





ABOUT US

SHIP MANAGEMENT

NEWBUILDING SUPERVISION

SHIP EQUIPMENT



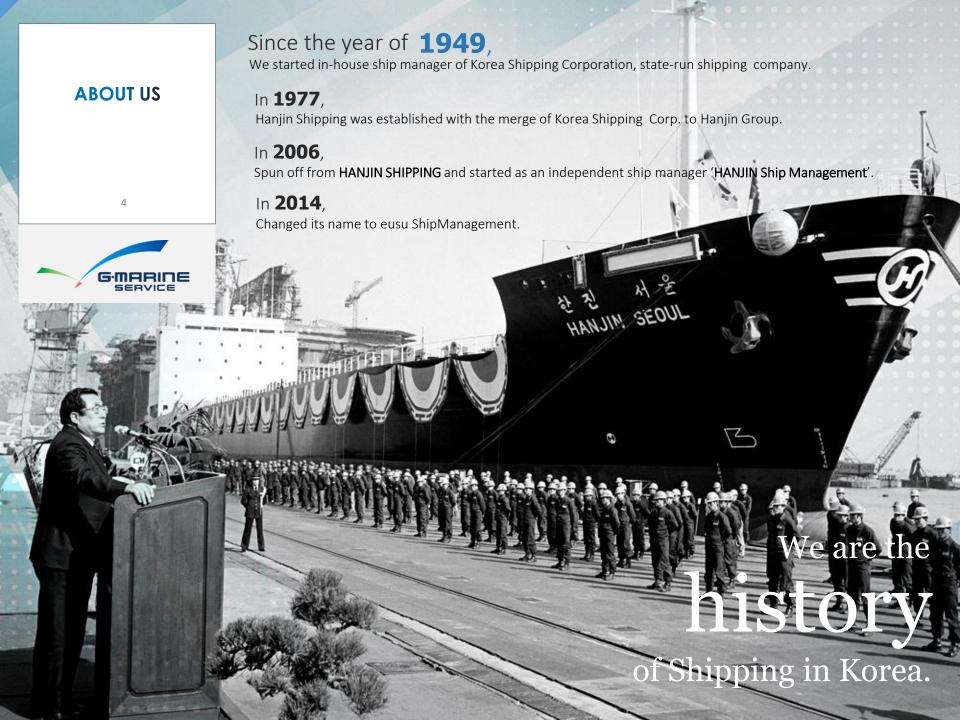


ABOUT US

As a globally trusted service partner, we are proud to provide you with customized services.

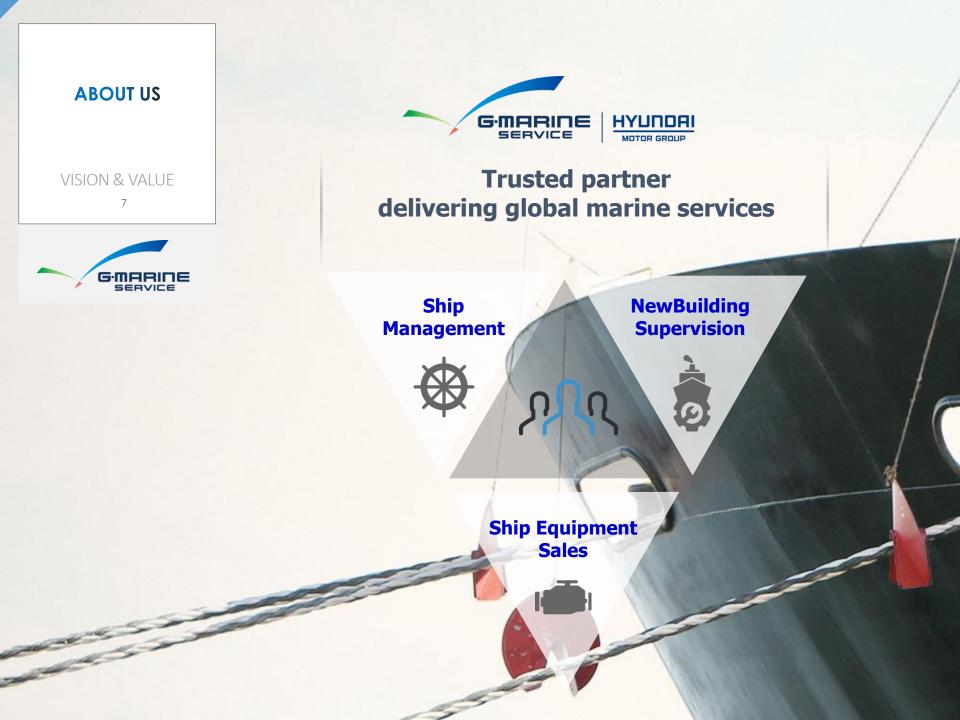












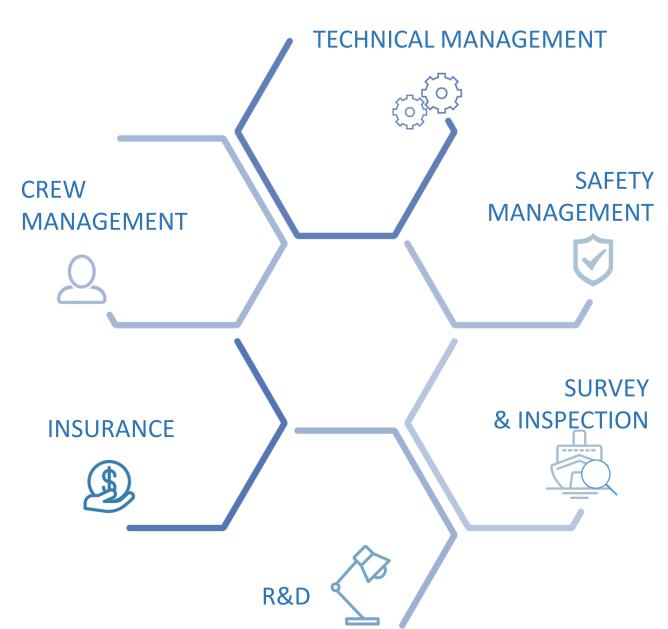
With 40 years experience, we are committed to safe operation and cost efficiency.



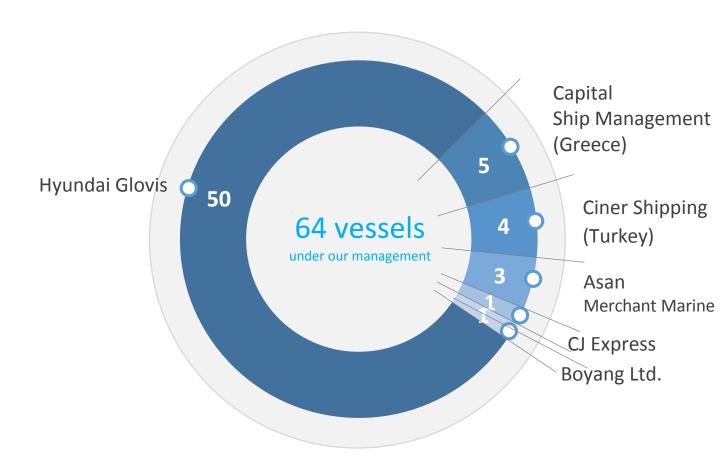


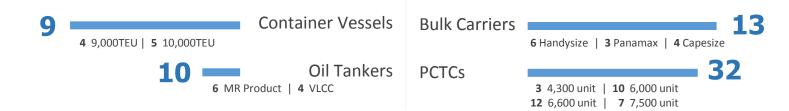


Our services focus on maximum vessel availability and customer reputation protection thru 70 years of safety, reliability, efficiency management and full transparency policy.









CREW MANAGEMENT



Crew Pool

Korea, Philippines, Indonesia, Myanmar

Scholarship/Cadet Program

To secure qualified maritime universities graduates

Recruitment

Recruiting centers and agencies in Korea, Philippines, Indonesia, Myanmar

Training

Localized Training Centers

Crew

Competency

Program

Growth to excellent crew

TOP OCEAN LEADER

Promotion

Provide officers with job competency and leadership training

On-board OJT

Familiarization training courses with the jobs and vessels

Training during off-hire

Intensive crew training programs

CREW TRAINING



STATE-OF-ART TRAINING FACILITIES

abt. 200 simulators

- Ship Handling Simulator
- SHS 2nd Bridge
- ARPA RADAR Simulators
- Engine Room Simulator x 2
- Electric Training Module
- Bridge Maneuvering System
- Reefer Container & Simulators
- Alarm Monitoring System

- Pneumatic Control System
- ECDIS Simulators
- Fixed CO2 Extinguisher
- Fire-Fighting System
- GMDSS Simul ator
- Oily Water Separator
- Ballast System Simulator
- ICMS (Alarm Monitoring System)

SHIP HANDLING SIMULATOR SHS

- **40** different types of vessels
- 205 vessels in total
- 42 types of terminal
- 270° View (9 Wide Screens)

ACCREDITED MARITIME EDUCATION CURRUCULUM

6 vernmer

Government
Designated
Courses

ent Pr

Primary Courses 3

Leadership Courses 41

Common
Job Competency
Courses

- Leadership & Teamwork ERS
- Leadership & Managerial ECDIS
- SHS & BRTM (IMO 1.22c) SHS

SAFETY MANAGEMENT

Certificate

PSC & Vetting

Accident

Emergency Response

IT System

Ship Monitoring

Report

13



ISM CODE | International Safety Management Code

Vessel Type | Bulk carrier, Chemical tanker, Gas carrier, Oil tanker and Other cargo ships **Flag** | Korea, Panama, Isle of Man, Marshall Island, Malta, Liberia, In-land (Korea)



HSE System

ISO 9001, 14001 | International Organization for Standardization Code
OHSAS 18001 | Occupational Health and Safety Management System
GMS CODE | Green Management System







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IT System

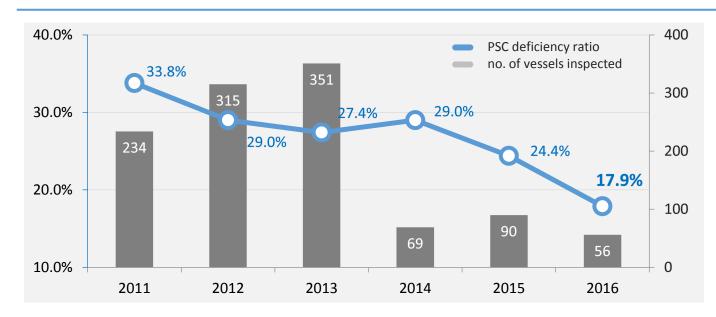
Ship Monitoring

Report

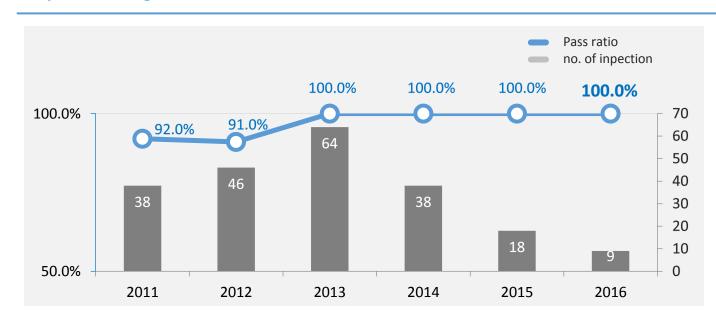
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PSC | Port State Control



Major Vetting | SIRE & CDI



SAFETY MANAGEMENT

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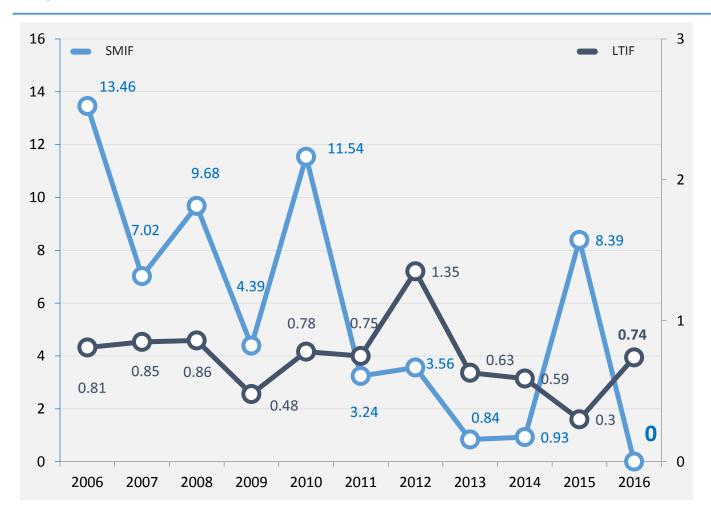
Ship Monitoring

Report

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Ship Accident | SMIF, LTIF



Number of accident in the last five years

	2013	2014	2015	2016	2017(1h)
No. of Ship Accident	0	0	4	0	0
No. of Crew Accident	2	1	10	3	1

SAFETY MANAGEMENT

Emergency Response

16



CONTRACTORS

REPAIRER **SALVAGE CLASS CLEAN-UP**



COAST GUARD



EMERGENCY RESPONSE COMMITTEE



Data collection Situation valuation Response measures



H&M INSURER P&I CLUB

OWNER

SHIPPER

CHARTERER



Contingency Plans & Drills



Initial Measure

D.P.

Initial

Report





Initial Report

MASTER **SHIPBOARD** EM'CY **RESPONSE** TEAM

PORT AUTHORITY



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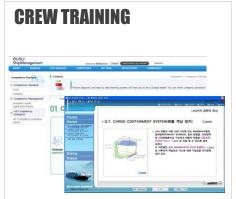
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- More efficient and economical ship management services enabled by sophisticated ship management system based on safe operation.
- Various sub-systems accommodating clients' demands in response to changing international regulations and the marine environment.



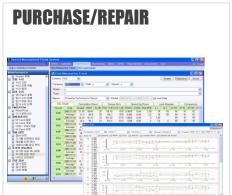
















SAFETY MANAGEMENT

Certificate

PSC & Vetting

Accident

Emergency Response

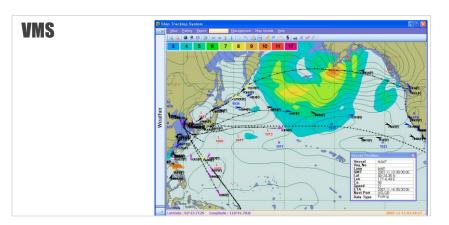
IT System

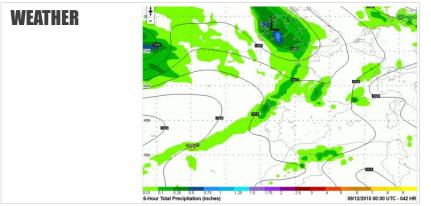
Ship Monitoring

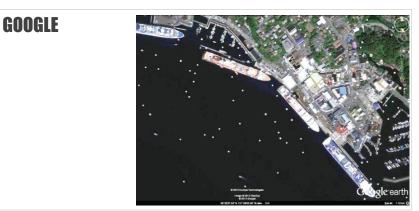
Report

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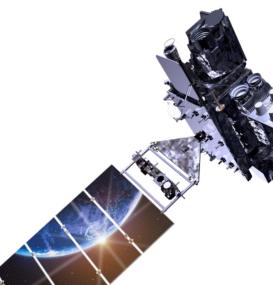






Voyage Monitoring
System & Weather
Forecast Services
providing optimal
navigation route for
Safe Operations 24/7

Operating Ship Route High-Risk Area Weather Forecast Communications



SAFETY MANAGEMENT

Certificate

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Emergency Response

IT System

Polling

Report

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SHIP OWNER

Monthly Report



Budget/Expenditure

Semi-Annual Report



Vessel Maintenance Report

OWNER PORTAL



Web-based

- Noon Report
- Vessels Positions

Irregularities Report



Vessel Abnormality

OPEX COMPETENCY 20

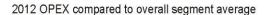


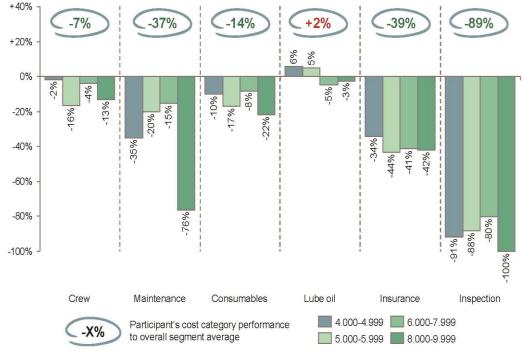
- GMS OPEX at a relatively low level compared to competitors
 - Crew 7%↓
 - Maintenance 37%↓
 - Consumables 14%↓
 - Insurance 39% ↓
 - Inspection 89% ↓

BCG(Boston Consulting Group) Survey(2013)

Hanjin's performance per cost category vs. Overall Average

Analyzed per cost category and compared to segment average





Cost category performance calculated as a weighted average Source: BCG Shipping Benchmarking Database 2013

Hanjin Report Master Model Powerpoint SBI 2013 v10 10 May .pptx

THE BOSTON CONSULTING GROUP

We provide a range of technical services to ship owners worldwide that include vessel inspections, lay-up management, dry dock support, repairs and newbuilding supervision





OVERVIEW

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Specifications Review to Delivery

G-MARINE SERVICE's shipbuilding experts on hull, structure, painting, machinery, piping, electrical, automation, cargo containment, and administration, follow the building schedule closely and attend inspections, tests, Factory Acceptance Test and sea trials.

Our site team has regular progress reviews with the shipyard to ensure that any slippage is followed up by a recovery plan. The detailed progress is closely monitored by the project management team and regular site visits are included.

The final ship documents and certificates are carefully reviewed and delivered. Regular progress reports are provided to the owner.

NEWBUILDING SUPERVISION Service Scope

Construction site Supervision



SUPERINTENDENTS

23



39 **Experienced Superintendents**

By fields

10 11 **Hull & Painting** Outfitting

18

Electricity &

Machinery

Engineering

Qualifications

Welding inspector(CWI / CSWIP 3.1)

- ■NDT specialist(ASNT NDT Level III)
- ■Paint Inspector(FROSIO Level III)
- ■Certified Engineering Shipbuilding
- Certified Industrial Engineering shipbuilding
- ■Bachelor's Degree in Naval Architecture & Ocean Engineering
- Master's Degree in Structural mechanics
- Chief Officer/Engineer in Vessel(Container/Bulk/Tankers /LNG/VLCC/MR)

By majors

Marine 11

+20 years 4

+ 10 years 16

By expe

Below 10 years

28

Maritime University (onboard experience)

EXPERTISE MATRIX

24





Personnel	Experiences	LNG	VLCC	Chemical	Containers	Bulkers	Basic Design	Hull	Machinery	Electrical	Outfitting	Coating	Cargo Contain- ment
JS Kim	28 yrs	•	•		•	•	•	•				•	
Capt. Jeon	17 yrs	•	•		•	•		•			•	•	
SH Kim	13 yrs	•			•	•			•	•	•		
Capt. Han	30 yrs	•									•		•
SM Kang	15 yrs	•			•	•		•					
KB Kang	6 yrs	•			•				•	•	•		
JM Lee	11 yrs	•			•	•			•	•	•		
MG Han	13 yrs	•	•	•	•	•	•	•			•	•	
OW Kwon	11 yrs				•	•			•	•	•		
IS Hwang	12 yrs	•	•		•	•	•						
BR Kim	32 yrs			•	•	•		•	•	•	•	•	
Capt. Choi	22 yrs				•	•		•			•	•	
Sung Kim	19 yrs				•	•		•			•		
WH Lee	11 yrs				•	•			•	•	•		
SH Park	16 yrs			•	•	•						•	
YT Kim	27 yrs	•	•	•	•	•	•	•			•	•	•
JY Jeon	12 yrs	•	•	•	•	•		•			•	•	
YC Choi	12 yrs	•	•		•	•			•	•	•		
KJ Kim	11 yrs				•	•			•	•	•		
JG Song	28 yrs	•	•	•	•	•			•	•	•	•	•
SY Byun	32 yrs	•		•	•	•	•						
SB Lee	34 yrs	•	•	•	•	•		•			•	•	
SG Shin	35 yrs									•			

PERFORMANCE RECORD
25



8 Japanese Yards
Hitach, Tsuneish, Mitsui

6 Vietnamese Yards

Hyundai -Vinashin

Chinese Yards

NTS, Jiangsu New Hantong, Zhenjiang

> 164 Korean Yards

HHI, SHI, DSME, Hanjin, Sungdong, Daehan, SPP, Oriental, Samkwang, Samwon, HKS, Kangnam

185
ships built/building under our supervision

		The second second					
Vessel Type	Completed	On-going	Vessel Type	Period	Ships	Owner	Yard
Container Carriers (1,100TEU ~13,000TEU)	84	-	LNGC (174,000 m²)	2015~18	2	K-LINE(UK) /Chandris	DSME
Bulk Carriers (27K~310K)	63	1	8000MT Training Ship	2015~18	2	Korea Maritime Univ.	Hanjin
Crude Oil Carriers (VLCC)	1	-	5200MT Training Ship	2015~17	1	Gov't Crew Training	Hanjin
LNG Carriers (130,000 m² ~ 174,000 m²)	6	2	1380MT Fishing Training	2016~18	1	Gov't Crew Training	Samwon
MR Product Carriers	3	-	Ship				
Coal Carrier	3	-	Diving Support Ship	2016~18	1	Korea Coast Guard	HKS
Heavy Duty Carrier	1	_	Patrol Ship	2016~19	5	Korea Coast Guard	Hanjin
Special Purposed Ship	4	17	Fishing Support Ship	2017~19	7	Korean Government	Daehan, Daesun, HKS
TOTAL	165	20	15K SUCC	2017~18	1	JK Maritime	Zhenjiang
1972							

We build your ships with the sense of Ownership

OUR CLIENTS

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SHIP EQUIPMENT

As a ship manager, We offer you with the best we know.





EQUIPMENT SALES

SCRUBBER

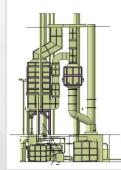
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It is the best way to install scrubber for vessels to meet MARPOL SOx regulation by the vear 2020. Scrubber is a system that is designed to by the use of water wash the exhaust gases from main, auxiliary and boilers to remove sulfur dioxide (SO2) which is a toxic gas, that is directly harmful to human health. There different designs in the market today however they could be divided into two categories, open and closed types. Power consumption of operating a scrubber system is typically between 1-2% of main engine power.

CUSTOMIZED

Most of scrubbers are cylindershaped which occupying a lot of space on board. However, KWANGSUNG's scrubber can be made for each vessel's condition so that you can load as many as cargo.



Rectangularshaped scrubber is qualified and proven by KWANGSUNG.

HIGH-PERFORMANCE

Air Pollution Treatment Expert

KWANGSUNG

As a result of shop tests, the output of SOx is far less than 0.1% (0.05% actually) that meets the regulation on ECA.

The CFD

analysis
shows that
the back
pressure is
less than the
cylindershaped
one.

MATERIALS



Most parts of the system are made of S31254 (SMO254) that is the most anti-corrosive one. Welding quality is one of the important thing for its durability and the most of welders have ASMF license.

EQUIPMENT SALES

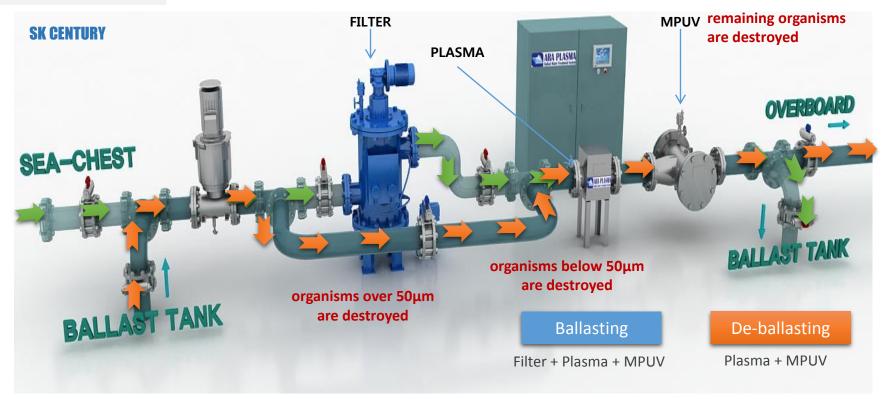
BWTS

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Ballast Water Treatment System (BWTS) is a system designed to remove and destroy/inactive biological organisms from ballast water. Ballast water treatment is still evolving technology with an ever-growing number of manufacturers. This means that there is limited in-service experience for the systems being offered and there is a general understanding that no single system is suitable for all ship types.

We are sales agent of **SK CENTURY, SHI and AQUASTAR**, Korean representative BWTS manufacturers. We provide you with the whole service from price estimation to installation.



THANK YOU

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