



Parts and Service Solutions

We are specialized on modular auxiliary systems supporting large diesel engines within the shipbuilding and diesel power plant industry. Auxiliary modules supply the engine with all relevant mediums such as fuel oil, lube oil, cooling water and others. Our team of engineers works closely together with all mayor engine makers, shipyards and shipowners.

The proper function of the auxiliary modules is essential for a safe and economic diesel engine operation. The systems are in daily 24 h operation and it is important to maintain and service them professionally. No matter if you need a simple spare part or you need support for a mayor repair work we can assist you with our workforce and engineering capabilities. Warranty and maintenance contracts will help you to save cost over the lifetime of all auxiliary equipment.

Furthermore we will support you if you need to install new systems on your fleet such as ballast water treatment systems. After a 3D analysis in our design department we will assist you with our service technicians to carry out the installation job during normal vessel operation.

Some examples of our Service Capabilities.

Spare Parts and Components

We deliver all spare parts installed on auxiliary modules such as gaskets, filter inlets, valves etc. As we have longterm contracts with all mayor component suppliers we can offer you competitive pricing and shortest delivery time.



Module spare parts

Please ask us to quote for following components:

- ▶ Pumps
- ▶ Filters
- ▶ Viscosity sensors
- ▶ Valves

Viscosity Control Systems

We offer a complete retrofit package to exchange older capillary type viscosity sensors with maintenance free pendulum-type sensors. Within a few hours the new system can be installed without any piping work.

Viscosity Upgrade Package:

- ▶ Sensor + adapter
- ▶ Control valve for heating medium
- ▶ Electrical control cabinet
- ▶ New heatexchangers (if required)



Sensor upgrade installed on a 4.500 TEU container vessel

Benefits:

- ▶ Plug and Play solution including adapter
- ▶ No Re-Calibration needed
- ▶ Minimum maintenance required



Control cabinet of viscosity sensor

Filter Service

Filtration is one of the most critical components to protect your engine. In co-operation with leading filter manufacturers we can carry out mayor repair jobs. Furthermore we offer upgrade solutions to latest automatic filter technology.



Seatrial and Comission Service

Our team of service technicians will assist you during seatrial and commission work. Furthermore we have a Training Program for your Engineers and Crew. The training can be carried out on board your vessel or within our training center.

Pump Upgrade

Some older mechanical sealed pumps have leakage problems and they are not prepared to run on MGO fuels for a longer period. We offer a pump upgrade package to magnetic coupled pumps.

Benefits:

- ▶ No leakage
- ▶ Reduced maintenance
- ▶ Safe operation on low sulfur MGO



Leakage on pumps with mechanical sealing



New pumps with magnetic coupling

Electrical Control Services

With our in-house electrical department we are able to offer you complete hardware solutions and we have electrical consulting capabilities in the area of auxiliary systems.

Extended Warranty Agreements

After the standard shipyard warranty period we offer you to extend the warranty of our modules. We will come on board and carry out an inspection. If needed we will exchange wear parts.

With positive inspection results and after a final system check we will offer you an Extended Warranty.

Heatexchanger Service

On several vessels we have upgraded plate type heatexchangers. The upgrade to new shell and tube heatexchangers will be carried out on board without disturbing your ship operation.

Benefits:

- ▶ Ship safety
- ▶ Reduce risk of mixed fuel oil and heating medium
- ▶ More heating reserve gives you more flexibility on different HFO type



Before: with old plate type heaters



After: with new shell & tube heaters

Engine Room Design Service

Since many years we work together with a shipdesign office and have carried out several consulting jobs to improve engine room design.

Please contact us for any service which you need.

info@gensysgroup.com



New installation: 2 shell & tube heaters