

Ingeteam Indar Machines S.A.
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With more than 80 years of experience, Ingeteam is today an unequalled partner when it comes to power generation and conversion.

Within its existence period, Ingeteam has positioned itself in the forefront of electrical rotating machine technology through investing in strategic assets. Both human and technical resources, such as its state-of-the-art power electronics and rotating machine laboratory, are just a reflection of the current leading position of Ingeteam in the global market.

Its powerful design, human team and production centers located in Beasain (Spain), Milwaukee (USA) and Segorbe (Spain), together with their clear vocation to serve the specific managed projects, make Ingeteam an option as no other.

Indar™ Electric Motors & Generators

SOLUTIONS FOR MARINE SECTOR

Ingeteam

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Ingeteam




INDAR™ Electric Motors & Generators


Marine Sector



Quality is not at stake in Ingeteam, it is a must for us to guarantee the reliability. To this respect our test bench is one of the best in the world. The main capabilities are:

- On load tests all our power range.
- Back to back load test with PWM drives.
- Electrical and thermal insulation ageing.
- Tests of extreme ambient condition (climatic chamber from -30 °C to 80 °C).

 Fully customizable for each case and opportunity

 European quality standards


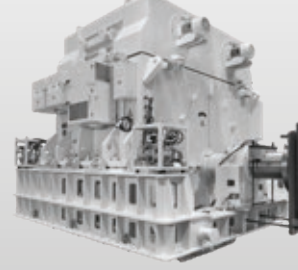
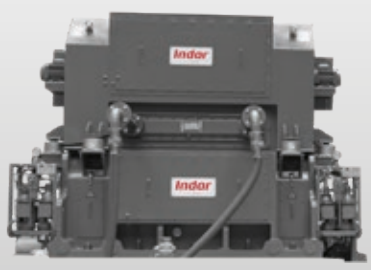



 In-house technology

Our machines are designed, manufactured and tested according to the criteria and standards of the International Electrotechnical Commission (IEC) and classification societies.

Inдар™ machines are adapted to the requirements by the various classifying bodies for marine application.

- ▶ All submersible motors IP68
- ▶ Features described apply to oil filled machines
- ▶ 300 m max submergence capacity



Product Range Synchronous, Induction & Permanent Magnet Technology						
	General Use Motors	Direct Propulsion Motors	Low Noise Propulsion Motors	Submersible Motors	Generators	PTI / PTO / PTH
						
Power	up to 25,000 kW	up to 15,000 kW	up to 15000 kW	up to 6,500 kW	5,000 - 40,000 kVA	up to 10,000 kW
Voltage	up to 15 kV	up to 6.6 kV	up to 6.6 kV	up to 3.3 kV	up to 15 kV	up to 6.6 kV
Speed	up to 2,000 rpm	up to 350 rpm	up to 350 rpm	up to 400 rpm	up to 900 rpm	up to 200 rpm
Insulation class	H	H	H	H	H	H
Starting / Operation	PWM / Sinusoidal	PWM	PWM	PWM / Sinusoidal	PWM / Sinusoidal	PWM / Sinusoidal

Frame Sizes Synchronous, Induction & Permanent Magnet Technology			
	Induction	Synchronous	Permanent Magnet
Frame Size	≥630	≥950	≥900