

About GMS

Global Marine Service Co., Ltd "GMS" has accumulated many experiences and technology in the fields of ship, offshore and power plant. These are our priceless property and core competence to achieve our vision "Global Total Marine & Power Plant Service Leader".

Our employees and engineers with accumulated expertise try to satisfy customers' needs through one stop solution which provides engine spare part service, equipment supply and engineering service for ship and power plant.

We guarantee you that our service saves your time and effort.

Vision

Global total service provider in the fields of Marine, Energy, Industry through value management for the customers' business.

Mission

One Stop Solution

Zero Defect Quality Production

Corporate culture that challenges new environment



History

- 2018** Registered authorized part sales & maintenance agent from STX engine & STX Heavy Industries
Get Certificate - ISO9001, ISO14001, OHSAS18001
- 2017** Change company name to "Global Marine Service Co., Ltd"
- 2016** Get Certificate of "Venture Company"
- 2015** Marine Main Engine Part Ass'y (CMA CGM)
IRAQ 900MW Diesel Power Plant O & M contract expired
Subcontractor Registration (Samwoo Heavy Industries Co., Ltd)
Subcontractor Registration (Sungdong shipbuilding & offshore)
Subcontractor Registration (HYUNDAI Engineering & Steel Industries Co., Ltd)
- 2014** Subcontractor Registration (DSME)
Sailing Repair contract (CMA CGM / via STX Marine Service)
IRAQ 900MW Diesel Power Plant O & M contract
Subcontractor Registration (STX Heavy industries Co., Ltd)
- 2013** Subcontractor Registration (STX ship building & offshore, Forcetec, Gosung Shipbuilding)
Establishment of "SM Tec"

Business Scope

Spare Parts Service

- » Engine Spare Parts
- » Ship Spare Parts
- » Equipment & MRO

Technical Service

- » 2-Stroke Engine
- » 4-Stroke Engine
- » Equipment
- » Automation
- » Retrofit (SOx Scrubber & BWMS)

Marine & Offshore Service

- » Commissioning
- » Reconditioning
- » Maintenance
- » Overhaul

Power Plant Service

- » Operation and Maintenance
- » Performance Recovery
- » Technical Support
- » Installation and Commissioning



Organization

| | | | | |
|--------------------|------------------------|----------------------|---------------------|---------------------|
| SPARE PART SERVICE | TECHNICAL SERVICE | EQUIPMENT & MRO | LOGISTICS | ADMINISTRATION |
| SALES TEAM | MARINE & OFFSHORE TEAM | EQUIPMENT SALES TEAM | WAREHOUSE | FINANCE / ACCOUNT |
| MODULE TEAM | POWER PLANT TEAM | PURCHASING TEAM | MATERIAL MANAGEMENT | HR / ADMINISTRATION |
| | FIELD SERVICE TEAM | | | |
| | ENGINEERING TEAM | | | |

SPARE PART SERVICE

Agent of STX Engine & STX Heavy Industries

GMS is an authorized part sales agent of STX engine and STX Heavy Industries, we have provided high quality of genuine spare parts for Main Diesel Engine and Generator Engine.

We have large amount of diesel engine spare parts in our warehouse and our sales and logistic teams try to do our best to satisfy valued customers through high quality products and on-time delivery.



INVENTORY

| | | |
|--|-------------|---|
| | LOCATION | GANGSEO-GU, BUSAN, KOREA |
| | AREA | 1,650m ² |
| | STOCK ITEMS | STOCK FOR ENGINE & TURBO CHARGER SPARES |



ENGINE SPARE PARTS

- » Two & four Stroke Diesel Engine
- » STX-MAN Turbocharger
- » Propeller, Shaft and Rudder Stock



Diesel Engine

| 2-Stroke Engine | 4-Stroke Engine | | |
|-----------------------------------|-----------------|--------------------|-------------|
| | STX-MAN B&W | STX-MAN B&W HOLEBY | |
| | | MARINE | POWER PLANT |
| 35MC (ME-C, ME-B) | L16/24 | V28/32 | |
| S46MC-C (ME-B) | L23/30 | 34LHX | |
| L/S/K/G50MC-C (ME-C, ME-B, ME-GI) | L23/30H | | |
| L/S/K/G60MC-C (ME-C, ME-GI) | L27/38 | | |
| L/S/K/G70MC-C (ME-C, ME-GI) | L28/32(H) | | |
| L/S/K/G80MC-C (ME-C, ME-GI) | L32/40(V) | | |
| L/S/K/G90MC-C (ME-C, ME-GI) | | | |
| L/S/K/G98MC-C (ME-C) | | | |

Turbo Charger

| FOR LARGE SIZED ENGINE | | FOR MEDIUM SIZED ENGINE | |
|------------------------|---------|-------------------------|--------|
| NA34/T7 | NA34/T8 | NR15/R | NR20/R |
| NA34/S | NA40/T7 | NR12/S | NR14/S |
| NA40/T8 | NA40/S | NR17/S | NR17/S |
| TCA55 | TCA66 | NR20/S | NR24/S |
| TCA77 | TCA88 | NR24/S | NR29/S |
| | | TCR12 | TCR14 |
| | | TCR16 | TCR18 |
| | | TCR20 | TCR22 |



MODULE SERVICE

Cylinder unit

Cylinder unit basically consists of cylinder head, piston, con-rod, cooling jacket and cyliner liner. It can be replaced in a short time after on-time delivery according customer's schedule as these are assembled on the workshop.

It spends a considerable time and occur safety accident during individually changing spare parts or modification after 32,000 hour running time of diesel engine for marine, offshore and power plant. Furthermore, some vessels such as container ships have a short entry/departure time and these vessels can not spend long hours to receive repair and maintenance service.

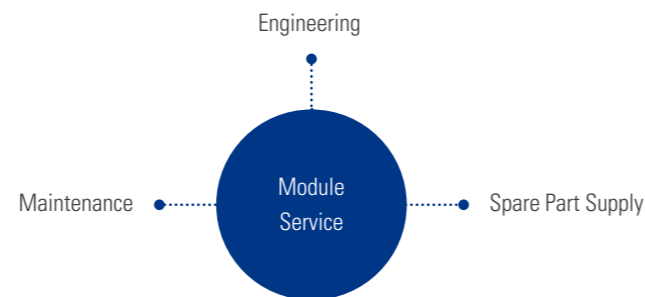
We have developed and had a patent of assembly of a diesel engine cylinder unit.

Benefit of cylinder unit

- » Time-saving
- » Cost-saving
- » Safety accident Prevention
- » Easy modification

Process of Module Service

1. Consultation between our engineer and a customer
2. Preparation and Inspection of spare parts
3. Assembly cylinder unit
4. Record of assembly process and paper-work
5. Supply a cylinder unit, and if required, engineer attendance with the cylinder unit



TECHNICAL SERVICE

2-Stroke Engine

- » Alpha lubricating upgrade service solution
- » IMO Tier 1 modification 2S engines 1990 -2000 pre 2000
- » Upgrade of service solution as Low Load Operation
- » Engine Recovery Service
- » Engine Performance Measurement and Evaluation-CoCoS
- » Fuel pump service (Valves, Seats, Plunger and Timing)
- » Software Upgrade
- » Re-tuning, De-rating

Crane

- » Crane recovery service

Automation

- » BMS & AMS system service and upgrades
- » Navigation equipment upgrade
- » STX automation product upgrade
- » OMD upgrade solution

4-Stroke Engine

- » Engine Recovery Service
- » Engine Performance Measurement and Evaluation
- » Scheduled Overhauls
- » Heavy Fuel Conversion, HFO Units Installation
- » Engine Controls Software Upgrade
- » Laser Shaft Coupling

Machinery

- » Structural welding repair
- » Reconditioning service cooperation
- » Measuring Emission
- » Torsional vibration measurement and layout calculation

Propulsion

- » Propulsion service cooperating with BERG
- » Propulsion automation service and upgrade



MARINE & OFFSHORE SERVICE

Engine Service

Commissioning Service Scope

- Shop Trial, FAT (Factory Acceptance Test)
- Installation Supervision
- Mechanical & Electrical Commissioning
- Sea Trial and Maiden Voyage Attendance
- Trouble Shooting and Performance Evaluation

Engine Service Scope

- Engine Maintenance
- Workshop Component Maintenance
- Engine Performance Optimizing Service
- Environmental Retrofit Service
- On-board Disassembly / Assembly

Reconditioning

Reconditioning – 2 & 4 Stroke Engines

- Cylinder Cover
- Exhaust Valves
- Piston Crowns
- Piston Rod, Con-rod

Reconditioning of Injection Parts

- Fuel Pump & Components
- Relief Valves, Starting Air Valves

Overhaul of Liners

- Honing of Liner : Cylinder of 2 & 4 Stroke (from 160mm till 1,100mm)
- Wave Cutting (from 500mm till 1,100mm)

Offshore Service

Commissioning

- Mechanical Completion Control
- FTR & Commissioning
- Worldwide Service & Support
- Technical Advice & Manning Service

Maintenance

- Containerized Maintenance Exchange Program (Swing Set)

Offshore Management

- Operation and Maintenance
- Offshore vessel management
- Troubleshooting
- Performance Verification
- Inventory Control
- On-board Crew Manning & Training



POWER PLANT SERVICE

Operation and Maintenance Service

Our experienced and qualified engineers and staff will be your reliable source when it comes to high quality Operation and Management.

- Daily operation by experienced and qualified technicians
- Scheduled and unscheduled accurate maintenance
- Managing risk and decision at the right time for system
- Supply chain for various products of power plant
- Timely part supply via the global network
- Full O&M / Advisory O&M

Technical Support and Training

We will be on hand to provide troubleshooting from any plant facilities. Furthermore, theoretical courses and on-the-job trainings are available for all equipment.

- On / Off-line Technical Support
- Supervision and Knowledge Transfer
- Comprehensive Training Program

Installation and Commissioning

We provide installation and commissioning support to ensure the integrity of the facilities during a startup.

- Preventive Inspection
- Assistance during startup phase

Performance Recovery & Plant Retrofit

We improve performance of deteriorated facilities status and provide services for life extension via scientific inspection.

- Retrofit Facilities
- Non-functioning Facilities back to Commercial Operation Status
- Performance Improvement

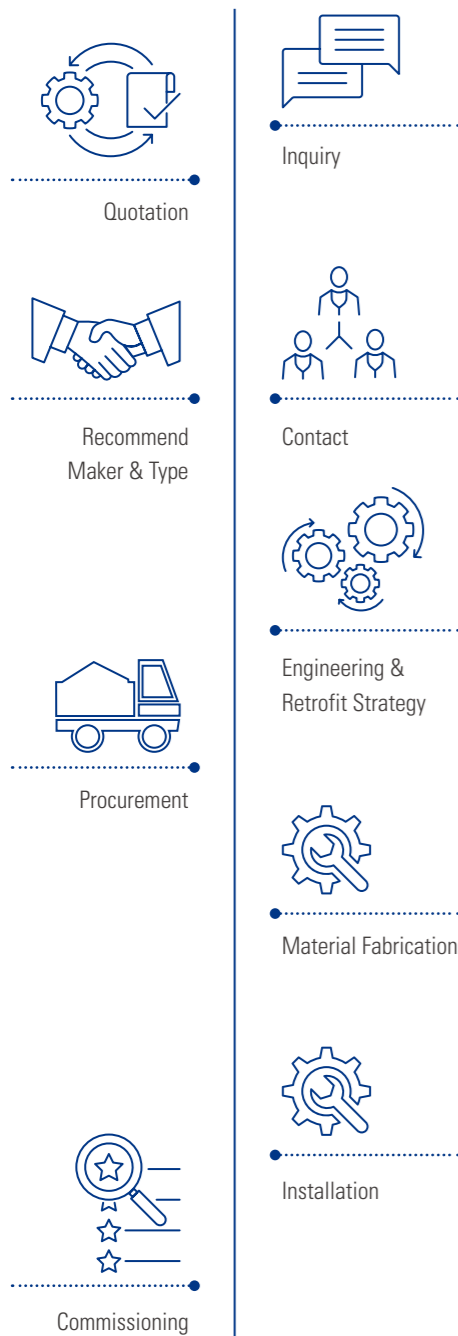
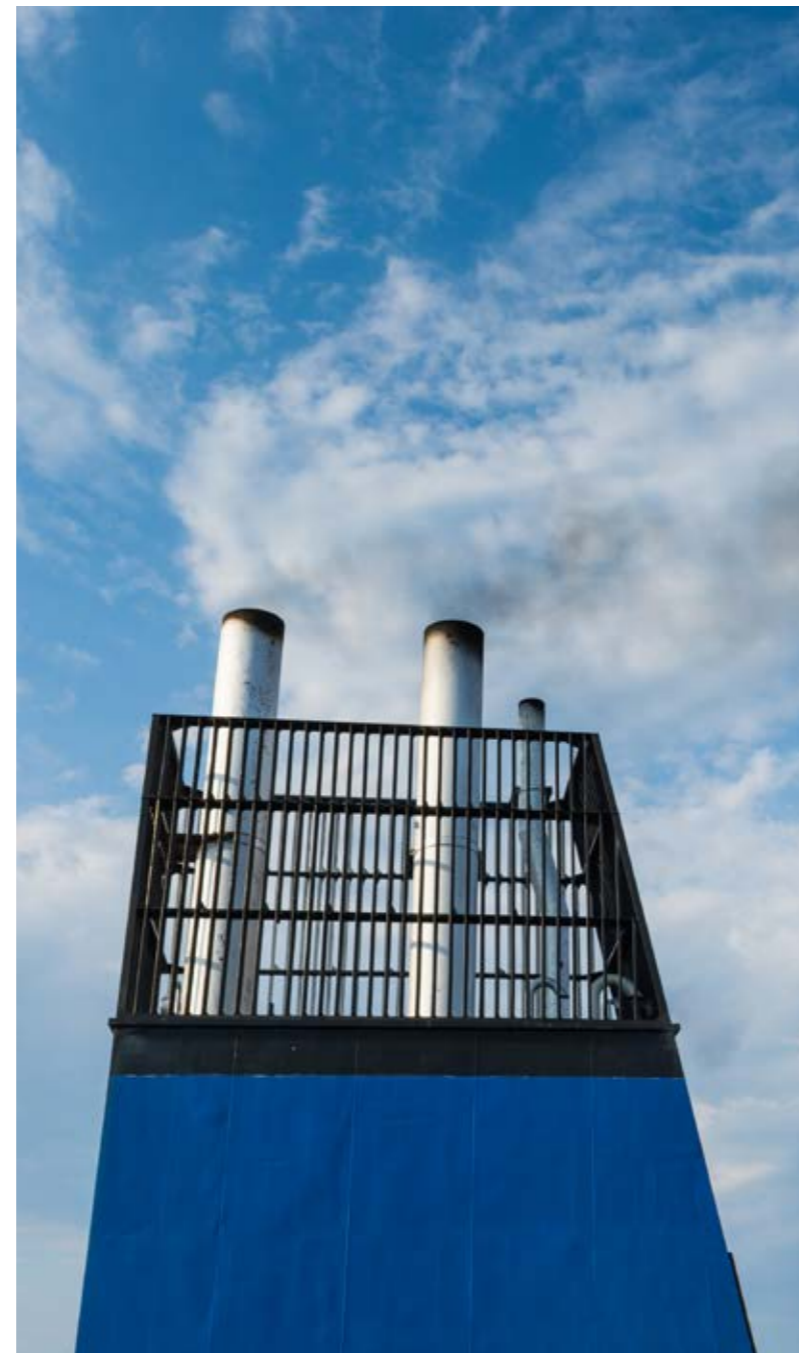
ENVIRONMENT

SOx Scrubber Retrofit

GMS provides SOx Scrubber Retrofit solution in response to IMO's sulfur cap for all kinds of vessels providing the total solution which includes the feasibility study, retrofit engineering, procurement, installation and commissioning in a package.

BWMS Retrofit

GMS provides the best solution for the BWMS retrofit for all kinds of vessels providing the total solution which includes the feasibility study, engineering, procurement, installation and commissioning in a package.



EQUIPMENT & MRO, SHIP STORE

Equipment

We can provide various machinery made in Korea.

| | | | | | |
|---|--|---|--|--|---|
| PURIFIER HEAT EXCHANGER BOILER(ALLBORG) | BUTTERFLY V/V CRYOGENIC GLOVE V/V GATE V/V | FLOWMETER VISCOSITY CONTROLLER | ICCP MGS SHAFT EARTHING DEVICE | AIR DRYER WATER FOUNTAIN U.V. STERILIZER | LIGHTING FIXTURES REEFER CONTAINER SOCKET |
| AIR COOLER HEAT EXCHANGER FRESH WATER GENERATOR | AIR COMPRESSOR | DECK & PROVISION CRANE E/R OVERHEAD CRANE HOSE HANDLING CRANE | BILGE SEPARATOR BILGE ALARM OILY WATER SEPARATOR | WHISTLE COMPASS FIRE DETECTION SYS. | CRANE LIFE BOAT DAVIT & WINCH |
| HYD. TOP BRACING INCINERATOR STERN TUBE BUSH UNIT | CRANE (E/R, DECK, HOSE HANDLING) | OILY WATER SEPARATOR | AIR CONDITION REFRIGERATOR AIR FLOW SYSTEM | AIR MOTOR / WINCH CAPSTAN & FIRE WIRE REEL SMALL DAVIT | OIL PURIFIER CATHODIC PROTECTION |
| CONTROL BOARD CONVERTER SIGNAL LIGHT | AUX. BLOWER INCINERATOR SLUDGE PUMP | SEWAGE TREATMENT FRESH WATER GENERATOR PURIFIER | BUTTERFLY VALVE FLOW CONTROL | AUX. BLOWER VENTILATION FAN | CRANE LIFE BOAT DAVIT & WINCH |

MRO & Ship Store

We can provide on-boarding service of MRO and Ship Store.



ONE WAY SOLUTION

GMS



ISO 9001
ISO 14001
OHSAS 18001

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