

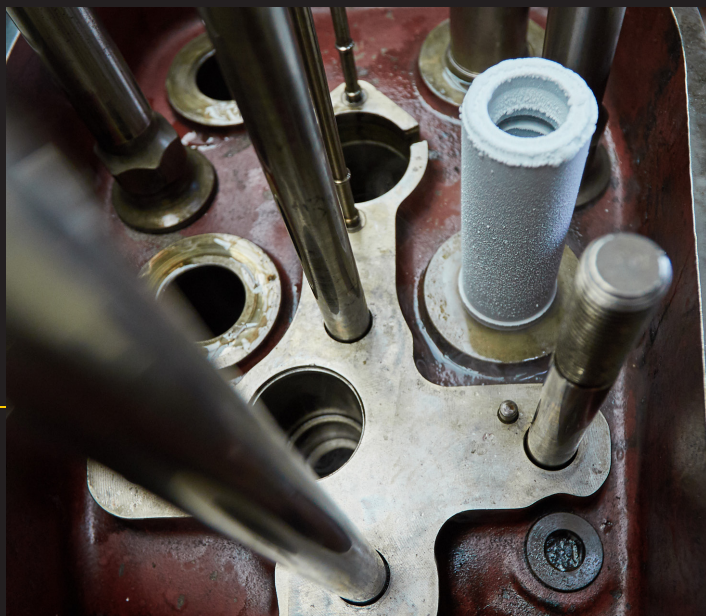


**Phoenix-Poland Engine Services** is a trusted partner to hundreds of Ship Owners/Managements that depend on us for parts, and support. These days, Phoenix-Poland is truly global. If an emergency arises, squads of Phoenix-Poland engineers can be mustered and dispatched in a matter of few hours to the most remote and forbidding corners of the world, to help your company avoid the high costs of unexpected downtime. Whether you need repair, machining or reconditioning, or retrofitting and rebuilding, Phoenix-Poland provides service you can count on.



## Highlighted services:

- 4-stroke and 2 stroke engines repairs and overhauls - we are certificated by many engines and gears makers
- Troubleshooting/diagnostic services
- On-board and workshop inspections and renovation of engine components:
  - Cylinder heads
  - Cylinder liners
  - Pistons
  - Connecting rods
  - Valves
  - HT and LT water pumps
  - Oil Pumps
  - Charge Air Coolers
  - Oil Coolers
  - Safety, starting and Distribution valves
- Mobile and workshop machining, including in-situ works
  - Grinding of valves and valve seats
  - Honing of cylinder liners
  - Machining of cylinder heads
  - Machining of cylinder liner landing surface
  - Crankshaft inspection and renovation
- Crankshafts and engine blocks replacemnt
- Fuel system renovation, fuel pumps and injector valves
- Disassembly and assembly of auxiliary engines, with complete connection services
- Performance adjustment, injection timing, etc
- Electric/electronic servicing and troubleshooting services
- Turbocharger service – balancing
- Marine Engines Technical Management
- Spare parts for different types of engines
- Welding services by class certified fitters for pipes, tanks and other areas of the ship







Phoenix-Poland workshop is manned by **highly trained personnel** with years of experience.

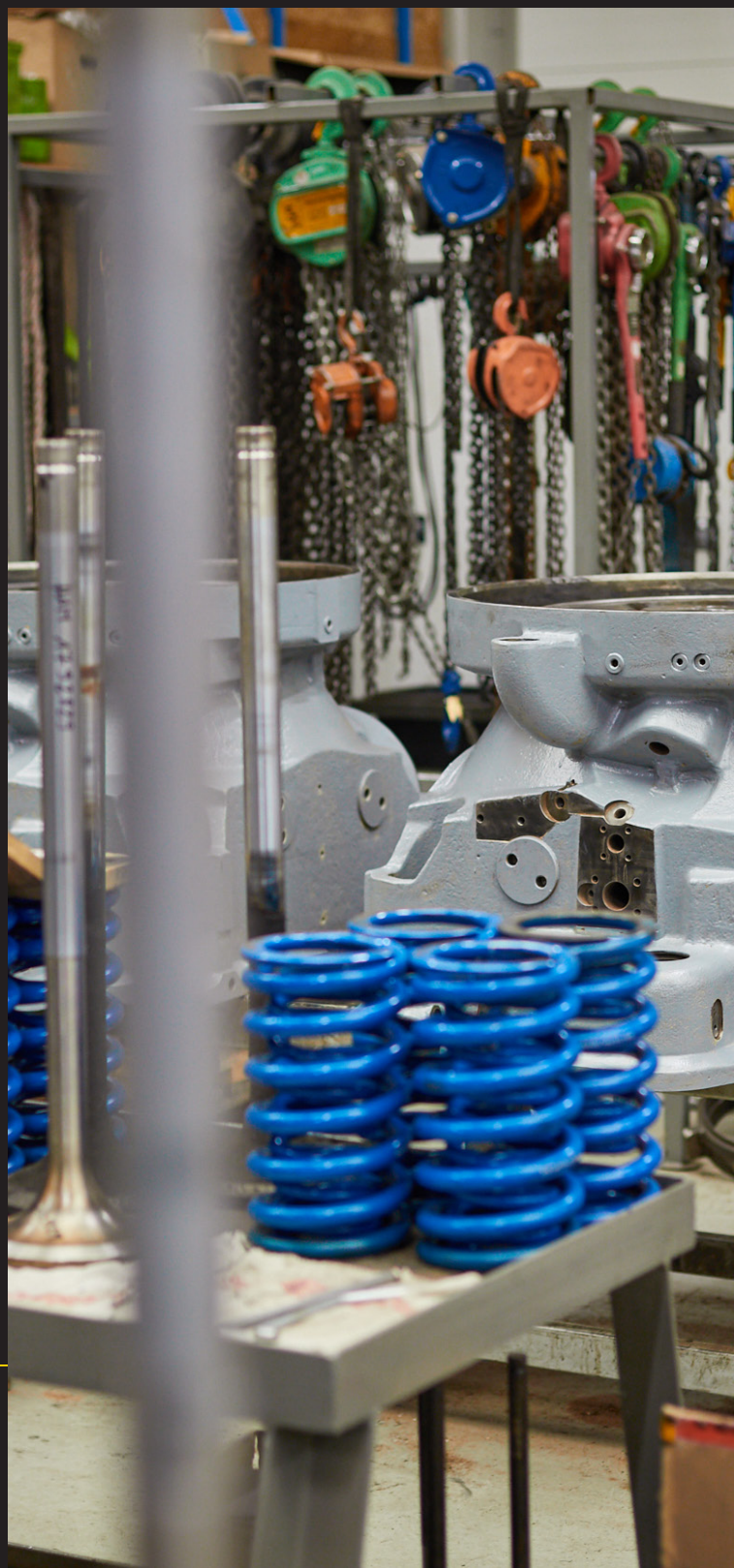
Your servicing done in a Phoenix-Poland workshop cuts overhaul times and delivers guaranteed quality, reducing the risk of breakdown during operation.

## WORKSHOP CENTER

Our fully owned workshop is staffed with highly trained personnel with years of experience in service. They are equipped with all dedicated tools and machines. An overhaul in Phoenix-Poland workshop cuts back overhaul times and gives guaranteed quality, reducing the risk of breakdown during operation. If needed, we will take care of the logistic chain between your installation and our service center.

Our workshop carries out all types of maintenance, repair work, upgrades or modifications on:

- Engines, 2-stroke and 4-stroke
- Crankshaft repair
- Equipment overhaul/recondition:
  - Cylinder heads
  - Cylinder liners
  - Piston and connecting rods
  - Heat exchanger
  - Separators
  - Dampers
  - Turbochargers with balancing
  - Pumps
  - Fuel injection equipment
  - Actuator and governor -overhaul and calibration
- Liquid nitrogen assembly
- Sand blasting
- Machining
- Welding
- Grinding, drilling, honing, polishing
- Metallock repairs
- Cast iron repairs
- In line boring





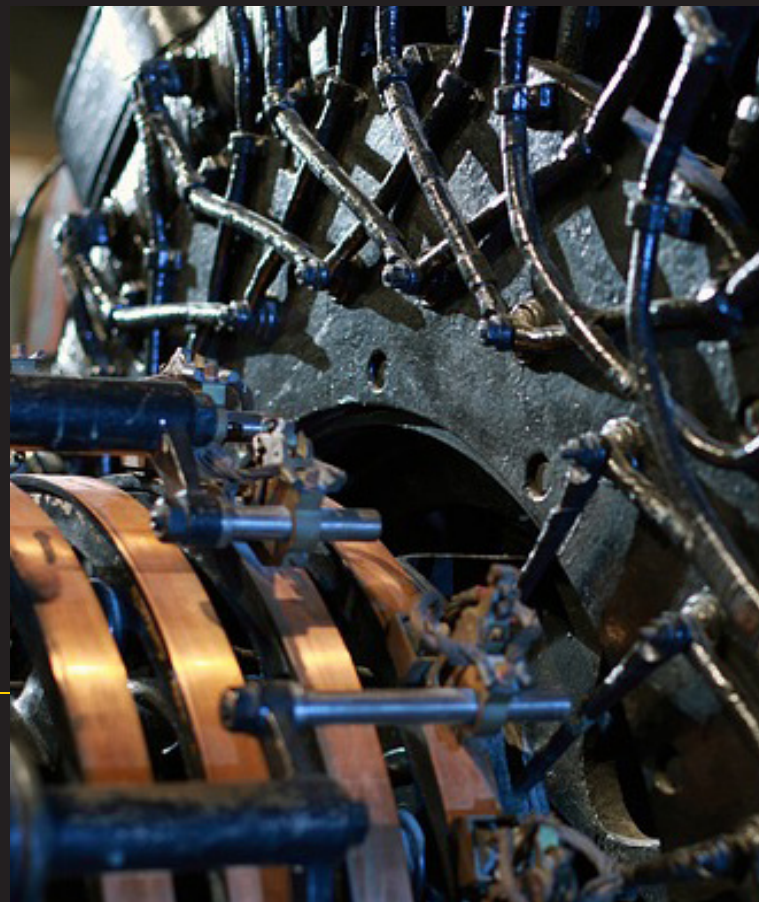
## AUTOMATION SERVICES

Ever hire people who know automation but don't know your industry? That's not a problem for us. We're experts you won't have to teach. We have deep expertise in a wide range of industries. Our team of automation engineers is able to provide all control and automation services. These include technical investigations & troubleshooting, replacement of components and upgrading.

- Automation
  - Safety integrated systems (SIS)
  - Integrated Automation Systems (IAS)
  - Vessel management system
  - Alarm & Monitoring Systems
  - Power plant automation systems
  - LNG terminal automation
- Hydraulic
  - Local control
  - Remote control
  - Power pack
- Controls systems
  - Power management systems
  - Engine control systems
  - Propulsion control systems
  - Boiler control systems
  - Ballast control systems
  - Control systems for variable speed drives
- Rotating electrical equipment
  - Electrical motor & generators LV
  - Electrical motor & generators HV
- Power drives (frequency converters)
  - For electrical motors
  - For propulsion
  - For thrusters
  - For pumps
- Power distribution (switchboard)
  - Low voltage
  - Medium voltage
  - High voltage



When you hire us, you don't just hire an expert at automation – **you hire an expert in automation for your business.**





## CERTIFICATES & RECOMMENDATIONS



**Phoenix Poland**  
Marine Engine Sales, Service & Spare Parts

### CERTIFICATES

We only allow  
**qualified personnel**  
to work on your  
installation.

The work is always done according to the requirements of major classification societies. Our Field Services engineers are extensively trained in performing specialist tests and diagnostics at an installation.

Our team can perform for example overhauling, trouble shooting, on-site and workshop repairs, in-situ machining, audits, measurement and analysis as well as upgrades.



### RECOMMENDATIONS

We enhance our customer's business by providing services and solutions throughout the whole lifecycle of an installation. Field Services professionals provide qualified expertise, whenever and wherever needed.

We have **hundreds of references** from **satisfied customers** from the maritime industry.

