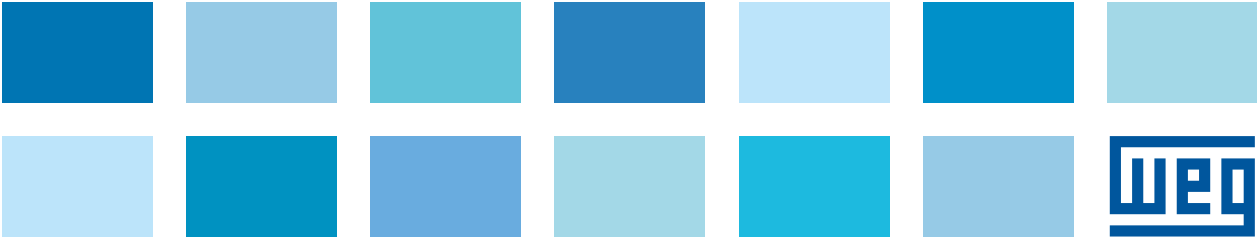




WEG Solutions for Marine Industry



Solutions for Marine Industry

You will find at WEG complete solutions in motors, generators, automation and industrial paints. Besides offering state-of-the-art products, the company has the expertise to provide technical support and prompt service all over the world.

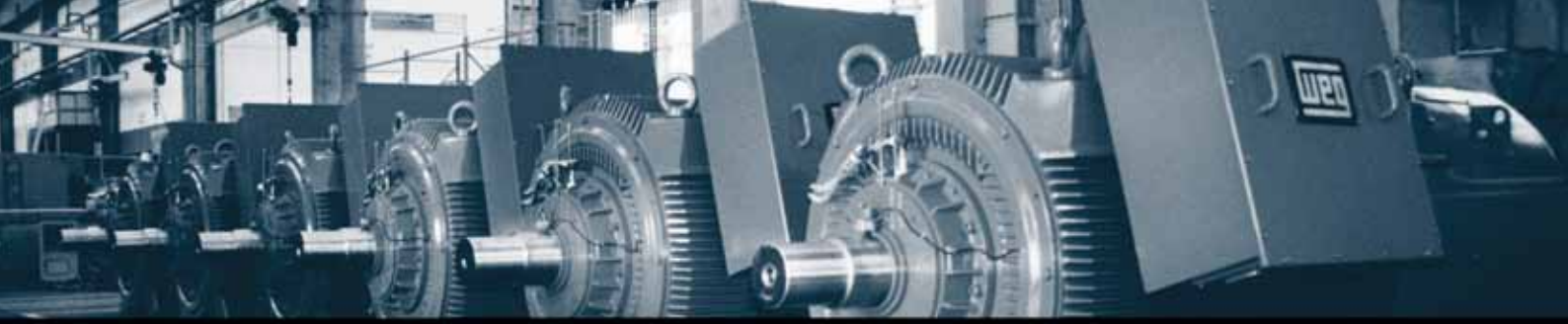


Supplies

- **Plattaform Supply Vessel - PSV**
- **Anchor Handling Tug Supply Vessel - AHTS**
- **Oil Supply Vessel - OSV**
- **Oil Rig Supply Vessel - ORSV**

- Motors: Bow and Stern Thruster
- Motors: Azimuthal Propulsion
- Shaft generators
- Main dry transformers and emergency transformers
- Low / Medium Voltage Main and Emergency switchboards
- Distribution panels and motor starting switches
- Integration engineering services
- Commissioning and Start-up
- Wheelhouse Console
- Motors: Bow and Stern Thruster
- Motor starting switches and frequency drives for load pumps
- Automation: Alarm System / Power Management System / Cargo Holding
- Starting switch for thrusters
- Forward and aft consoles
- Energy box





General Purpose Small Size Motors - High Efficiency

- Applications: Pumps, compressors, fans, etc.
- Poles: 2, 4, 6 and 8
- Frames: 63 to 355M/L
- Voltages: 220/380 V / 380/660 V (frames 63 to 200L)
220/380/440 V (frames 225S/M to 355M/L)

Large Size Motors

WEG Low and Medium Voltage Motors are designed with state-of-the-art technology, materials and production processes resulting in compact and outstanding performance machines.

H Line - High Efficiency

- Applications: Bow Thrusters, Stern Thrusters, Azimuthal Thrusters
- Output ratings: 100 to 3,150 kW
- Voltages: up to 11,000 V
- Speed: 600 to 3600 rpm
- Totally enclosed fan cooled, finned motor (cooling method IC411 or IC416)
- Advantages: Low noise level, reduced maintenance and no heat exchanger required (HGF)



M Line

- Applications: Bow Thrusters, Stern Thrusters, Azimuthal Thrusters
- Output ratings: up to 50,000 kW
- Voltages: up to 13,800 V
- Speed: 300 to 3600 rpm
- Open self-ventilated cooling system, designed with air-to-air or air-to-water heat exchanger, forced ventilation, whenever required.
- Advantages: Design versatility and outstanding operating conditions which results in high performance and reduced maintenance



Generators

Available up to 3360KW, the G Plus generators are used in different solutions including Electric Diesel, Shaft Line or Emergency, which are driven by any brand of diesel or gas motors of low or high speed. Additionally, they are suitable for parallel operation (load balancing) or single operation, air or water cooled, these generators are designed to withstand all electric requirements (low harmonic distortion) and mechanical requirements demanded by operational conditions from different kinds of ships.

- Low Voltage: 110 to 690 V
- High Voltage: 2300 to 13,800 V
- Degree of Protection: IP21 (IP23, IP21W, IP23W, IP54, IP54W, IP55 and IP55W)
- Poles: 4, 6 and 8 pole



Dry Transformers

- Applications: Main and lighting transformer, motor power supply and frequency drives
- Output ratings: 300 to 15,000 kVA
- Thermal class of the insulating materials: F (155°C)
- Epoxy resin used: CW22 (Huntsman) with UL certification for 200°C
- Standards: NBR 10295/1988, NBR 13297/1995, IEC 60076-11/2004, IEC 905/1987 & IEEE C57.96-1999





Electrical Panels

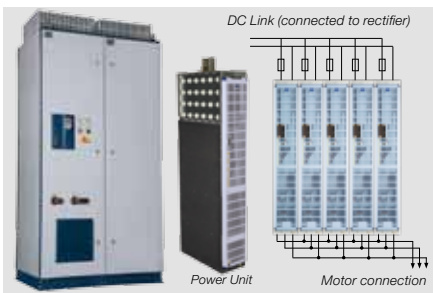
- **Applications:** Main electric boards, distribution and emergency boards
- Modular and flexible mounting
- Easy to be modified and adapted

Variable Frequency Drives

WEG Variable Frequency Drives are intended for speed control and protection of electric motors.

They can be supplied with either forced cooling or water cooled.

- **Applications:** Propulsion motors without pitch propeller variation, compressors, pumps, fans, etc
- Book design which allows high compact level, reliability and easy maintenance
- 400 V: 380-480 Vac
- 500 V: 500-600 Vac
- 600 V: 660-690 Vac 300 to 2500 kW
- Normal (110%/1min) and Heavy Duty (150%/1min)
- Plug & Play
- Complete diagnostic and monitoring functions



Soft-Starters

WEG soft-Starters are intended to protect and limit starting current of electric motors that do not require speed variation.

The HMI allows easy parameter set up turning the commissioning and operation easier.

- **Applications:** propulsion motors with variable pitch propeller, compressors, pumps, fans
- Advantages: low cost



Automation

The WEG Automation for ocean ships is properly designed and allows control and monitoring of the ship from the control room.

Main functions:

- **Alarm system** which allows monitoring and record all ship alarms
- **Energy management system** which allows control and protect automatically generators and loads
- **Load system** which allows monitoring and control of valves, pumps, tanks and silos



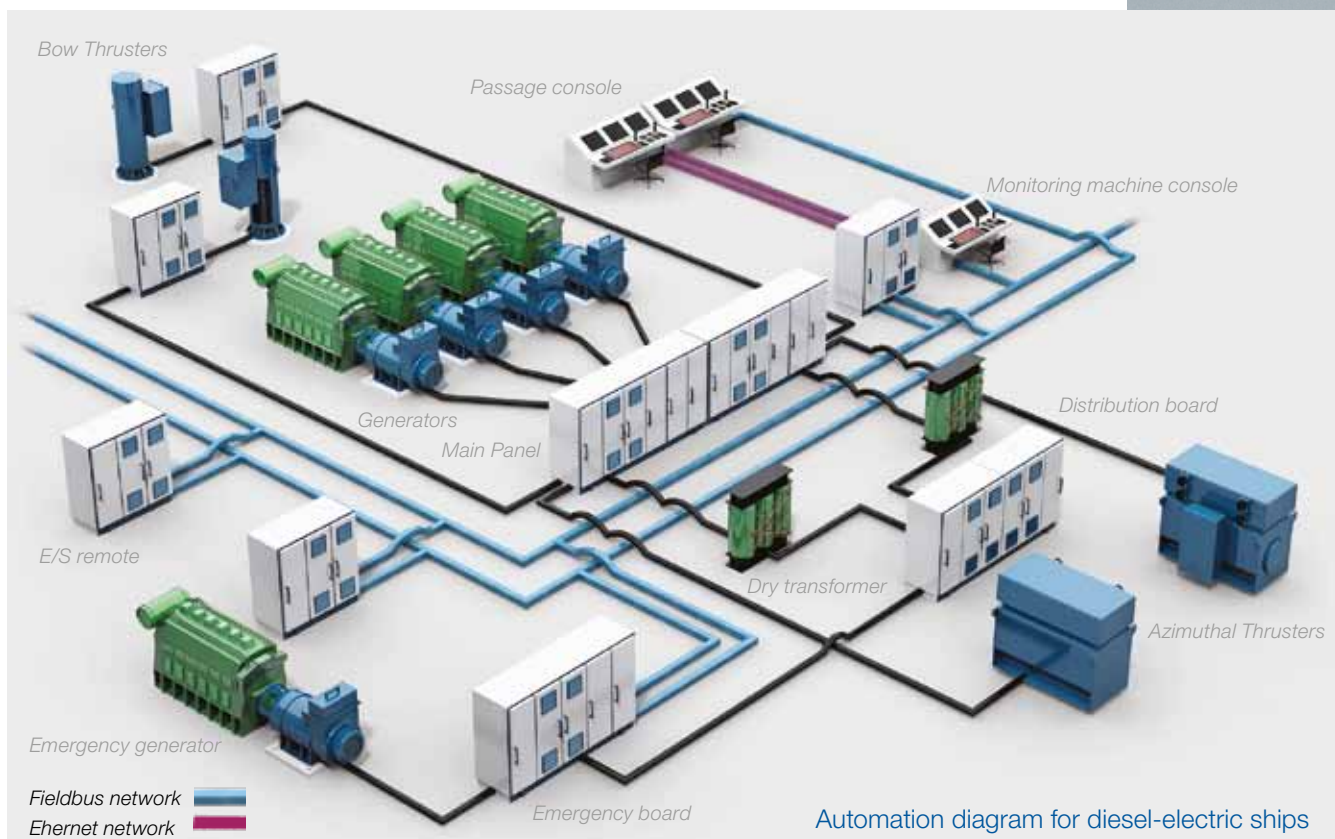
Switch and controlgear

Complete line of switch and controlgear for electric motors and electric panels.

Diesel-electric propulsion

Advantages

- Flexibility on the machinery room arrangement
- Shaft line elimination
- Lower maintenance of diesel motors
- Lower consumption
- High reliability
- More availability
- Reduced vibration and noise level
- Reduction of pollution (CO₂, NO_x)



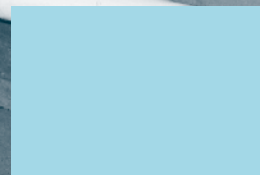
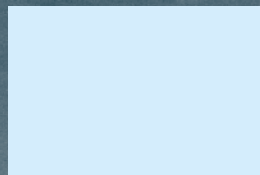
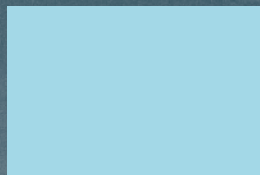
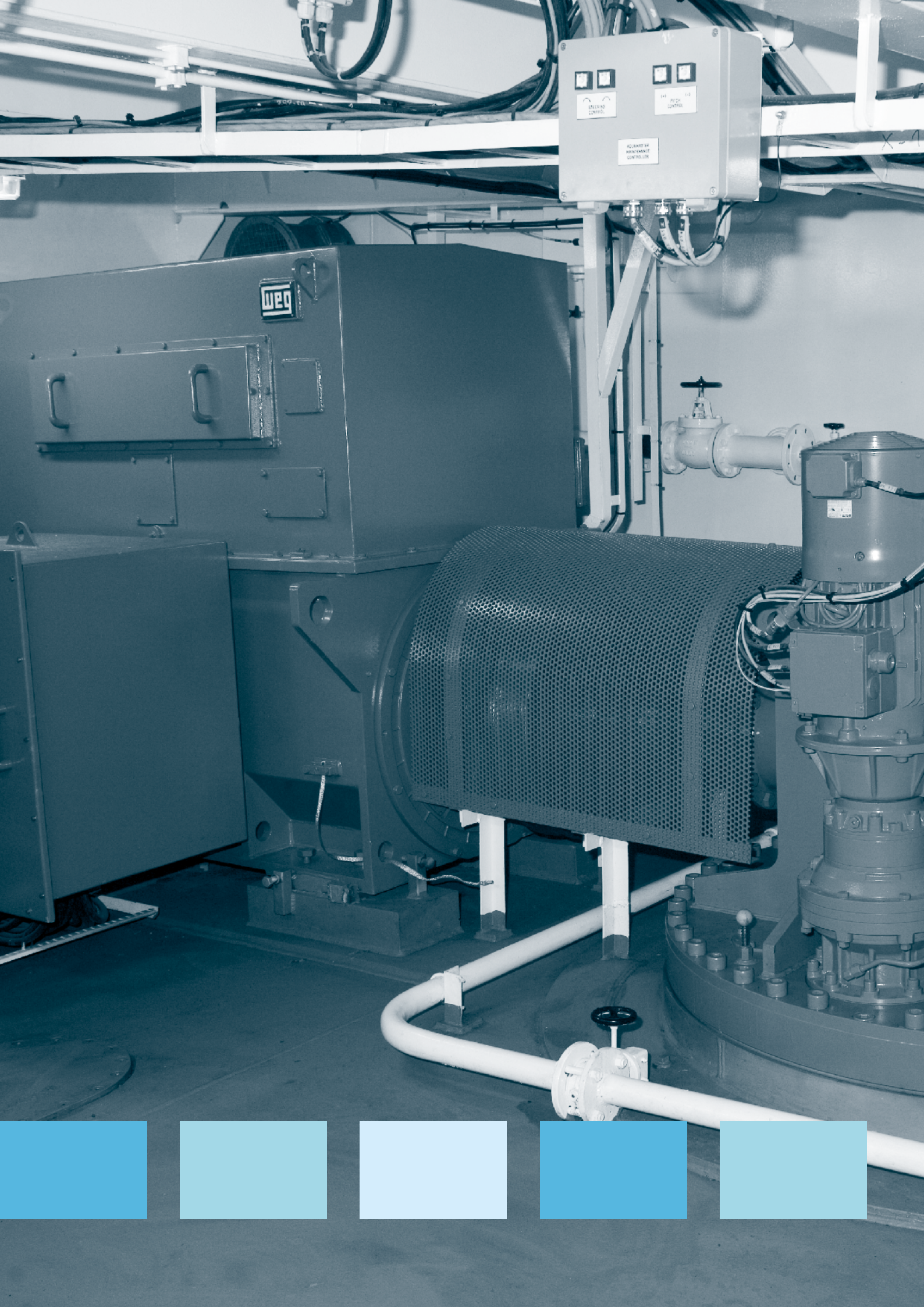
Marine Certifications

WEG motors, generators, electric boards, starting switches and automation systems are designed to meet all marine application requirements. Upon request, all these products can be supplied with certifications from Certification Institutes such as Lloyds, Bureau Veritas, ABS, Germanischer Lloyd, DNV and others.



Worldwide companies that have approved WEG





WEG Worldwide Operations

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