Indar
Ingeteam Group

World class testing facilities

Quality is not at stake in INDAR, it is a must for us to guarantee the reliability of any single pump to be delivered. To this respect our test bench is one of the best in the world.

This allows INDAR to fully test its designs to guarantee the best quality in its products, thus developing products and services adapted to the characteristics of each project and client. The main philosophy of Indar is to guarantee the quality and reliability with in-house proven solutions.

Our outstanding **testing capabilities** include:

- **Flow up to 21 000 m³/h**
- **Head up to 1000 m**
- **Power: 3000 kW**
- **Voltage: 13.8 kV**
- **50Hz, 60Hz, Frequency converter**
- **Crane capacity: 40 Tn**

Background

The experience acquired by INDAR **during over 75 years** allows us to provide a wide range of products, developed from our own technology, placing us in a position of leadership both in the Spanish and international markets.

One of the most important factors of INDAR is the quality offered in the products and services, **guaranteed by the ISO 9001, ISO 14001 and OHSAS 18001 certificates**, as well as the high level of involvement of all the personnel that directly and indirectly take part in the design and manufacturing processes.

The state-of-the-art facilities around our main factories in Beasain (SPA) and Mexico City (MEX) allow us to offer the most reliable equipment to the specific requirements, offering the best of both worlds to serve the different actors in the water sector (i.e. OEMs, Municipalities, EPC companies, etc.) in their field of activities (water supply, water treatment, desalination, etc.), energy and industry (i.e. mining, Oil & Gas,…), among others.

Technical expertise and the spirit of adaptability have been and remain our main strength and hallmark.

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Indar
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Your driving force

Indar Máquinas Hidráulicas S.L.
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SUBMERSIBLE WATER ENGINEERING

MOTORS AND PUMPS

Indar
Ingeteam Group

Indar
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Submersible solutions for engineering water

Whenever there is flood risk, water at high depths, acoustic contamination, reduced space availability, restrictions for adapting the installation to existing equipment, urgency for readiness, requirements out of standards, necessity for large and powerful pump motor sets, maintenance free submersible solutions, equipment designed for the application and type of use, our clients count on the most reliable and competitive submersible solutions in the market.

Cooperation with the client forms part of the philosophy of INDAR, with a personalized and unique treatment being the basis of the relationship, and with a clear common purpose: to offer an efficient and cost-effective **solution** for each specific need.

Water supply

Waste water treatment

Storm water pumping

Desalination

Irrigation

Mining

Oil & Gas

Power plants

Competitive Advantages

- Versatility and flexibility
- Tailor made solutions
- Pump and motor, both manufactured in Indar
- Own technology and designs
- Short lead times
- Testing in real conditions
- Available in cast iron, SS316, Duplex, Super Duplex,...
- Solutions for dams, deposits, wells, chambers, lakes, reservoirs, canisters,...

SP BF Range:

Flow up to 10 000 m³/h
Head up to 100 m
Power up to 1200 kW
Voltages up to 13.8 kV
From 4 to 12 poles

Features:

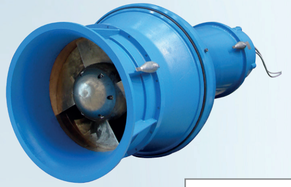
- Mono-cellular pumps
- Driven by INDAR submersible air filled ISM MF motor:
- Asynchronous, three phases, squirrel cage
- 50Hz, 60Hz, suitable for VFD
- Solutions for wet and dry installations

SP HE Range:

Flow up to 21 000 m³/h
Head up to 25 m
Power up to 1000 kW
Voltages up to 13.8 kV
From 4 to 14 poles

Features:

- Axial propeller pumps
- Driven by INDAR submersible air filled ISM MF motor:
- Asynchronous, three phases, squirrel cage
- 50Hz, 60Hz, suitable for VFD
- Installations: Removable, with shroud



H series: axial propeller pump with shroud

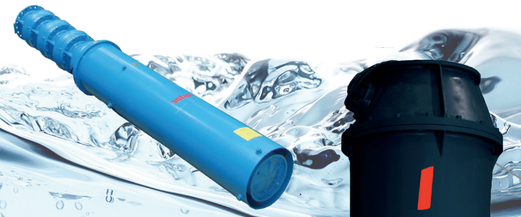
Cables are protected from the flow and solids pumped.
Set ready to be installed with the flange to the discharge pipe.
The installation is simplified as the shroud becomes part of the discharge pipe and the set hangs from it and the cooling conditions no longer depend on the installation, geometry, etc.

SP UGP Range:

Flow up to 8000 m³/h
Head up to 1000 m
Power up to 3000 kW
Voltages up to 13.8 kV
From 2 to 8 poles

Features:

- Multistage centrifugal pump designs
- Supplied with INDAR ISM ML submersible motor:
- Asynchronous, three phases, squirrel cage motors
- Water filled, cooled and lubricated
- Suitable for 50Hz, 60Hz and Frequency drivers
- Adapted for OEMs
- Standard and stainless steel materials
- Special configurations: Horizontal H and PH (booster in line) solutions and low suction pumps.



Low suction pumps UGP-M Series

Standard submersible pumps for operation in vertical position come with the motor below the pump. However, there are situations where the dynamic water level is so low that the water either will not reach the suction body of a standard unit or will remain at a very low level to prevent cavitation.

For such cases, INDAR offers its UGP-M series; submersible pump motor sets in which, besides sharing the most of the features and range of the SP UGP series, the relative position of the pump and the motor is inverted.

Particular **characteristics and advantages:**

- Maximum utilization of the water dynamic level
- Water suction at the lowest part of the pump set
- Motor is self-cooled with pumping water through the cooling shroud
- Environmentally friendly, no noise
- Compact, less space required
- No alignment needed
- Reduced foundation and lifting support infrastructure needed
- Direct transmission of power
- Ready to be installed and operate