



### Background

The experience acquired by INGETEAM **during over 80 years** allows us to provide a wide portfolio of solutions, 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 INGETEAM is the quality offered in the products and services, **guaranteed by the ISO 9001, ISO 14001 and ISO 45001**, 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 Milwaukee (USA) 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.

### World class testing facilities

Quality is not at stake in INGETEAM, 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 the company to fully test its designs to guarantee the best quality in its solutions, 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 m<sup>3</sup>/h
- Head up to 1000 m
- Power: 4000 kW
- Voltage: 13.8 kV
- 50Hz, 60Hz, Frequency converter
- Crane capacity: 40 Tn



INGETEAM INDAR MACHINES S.A.  
 Polígono Industrial Txara, s/n  
 20200 BEASAIN - SPAIN  
 Tel.: 34 943 02 82 00  
 Fax.: 34 943 02 82 01  
 water@ingeteam.com

# Ingeteam



**SUBMERSIBLE  
 WATER ENGINEERING  
 INDAR PUMPS AND MOTORS**



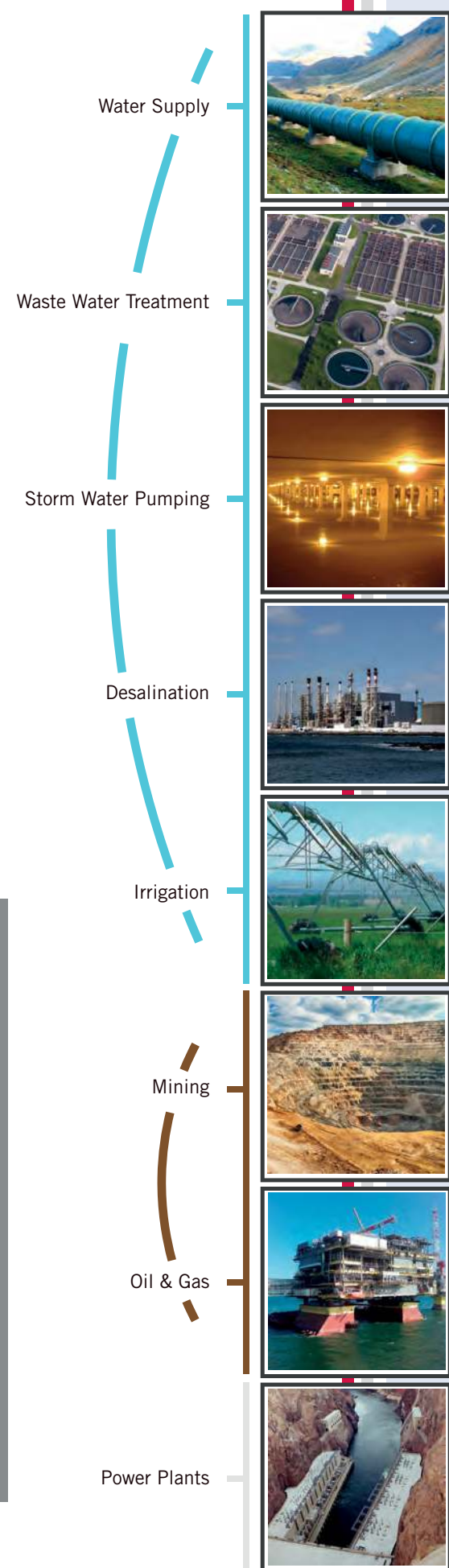
## Submersible solutions for water engineering

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 INDAR 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 INGETEAM, 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.

### 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,...



## INDAR SP BF Series

Flow up to 10 000 m<sup>3</sup>/h  
Head up to 100 m  
**Power up to 1200 kW**  
**Voltages up to 13.8 kV**  
**From 4 to 12 poles**

### Features:

- INDAR 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



## INDAR SP HE Series

Flow up to 21 000 m<sup>3</sup>/h  
Head up to 25 m  
**Power up to 2000 kW**  
**Voltages up to 13.8 kV**  
**From 4 to 14 poles**

### Features:

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



## INDAR SP H Series

### INDAR Axial impeller 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.

## INDAR SP UGP Series

Flow up to 8 000 m<sup>3</sup>/h  
Head up to 1000 m  
**Power up to 4000 kW**  
**Voltages up to 13.8 kV**  
**From 2 to 8 poles**

### Features:

- INDAR 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 INDAR low suction pumps.



## INDAR SP UGP-M Series

### INDAR Low suction pumps

Standard INDAR 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, INGETEAM offers its INDAR UGP-M series; INDAR submersible pump motor sets in which, besides sharing the most of the features and range of the INDAR 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

