



WOOSUNG FLOWTEC



THE STRAINER SPECIALTY COMPANY

PRE-QUALIFICATION

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1. COMPANY PROFILE

1.1 Greeting in Brief

1.2 History in Brief

1.3 Annual Turnover and Sales

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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.



CEO Yeongje Cho

“Best quality, Reasonable price, On time delivery”

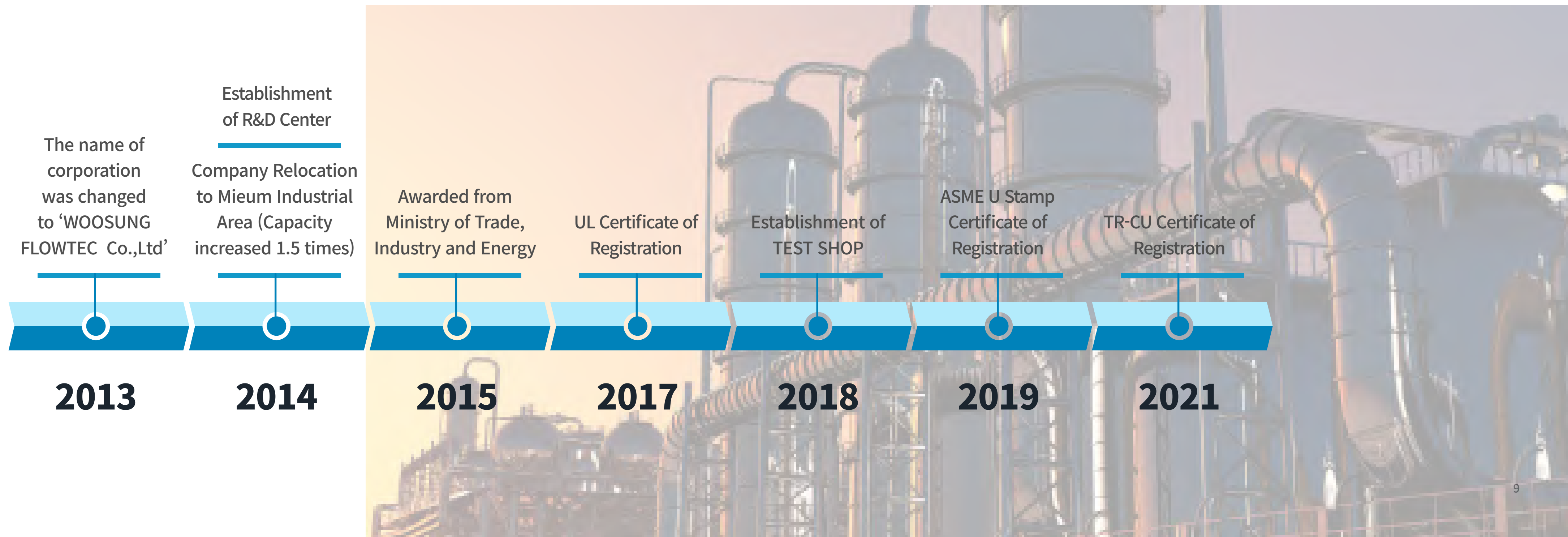
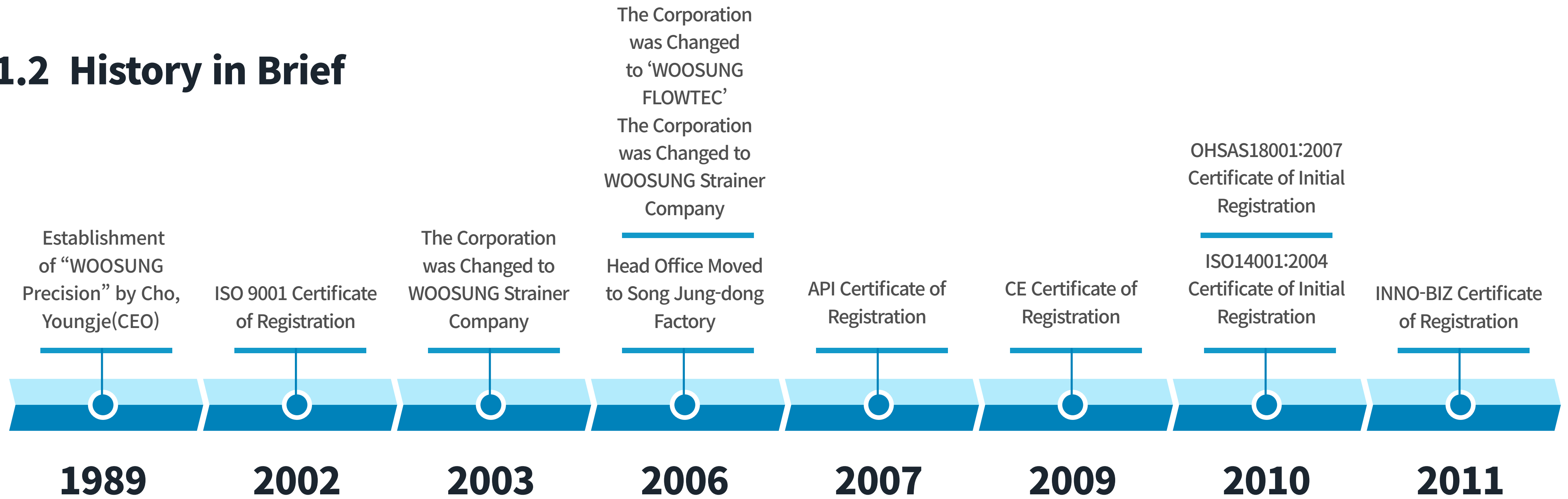


Head office & 1st Factory View



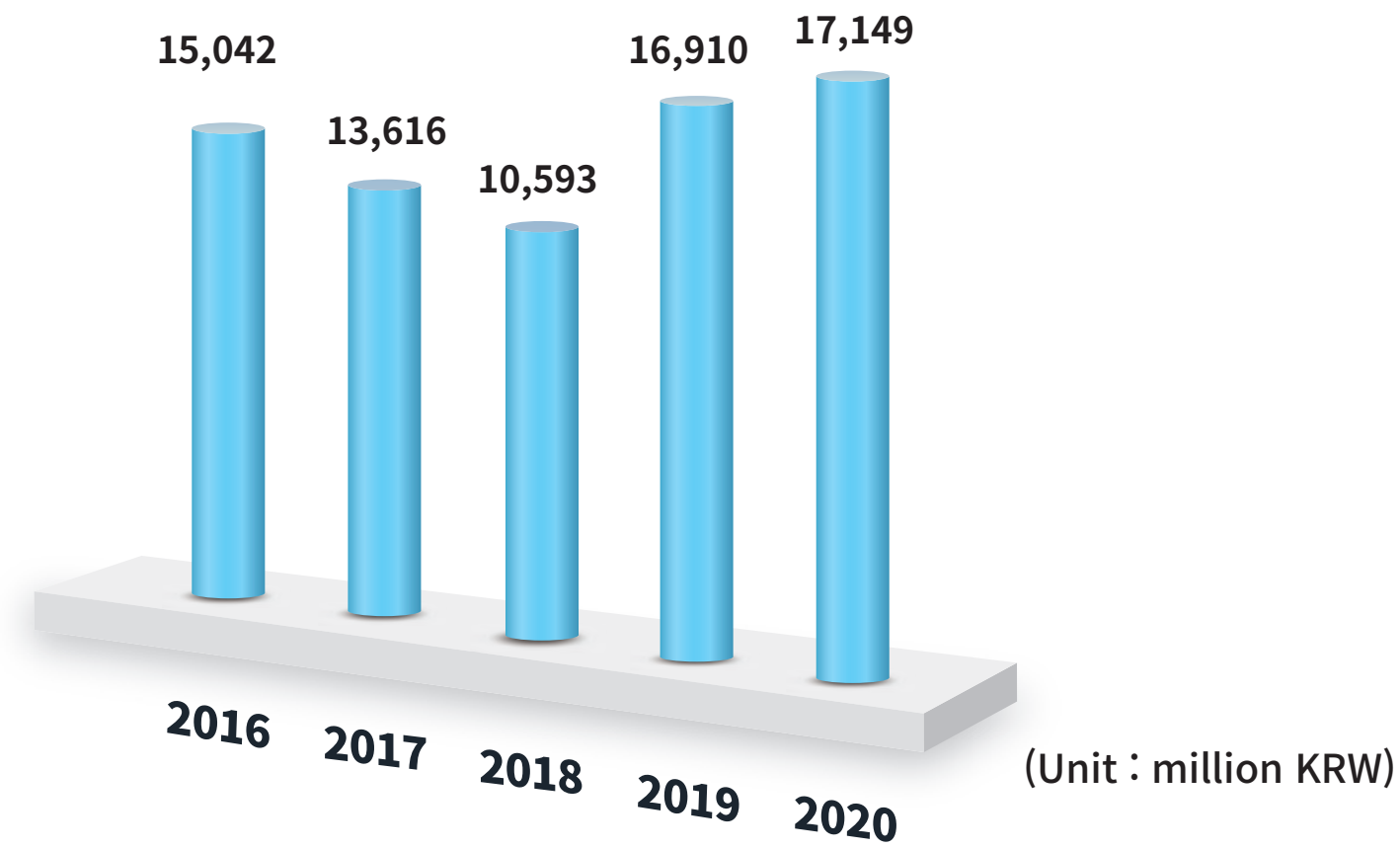
2nd Factory View

1.2 History in Brief

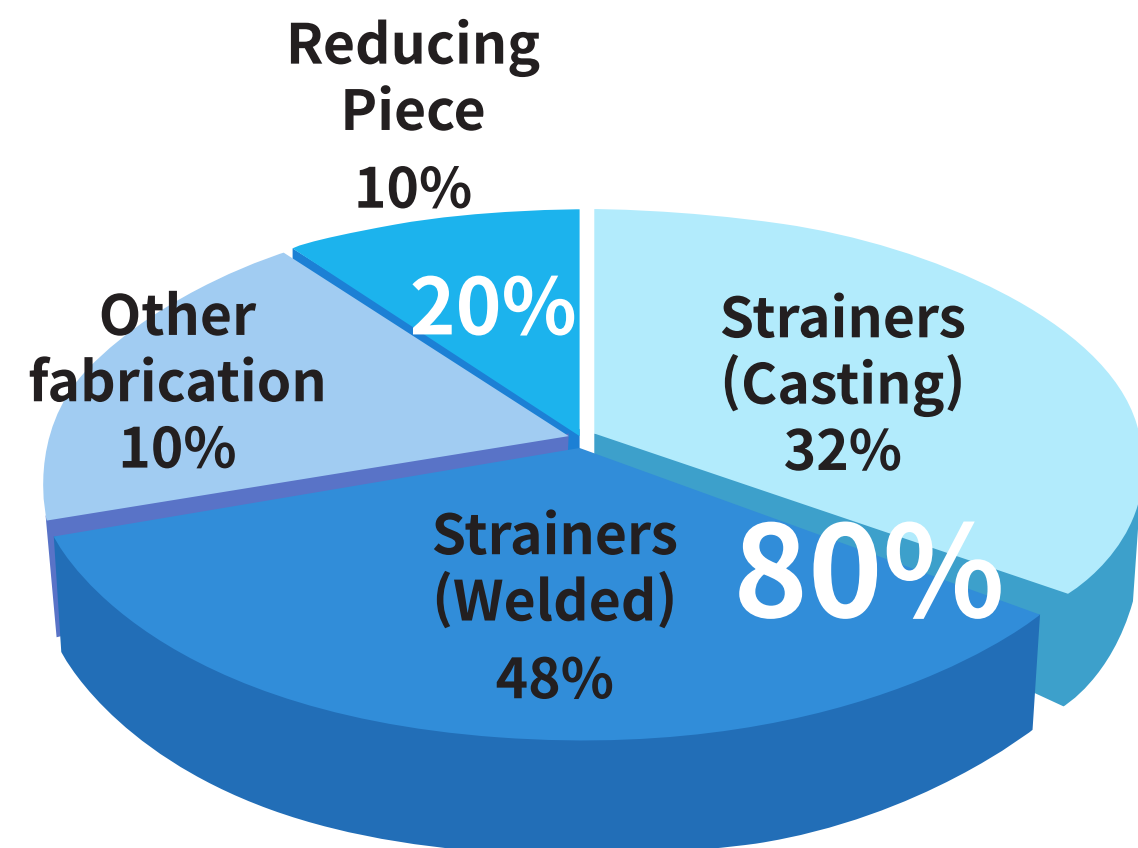


1.3 Annual Turnover and Sales

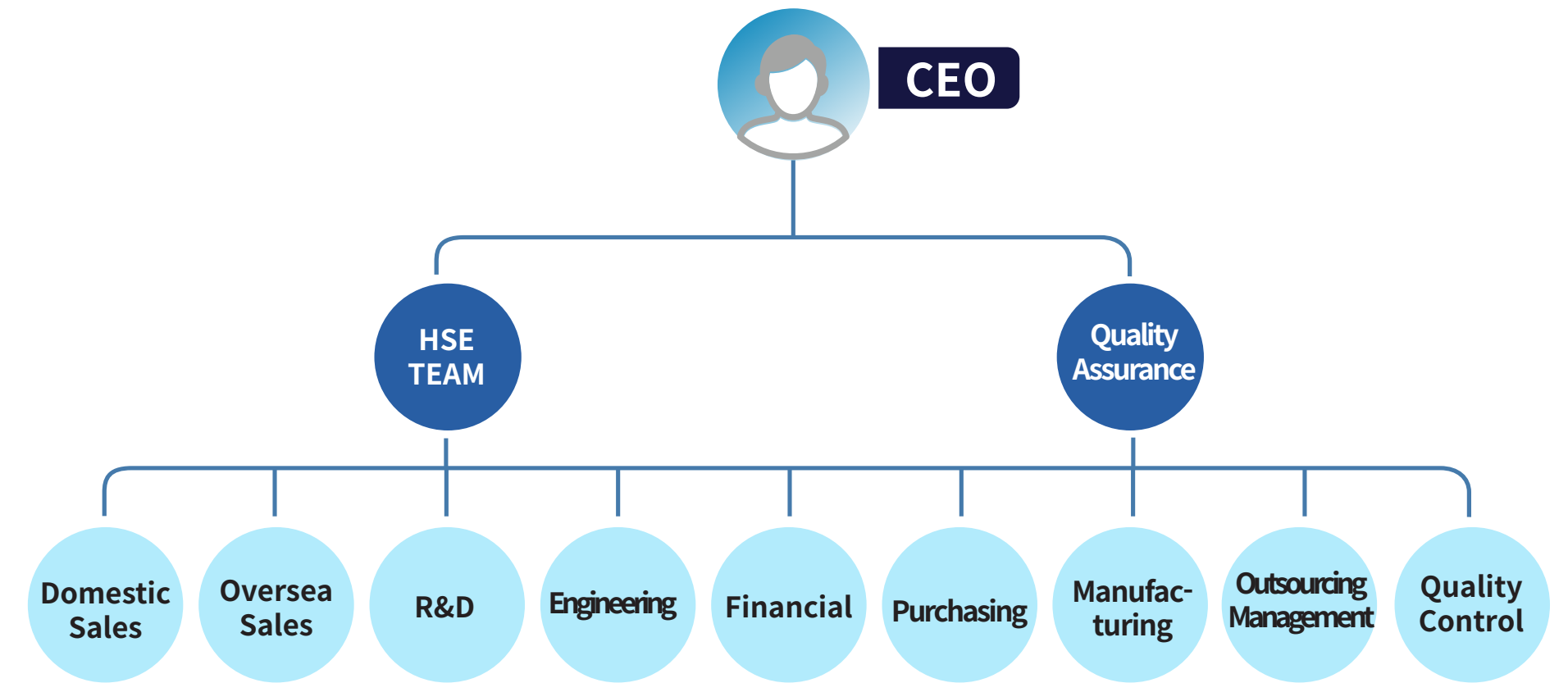
Annual Turnover



Annual Sales Ratio





1.4 Organization Chart



1.5 OVERSEAS NETWORK



| | | | | | |
|---|--------------------------|---|---------------------------|---|------------------------|
|  | YONEDA(Japan) |  | HSD(China-Dalian) |  | FASTLINE(Oman) |
|  | HANKOOK ENG(Singapore) |  | CM Marine(China-Shenzhen) |  | ALMADAR(Bahrain) |
|  | Next Petroleum(Malaysia) |  | DAFF(Abu Dhabi) |  | UNITED ENG(Kuwait) |
|  | HYPRECISION(India) |  | DUTCO(UAE) |  | Hosanna (Nigeria) |
|  | ATTATECH(Thailand) |  | AWJ (Saudi Arabia) |  | CORPEQ(Mexico) |
|  | NSIC(Vietnam) |  | TI SYSTEMS(Russia) |  | Renaissance T&C(Qatar) |
|  | CUNADO(Spain) |  | IOS(Egypt) | | |

2. FACTORY INFORMATION

2.1 HSE of Factory

2.2 Introduction

2.3 Find US and Contact US

2.4 List of Machine and Equipment

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 laid, main strainer and pressure vessels, the production process, paint coating and process in all production.

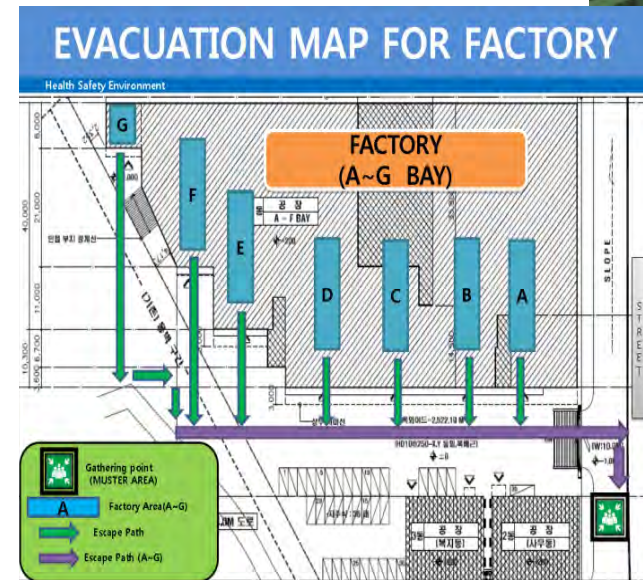
We also try to improve work condition by establishing measures of reducing risk by monitoring and grasp the utility factor of management, in order that it doesn't happen matters of the worker's safety and preservation of health, and continue to improve environment aspects as establish measures of major 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 FLOWTEC
The President of Company
CHO YOUNG JI



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)



2.2 Introduction

Company Address

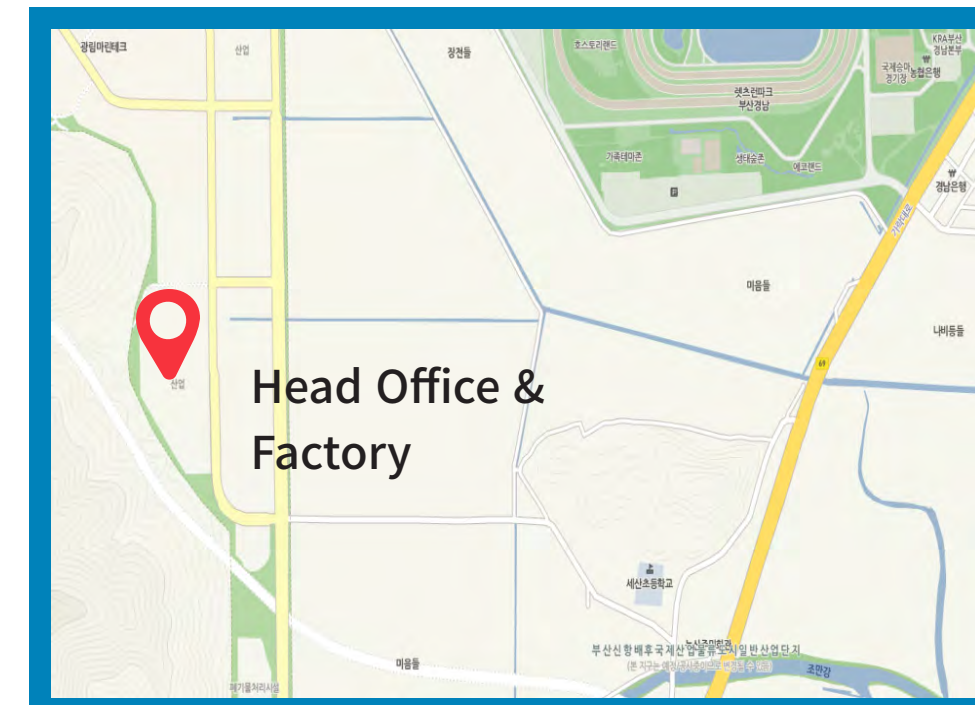
| Company Name | WOOSUNG FLOWTEC Co.,Ltd | Owned by | Young-je Cho |
|--------------|---------------------------|---|--------------|
| Address | Head Office & 1st Factory | 27, Mieum-sandan 3-ro, Gangseo-gu, Busan, Republic of Korea | |
| | | TEL : 82-51-831-1533 FAX : 82-51-831-1534 | |
| Address | 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 m ² | 5,736 m ² | 7,464 m ² | 2,585 m ² | Owner <input checked="" type="checkbox"/> Lease <input type="checkbox"/> |
| 2nd 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 | |

2.3 Find US and Contact US

Head Office (Busan Mieum)

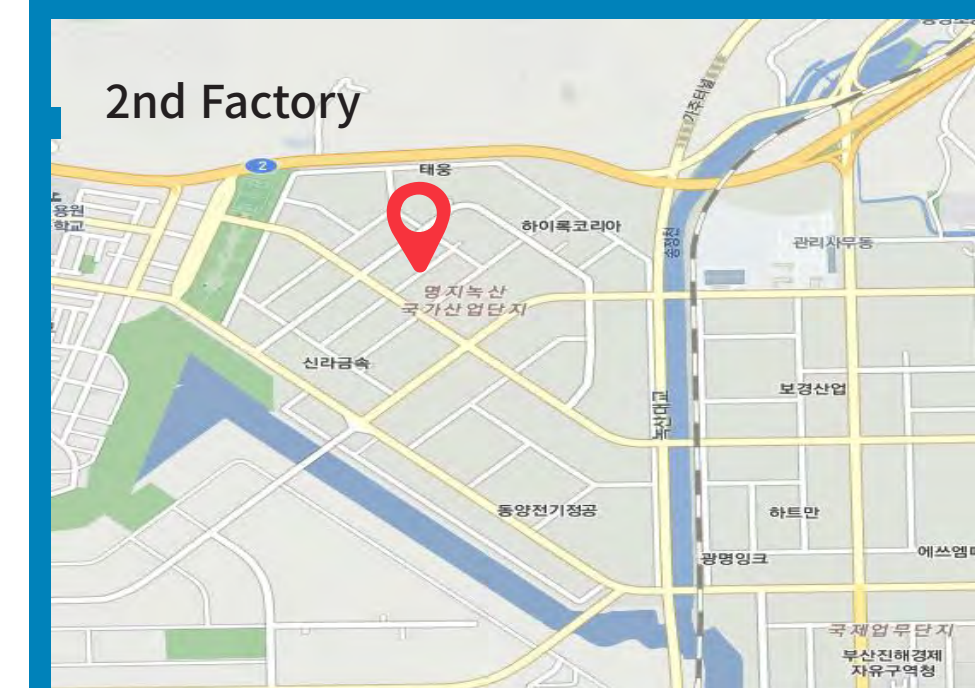


The Corporation was Changed to 'WOOSUNG FLOWTEC'
The Corporation was Changed to WOOSUNG Strainer Company

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

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 |
| 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 |
| 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 | 2 |
| 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 |

3. EXPERIENCE

Experience Of Domestic

Experience Of Overseas – END USER

Experience Of Overseas - EPC

3.1 Onshore

3.2 Offshore

3.3 Overseas



▪ Experience Of Domestic ▪



▪ Experience Of Overseas – END USER ▪



▪ Experience Of Overseas – END USER ▪



▪ Experience Of Overseas - EPC ▪





Onshore

3.1 Onshore

| Customer | End User | Project | Products | Q,ty | Date | Location |
|-------------------------------|---------------------------------------|--|--|-------|---------|---------------------|
| SAMSUNG SAUDI ARABIA (SSA) | ARAMCO | HUGRS | Y STR, TEE STR, BUCKET STR etc | 135EA | 2021.08 | Saudi Arabia |
| SAMSUNG ENGINEERING | LONGSON | LSP High density polyethylene (HDPE) | Y STR, TEE STR etc | 232EA | 2020.05 | Thailand |
| SAMSUNG ENGINEERING | LONGSON | LSP polypropylene (PP) | Y STR, TEE STR, BUCKET STR etc | 189EA | 2020.05 | Thailand |
| SAMSUNG ENGINEERING | ADNOC | ADNOC REFINING Crude Flexibility Project(CFP) | Y & TEE & BUCKET STRAINER (UL:5EA, 44EA) | 461EA | 2019.09 | U.A.E |
| SAMSUNG ENGINEERING | ADNOC | ADNOC REFINING Waste Heat Recovery Project(WHRP) | Y & TEE STRAINER (UL:2EA, 8EA) | 38EA | 2019.11 | U.A.E |
| SAMSUNG ENGINEERING | PTTGC | Olefins Reconfiguration Project(ORP) | Dummy Spool | 819EA | 2019.06 | Thailand |
| SAMSUNG ENGINEERING (THAIAND) | PTTGC | On-Purposed Teg Project | Y & TEE STRAINER | 8EA | 2019.04 | Thailand |
| SAMSUNG ENGINEERING (THAIAND) | 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 | 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 |
| 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 | CHIYODA | PACKAGE4(COKER UNIT)FOR JUBAIL | T-TYPE STRAINER | 500EA | 2011.02 | Saudi Arabia |
| SK Engineering & Construction | SK Energy | S-PJT(VRDS) 2nd | TEE STRAINER | 12EA | 2019.07 | Korea |
| SK Engineering & Construction | SK IPC | Bio energy | 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 |

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 EXPANSION | 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 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 Ulsan BALL TANK | 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) Add | 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 |
| 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 | Process development | 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 (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 | Hyundai Chemical | HPC PCK-3 | TEE STR, Y STR, TEMPORARY STR | 92EA | 2020.12 | Korea |
| DAELIM INDUSTRIAL | PETROCHEMICAL DIVISION OF DAELIM | EPO PJT(2nd) | TEE STR | 3EA | 2019.06 | Korea |
| DAELIM INDUSTRIAL | PETROCHEMICAL DIVISION OF DAELIM | 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 |

3.1 Onshore

| 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) | RUWAI'S 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_1st | Y STR, TEE STR, BUCKET STR | 95EA | 2017.10 | Korea |
| GS E&C Corporation | KOREA PETROCHEMICAL IND. CO., LTD. | KPIC ONE PJT_2nd | Y STR, TEE STR | 29EA | 2017.10 | Korea |
| GS E&C Corporation | KOREA PETROCHEMICAL IND. CO., LTD. | KPIC ONE PJT_3rd | Y STR, TEE STR | 6EA | 2017.10 | Korea |
| GS E&C Corporation | KOREA PETROCHEMICAL IND. CO., LTD. | KPIC ONE PJT for NET System_1st | 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 |
| 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 | JUJEL 1600MW CCPP | FILTER FOR T-STRAINER 20" | 16EA | 2019.04 | Algeria |
| Hyundai Engineering Co., Ltd | PETRONAS | MELAKA | BUCKET STR. 24" etc | 128EA | 2018.09 | Malaysia |
| Hyundai Engineering Co., Ltd | P.T.Asahimas Chemical | ACS PHASE-VI | Cone Strainer | 8EA | 2018.06 | Indonesia |
| Hyundai Engineering Co., Ltd | PT. PLN(PERSERO) | KALSELTENG 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 |

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 | Hyundai Chemical | HPC PCK-1 | TEE STR, Y STR, TEMPORARY STR | 522EA | 2020.11 | Korea |
| 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 Internationl 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 | ADWEA & GDF | MIRFA | STRAINER 38" etc | 94EA | 2016.01 | U.A.E |
| Hyundai Engineering & Construction | Mirfa Internationl 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 CAPP (Mostaghanem Project) | BUCKET, DUPLEX, Y STR etc | 66EA | 2018.1 | Algeria |
| 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 CAPP (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 | AOI | 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 | Hyundai Chemical | HPC PCK-2 | TEE STR, Y STR, TEMPORARY STR | 389EA | 2020.08 | Korea |
| LOTTE E&C | LOTTE BP CHEMICAL CO.,LTD | A-PROJECT | TEE & Y, TEMPORARY STR | 15EA | 2019.02 | Korea |

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| Customer | End User | Project | Products | Q,ty | Date | Location |
|--|---|--|--|-------|---------|-----------|
| LOTTE E&C | PT. PERUSAHAAN LISTRIK NEGARA (PERSERO) | GRATI CAPP PJT | BUCKET STR 20" etc DUPLEX STR 12", Y STR 4" | 21EA | 2017.07 | Indonesia |
| 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 |
| 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 |
| 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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| Customer | End User | Project | Products | Q,ty | Date | Location |
|--|---|--|-------------------------------------|------|---------|--------------|
| 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 |
| 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# 12" | 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 |

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. | | QATALUM PJT | BUCKET STRAINER 18" etc | 18EA | 2011.11 | Qatar |
| 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 | IPP | FUJAIH 3 CEP | BUCKET STRAINER 20" etc | 5EA | 2021.04 | UAE |
| Hyundai Heavy Industries Turbomachinery | IRT | JAWA9&10 CEP | BUCKET STR. 14" | 2EA | 2019.03 | Indonesia |
| Hyundai Heavy Industries Turbomachinery | CGN DAESAN | Daesan Biomass | BUCKET STR. 8" | 3EA | 2018.11 | Korea |
| 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 | 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 UNIT | Y-STRAINER 2" etc | 3EA | 2017.07 | U.S.A. |

3.1 Onshore

| 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 |
| 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 | 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 CCPP/CEP | BUCKET STRAINER 8" | 6EA | 2017.05 | Korea |
| HyoSung GoodSprings | KOMIPO (KOREA MIDLAND POWER CO., LTD.) | GE/JEJU CCPP/BFP | BUCKET STRAINER 6" | 6EA | 2017.04 | Korea |

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| Customer | End User | Project | Products | Q,ty | Date | Location |
|---------------------|---|---|--------------------------------------|------|---------|--------------|
| 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 | 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 | WEST DAMIETTA | DUPLEX-TYPE STR 8" | 12EA | 2016.07 | Egypt |
| HyoSung GoodSprings | EEHC | 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 | JUJEL 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 |
| HyoSung GoodSprings | KOMIPO (KOREA MIDLAND POWER CO., LTD.) | Doosan/Seoul Power | BUCKET STRAINER 12" | 4EA | 2016.03 | Korea |
| HyoSung GoodSprings | EVN | 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 CCPP | BUCKET STRAINER 18" | 4EA | 2015.09 | Korea |
| HyoSung GoodSprings | Pocheon Power | DAEWOO E&C /Pocheon CCPP | 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 |

3.1 Onshore

| Customer | End User | Project | Products | Q,ty | Date | Location |
|-------------------------------|--|---|-------------------------|------|---------|--------------|
| 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 |
| 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 |
| SHIN SHIN MACHINERY CO., LTD. | KOMIPO (KOREA MIDLAND POWER CO., LTD.) | GE/JEJU LNG C&P CWP EC22 | Y-STRAINER 16" | 4EA | 2017.04 | Korea |

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 | Korea |
| E-TEC E&C Limited | Gunjang energy Co.,Ltd | LP PJT | BUCKET STRAINER 8" | 2EA | 2016.11 | Korea |
| HOSAN | Hyundai Heavy Industries | UAE BNPP 3&4 | DUPLEX STR 150# 1 1/2" | 6EA | 2015.02 | U.A.E |
| HOSAN | Hyundai Heavy Industries | AMOS & ANAA BFP | DUPLEX STR 150# 1 1/2" | 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 1/2" | 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 1/2" | 6EA | 2014.08 | Iraq |
| HOSAN | Hyundai Heavy Industries | BUK-PYEONG THERMAL P/P 1&2 | Multi type duplex 24", 20" | 5EA | 2014.05 | Korea |





Offshore

3.2 Offshore

| Customer | End User | Project | Products | Q,ty | Date |
|--|-------------------------|-----------------------------|---------------------------------|-------|---------|
| 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 |
| 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 | Reliance | KG D6 Ruby FPSO(HULL) | STRAINER etc | 35EA | 2020.08 |
| Samsung Heavy Industries | Reliance | KG D6 Ruby FPSO(TOP) | STRAINER etc | 25EA | 2020.12 |
| 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(FLNG) | 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 |

3.2 Offshore

| Customer | End User | Project | Products | Q,ty | Date |
|--------------------------|--------------------------------|------------------|---------------------------------|-------|---------|
| 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 | 2013.01 |
| 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 |
| 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 |

3.2 Offshore

| Customer | End User | Project | Products | Q,ty | Date |
|--------------------------------|------------------------------|-----------------------------------|----------------------------|------|---------|
| 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 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 STRAINER 150# 10" | 20EA | 2010.06 |
| 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 | OATARGAS | 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 |





Overseas

3.3 Overseas

| Customer | End User | Project | Products | Q,ty | Date | Location |
|--------------|---------------------|-----------------------------|------------------|-------|----------|--------------|
| TTS JV | BAPCO | BMP | STRAINER | 534EA | 2020.10 | Bahrain |
| TTS JV | BAPCO | BMP ADD | STRAINER | 328EA | 2020.11 | Bahrain |
| PSS JV | Thai Oil | Thai Oil CFP | STRAINER | 400EA | Ongoing | Thailand |
| PSS JV | Thai Oil | Thai Oil CFP ADD | STRAINER | 90EA | Ongoing | Thailand |
| TSHJ | KIPIC | AL-ZOUR #1 | STRAINER | 646EA | 2018.04 | Kuwait |
| CSTS | BP | TANGGUH ONSHORE | STRAINER | 127EA | 2018.02 | Indonesia |
| YONEDA(TOYO) | Irkutsk oil company | IPPET | STRAINER | 128EA | Ongoing | Russia |
| YONEDA(IKPT) | PLN | TIMOR | STRAINER | 31EA | Ongoing | Indonesia |
| YONEDA(JGC) | KURARAY | HARMONY | STRAINER | 486EA | 2020.08 | Thailand |
| YONEDA(JGC) | Chandra Asri | AA TANK | STRAINER | 5EA | 2020.10 | Indonesia |
| YONEDA(TOYO) | INDORAMA | IEFCL2 | STRAINER | 150EA | 2019.09 | Nigeria |
| YONEDA(TOYO) | SCG | MOCD2 | STRAINER | 104EA | 2019.12 | Thailand |
| YONEDA(TOYO) | SCG | MOCD2(2nd) | STRAINER | 15EA | 2020.01 | 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 |
| YONEDA(JGC) | Banagas | CGP3 (3 rd) | STRAINER | 187EA | 2018.04 | Bahrain |
| 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(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 |

3.3 Overseas

| Customer | End User | Project | Products | Q,ty | Date | Location |
|-----------------|-------------|-----------------------------|------------------|-------|---------|-------------|
| YONEDA(JGC) | SONATRACH | HMD (Hassi Messaoud) (2 nd) | STRAINER | 38EA | 2017.09 | Algeria |
| YONEDA(JGC) | BANAGAS | CGP3 (2 nd) | STRAINER | 27EA | 2017.08 | Bahrain |
| 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 |
| YONEDA(IKPT) | SRI | SRI U3 017/8A | STRAINER | 105EA | 2017.01 | Indonesia |
| YONEDA(JGC) | Banagas | CGP3 (1 st) | STRAINER | 108EA | 2017.01 | Bahrain |
| 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 |
| 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 |
| 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 |

3.3 Overseas

| Customer | End User | Project | Products | Q,ty | Date | Location |
|-------------------------|---------------|----------------------------|-----------------|--------|---------|-----------|
| 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 |
| 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 | FPSO LAMSON | STRAINER | 20EA | 2013.08 | Vietnam |
| TECHNIP FMC | SHELL | FLNG | STRAINER | 20EA | 2017.11 | Australia |
| 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 |

3.3 Overseas

| Customer | End User | Project | Products | Q,ty | Date | Location |
|--------------------------|--------------------------|---------------------------|-----------------|-------|----------|--------------|
| NEXT PETROLEUM | PETRONAS | HEC MDE5 | STRAINER | 128EA | 2019.03 | Malaysia |
| NEXT PETROLEUM | EXXON MOBIL | GUA PIPING | STRAINER | 2EA | 2019.05 | Malaysia |
| 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 | 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 |
| SSA | SECL SAUDI | TOCGC 2 | STRAINER | 2EA | 2015.10 | Saudi Arabia |
| SSA | SECL SAUDI | CO2 | STRAINER | 21EA | 2015.04 | Saudi Arabia |
| NSIC | PTSC | SHWE LIN PAN | STRAINER | 14EA | 2020.11 | Vietnam |
| NSIC(TTCL) | DENKO | DENKO THILAWA OIL STORAGE | STRAINER | 30EA | 2019.06 | Myanmar |
| NSIC | PNEC(Powerchina) | DUYEN HAI 3 | STRAINER | 57EA | 2017.12 | Vietnam |
| VELOCITY | | MTC1 WELLHEAD PLATFORM | STRAINER | 6EA | 2019.05 | Vietnam |
| VELOCITY | | SAO VANG PJT | STRAINER | 28EA | 2019.01 | Vietnam |
| VELOCITY | Vietsovetro | CA TAM | STRAINER | 15EA | 2018.04 | Singapore |
| PETROGAS PIPING | Salalah Methanol Company | SALALAH AMMONIA PJT | STRAINER | 31EA | 2019 | Oman |
| PT. Tracon Industri | PT. REKAYASA | MUARA LABOH | STRAINER | 25EA | 2019.03 | Indonesia |
| 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 | Belgium |

3.3 Overseas

| Customer | End User | Project | Products | Q,ty | Date | Location |
|-------------------------|----------------|-----------------------------|----------|------|---------|------------|
| Hoang Linh Ind | PTSC | | STRAINER | 4EA | 2016.05 | Vietnam |
| EASTERN SEA COMPANY LTD | PTSC | LAMSON | STRAINER | 4EA | 2015.04 | Vietnam |
| SOT | EXXON MOBIL | NORTH GAS | STRAINER | 1EA | 2019.01 | Malaysia |
| SEPADU TECH | SAPUA ENERGY | PEGAGA(1) | STRAINER | 2EA | 2019.03 | Malaysia |
| Spirax Sarco | | CCGT POWER PLANT PJT | STRAINER | 5EA | 2019.10 | Taiwan |
| Spirax Sarco | | EURO-5 VERTICAL BUCKET | STRAINER | 30EA | 2019.12 | Taiwan |
| Cryogenmash | Uzbekistan Gas | UZGTL | STRAINER | 27EA | 2021.01 | Uzbekistan |
| Hongkong Bothwin Eng | BP | N999 | STRAINER | 14EA | 2021.07 | China |
| MCDERMOTT | QP | North Field Expansion(NFPS) | STRAINER | 31EA | 2021.06 | Qatar |
| SEAL CONTROL | WOOD | CRISP | STRAINER | 78EA | 2020.12 | Singapore |



4. CERTIFICATES

4.1 Company Certificates

4.2 Registration Status(END USER)

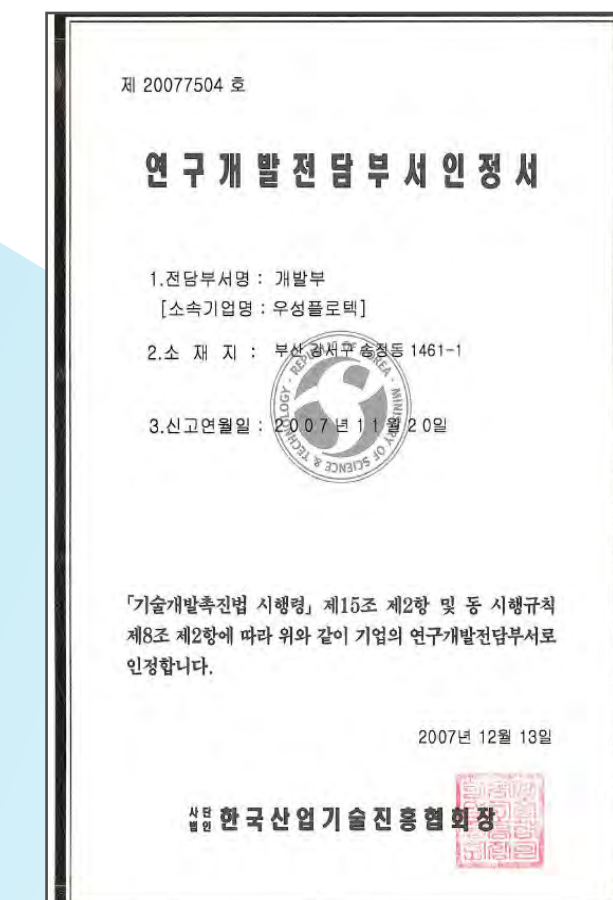
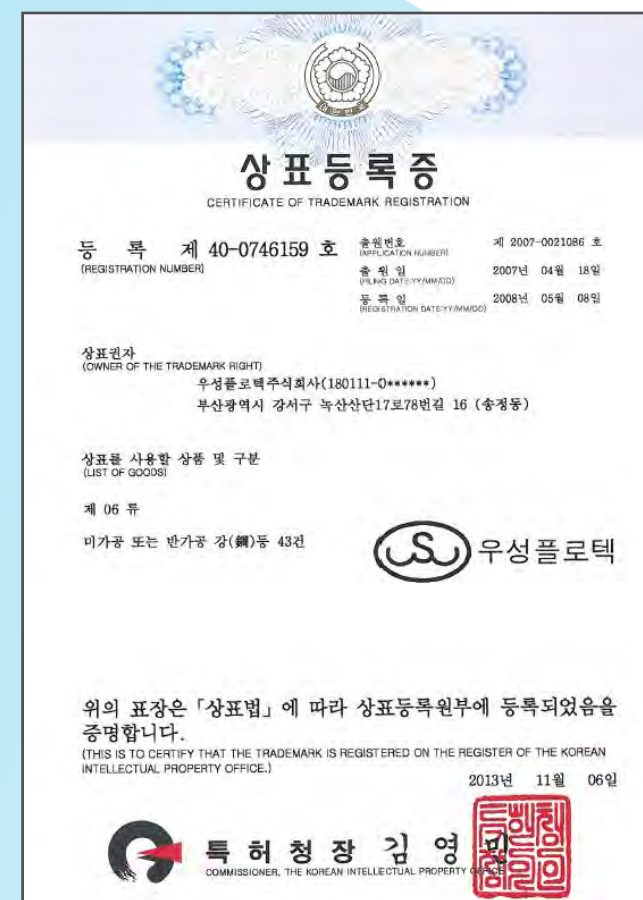
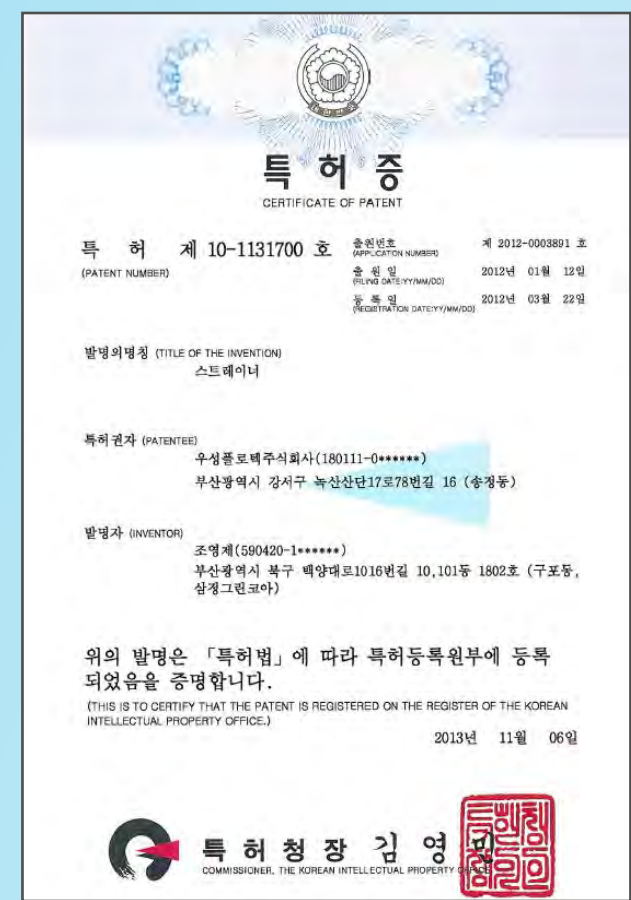
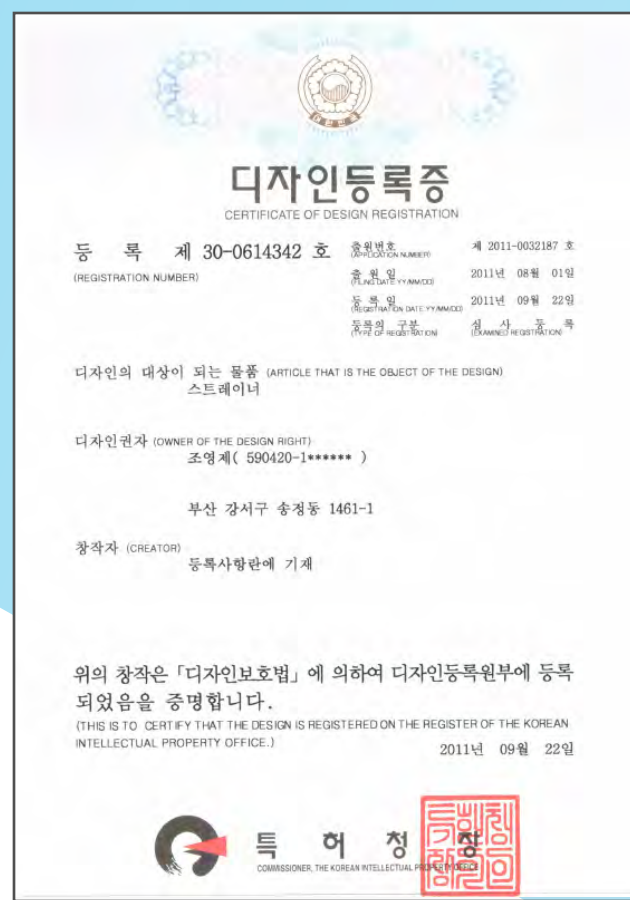
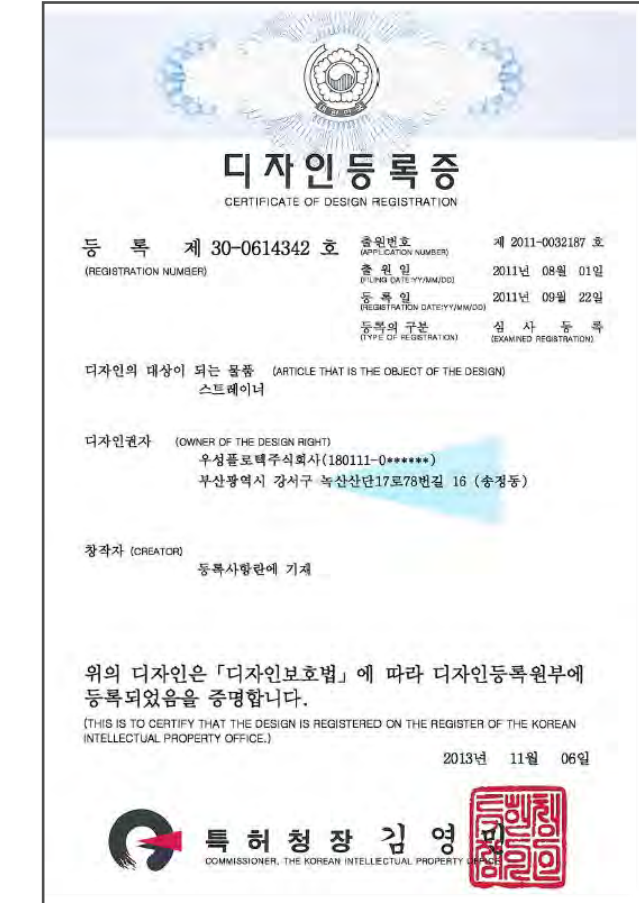
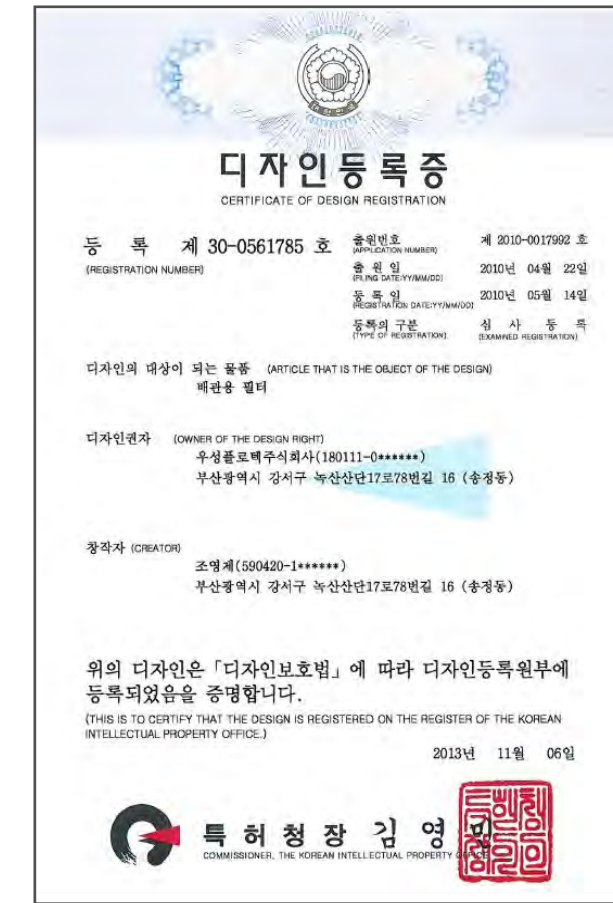
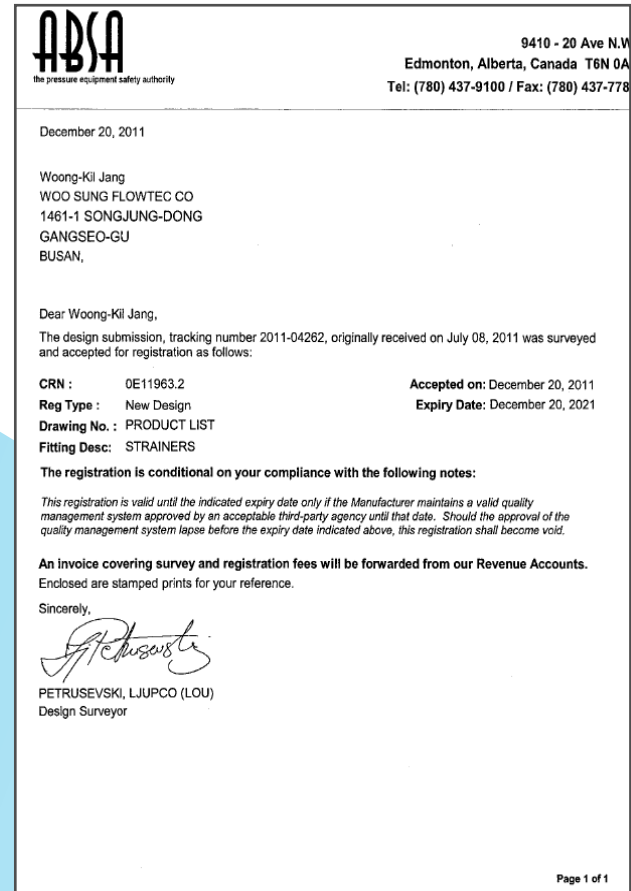


4.1 Company Certificates

| Certificate Name | Date | Remarks |
|--------------------------------------|-------------------------------|-------------------------|
| I S O 9001 : 2015 | Apr. 23. 2007 ~ Mar. 13. 2024 | 83Q19231 |
| I S O 14001 | Apr. 12. 2013 ~ Apr. 12. 2022 | SKE-10401 |
| OHSAS 18001 | Mar. 26. 2013 ~ Mar. 25. 2022 | SKO-10007 |
| EAC(TRCU 010/032) | Oct. 16. 2020 ~ Oct. 15. 2025 | B.96888/20 & B.95483/20 |
| CE PED Module H | Nov. 8. 2012 ~ | WFC-001-18-KOR |
| ASME U STAMP | Jun. 5. 2019 ~ Jun. 5. 2022 | 57419 |
| UL ONLINE CERTIFICATIONS DIRECTORY | Dec. 15. 2017 ~ | HLCV.EX27622 |
| UL Certificate Of Compliance | Dec. 15. 2017 ~ | 20171215-EX27622 |
| Achilles JQS | Mar. 29. 2019 ~ | 27727 |
| CRN (Canadian Registration Number) | Dec. 20. 2011 ~ | 0E11963.2 |
| NSF (National Sanitation Foundation) | Mar. 8. 2019 ~ | C0293340 - 01 |
| Certificate for Design of Filter | May. 22. 2010 ~ | 30-0561785 |
| Certificate for Design of Strainer | Sep. 22. 2011 ~ | 30-0614342 |
| Certificate for Design of VW Filter | Sep. 22. 2011 ~ | 30-0614342 |
| Patent for Strainer | Mar. 22. 2012 ~ | 10-1131700 |
| Brand Registration | May. 08. 2008 ~ | 40-0746159 |
| R & D Registration | Nov. 20. 2007 ~ | 20077504 |



4.1 Company Certificates



4.2 Registration Status(END USER)

| Name | Type of company | Item | Country | Status | Registration No. |
|-----------------|-----------------|----------|-------------|------------|------------------|
| KNPC | END USER | Strainer | Kuwait | Registered | 1003674 |
| PDO | END USER | Strainer | Oman | Registered | NR01000844-2018 |
| OXY | END USER | Strainer | Oman | Registered | - |
| ADNOC | END USER | Strainer | UAE | Registered | 200003892 |
| ADNOC JAPAN | END USER | Strainer | Japan | Registered | - |
| ARAMCO ASIA | END USER | Strainer | Japan | Registered | 10052938 |
| PERTONAS | END USER | Strainer | Malaysia | Registered | 525055-A |
| PEMEX | END USER | Strainer | Mexico | Registered | 217945 |
| Thai Oil | END USER | Strainer | Thailand | Registered | - |
| IRPC | END USER | Strainer | Thailand | Registered | - |
| PTT TANK | END USER | Strainer | Thailand | Registered | - |
| PTTGC | END USER | Strainer | Thailand | Registered | - |
| TAKREER | END USER | Strainer | UAE | Registered | 907972 |
| PTT LNG | END USER | Strainer | Thailand | Registered | - |
| PETRON | END USER | Strainer | Philippines | Registered | 707711 |
| MIPCO | END USER | Strainer | UAE(Mirfa) | Registered | |
| SONETRACH | END USER | Strainer | Algeria | Registered | |
| Qatar Gas | END USER | Strainer | Qatar | Registered | |
| Qatar Petroleum | END USER | Strainer | Qatar | Registered | |

4.2 Registration Status(In process)

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

4.2 Registration Status(EPCs)

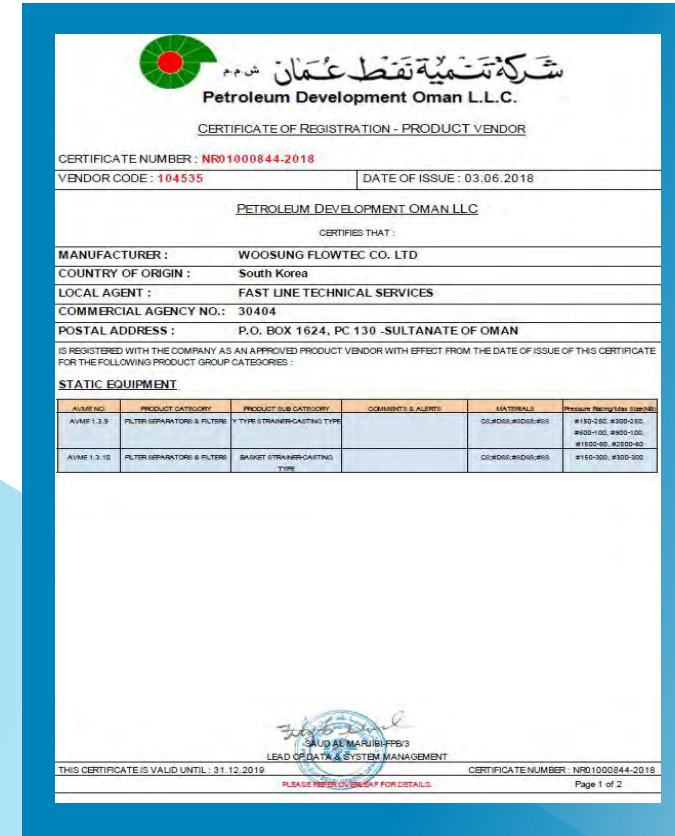
| Name | Type of company | Item | Country | Status | Registration No. |
|-------------------|-----------------|----------|------------|------------|------------------|
| CNPC | EPC | Strainer | China | Registered | - |
| CPECC | EPC | Strainer | China | Registered | - |
| TECHNIP | EPC | Strainer | France | Registered | 114073 |
| SAIPEM | EPC | Strainer | Italy | Registered | - |
| TOYO | EPC | Strainer | Japan | Registered | - |
| KOBE STEEL | EPC | Strainer | Japan | Registered | - |
| MHI | EPC | Strainer | Japan | Registered | - |
| MHPS | EPC | Strainer | Japan | Registered | - |
| JGC | EPC | Strainer | Japan | Registered | 125960 |
| CHIYODA | EPC | Strainer | Japan | Registered | - |
| SAPUA ENERGY | EPC | Strainer | Malaysia | Registered | - |
| MMHE | EPC | Strainer | Malaysia | Registered | - |
| Tecnicas Reunidas | EPC | Strainer | Spain | Registered | - |
| TTCL | EPC | Strainer | Thailand | Registered | - |
| BUNDUQ | EPC | Strainer | UAE | Registered | - |
| ADSSC | EPC | Strainer | UAE | Registered | - |
| PETROFAC | EPC | Strainer | UAE | Registered | - |
| NPCC | EPC | Strainer | UAE | Registered | - |
| Enter Engineering | EPC | Strainer | Uzbekistan | Registered | |
| Sinopec | EPC | Strainer | China | Registered | |
| McDermott | EPC | Strainer | USA | Registered | - |
| HAYA | EPC | Strainer | Oman | Registered | - |
| TERMOCHILCA | EPC | Strainer | Peru | Registered | - |

4.2 Registration Certificates

[KNPC]



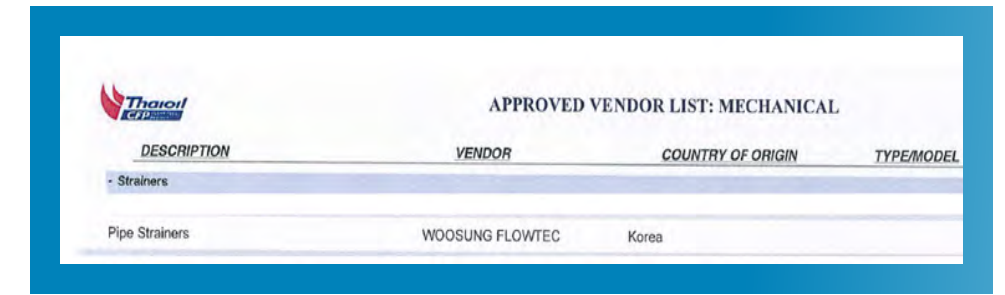
[PDO]



[QP]



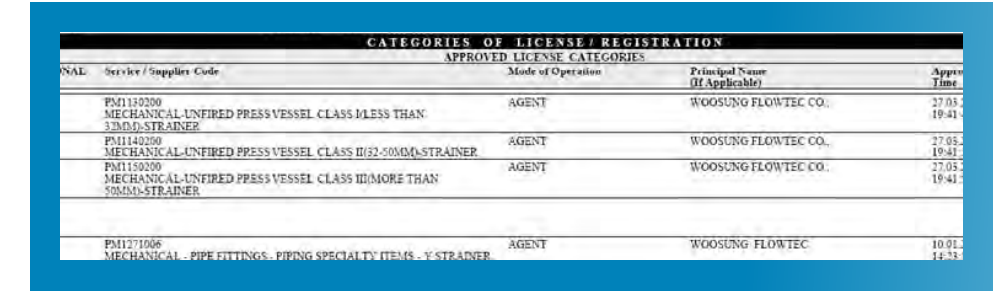
[Thai Oil]



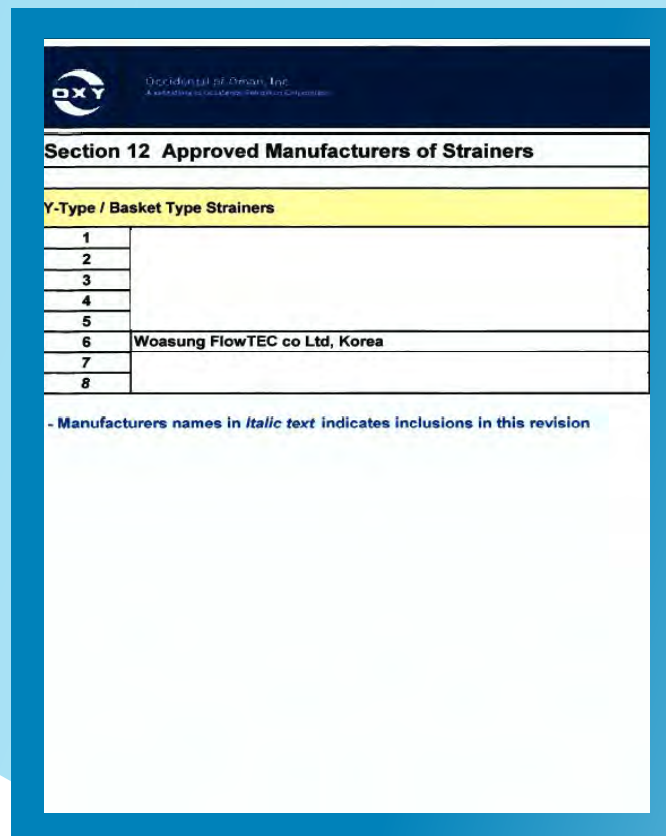
[ADNOC]



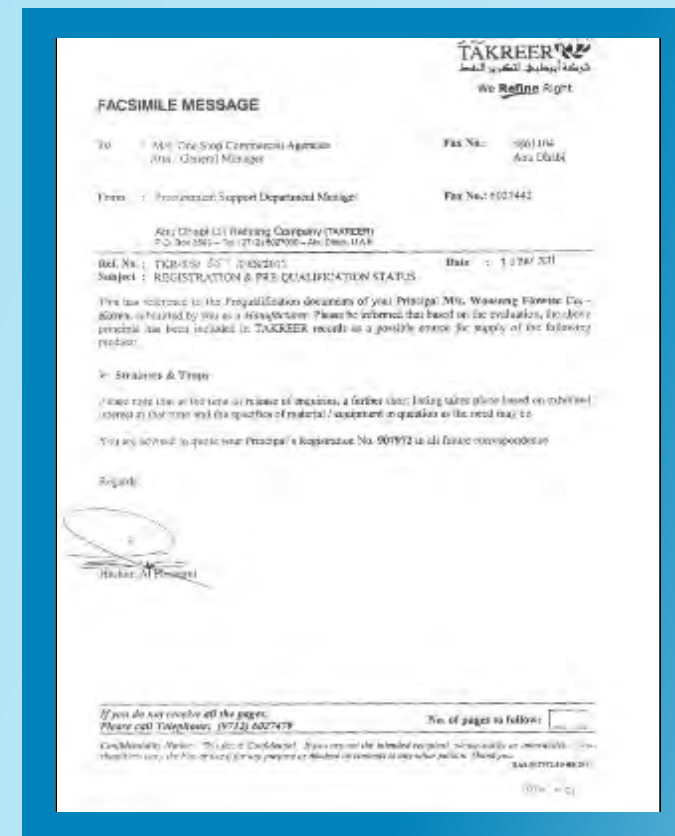
[PETRONAS]



[OXY]



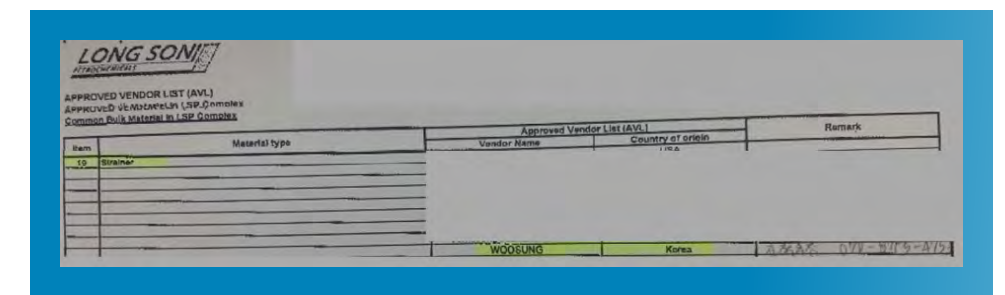
[TAKREER]



[PTT GC]



[LONG SON Petrochemical]



5. FINANCIAL STATUS

DNA

COMPANY NAME WOOSUNG FLOWTEC CO.,LTD.

BUSINESS REG. NO. 606-86-49896

PRESIDENT & CEO Jo, Young Je

RATING DATE Apr.07.2020

Notice

- ▷ It is provided only as a reference for work as an evaluation based on the data submitted by the company, and we are not responsible for the judgment or decision based on its use.
- ▷ It is written under the Act on the Use and Protection of Credit Information, which is prohibited from copying, citation (or re-quotation), distribution and forgery without our consent.
- ▷ Valid only within the validity period.
- ▷ It cannot be submitted to public institution bidding examinations such as Public Procurement Service.
- ▷ Please contact Ecreble Co., Ltd. (Tel: 02-2101-9100) for issuing a report for public institution submission or to confirm and inquire about this report.

CREDIT RATING

ECC202004003080 | WOOSUNG FLOWTEC CO.,LTD. | Jo, Young Je | 606-86-49896

Credit Rating

B+

Credit Rating Date
Apr.07.2020

Company Information

| | |
|------------------------------|--|
| Company Name | WOOSUNG FLOWTEC CO.,LTD. |
| President | Jo, Young Je |
| Head Office | (46744) 27, Mieumsandan3-ro, 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.31.2019 |
| Credit Rating Effective Date | Apr.07.2020~Apr.06.2021 |

Credit Rating History

| Reporting Date | Fiscal Year | Credit Rating | Cash Flow Rating |
|----------------|-------------|---------------|------------------|
| Apr.07.2020 | Dec.31.2019 | B+ | C- |
| Apr.18.2019 | Dec.31.2018 | B- | C- |
| Apr.27.2018 | Dec.31.2017 | B | B |

Company Overview

| Main Items | Business Profile | | Customer(%) | | Major Shareholders | |
|------------|-------------------------------|-----------------|------------------------------------|-----|--------------------|--------|
| | No. of Employees | 80 | Samsung Heavy Industries Co., Ltd. | 15% | Jo, Young Je | 90.00% |
| Filter | Company Size | Medium | Techcross Co., Ltd. | 11% | Jo, Sung Hwan | 10.00% |
| - | Legal Status | Audited Company | Hyundai Engineering Co., Ltd. | 11% | | |
| | Paid-in Capital (KRW million) | 2,000 | Samsung Engineering Co., Ltd. | 5% | | |

(Unit: KRW million)

| Fiscal Year | Total Asset | Total Liabilities | Total Stockholders' Equity | Sales | Operating Income | Net Income |
|-------------|-------------|-------------------|----------------------------|--------|------------------|------------|
| Dec.31.2019 | 17,953 | 11,964 | 5,989 | 16,910 | 1,073 | 831 |
| Dec.31.2018 | 15,956 | 10,798 | 5,157 | 10,593 | -965 | -795 |
| Dec.31.2017 | 13,010 | 9,522 | 3,488 | 13,616 | 232 | 90 |
| Dec.31.2016 | 12,724 | 9,326 | 3,398 | 15,042 | 229 | 26 |

6. PRODUCTS

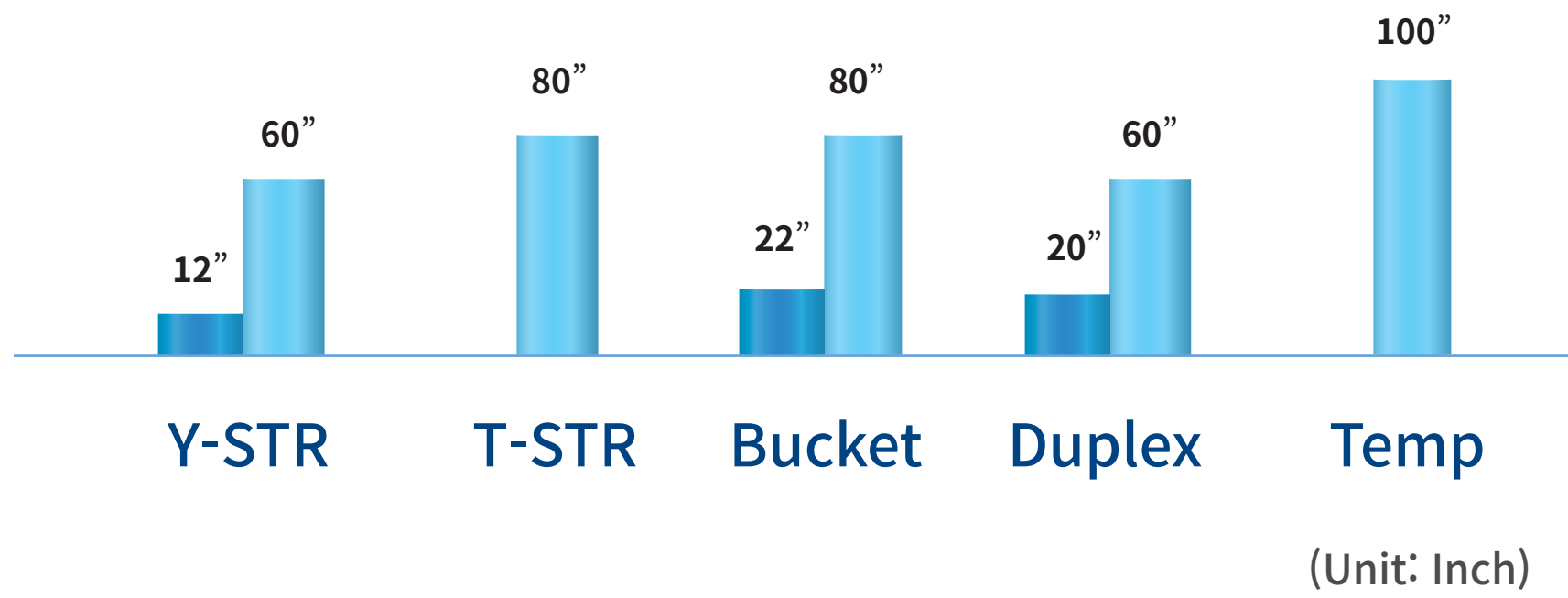
6.1 Manufacturing Capabilities

6.2 Figuration



6.1 Manufacturing Capabilities

■ Casting ■ Fabrication



** 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 |

6.2 Figuration

■ DUPLEX STRAINER (Fabrication) ■



■ DUPLEX STRAINER (Fabrication) ■

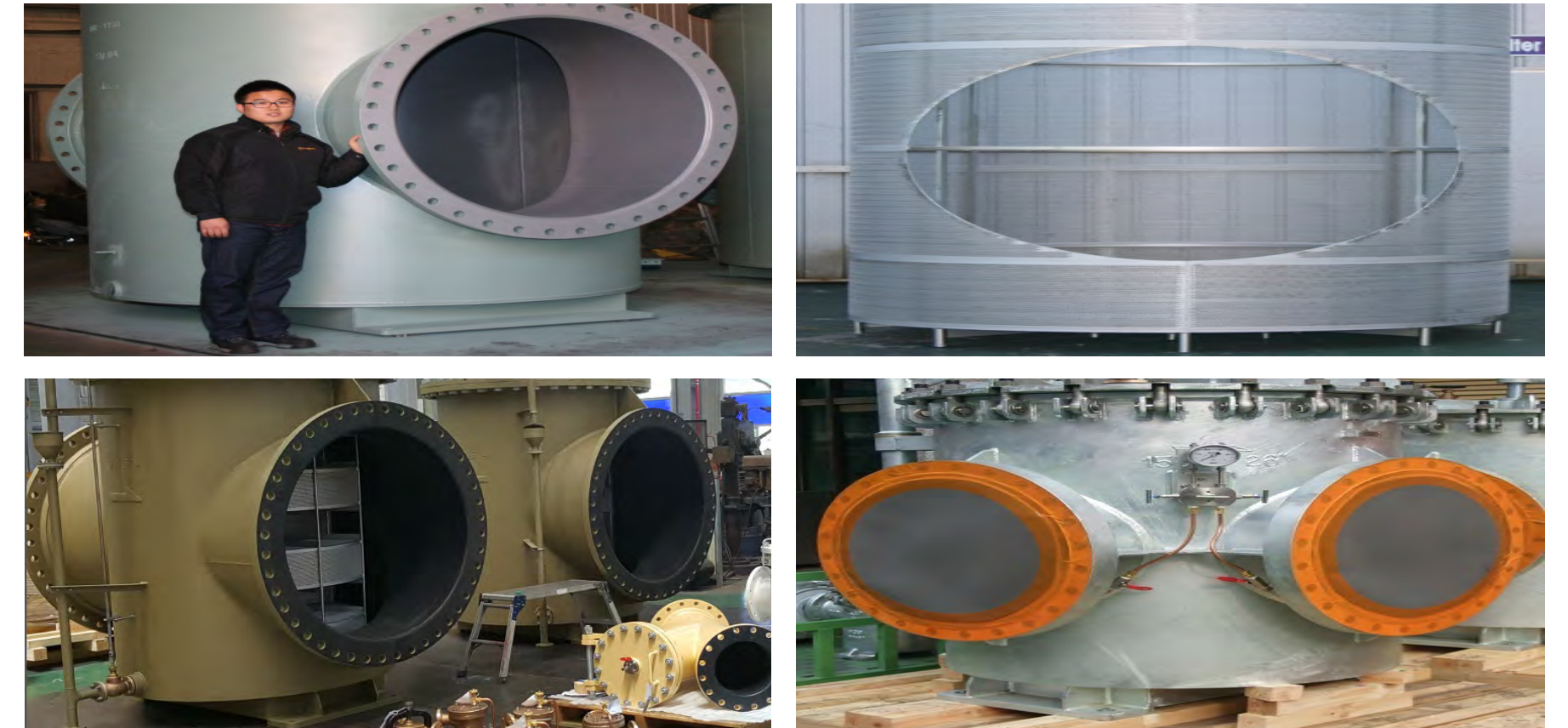


6.2 Figuration

■ BUCKET STRAINER (Fabrication) ■



■ BUCKET STRAINER (Fabrication) ■



■ BUCKET STRAINER (Fabrication) ■



■ BUCKET STRAINER (Casting) ■



6.2 Figuration

■ MULTI TYPE STRAINER (Casting) ■



■ TEE STRAINER (Fabrication) ■



■ TEE STRAINER (Fabrication) ■



■ TEE STRAINER (Fabrication) ■



6.2 Figuration

■ TEE STRAINER (Fabrication) ■



■ Y STRAINER (Fabrication) ■



■ Y STRAINER (Casting) ■



■ MESH AND FILTER ■



6.2 Figuration

■ MESH AND FILTER ■



■ CUSTOMIZING FILTER ■



■ CUSTOMIZING FILTER ■



7. INSPECTION & TEST

7.1 Test Equipment

7.2 Inspection & Test Plan



7.1 Test Equipment



Hydro Testing M/C



Dial Thickness Gauge



PMI Analyzer



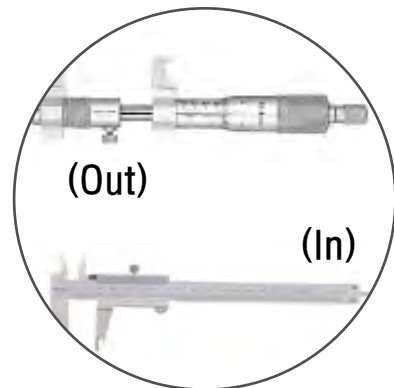
Multi Test



Graduator



Paint Thickness Gauge



Vernier Callipers



Feritscope



Leeb Hardness Tester



Cross Hatch Cutter



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

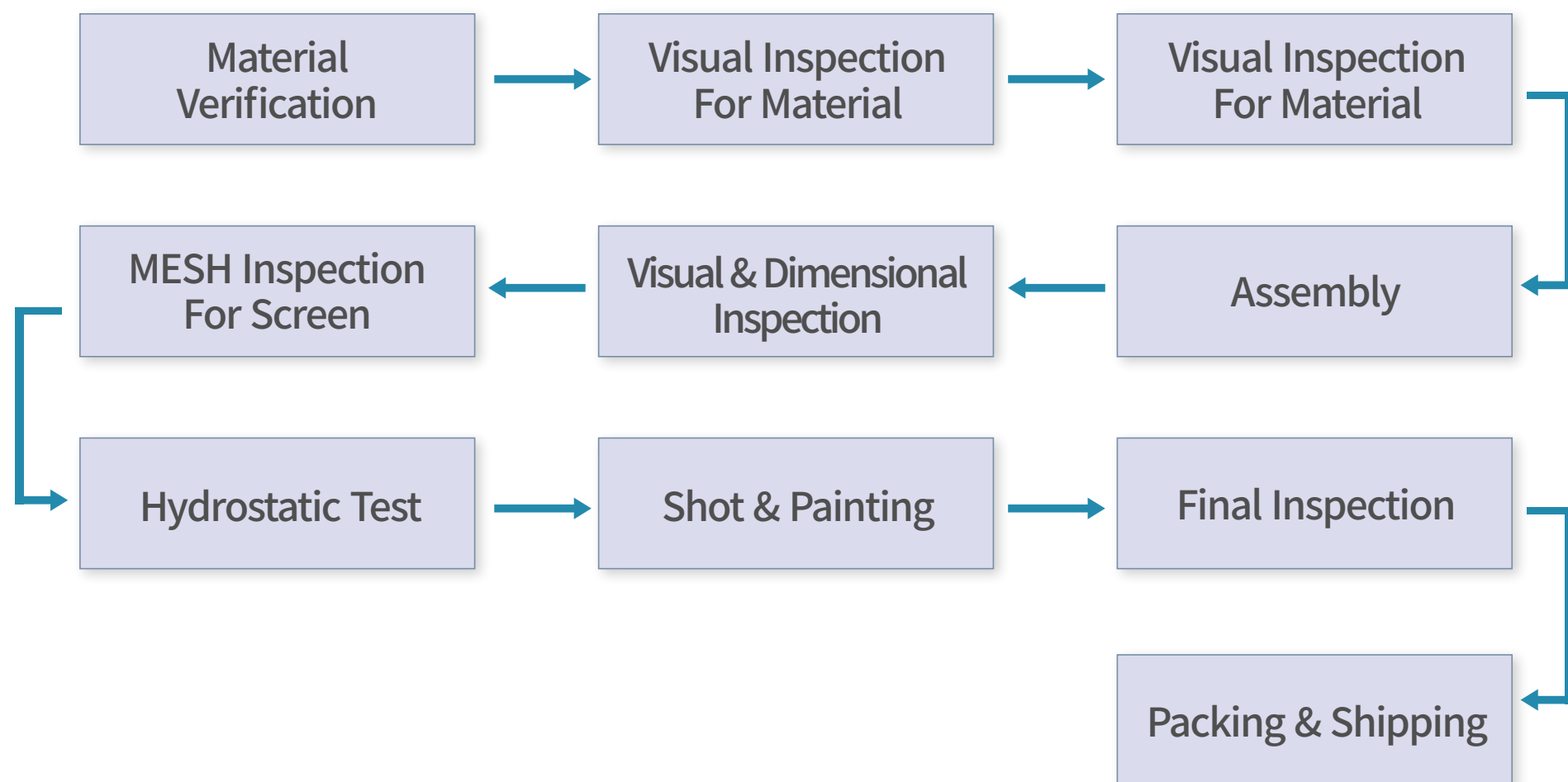
7.2 Inspection & Test Plan


| | | | |
|---|---------------------------------|---------|--------|
|  | Inspection And Test Plan | Doc No. | **** |
| | | Page | 2 Of 3 |

1. Revision State

| REV NO. | CONTENTS |
|---------|---------------------------|
| ○ | First Issued (2011.○○.○○) |

2. Sequence Of Manufacture



| | | | |
|---|---------------------------------|---------|--------|
|  | 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

Test Facility



Pressure drop test

8. WELDING/NDE/ PAINTING PROCEDURE

8.1 Welding Procedure

8.2 Non-Destructive Examination Procedure






8.3 Painting Procedure & Facilities

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) | - |

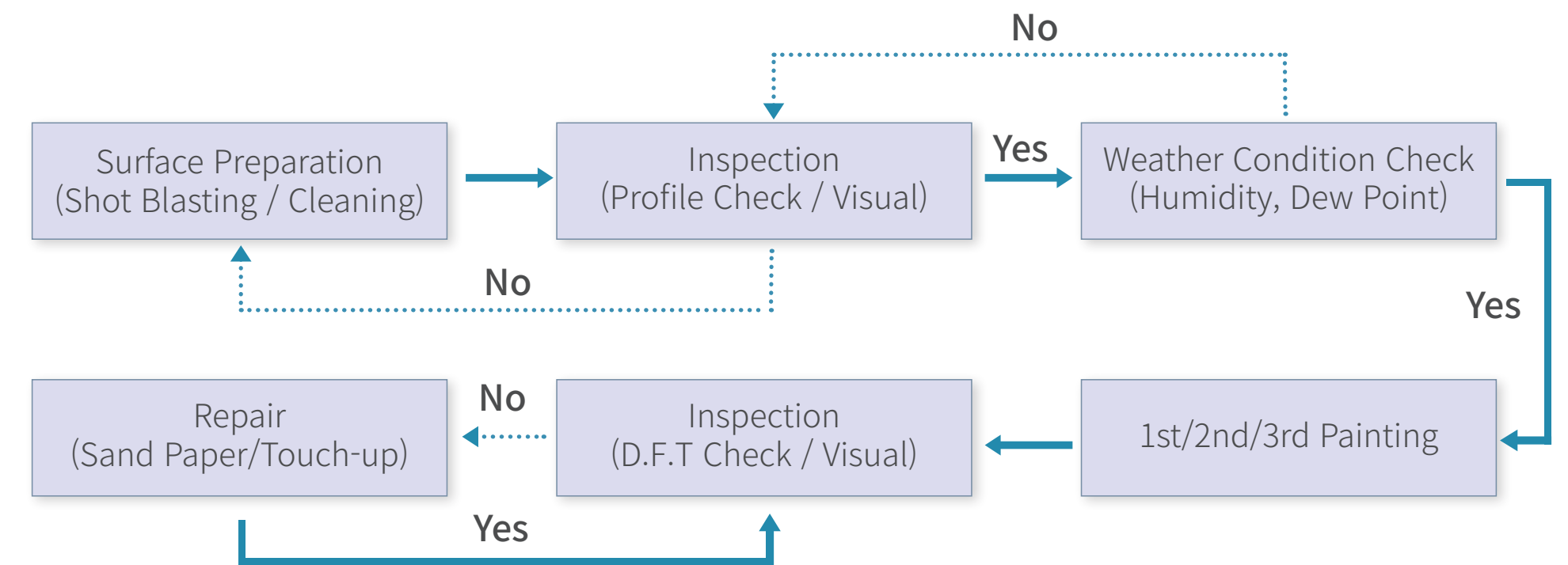
8.2 Non-Destructive Examination Procedure

| 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 | |

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 |

9. PRODUCTION PROCESS

9.1 “T” Strainer(Straight Flow)

9.2 “T” Strainer(Angle Flow)

9.3 “Bucket” (Fabrication type)

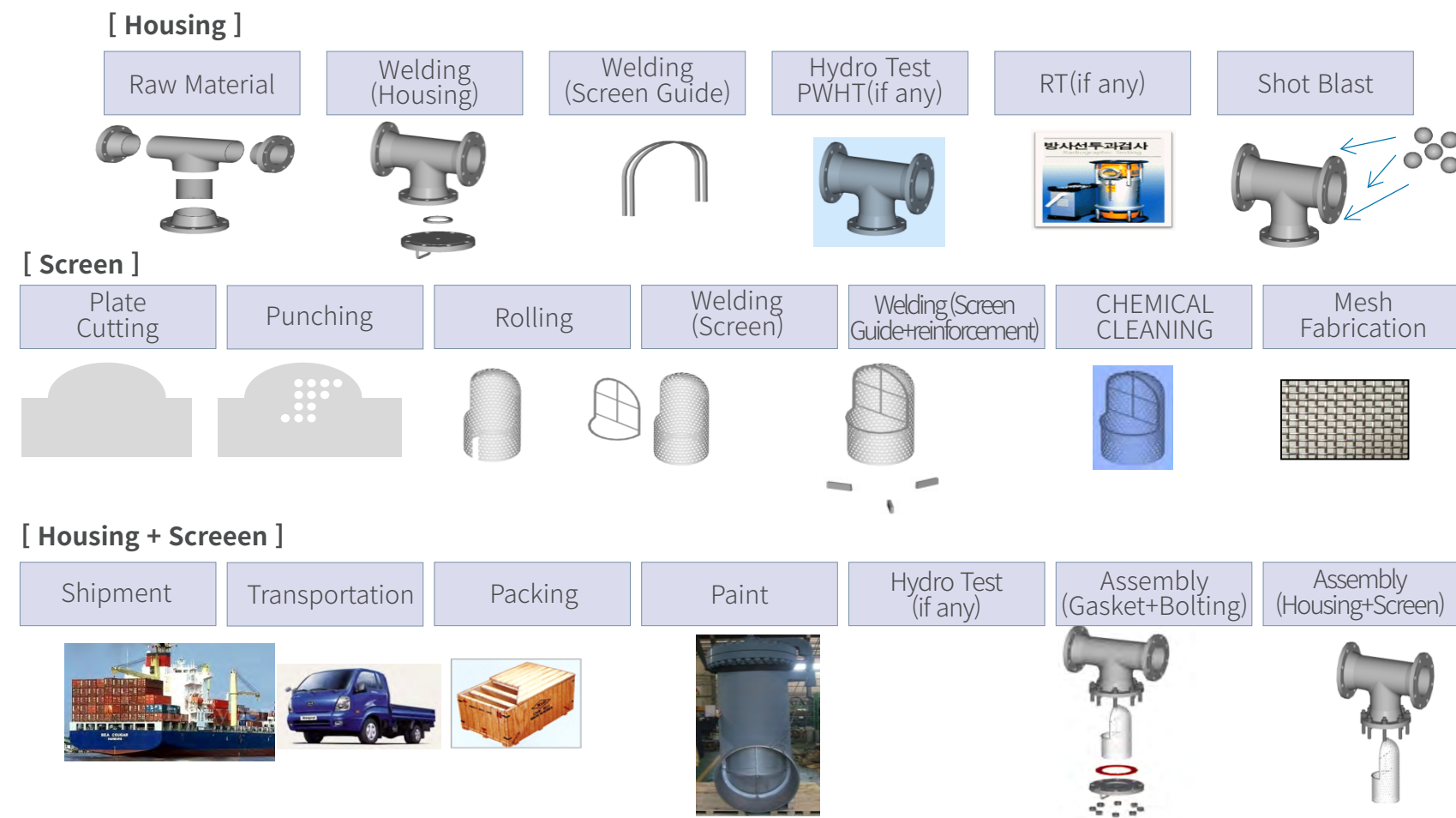
9.4 “Duplex” (Casting type)

9.5 “Y” Strainer (Fabrication type)

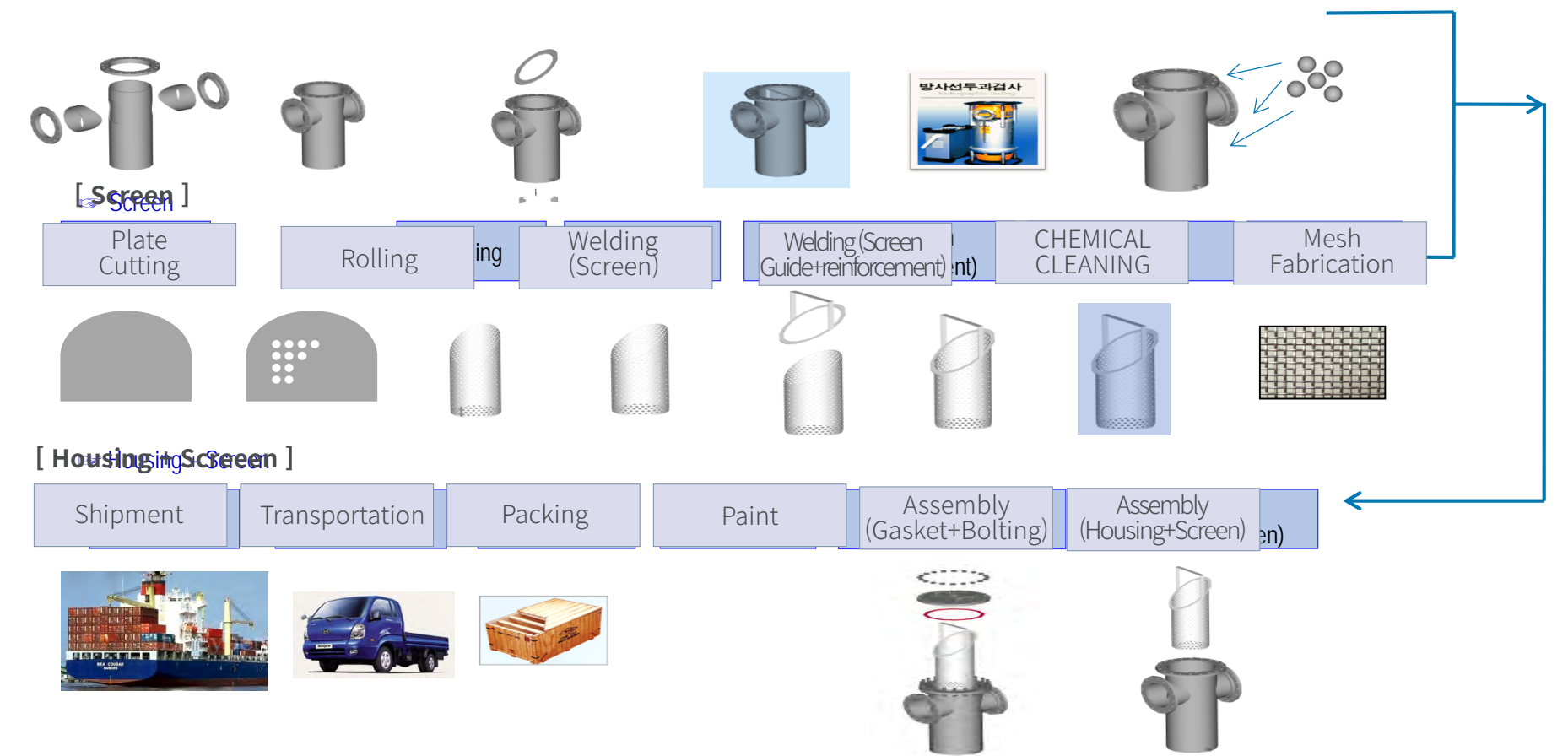
9.6 “Y” Strainer (Casting type)

9.7 “Conical” type

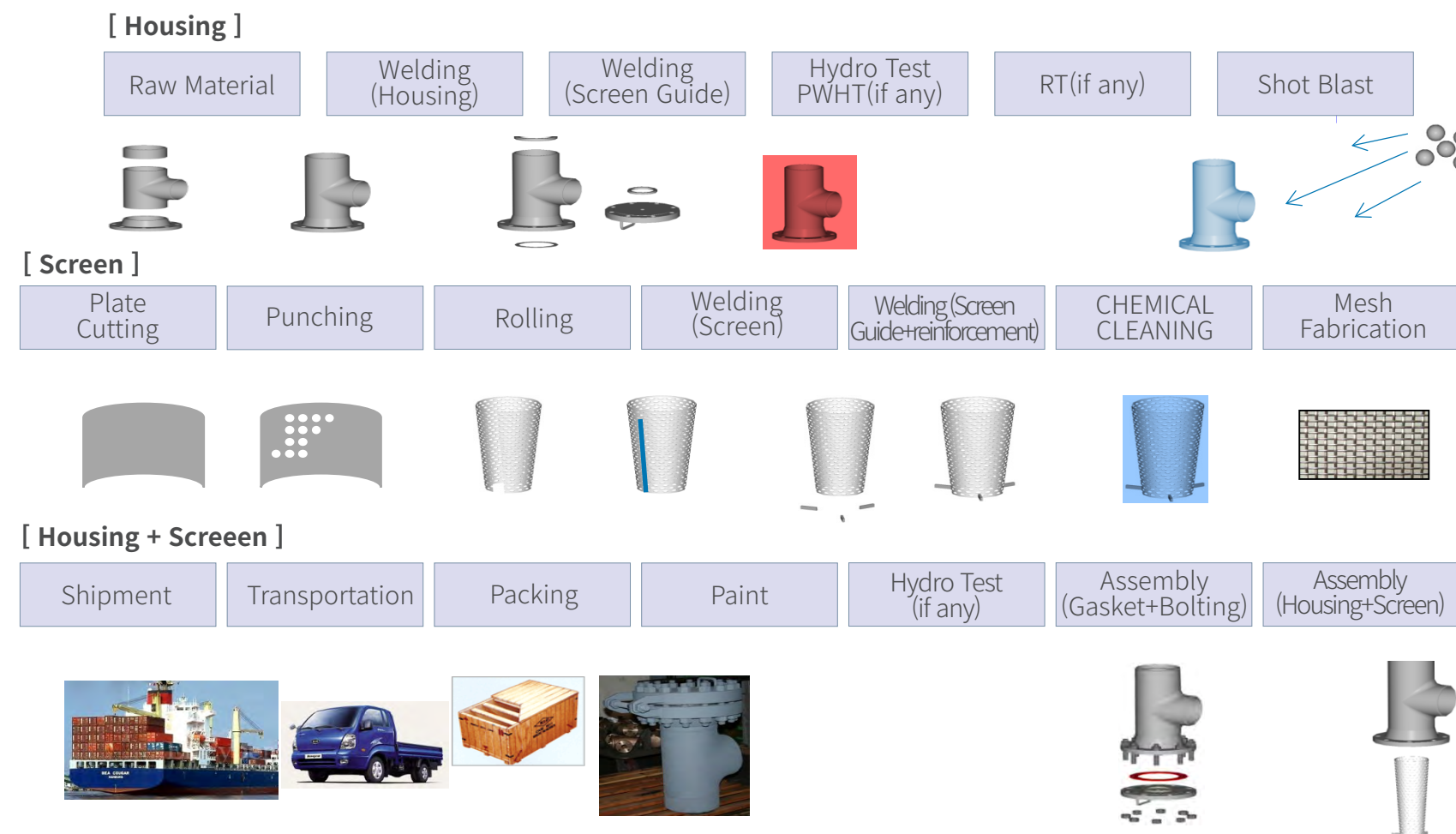
9.1 "T" Strainer (Straight Flow)



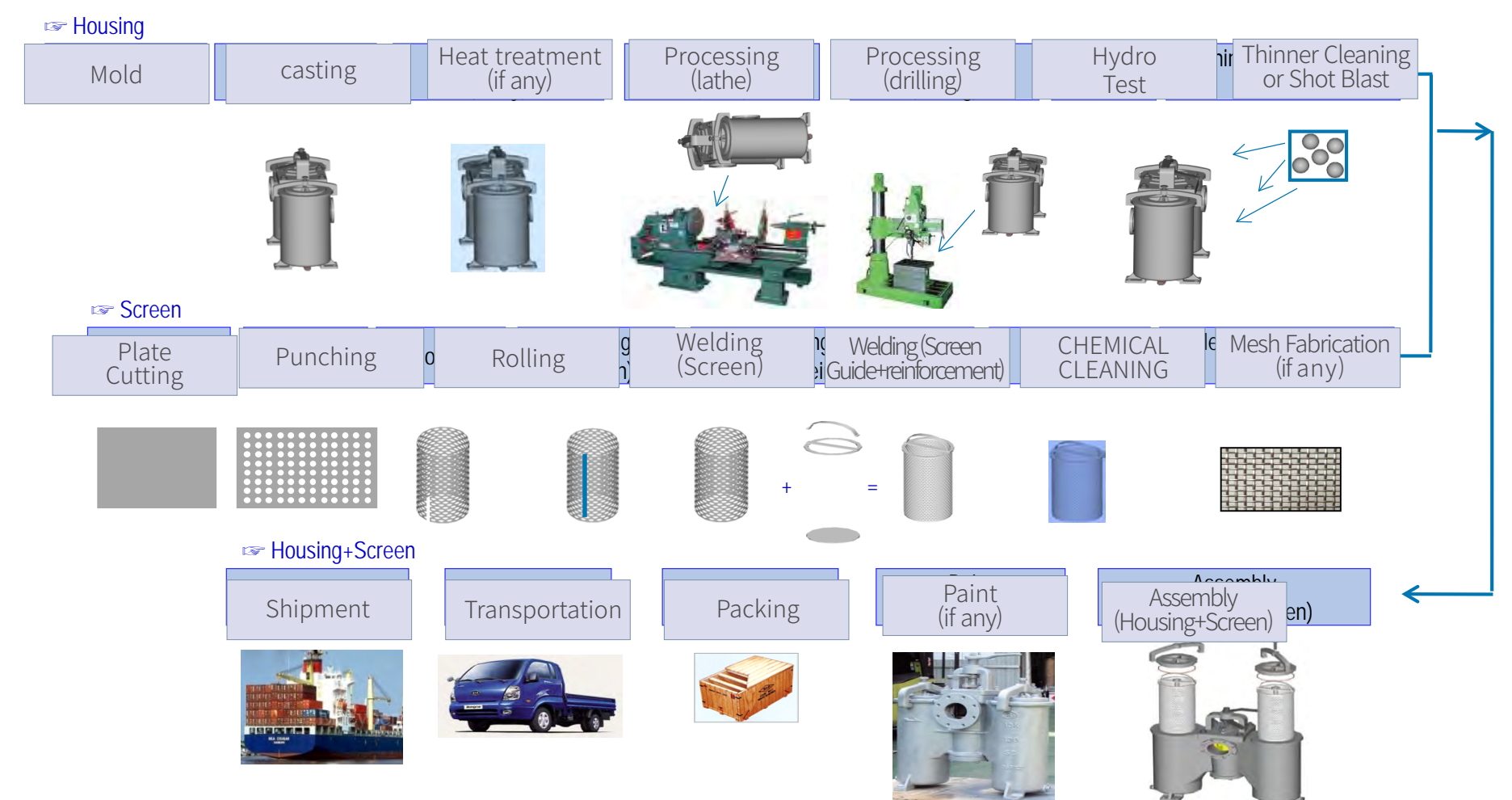
9.3 "Bucket" (Fabrication type)



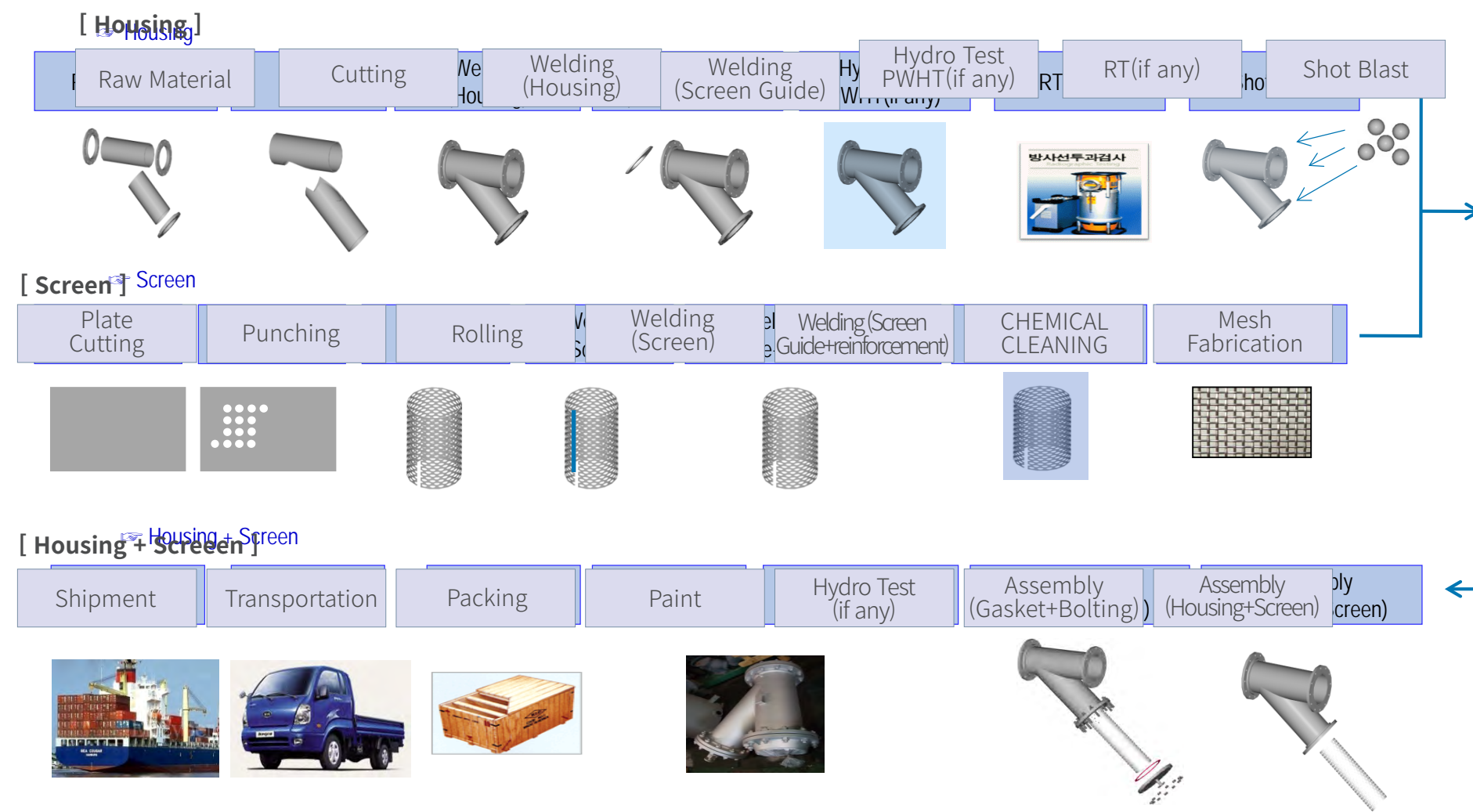
9.2 "T" Strainer (Angle Flow)



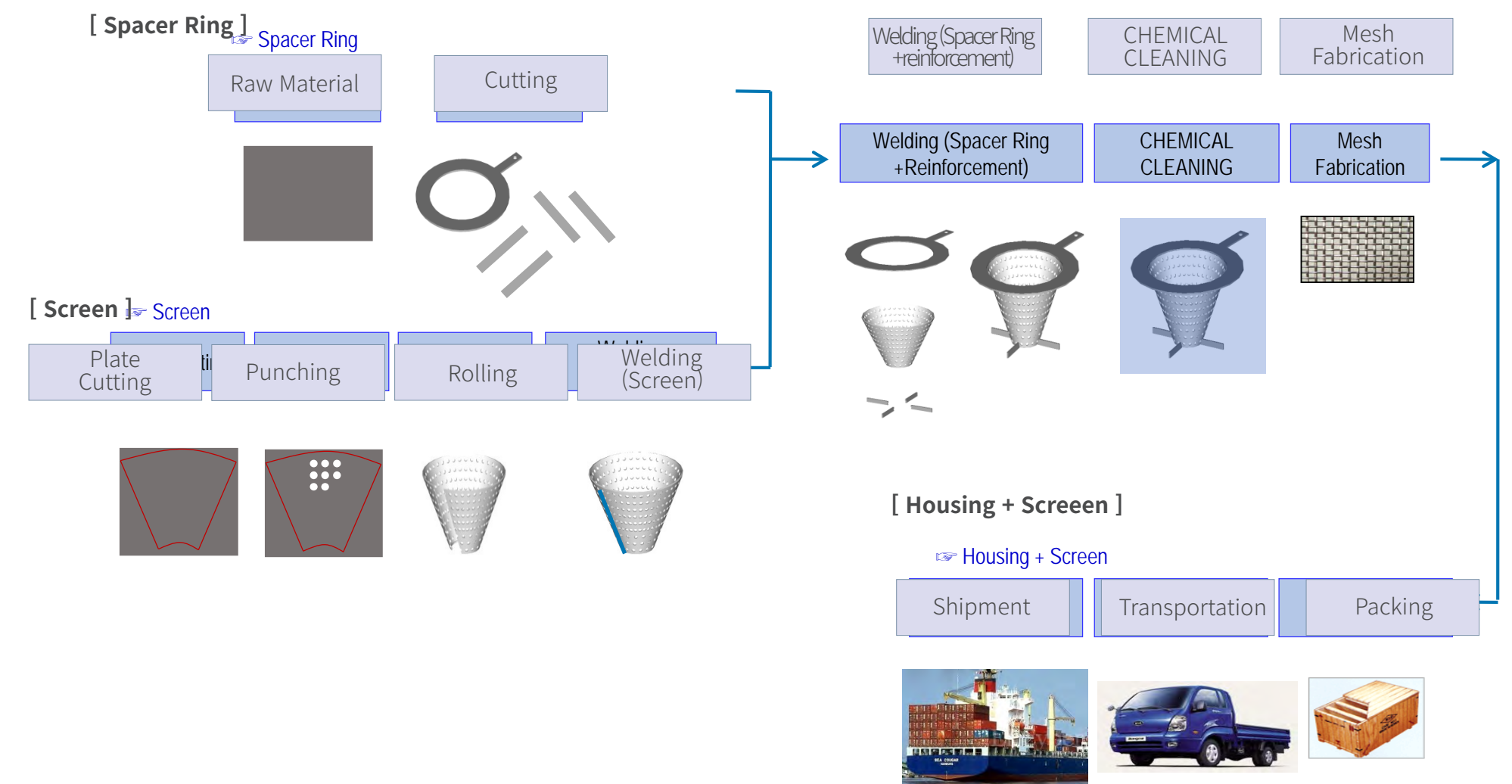
9.4 "Duplex" (Casting type)



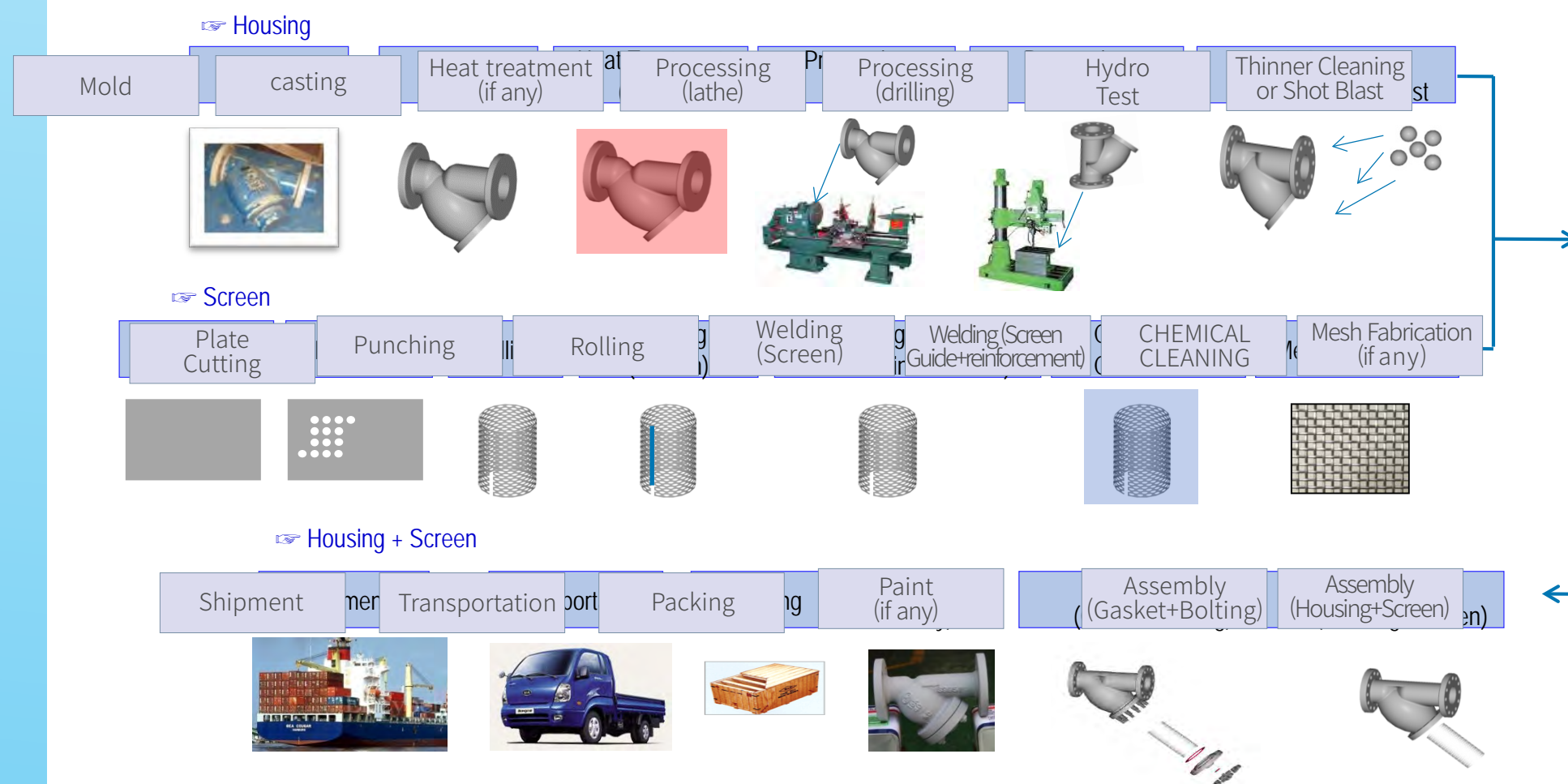
9.5 “Y” Strainer (Fabrication type)



9.7 “Conical” type



9.6 “Y” Strainer (Casting type)



THANK YOU!

WOOSUNG FLOWTEC is growing into a global company with advanced technology and our own know-how.

www.woosungflowtec.com





WOOSUNG FLOWTEC

Head office, Factory

27, Mieumsandan 3-ro, Gangseo-gu, Busan, Korea
TEL : + 82-51-831-1531 FAX : + 82-51-831-1534
E-mail : biz@woosungflowtec.com
<http://www.woosungflowtec.com>

WOOSUNG FLOWTEC Co., Ltd.