

## MARINE AND OFFSHORE APPLICATIONS

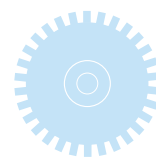


*Fishing-research vessel  
„Solea“ driven by 950 kW  
DC-motor*

Our product range and service includes

- electric propulsion motors
- main generators
- motors for thrusters, compressors and drilling equipment
- motors for cranes and winches
- world-wide service

for most types of vessels including cruise liners, drill platforms, drill ships, cargo ships, naval ships and submarines.





*Cruise liner driven by 21,000 kW variable speed synchronous motors*

## Motors and Generators for Nearly All Types of Vessels

LDW is a specialist for designing and manufacturing customised electric motors and generators for nearly all applications. Traditionally the marine industry is one of our main focus areas. Due to short production runs and special designs, we are able to offer our customers individually adapted and highly economical products.

Our product range guarantees the highest degree of equipment safety due to the machines' extreme reliability, their state-of-the-art design, and LDW's century of experience.



*Variable speed synchronous motor for a cruise liner*

## Propulsion Electric Motors

LDW is one of only a few companies to design and manufacture large electric propulsion motors up to 25 MW. They are available as induction or synchronous motors and specially designed for speed controlled drives.

To develop large propulsion motors, we use the best available technologies, e.g. FEM-analysis, to meet the strong requirements for cruise line vessels, to reduce structure-borne noise and vibration to a minimum and to increase efficiency as well as reliability.

Individually designed DC propulsion motors with high torque and low noise emission can be offered for special vessels, e.g. icebreakers, research vessels and submarines.

All motors are designed and manufactured in accordance with the relevant international standards and ship classifications, e.g. LRoS, GL, RINA, BV, DNV, ABS etc.

## Main Generators

Our products include main generators driven by medium speed diesel engines with output range from 5 MVA to 25 MVA.

We also offer four-pole generators driven by gas turbines or steam turbines with ratings up to 50 MVA.

Another product line features low-speed shaft generators for low and high voltage.

## Motors for Thrusters, Compressors or Drilling Equipment

We offer AC and DC motors with fixed speed, variable speed, high or low voltage to drive thrusters, compressors or drilling equipment.

Our motors are optimised to ensure high efficiency, low noise and high reliability.

## Motors for Cranes and Winches

We supply loading technology for all sizes.

LDW's modern drive technology has gained an excellent reputation. Our motors are no standard products. We supply tailor-made AC and DC motors whose electrical and mechanical parameters are adapted to the specified application.

Possible applications are quay-side container cranes, rotary cranes, gantry cranes, wharf cranes, and many others.



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Customized Services*

**AEG**