paint Thickness Gauge	Vernier Callipess	Micro Meter	Leeb Hardness Tester	Height gauge

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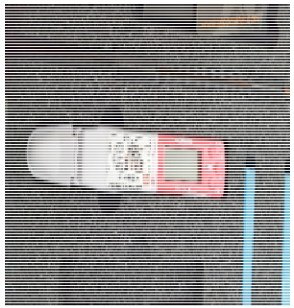
7 Inspection & Test

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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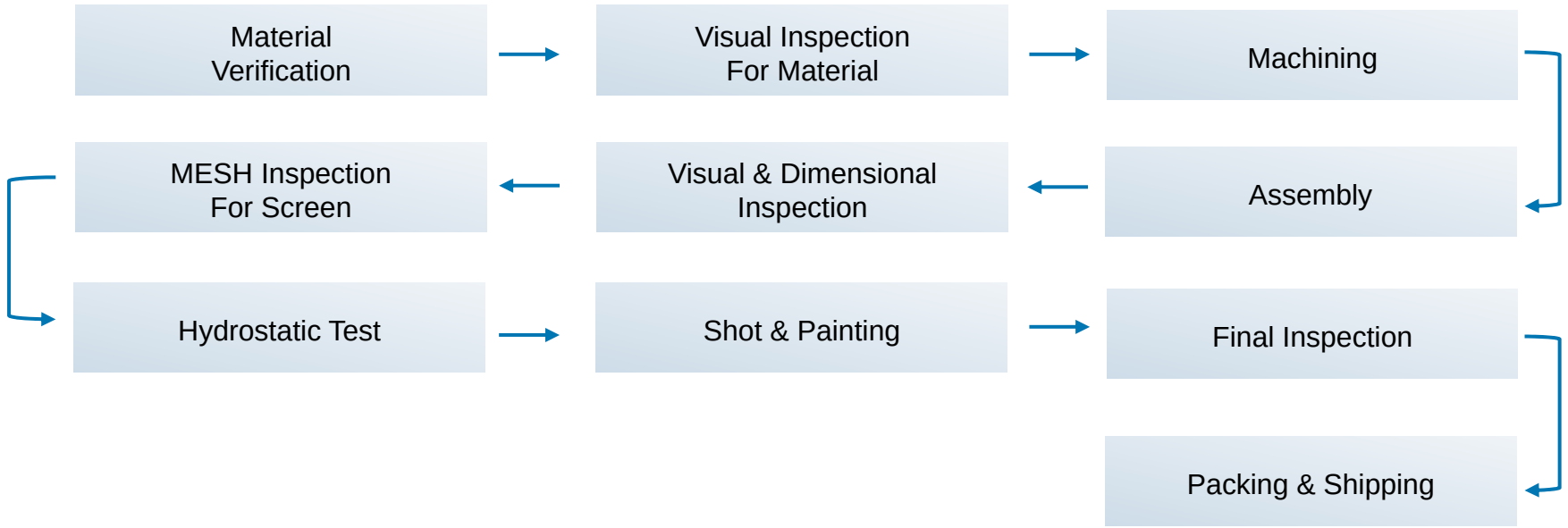
7.2 Inspection & Test Plan

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

1. Revision State

REV NO.	CONTENTS
0	First Issued (2011. ○○. ○○)

2. Sequence Of Manufacture



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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 : Manufactrure's inspection R : Report review SW : Spot witness W : Witness point H : Hold point

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Welding/NDE/ Painting Procedure

08

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ
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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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8.2 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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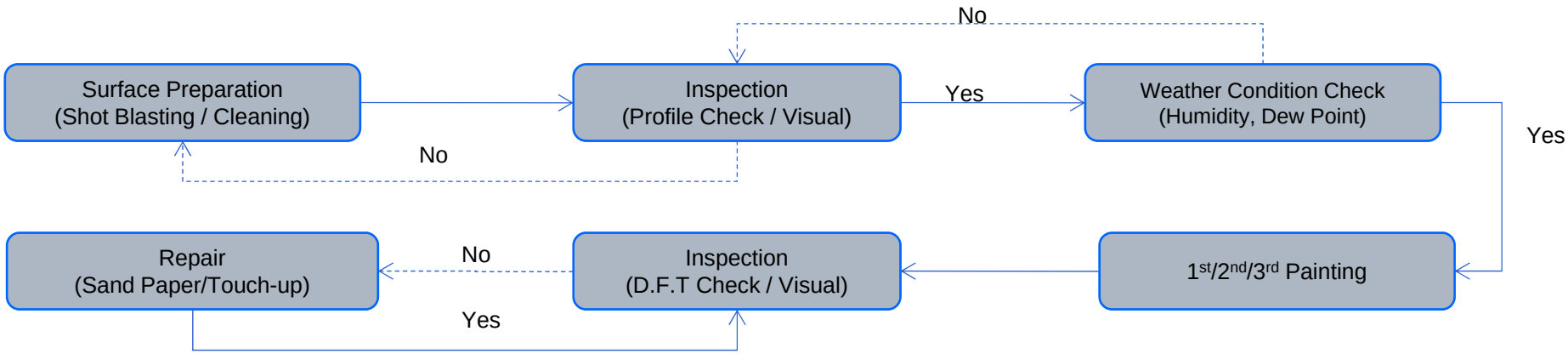
8.3 Painting Procedure & Facilities

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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Production Process

09

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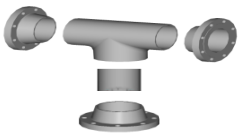
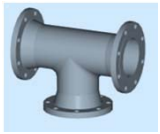
9 Production Process

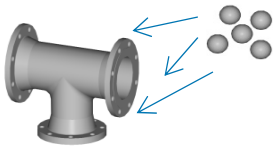
9.1 “T” Strainer(Straight Flow)

☞ Housing

Raw Material	Welding (Housing)	Welding (Screen Guide)	Hydro Test PWHT(if any)	RT(if any)	Shot Blast

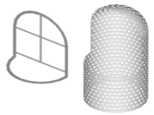
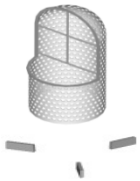






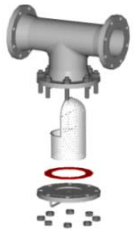
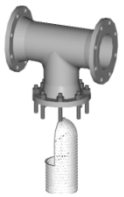
☞ Screen

Plate Cutting	Punching	Rolling	Welding (Screen)	Welding (Screen Guide+reinforcement)	CHEMICAL CLEANING	Mesh Fabrication

☞ Housing + Screen

Shipment	Transportation	Packing	Paint	Hydro Test (if any)	Assembly (Gasket+Bolting)	Assembly (Housing+Screen)

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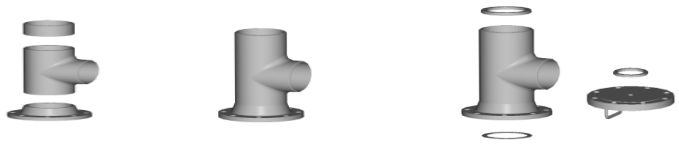
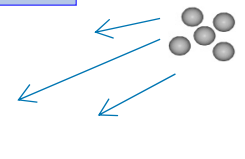
9 Production Process

9.2 “T” Strainer(Angle Flow)

☞ Housing

Raw Material	Welding (Housing)	Welding (Screen Guide)	Hydro Test PWHT(if any)	RT(if any)	Shot Blast





☞ Screen

Plate Cutting	Punching	Rolling	Welding (Screen)	Welding (Screen Guide+reinforcement)	CHEMICAL CLEANING(산세)	Mesh Fabrication

☞ Housing + Screen

Shipment	Transportation	Packing	Paint	Hydro Test (if any)	Assembly (Gasket+Bolting)	Assembly (Housing+Screen)

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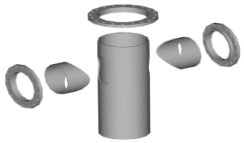
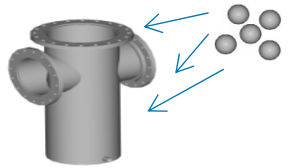
9 Production Process

9.3 “Bucket” (Fabrication type)

☞ Housing

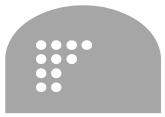
Raw Material → Welding (Housing) → Welding (Screen Guide) → Hydro Test PWHT(if any) → RT(if any) → Shot Blast

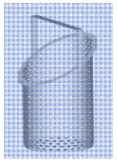




☞ Screen

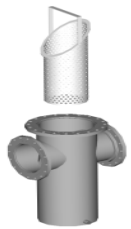
Plate Cutting → Punching → Rolling → Welding (Screen) → Welding (Screen Guide+reinforcement) → CHEMICAL CLEANING → Mesh Fabrication





☞ Housing + Screen

Shipment → Transportation → Packing → Paint → Assembly (Gasket+Bolting) → Assembly (Housing+Screen)



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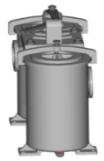
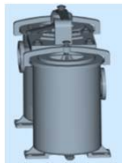
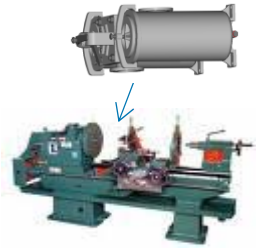
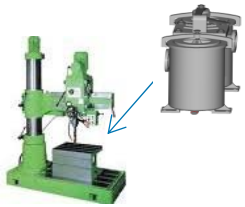
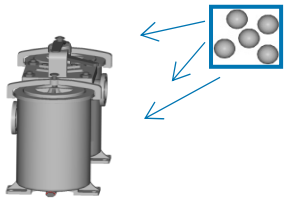
9.4 “Duplex” (Casting type)

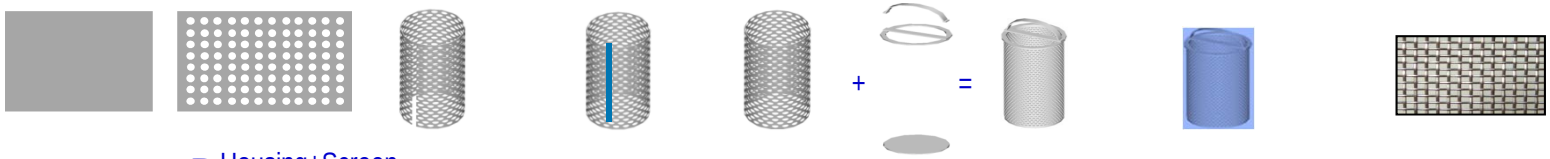
☞ Housing

Mold → casting → Heat treatment (if any) → Processing (lathe) → Processing (drilling) → Hydro Test → Thinner Cleaning or Shot Blast

☞ Screen

Plate Cutting → Punching → Rolling → Welding (Screen) → Welding (Screen Guide+reinforcement) → Chemical Cleaning → Mesh Fabrication (if any)



☞ Housing+Screen

Shipment → Transportation → Packing → Paint (if any) → Assembly (Housing+Screen)

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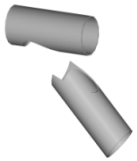
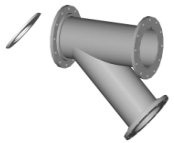
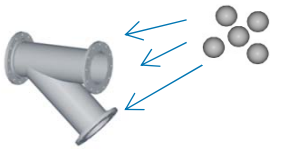
9.5 “Y” Strainer (Fabrication type)

☞ Housing

Raw Material	cutting	Welding (Housing)	Welding (Screen Guide)	Hydro Test PWHT(if any)	RT(if any)	Shot Blast

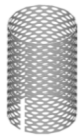
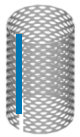
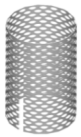
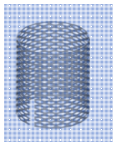






☞ Screen

Plate Cutting	Punching	Rolling	Welding (Screen)	Welding (Screen Guide+reinforcement)	CHEMICAL CLEANING	Mesh Fabrication

☞ Housing + Screen

Shipment	Transportation	Packing	Paint	Hydro Test (if any)	Assembly (Gasket+Bolting)	Assembly (Housing+Screen)

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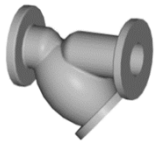
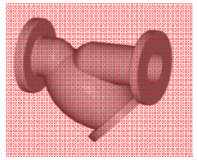
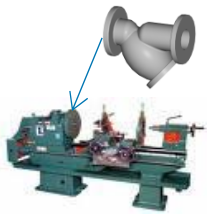
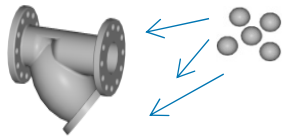
9.6 “Y” Strainer (Casting type)

☞ Housing

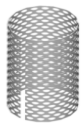
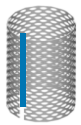
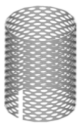
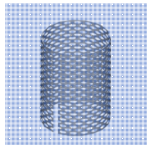
Mold → Casting → Heat Treatment (if any) → Processing (lathe) → Processing (drilling) → Hydro Test Thinner or Shot Blast



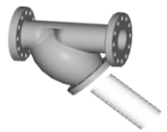
☞ Screen

Plate Cutting → Punching → Rolling → Welding (Screen) → Welding (Screen Guide+reinforcement) → CHEMICAL CLEANING → Mesh Fabrication

☞ Housing + Screen

Shipment → Transportation → Packing → Paint(if any) → Assembly (Gasket+Bolting) → Assembly (Housing+Screen)



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9 Production Process

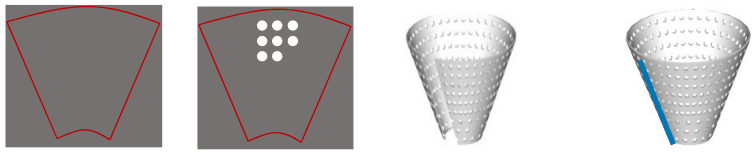
9.6 “Conical” type

☞ Spacer Ring

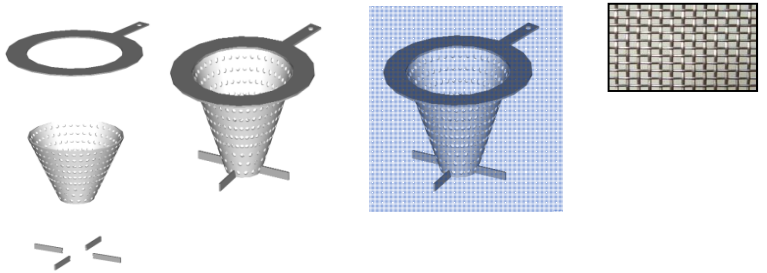
Raw Material → Cutting

☞ Screen

Plate Cutting → Punching → Rolling → Welding (Screen)



Welding (Spacer Ring +Reinforcement) → CHEMICAL CLEANING → Mesh Fabrication



☞ Housing + Screen

Shipment ← Transportation ← Packing

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