Indar Electric, S.L.
Polígono Industrial Txara, s/n
20200 BEASAIN - SPAIN
Tel.: 34 943 02 82 00
Fax.: 34 943 02 82 12
indp.sales@indar.ingeteam.com



Indar



Your driving force

Indar Electric, S.L.

www.indar.net

We respect the silence of nature by **PIONEERING THE SILENT TECHNOLOGY**





MARINE
RESEARCH VESSELS
LOW NOISE PROPULSION MOTORS



INDAR Low Noise Motors for Research Vessels

Why INDAR?

The sea is part of our culture. We feel proud of everything we build. We believe in thinking differently because breaking molds is our motto.

We break molds by making our motors robust in design, reliable in performance, made to purpose and silent.

Our Values

ONE TEAM 100% MARINE THINKING. We make electric propulsion motors with passion as one unique team, PERFECTION is not good enough.

Our Philosophy

100% marine oriented: cooperation and partnership with the ship owners, shipyards and propulsion system integrators forms part of our philosophy, with a personalized and unique treatment in the relationship, and with a clear purpose: Hard work and long term partnering funded in trust.

Experience = INDAR

We don't just supply electric motors, but we give advice and create them, Since 1940, the INDAR brand motors have been rotating on board worldwide and ship owner trust is built upon reliability.

World class testing facilities

Quality is not at stake in INDAR, It is a must for us to guarantee the reliability of any single motor to be delivered. To this respect our test bench is one of the best in the world. The main capabilities are:

- On load test 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).

Marine Certifications

Any INDAR Propulsion motor is approved and compliant to the classification society given for the vessel.











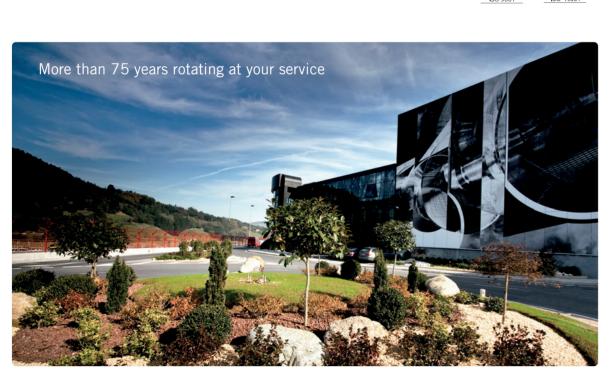














SCOPE OF SUPPLY

- Output Power up to 5,000 kW
- Direct Drive
- Rigid or Resillient Mounting
- Degree of Protection up to IP44
- Color alternatives
- High Corrosion Resistant

SOME REFERENCES

ICE 209 / DNV Silent Class R

- · Celtic Explorer Ireland (2002)
- Miguel Oliver Spain (2007)
- Ramón Margalef Spain (2011)
- Ángeles Alvariño Spain (2012)
- Simon Stevin Belgium (2012) RV Investigator - Australia (2013)
- BIPO Inapesca Mexico (2014)

Large Tank Ship Supply Ship Research Vessel Submarine

Underwater Noise Level (dB at 1m) 180-190 [dB] 150-180 [dB] 110-130 [dB] 100-130 [dB]

Structureborne noise Level on Propulsion Motor



