

COMPANY PROFILE

INTERNATIONAL
PROCESS
ENGINEERING
GROUP

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History, Mission and Values

Mission and Values



To the future beyond the century



Clean business management with morality

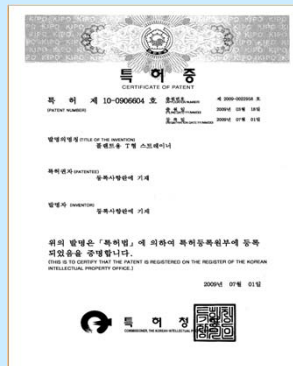


Contribution to the development of human lives



Innovation for the competitiveness

2001	Established IPEG Korea Company
2007	Converted to Incorporation, IPEG ENG Ltd.
2007	Registered Factory
2007	Acquired ISO 9001 & 14001 Certificates
2008	Acquired ASME "U", "U2" and "S" Stamps
2008	Opened R&D Center
2009	Patented for T3 Type Strainers
2010	Acquired OHSAS 18001 Certificate
2012	Relocated to Larger Factory in Hwasung-city
2015	Patented for A Fluid & Method using Spiral Flow



Head Office & Factory

IPEG ENG is one of the leading global solution provider in this industry with the largest manufacturing facilities for filtration & separation system, strictly in accordance with the applicable codes and standards.



Structure	Land (14,046m ²) / Building (4,777m ²) / Office, R&D (1,151m ²) Capacity : 400 ton/month
Equipment	Crane, Cutter, Bending Machine, Equipment Tester

Manufacturing Capacity

◆ Manufacturing Capacity

Module Package	Dimensional Capacity W7,000 x 25,000L x 5,000H – Assembly at Port Yard
Vessel	Diameter : 6,000 mm – Maximum Size for Inland Trucking Length : No Special Limitation – Welding and Assembly at Port Yard

◆ Transportation

Inland Trucking	Diameter 6,000 mm, Length 25,000 mm, Weight 200 tons
Ocean Freight	Barge or Bulk Carrier at Pyungtaek Port (12 km from IPEG Site)

Engineering Capacity

◆ Basic Design & Engineering

Package & Engineered System

Simulation, Modeling, Material & Energy Balancing

PFD, P&ID

Equipment Sizing & Line Sizing

Equipment Layout, GAD

◆ Detail Design

Piping : Hydraulics, ISO-Drawings, Stress Analysis

Mechanical : Design (Compress, PVElite), Spec/DS, MR/TBE

Process Design : Single Line Diagram, Loop & Logic Diagrams, Load List, Cable Schedule

Structure : Skid & Module Design, Foundation Design

Clients / End-Users

IPEG ENG is listed as approval vendor for all major customers worldwide, and has been proven to be a reliable solution provider with the accumulated knowledge and experiences.

End-User

ADCO (Abu Dhabi Company for Onshore Petroleum Operations Ltd.)	ORPIC (Oman Oil Refineries & Petroleum Industries Co.)
BOROUGE (Abu Dhabi Polymers Co., Ltd.)	Petronas Group of Companies
GASCO (Abu Dhabi Gas Co.)	Hanwha Total Petrochemicals Co., Ltd.
TAKREER (Abu Dhabi Oil Refining Co.)	Korea Gas Corporation
KNPC (Kuwait National Petroleum Co.)	LG Chem, Ltd.
KOC (Kuwait Oil Company)	LOTTE Chemical Corporation
Kanoo Group	SK Energy Co., Ltd. (SK Innovation)
POGC (Pars Oil & Gas Co.)	S-Oil Corporation
QP (Qatar Petroleum)	AVR in Progress : PTT Group of Companies
	Hanwha Chem, Ltd.



Clients / EPC Contractors

IPEG ENG is listed as approval vendor for all major customers worldwide, and has been proven to be a reliable solution provider with the accumulated knowledge and experiences.

EPC
Contractors

CB&I	Technip	Hyundai Engineering Co., Ltd.
Chiyoda Corporation	Tecnicas Reunidas (TR)	Hyundai Engineering & Construction Co., Ltd.
CTCI Corporation	Daelim Industrial Co., Ltd.	Hyundai Heavy Industries
Dodsal E&C Pte, Ltd.	Daewoo Engineering & Construction Co., Ltd.	POSCO Energy
Fluor	Doosan Engineering & Construction	Samsung Engineering Co., Ltd.
JGC Philippines, Inc.	Global Engineering Technology Pte. Ltd.	Serve One
L&T Technology Services	GS Engineering & Construction Co., Ltd.	Veolia Water Solution & Technologies
Petrofac	SK Engineering & Construction Co., Ltd.	LG-Toyo Engineering
Saipem S.p.A.	Hyosung	JGC Corporation
CPECC Iraq Branch in Abu Dhabi : Final stage in PQ Process		

Partnerships



Product Range & Capabilities

Filter

Products	Description	Design/Supply	Experiences
Cartridge Filter (Coarse / Fine)	Depth & Surface	Yes	Yes
	Disposable & Cleanable	Yes	Yes
Bag Filter	Bag Type Filters	Yes	Yes
Basket Filter	Same with Basket Strainer	Yes	Yes
Sand Filter	Multi-media Filters - Automatic Operation	Yes	Yes
Activated Carbon Filter	Adsorption	Yes	Yes
Nutshell Filtration Package	Oil & Particle Removal - Automatic Backwash	Yes (Patented)	Yes

Product Range & Capabilities

Separator

Products	Description	Design/Supply	Experiences
Separator	Cyclone Separator	Yes	Yes
	Vane Type Separator	Yes	Yes
	3 Phase Separator	Yes	Yes
	Demister (in KO Drums)	Yes	Yes
	Coalescer	Yes	Yes

Strainer

Products	Description	Design/Supply	Experiences
Strainer	B / C1 / C2 / Y / T1 / T2 / Duplex Type	Yes	Yes
	T3 Type	Yes (Patented)	Yes

Product Range & Capabilities

Automatic Filters

Products	Description	Design/Supply	Experiences
Automatic Self - Cleaning Strainer (Coarser Filter)	Scraper Type (Viscous Fluids)	Yes	Yes
	Arm-Type Rotating	Yes	Yes
	Cylindrical Type – Bernoulli Type For CW, Sea Water, PW	Yes	No
Automatic Backwash Filter	Cleanable Metal Elements for Water, Oil, etc.	Yes	Yes
Automatic Dust Collector	Baghouse Type	Yes	Yes
Blowback Filter	Metal Element B/B	Yes	No

Product Range & Capabilities

Specialty Items 1

Products	Description	Design/Supply	Experiences
Water Treatment Package	Micro Filtration	Yes	Yes
	Ultra Filtration	Yes	Yes
	Reverse Osmosis Membrane System	Yes	No
	Ion Exchanging Polisher	Yes	Yes
	Oily Water Treatment	Yes	Yes
	Sea Water Treatment	Yes	Yes
	Process Water Treatment	Yes	Yes
	Waste Water Treatment	Yes	Yes
Chemical Injection Package	Chemical Dosing System (Chlorine, Coagulant)	Yes	Yes

Product Range & Capabilities

Specialty Items 2

Products	Description	Design/Supply	Experiences
Lean Amine Filtration Package	Lean Amine Regeneration System	Yes	Yes
MEG & TEG Regeneration	EG Regeneration System in the Sour Gas Removal Process	Yes	No
Glycol Dehydration System	With EG Regeneration Package	Yes	No
Fuel Oil treating Package	Fuel Oil Treating System in Power Plant	Yes	Yes
Fuel Gas Treating & Injection System	Fuel Gas Treating (Coalescing) & Injection	Yes	Yes
Nutshell Filtration Package	Oil & Particle Removal - Automatic Backwash	Yes (Patented)	Yes

Product References

Filtration & Separation Systems

High Technology and High Efficiency of Filter



[LiBS #8,9 Project / SKEC]
- 8" SCH. 10S, A312-TP304
- ID 211.6 x 3.76t



[HDPE / LG Chem]
Bag Filter
- A240-TP304, ID 449.2 x 4t



[EVA2 / SECL]
- 10" SCH. 40S(SA312-TP304)
- 4" SCH. 40S(SA312-TP316L)



[MGP FILTER]
- ID600 x 2100TL / ID1000 x 3600TL
- A516-70 / 9t, 12t

Product References

Condensate Treatment Packages



[Steam Condensate Treatment for Boiler Feed Water]

PVTEX Plant PROJECT

HEC / Vietnam / 2011

Product References

Side Stream Filter Packages



[Multi Media (Sand) for Cooling Water]
IRPC Project / GSEC / Thailand / 2011

Product References

Coalescer Packages



[Liquid Coalescer Package]
ARNA Project / HEC / Algeria / 2014

Product References

Separators



[3Phase GLL Coalescer / GL Coalescer]
MGP Project / HEC / Oman / 2012

Product References

Dust Collector Packages



[Dust Collector Package]
IPC EVA Project / GSEC /
Saudi Arabia / 2012

Product References

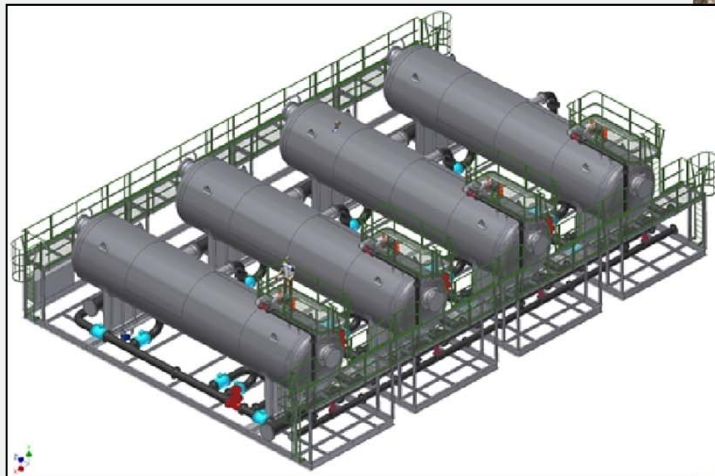
Water Treatment Packages



[Separator (Settler)]
KOC WARA Project / GSEC / Kuwait / 2013

Product References

NSF + EWSS (Nutshell Filter Package & Effluent Water Sludge Separator Package)



[NSF + EWSS]

KOC EWTIP Project / Dodsai / Kuwait / 2015 / USD 22,000,000.00

Product References

Automatic-Filtration Systems



[Auto-Back wash filter Package]
- SM High Screen Filter Package
LG Chem. / Korea / 2012



[Auto-Backwash Filter Package]
- HDPE Project / LG Chem / Korea / 2013

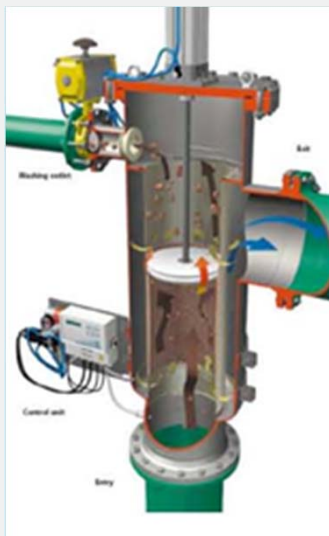
Product References

Automatic-self cleaning Strainers

Cost Saving Economic Design



[Arm Type]
- Donghae Gas PJT.



[Cylindrical Type]



[Scraper Type]
- SSBR Project

Filter Element

- Wedge Wire/ Perforated/ Wire Mesh Screen
- Element Material: 304 or 316 Stainless steel
- Large ranger Dimensions

Standard Housing Designs

- Body & Internal: Epoxy-coated C.S (Std.), SUS304, SUS316
Other alloy materials are available.
- Other materials on request
- Designed for 150 psi (10.5 kg/cm²) @ 250°F
- ASME Code stamped and certified
- Head-Gasket: Buna-N

Standard Connections & Accessories for Package

- Inlet and outlet: 150~300lb RF (ANSI) flanged
Other pressure class on request
- Differential pressure gauge
- Automatic drain valves
- Liquid level gauge, if required

Product References

Filtration & Separation Systems

High Technology and High Efficiency in Filtration



[Sand + A/C Filters]
- MHC/PH-1 Project, Ulsan



[Utilities & Off sites System]



[Activated Carbon Filter]
- SKICO Project



[Filtration & Separation : Sand]
- Veolia Project / Korea

Product References

Plant Engineering

Various engineering service experiences with proven technical knowledge



[EPP CO2 Plant]
- Production Facility Pilot Testing Facility
Lotte Chem. / Korea

Product References

Special Packages

Low Cost & Highly Efficient Systems



[Semiconductor Cleaning Plant]
- N&P Project / Nanowin / Korea



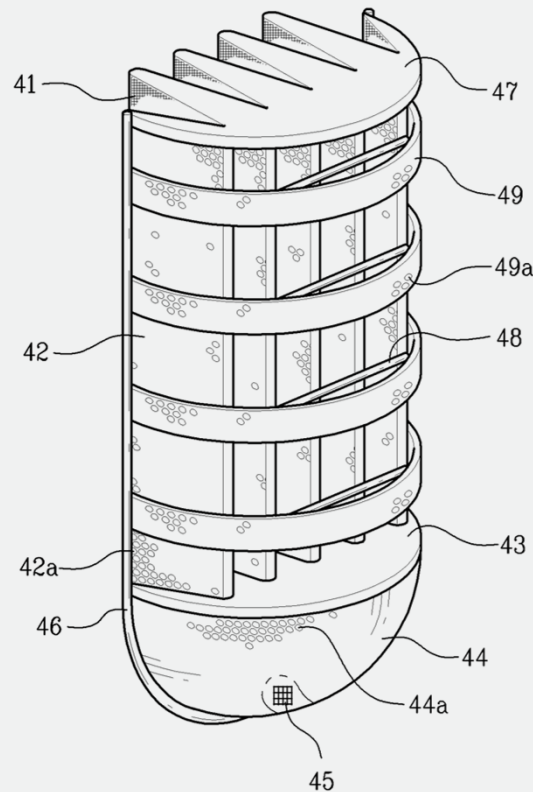
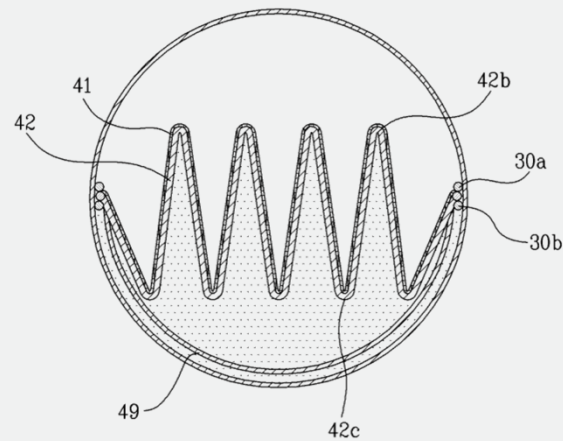
[Breathing Air Package]
-Sohar Aromatic Project
GSEC / Oman

Patent Possessions

T3 Type Strainers

High Quality and Low Maintenance

IPT3™ Strainers



Features

Reinforced Screen Structure

This prevents screen and equipment broken

Compact Size & Less Weight

Normal T housing make it available.

Large Screening Area

Open ratio is up to 250~400%

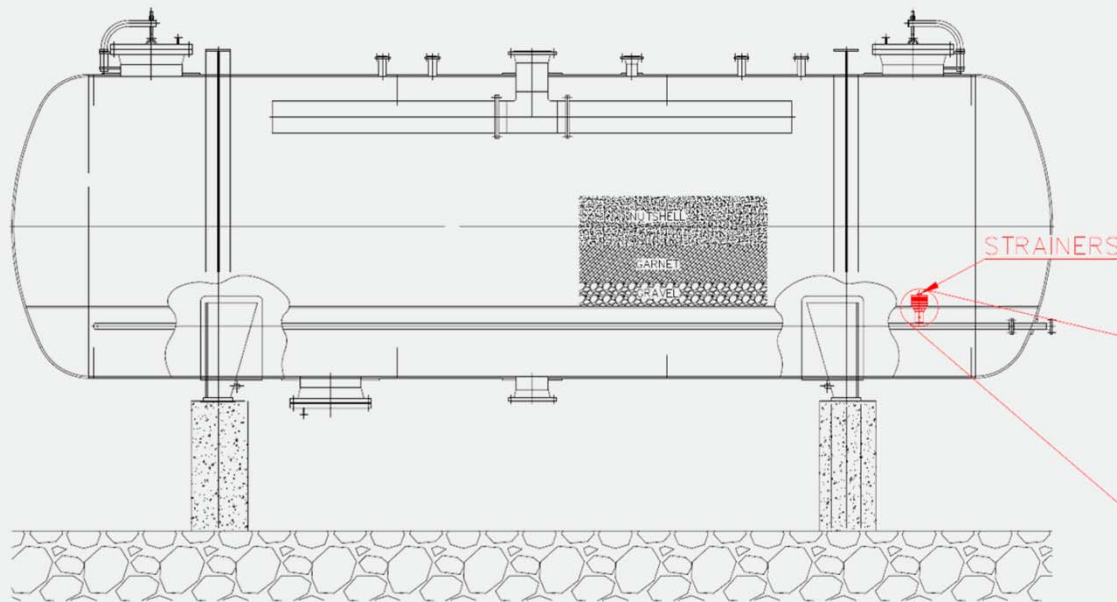
Benefits

- Increased plant equipment life
- Low maintenance costs
- Cost saving for installation and maintenance
- Easy pipe design
- Best alternatives to special strainers
- Long leaning cycles
- Low pressure drop
- Reduced downtime with easy cleaning and replacing
- Good alternatives to Y type or Basket type strainers

Patent Possessions

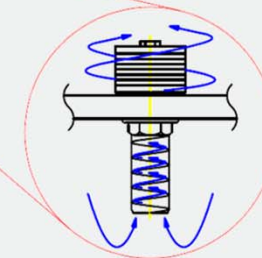
Fluid Purification Apparatus Using Spiral Flow And Method For Purifying The Fluid

A Proprietary Liquid Exit Strainers And Scouring Gas Injection System



The feed water passes downward through the vessel and the filter bed where free oils and suspended solids are absorbed and captured.

Oil droplets are removed from the water phase by coalescence among nutshell granules. Solid particles are removed by filtration in narrow channels within a tightly packed layer of finely crushed garnet. The nutshell granules also perform a degree of filtration action.



In the normal filtering operation, the feed water stream enters into the vessel through the flow control valve located at inlet and passes into the inlet distributor which has specially designed by IPEG and fills the top of the vessel above the bed.

During scouring gas process prior to the backwash, the absorbed free oils and suspended solids will be scrubbed off from the nutshell media in order to increase the backwash efficiency.

The patented design of spiral flow path through the strainers forms the spiral movement of scouring gas into the multi-media bed, resulting in maximized backwash performance.



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