



ELHAND Transformatory is the leading manufacturer of inductive components for Maritime, AC Drives, Railway, Oil & Gas, Mining and Power Electronics Industries. Our offer includes low and medium voltage transformers, reactors and filters dedicated to the most demanding applications.

Quality Supported by Certificates

















MV MAIN TRANSFORMER

Elhand medium voltage dry-type transformers are unique combination of designers knowledge, the latest production technologies and 40+ years of experience gained from own projects. The best winding and impregnation techniques are the warranty of long, failure-free operation.

- Power: up to 3 MVA
- Voltage: up to 21 kV (depending on power)
- Protection degree: IP00 IP66 Cooling: Air Natural, Air Forced, Water



GRID CONVERTER'S OUTPUT SET

Grid converter's output set is a ready made solution, which enables connection of Grid Converters to the ship grid. LC filter changes PWM voltage to sinusoidal waveform and transformer eleminates common-mode voltage. The structure of this system creates LCL filter with galvanic insulation in very compact design.

- Power: up to 2,6 MW
- Voltage: up to 1000 V
- Protection degree: IP00 IP66
- Cooling: Air Natural, Air Forced, Water



LV POWER TRANSFORMER

Marine is one of Elhand core businesses. More than 400 marine transformers leave Polish factory every year. Thanks to tailor made production, the customer can have deep insight in the project from the first sketch to FAT. Core of power transformers is made in step-lap technology, which ensures top in class efficiency.

- Power: up to 3 MVA
- Voltage: up to 1000 V
- Protection degree: IP00 IP66
- Cooling: Air Natural, Air Forced, Water



VSD INPUT HARMONIC FILTER

ElhandHF™ Harmonic Filter allows to utilize system power capacity to maximum degree, protects equipment from malfunction and extends system run life. Compensation of harmonics by filter application helps to comply with IEEE 519 or other energy quality standards. Harmonic Filter saves electricity and increases investment return.

- Power: up to 2,6 MW
- Voltage: up to 1000 V
- Protection degree: IP00 IP66
- Coolina: Air Natural



LC SINE-WAVE FILTER

Sine-Wave filter is essential part of modern ship electricity grid, LC filter converts rectangular PWM voltage into sinusoidal thus eliminates harmful side effects of transistors switching. Filter can be placed at the input of AFE Drive or Grid Converter or at the output of VSD to protect the motor.

- Power: up to 2,6 MW
- Voltage: up to 1000 V
- Protection degree: IP00 IP66
- Cooling: Air Natural, Air Forced, Water





START-UP AUTOTRANSFORMER

Start-up autotransformer is dedicated to large DOL motors, which are connected to relatively weak ship grid. Direct start of the motor generates high current peak and voltage drop in the system. Elhand start-up autotransformer reduces the motor voltage and lowers the current peak, thus contributes to longer life of generator and whole electrical system.

- Power: up to 2,6 MW
- Voltage: up to 15 kV
- Protection degree: IP00 IP66
- Cooling: Air Natural, Air Forced, Water

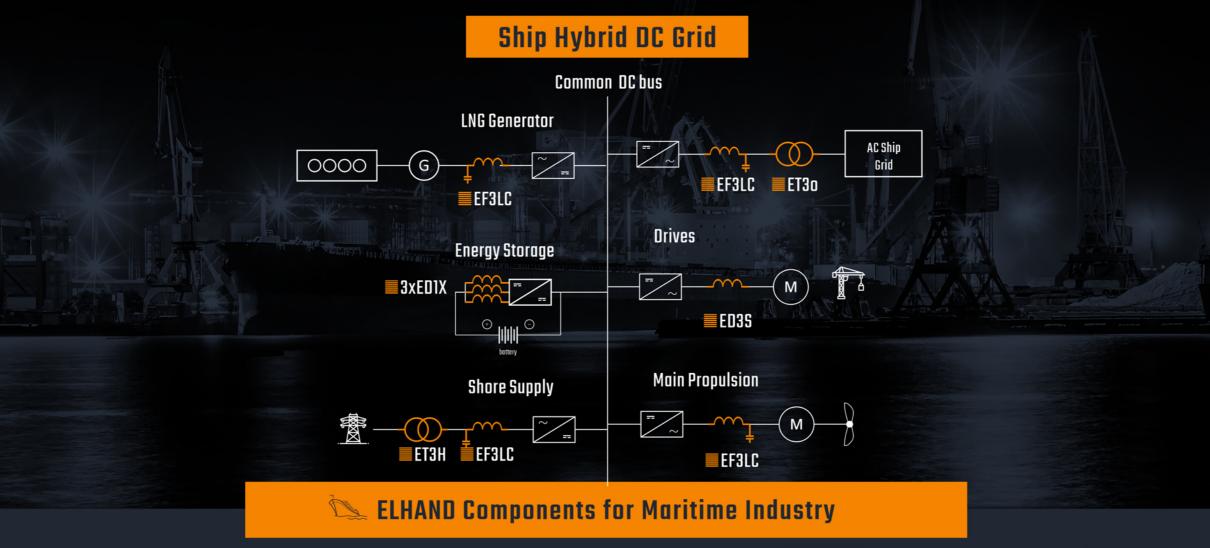
ELHAND Components for Maritime Industry



Lower Your Operational Expense by Using Newest Magnetic Technologies and Modern Designs.

- Cost optimization.
- Hight quality at a reasonable price.
- Highly customized, non-standard solutions.
- Full service: design, manufacture, transport.
- Less carbon footprint.
- Made in Europe.







We have manufactured over 6 000 transformers and filters for the maritime market.

See Our Reference List >>



See References From Our Customers >>



Selected Projects



MV and LV power transformers for luxury yacht

Power: 1,5 MVA & 2 MVA

Voltage: 6600±2x2,5%//690 V & 690±2x2,5%//400 V

Protection degree: IP44

Cooling: water cooler integrated in transformer enclosure

Certification body: LR

Production: 2021





MV ship transformer for shore connection of Baltic ferry

Power: 2,5 MVA

Voltage: 10700±2x2,5%//660 V

Protection degree: IP23

Cooling: air natural

Certification body: PRS

Production: 2022





LV transformer for Polish war ship Kormoran

Power: 160 kVA

Voltage: 400//230 V

Protection degree: IP23

Special diamagnetic enclosure, undetectable by radar. Transformer resistant to overload when firing a cannon

Production: 2015





ELHAND Components for Maritime Industry



They Also Trusted Us.

- Damen Shipyards Gorinchem
- Alewijnse Marine Galati S.A.

- Baumüller
- Gebhard B.V.
- IKM Subsea AS
- Kongsberg Maritime AS

- Navytec
- Israel Shipyards
- Remontowa Holding S.A.
- Elkon Elektrik Sanayi Ve Ticaret

