For the Successful installation, we provide the most reliable retrofit solutions.

Our Advantages

- Effective total installation cost and time
- Experience for the various system and retrofit installation
- No using the engineer outsourcing
- Exact analysis consulting data





Retrofit Engineering for **Ballast Water Treatment & SOx Scrubber**

PanStar TechSolution

PanStar TechSolution

PanStar TechSolution core business is Ballast Water Treatment and SOx Scrubber Retrofit Engineering. Our specialist team of engineers, technicians and sales people assist shipyards and ship-owners world-wide. All staffs have experience in the maritime industries, knowing the challenges and needs of our customers. PanStar TechSolution has the competence to provide technology from conceptual ideas to fully engineered solutions.

Our Retrofit Solutions

Being operated the highly experienced engineer with qualified skills.Possessing 3D Scanner & Reverse engineering program for retrofit design.Providing the accurate design through on board inspection & 3D laser scanning.Providing detailed design level can be saved the installation cost and time.

Installation Considerations of BWTS & SOx Scrubber

System Lead-time CAPEX & OPEX Operation After-Service

Timeline Construction place Installation environment and period Installation Space Maintenance space Equipment moving route Power consumption

Engineering 3D reversing technology

Drawing technology Experience of Installation



Our Services

Consulting Service

We provide consulting report which is analysed the considering various factors that occur during the Ballast Water Treatment System and SOx scrubber's installation.

Technical Specification of System Alteration items of the ship according to installation of System Installation position of System Material and other equipment for System Management factors for operation of System

Engineering Service for Installation

We have the competence to provide technology from conceptual ideas to fully engineered solutions for the successful the Ballast Water Teatment System and SOx scrubber's installation.

Preliminary Inspection with 3D scanning Reversing through 3D data and detail drawing with drawing approval Installation with supervision Onboard test with witnessed by class surveyor Crew training



General Installation Process



On board survey



3D laser scanning



To reverse the 3D data BWTS Retrofit Proposal for "MV XXX"



To submit the engieering report



To submit the detailed drawing & drawing approval



Pipe Spool Fabrication

PanStar TechSolution Co., Ltd.







Installation & Supervision



Commissioning