

An aerial photograph of the ocean's surface, showing a complex pattern of white foam and deep blue water, likely from a satellite or high-altitude drone. The image is partially obscured by a dark blue rectangular overlay containing text.

WORLDWIDE MAINTENANCE AND INTEGRATED SUPPLY OF VESSELS

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NJORDMARINE

NJORDMARINE cares about its customers and appreciates their time, therefore we provide the necessary equipment, original and OEM spare parts, as well as maintenance services in the shortest possible time and at the lowest price.



Our goal:

We aim to provide the best-in-class and high-quality solutions that meet the most demanding customers' expectations.



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1. ABOUT NJORDMARINE

NJORDMARINE is a family business based on trust and willingness to help in difficult times. Our team of specialists is ready to fulfil customer requests with any degree of complexity. Our competitive advantage is the timely execution of orders thanks to long-term cooperation with reliable suppliers and courier services.



NJORDMARINE provides electrical and automation services for various types of vessels. We will offer the best solution for the automation of technical processes according to your requirements. Our company also has certified and experienced employees who will help to carry out survey and any welding work on the vessel anywhere in the world.

Our main competitive advantage is the development and design of on-board fuel consumption monitoring systems, thanks to which the customer is always aware of the current fuel consumption and can optimize the costs of operating the vessel or the entire fleet. A convenient and logical system for setting up reports allows the customer to receive the source data in a convenient form and on any device. Our system can be integrated into an existing one in order to improve its various functions.

**We are ready to help you
at any day and hour!**



Our Team:

Chief Executive Officer and Chief Technology Officer – Jevgeny Urlih,

Chief Financial Officer – Stanislav Zamahhin,

Head of HR and PR Department – Anna Soboleva

2. TECHNICAL SERVICES

2.1 MEASUREMENT OF RESIDUAL THICKNESS

We provide ultrasonic thickness measurements services for all types of vessels (we have relevant certificates from classification societies including BV, DNV, ABS, RINA and RMRS).

Measurements at height are performed by our technical climbers, who are certified by the DNV and ABS classification societies to carry out the relevant work.



THICKNESS MEASUREMENT SERVICES INCLUDE THE FOLLOWING STEPS:



Preliminary inspection:

Preliminary inspection of the place of measurement of residual thickness and coordination of the scope of work



Coordination:

Coordination of survey programs with the inspector of the classification society



Measurement:

Measurement of the thickness of steel structures of vessels and land terminals



Documentation:

Execution of reports on the work performed in accordance with the rules of classification societies



Drawings:

Execution of repair drawings with the use of detailed weight tables

2.2 MARINE SURVEY



NJORDMARINE employs high-class surveyors with extensive experience and ready to provide the following world-class services:

- ✓ **Cargo loading/unloading inspection**
 A complete service ranging from full condition survey to careful monitoring of the progress of cargo loading/unloading process. Particular attention is paid to ensure that the cargo is loaded in accordance with generally accepted standards and arrives at the port of destination without any damage.
- ✓ **Oversized and Project Cargo Survey**
 Transportation of oversized or heavy cargo requires a thorough study of transportation routes and an assessment of the possibility of using these routes. We pay the necessary attention to all details and exercise control over the process, guaranteeing its safety and compliance with accepted international standards.
- ✓ **On/Off Hire Survey**
 During this type of inspection, the condition of the key elements of the vessel is checked and recorded in order to identify any damage present prior to the vessel going On/Off Hire. Some parts of the vessel structure, which are most susceptible to damage during operation, as well as during cargo loading/unloading operations, require special attention when the vessel is being placed On-Hire or taken Off-Hire.
- ✓ **Pre-Shipment Inspection of Cargo (Condition, Quantity)**
 We will ensure the correct quantification of cargo in order to determine the cost of the freight and make sure the cargo is stowed correctly. The condition of the cargo and any visible damage is recorded before loading; cargo sampling and determination of quality/safety characteristics of the cargo are also possible. During the inspection, accompanying documents for a certain freight shipment can also be checked.



3. AUTOMATION SERVICES

Our goal is to assist our customers in the automation of critical processes from the point of view of operational safety, as well as the most time-consuming and regularly repeated operations.

OUR COMPANY PROVIDES THE FOLLOWING TYPES OF AUTOMATION SERVICES:

- ✓ Automation of the processes for starting, stopping and monitoring the operation of the main engines, diesel generators, boilers, pumps and other equipment;
- ✓ Automation of propulsion plant;
- ✓ Automatic control over the operation of mechanisms and maintenance of operational documentation;
- ✓ Measurements of levels in tanks with the output of information on the vessel's control panels;
- ✓ Winch control automation system;
- ✓ Fuel consumption metering system and control of the condition of ship mechanisms;
- ✓ Cargo handling gear automation system;
- ✓ Installation/modernization of alarm systems;
- ✓ Trawling equipment control system;
- ✓ Vessel scheduled maintenance system (coming soon)



4. VESSEL ENERGY EFFICIENCY SYSTEM

NJORDMARINE will help you improve the efficiency of your fleet management. We develop and install high-precision fuel consumption and energy efficiency monitoring systems for all types of vessels.

The vessel energy efficiency system (FOCUS) provides the ship owner and the crew with a detailed view of fuel consumption and helps to achieve maximum efficiency.



A smart system ensures efficient vessel operation, as well as the safety of all crew members! 

An individual system is developed for each vessel. Visualization and data configuration is tailored in accordance with the customer's expectations and requirements.

NJORDMARINE

NM FUEL METERING
SYSTEMS

MRV
Reporting

When installing the systems, we use modern technologies and reliable high-precision equipment from the world's best manufacturers.

**All work is carried out by our highly qualified team.*

OUR SERVICES INCLUDE:



Development of project
documentation



Selection of equipment



Installation and programming



Commissioning



Crew training



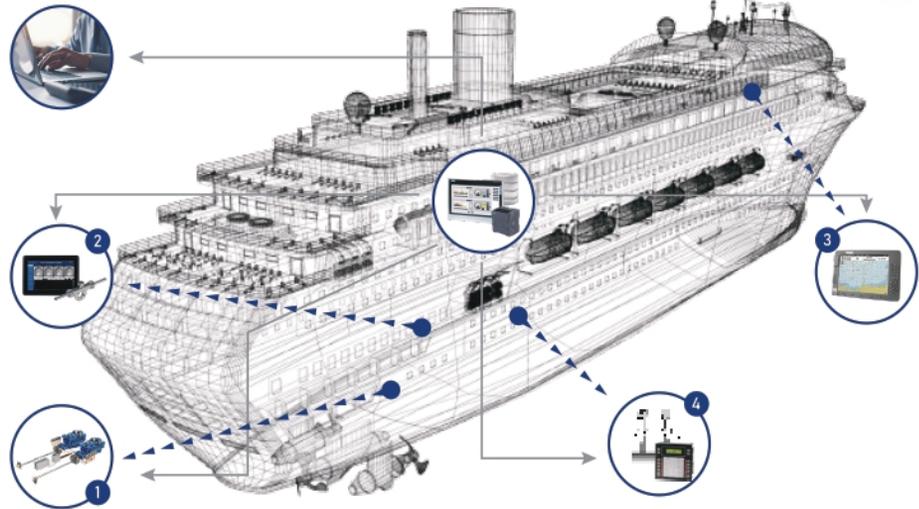
System maintenance

4.1 ON-BOARD SOLUTION

Your first step towards the reduction of fuel consumption and improvement of vessel performance.



Our system integrates perfectly with other on-board systems ensuring the display of all necessary parameters.



PARAMETERS CONTROLLED BY THE ON-BOARD SYSTEM:

1 Main consumers:

- Fuel consumption of the main and auxiliary engines, boilers (hourly, total, over a specific period of time)
- Operating time of mechanisms
- RPM and load of the main engine and diesel generators
- Temperature of fuel, gases, coolant
- Operating condition of the engines
- Generation of reports (daily, weekly, monthly, navigation)

2 Vessel parameters:

- Position and course of the vessel
- Vessel velocity
- Control of the condition of vessel consumers
- Roll/trim of the vessel
- On-board energy system (HVAC)
- Cost efficiency/vessel efficiency

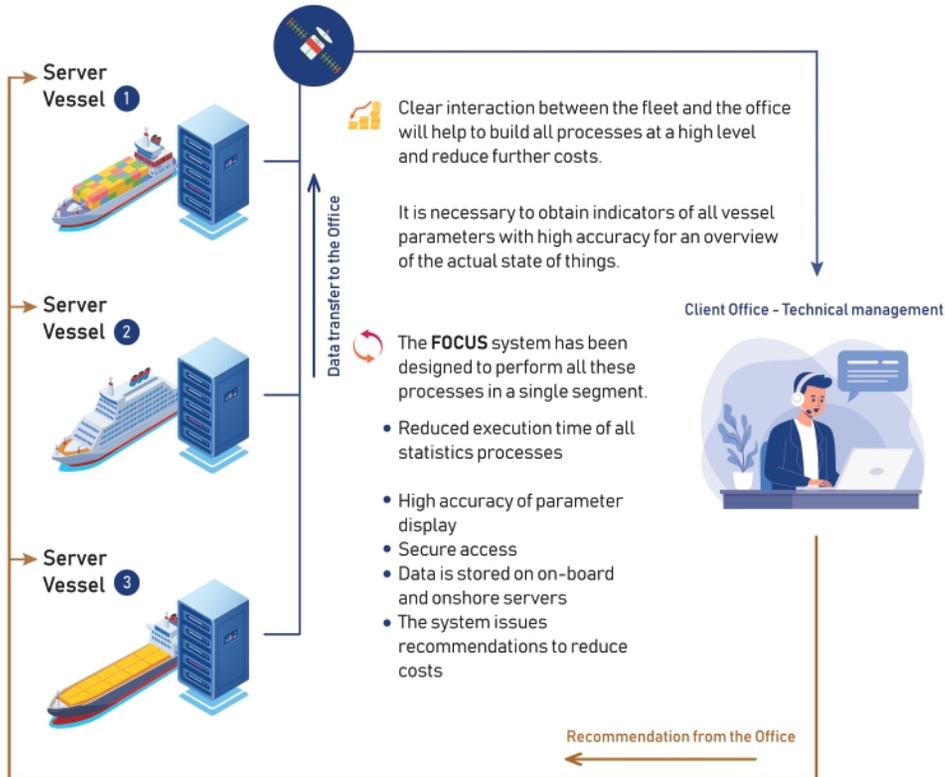
3 Control of bunkering operations:

- Volume of loaded/unloaded cargo
- Weight, density and temperature of fuel during bunkering operations
- Duration of cargo loading/unloading operations
- Automatic report generation

4 Additional parameters:

- Alarm monitoring
- Level measurements in tanks
- Valve remote control system

The system for control, accounting of fuel and energy efficiency of the fleet.



4.2 FOCUS FLEET MANAGEMENT SYSTEM

The **Focus** system provides the customer with automatic fleet analytics for further remote performance management in real time

4.3 OFFICE SOLUTION

Thanks to our FOCUS Onshore solution, you can easily control all of the vessel's operating parameters with the possibility of subsequent adjustments in online mode.

That's what the onshore solution is designed for!

The system displays and allows you to control the following parameters:

- Instant consumption, temperature, fuel density of main engines, diesel generators and boiler;
- Main parameters of the shaft (power, speed, load);
- Vessel efficiency;
- Velocity and position of the vessel on the chart at the time;
- Roll/trim of the vessel;
- Strength and direction of the wind relative to the vessel;
- Control of the bunkering process with subsequent report execution;
- History of vessel passages/moorages;
- Fuel consumption by consumers over a certain period of time (history);
- and more.

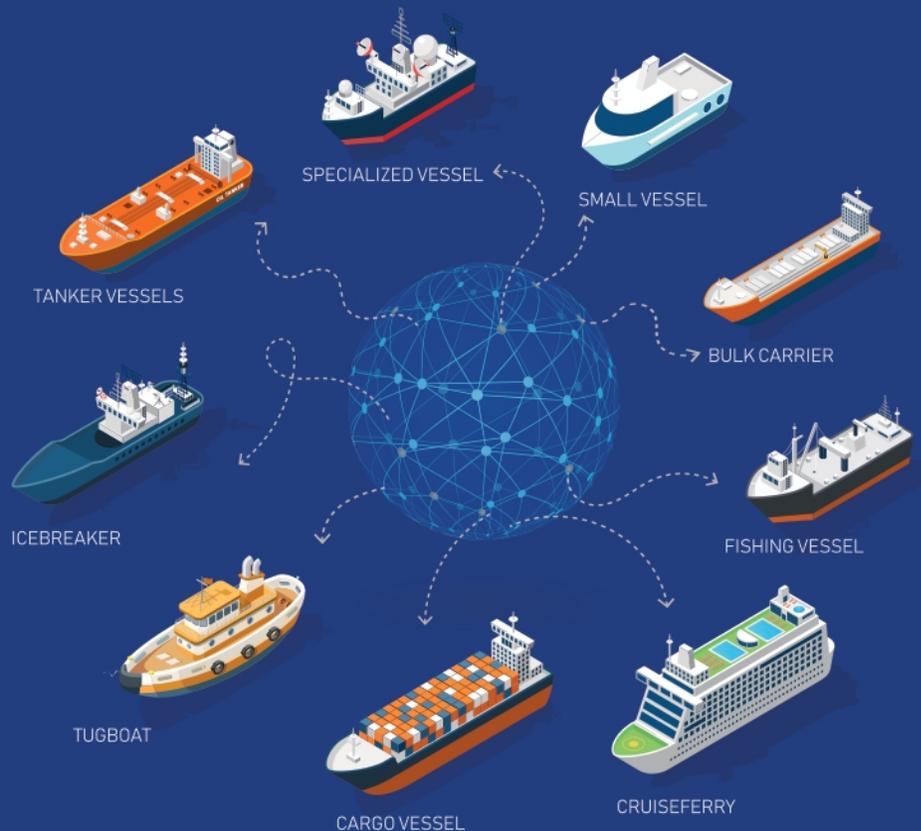


“ Your entire fleet at a glance ”

5. SUPPLY OF VESSELS

NJORDMARINE offers worldwide integrated supply of vessels.

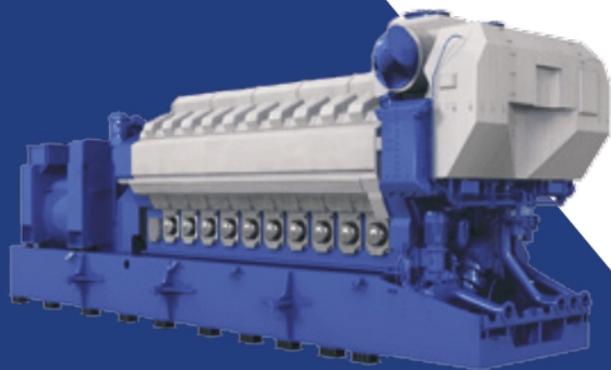
Our range of services includes the supply of original and OEM spare parts, as well as equipment for all types of vessels.



SUPPLY OF SPARE PARTS

We supply spare parts for the following machinery:

- ▶ Main and auxiliary engines (two-stroke, four-stroke)



 WÄRTSILÄ WARTSILA	 MAN B&W MAN B&W	 SCANIA SCANIA	 MAK MAK
 CUMMINS CUMMINS	 DEUTZ DEUTZ	 VOLVO PENTA VOLVO	 CATERPILLAR CATERPILLAR
 HYUNDAI HYUNDAI B&W	 YANMAR YANMAR	 SULZER SULZER	 DAIHATSU DAIHATSU

Turbochargers ◀

ABB

ABB VTR/RR

CATERPILLAR

CATERPILLAR



NAPIER

KBB

KBB

HOLSET
TURBOCHARGERS

HOLSET

IHI
Turbochargers

IHI



MITSUBISHI



MAN B&W



▶ Boilers

AALBORG
INDUSTRIES
AALBORG

SAACKE

SAACKE

oilon

OILION

KANGRIM

KANGRIM

GEA

GEA

-weishaupt-

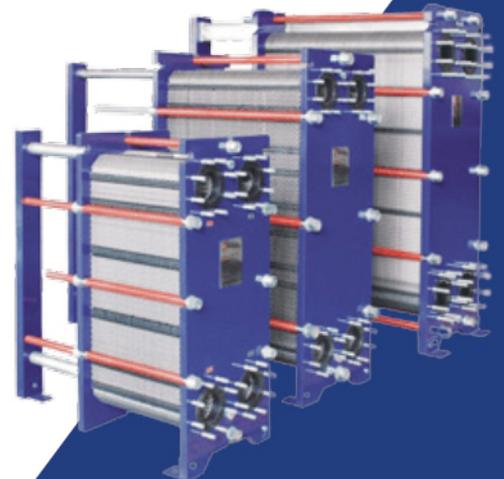
WEISHAUPT



▶ Separators



Heat exchangers ◀



Pumps ◀



► Compressors



BITZER

BAUER

BAUER

Atlas Copco

ATLAS COPCO

BOCK
COMPRESSORS

BOCK



HATLAPA



SABROE

J.P. SAUER & SOHN
ESTABLISHED 1751

J.P. SAUER & SOHN

SPERRE

SPERRE

KAESER
KOMPRESSOREN

KAESER

TANABE
COMPRESSORS

TANABE

Hydraulics ◀

 **BOSCH**

BOSCH

rexroth
A Bosch Company

REXROTH

VICKERS

VICKERS

HYDAC

HYDAC

NABCO

NABCO

Danfoss

DANFOSS

Vulkan.

VULKAN

EATON

EATON

Parker

PARKER



Our company is the official representative of the Japanese company YTS, which produces diaphragm pneumatic pumps featuring world-class design and quality, in the Baltic States.

THE WIDEST RANGE OF PNEUMATIC DIAPHRAGM PUMPS FROM THE JAPANESE MANUFACTURER YTS :



Pure Polypropylene (Pure PP)



Conductive PTFE



Conductive Polypropylene (Conductive PP)



Ultra-Pure PTFE



Glass Fibre-Reinforced Polypropylene (GFPP)



Aluminium



Polyvinyliden Fluoride (PVDF, Kynar)



Stainless steel



Industrial PTFE



Cast iron

Connection sizes: 1/4" 3/8" 1/2" 3/4" 1" 1 1/2" 2" 3"	Maximum Flow: 8 L/min to 950 L/min	Maximum Head: Up to 85 meters (for High Pressure Pumps up to 170 meters)
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SPECIAL PURPOSE PUMPS:

- FDA Compliant Pumps
- Electro Polished Pumps
- Solenoid Pumps
- Powder Pumps
- Heavy Duty Pumps
- High Pressure Pumps
- Passive Damper Pumps
- Large Particle Pumps
- PTFE/Nickel Coated Pumps
- Separate Manifold Pumps
- High Temperature PTFE Pumps
- Wine Pumps
- Drum Pumps

As well as pump accessories and spare parts!

*Our company is the official representative in the Baltic States.



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