

Business Scope

STX Offshore & Shipbuilding

STX Heavy Industries

STX Europe

STX Engine

STX Metal

STX Dalian

STX Pan Ocean

STX Corporation

SHIP BUILDING·MACHINERY

SHIPPING·TRADING



ENERGY

STX Energy

STX Corporation

STX Solar

PLANT·CONSTRUCTION

STX Construction

STX Heavy Industries



STX service

- Marine Service
- Power Service
- Construction Service
- Spare parts Service
- Environmental Service
- Training Service

Marine Service



Ship Service

We provide qualified repair, maintenance and efficient solutions for variety of vessels, deck machineries, auxiliary equipments and continuously develops for all of possible customer needs.

- Hull repair / Piping work
- Steel work
- Modification for vessel structure
- Engine structural repair
- Deck machinery repair
- Hydraulic driven cargo pump repair
- Auxiliary equipment repair
- SOLAS modification
- Spare part delivery service for Deck machinery & Auxiliary equipment



Engine Service

We provide qualified engine services for STX and other engine and cover spare part, field service, technical support, upgrade service of conversion, safety, etc.

We are aiming to provide high qualified service with reasonable cost for customer.

Engine service group

- STX 2&4 Stroke Engine
- Non-STX 2&4 Stroke Engine
- Gas Engines for Power Gen-Set

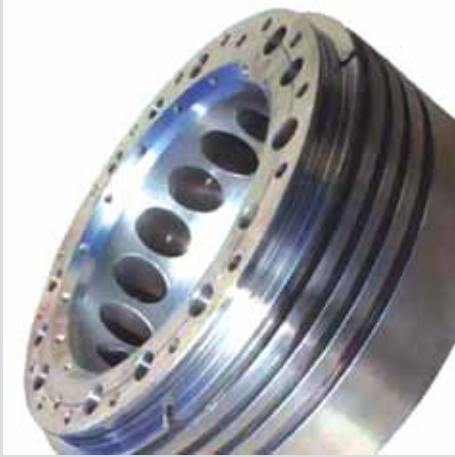
Commissioning service scope

- 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 modification
- Engine performance optimizing service
- Environmental retrofit service
- Warranty service handling
- On-board dis-assembly / assembly

Marine Service



Reconditioning Service

We provide reconditioning service for variety of exchanging components in all units, which enables customer to take a reconditioned part on board while his vessel is berthed and returned the old part to the reconditioning center.

Reconditioning

- Cylinder Cover, Cylinder Head
- Crankshaft
- Piston crown
- Piston Rod, Con-rod
- Stuffing Box

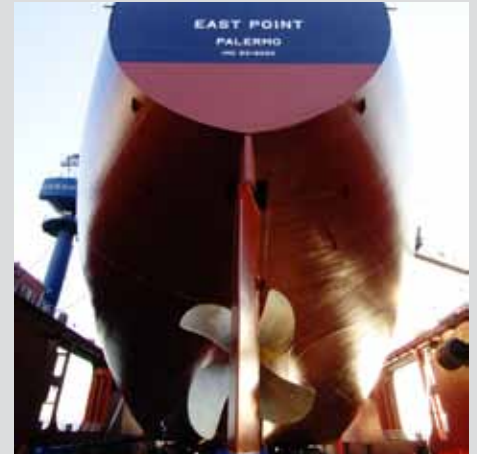
Reconditioning of Injection parts

- Fuel pump & Components
- Relief valves, Starting air valves

Restoring of liner

- Honing of liner : Cylinder of 2 & 4 stroke (from 160mm till 1,100mm)
- Wave cutting (from 500mm till 1,100mm)

Re-metaling of Bearings



Propulsion Service

We provide all kind of maintenance and fitting service for a wide range of propulsion equipment on many kinds of brand.

Propulsion services scope

- All types of field service activities
- Propeller modifications
- Metallurgical propeller repairs
- Retrofit of propulsion systems
- Spare parts
- In-house overhauls
- Seals and bearings repair, retrofit

Bow thrusters

- Operation support
- Repair service / Trouble shooting

Propellers

- Propeller & Blade fitting
- Propeller hub overhaul
- Shaft alignment & Jack-up test

Propeller control

- Wichmatic control system
- Lipstronic control system

Seal and Bearing

- Stern tube overhaul
- Stern tube sealing ring bonding

Power Service



Prime Mover Service

We provide qualified operation, maintenance, repair service for power plant.

- Engine operation and maintenance
- Steam turbine operation and maintenance
- Gas turbine maintenance
- Performance upgrade
- Quality inspection

Automation Service

We provide advanced electric & electronic maintenance and repair service for power plant electric facilities.

- Inspection service - Full, Operation, Condition, Specific system, Electrical site
- Measurement service - Generator condition, Medium voltage
- Analysis service - Power plant, Grid
- Agreement - Operation, Maintenance, Technical support
- AMS and Control systems
- Governor Service
- Pneumatic Service

O&M Service

We manage all aspects of operating and maintaining an installation.

- Daily operation
- Scheduled and unscheduled maintenance
- Safety stock and tools
- Logistics management and security
- Technical support
- Planning and administration
- Recruitment and training of personnel

Construction Service



Construction Service

We are expanding to build many global construction projects in the world including specific, unique service.

- Commissioning service for machinery of installation & operation
- Maintenance service for built infrastructure
- Upgrade & retrofit service for machinery & facility
- Technical support to operate infrastructure
- O&M service for global construction sites
- Spare part service for machinery in construction site

Automation Service

We provide advanced electric & electronic maintenance and repair service for built in electric machinery & facility.

- Power plant for operated in site
- Machinery & facility in site
- Housing electrical maintenance
- Resort electrical maintenance

Spare parts Service



Spares parts Service

We supply full range of spare parts, tools and consumables for variety of product type of all STX engines, as well as auxiliary and propulsion systems throughout the product lifecycle to meet customers needs.

There are two main warehouses in Korea, Netherland, as well as global spare part agency's stock.



Marine

- Engine spare parts (STX & Non-STX Engine)
- Turbocharger
- Ships spare parts (Deck & Auxiliary Machinery)
- Reconditioning parts (Tools & Consumption parts)
- Propulsion spare parts
(Propellers, Bow thrusters, Seals & Bearing...)
- Electrical parts

Power plant

- Electrical & Machinery parts
- Reconditioning parts (Tools & Consumption parts)

Construction

- Construction electrical & machinery parts
- Reconditioning parts (Tools & Consumption parts)

Environmental

- Windmill parts(Electrical & Machinery)
- Solar power parts(Electrical & Machinery)
- Reconditioning parts (Tools & Consumption parts)

Warehouse

- South Korea
- Netherland

Environmental Service



Environmental Service

In order to cope with the greenhouse effect and United Nations Framework Convention on Climate change, we are doing our best to improve and supply the related technology to wind power system.

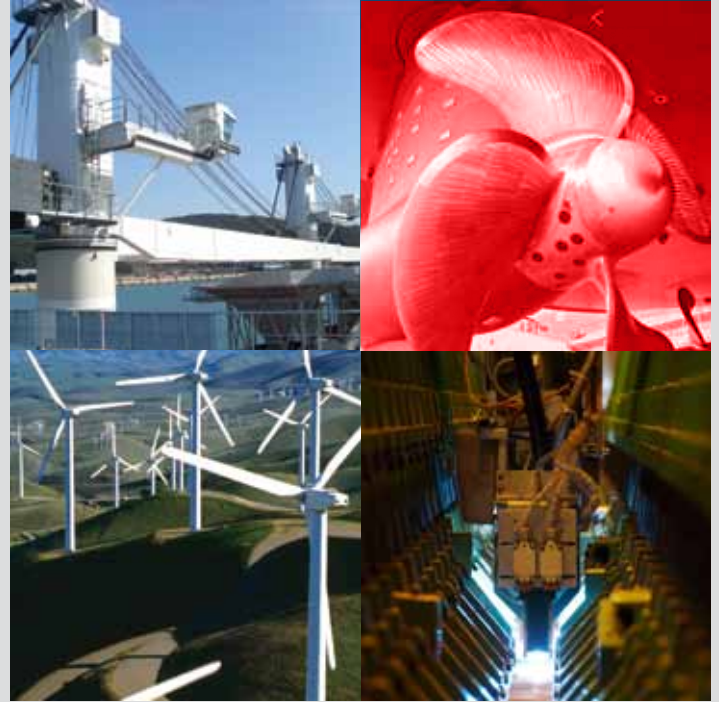
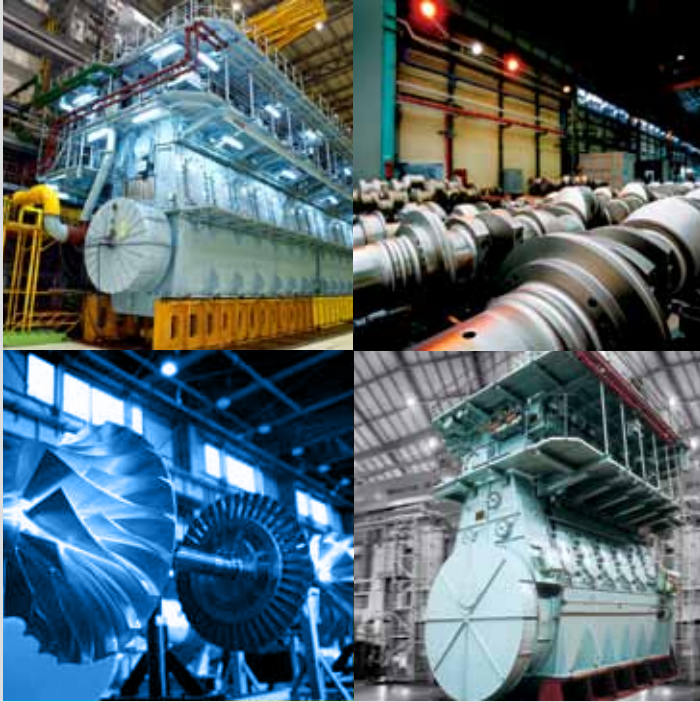
Windmill service

- Replacement rotor
- Maintenance for Yaw system
- Maintenance for Gear box
- Maintenance for Brake system
- Repair and maintenance for generator, controller, sensor, lighting

Solar energy is a natural fuel and is infinite and clean and does not produce contaminated exhaust gas.v

Solar

- Replacement solar cell
- Maintenance for charge controller
- Maintenance for Invertor
- Repair and maintenance for generator, battery



Upgrade kit

• 2-Stroke Engine

- Alpha lubricating upgrade service solution
- IMO Tier 1 modification 2S engines 1990 - 2000 pre 2000
- IMO Tier 2 modification 2S engines
- Low load operation upgrade service solution
- Engine recovery service due to trouble
- TC Cutout upgrade service solution
- Engine performance measurement and evaluation-CoCoS
- Fuel pump service (Valves, Seats, Plunger, Timing)
- Software upgrades
- Re-tuning, De-rating

• 4-Stroke Engine

- Engine recovery service due to trouble
- Engine powerplant service and evaluation
- Engine performance measurement and evaluation
- Scheduled overhauls
- Heavy Fuel conversion, HFO units installation
- Engine controls software upgrade
- Laser shaft coupling

• Crane

- Crane recovery service

• Automation

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

• Contracts

- M-agreement contact

• Machinery

- Structural welding repairs
- Reconditioning service cooperation
- Measuring Emissions
- Torsional vibration measurement and layout calculation

• Propulsion

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

Training Service



Training center

STX training center has state of engine component hands-on equipments and simulators covering STX engine control system and products and new products and services are added to the offering to customers.

Lecture training

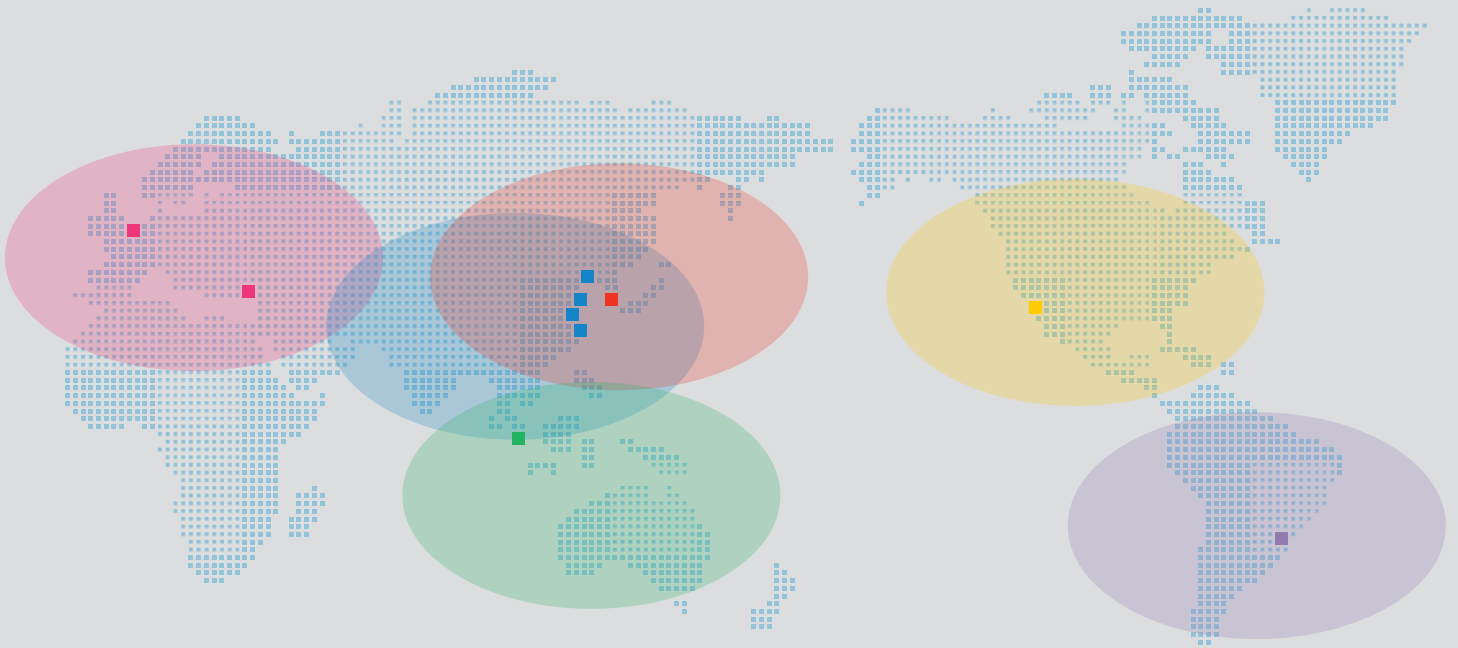
- 2 & 4 Stroke lecture training

Hand-on training

- 2 & 4 Stroke mechanical engineering practical training

STX Global Networks

Besides the STX Service Center Global Networks, STX Business Group Networks can be utilized organically to carry out work effectively. We can handle work for our customers in an increasingly active and prompt manner by leveraging our STX Business Group Global Network in 140 countries around the world.



Headquarter

Korea Head office and workshop

China service center

- Shanghai
- Ningbo
- Wuxi
- Dalian

Europe service center

- Netherlands

Singapore service center

Brazil service center

Authorized service station

- USA
- Turkey

stx

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