



WATER TECHNOLOGY SOLUTIONS



ABOUT US

Water Technology Solutions Lda, is a Mozambican company that has been operating in the country for over 6 years in the field of hydraulic equipment, submersible pumps and motors and all accessories for water wells.

In the market for providing services to companies and individuals, from the beginning Water Technology Solutions, Lda stood out for the reliability and quality of its products and services in terms of water distribution through the use of cutting-edge technology, which the national and international requires.



ABOUT US

Water Technology Solutions is the Official Representative of the American company **Franklin Electric** in Mozambique, being a global leader in the manufacture and distribution of products and systems focused on the extraction, distribution and management of water.

We offer pumps, motors, drives and controls for use in a wide variety of residential, commercial, agricultural, industrial and municipal applications.



PRODUCTS AND SERVICES



- We offer superior quality pumps that are efficient and available at a competitive price.
- We supply pressure pumps, submersible pumps, monoblock pumps, sewage pumps for domestic and industrial use.
- We provide all the accessories for a complete installation.

PRODUCTS AND SERVICES

- We have qualified technicians for installations.
- And we supply all kinds of hydraulic material, such as galvanized pipes, PVC pipes, IPS, PPR, HDPE and the corresponding accessories.



INSTALLATION AND MAINTENANCE SERVICES

- WTS has over 5 years' experience in the supply, installation, professional maintenance and emergency repair of pumping systems from all leading pump manufacturers. With a comprehensive range of pumping solutions suitable for any sector, we have undertaken an extensive range of projects.



GALVANIZED TANK STAND

- We provide elevated storage for reliable water pressure & ensure that a reservoir of water is always available in case of pump failure or other emergencies. perfect for rural, domestic & industrial applications.



SVM SUBMERSIBLE PUMPS

- Franklin Electric's **SVM** submersible well pumps are high quality, efficient and readily available at a competitive price.
- The use of different materials for the internal components eliminates the possibility of pump seizure, ensuring long-term pump operation.

PERFORMANCE

- Flow of 30-400 L/min
- Maximum manometric height 290 meters



SVM SUBMERSIBLE PUMPS



CHARACTERISTICS

Stainless steel motor adapter and discharge head

Polycarbonate impellers, stainless steel bowls and Noryl diffusers

Built-in check valve to protect the pump against water hammer

The impeller design incorporates built-in surge protection.



APPLICATION

Residential

Commercial

Agricultural

Miningnavy

Municipal

Industrial

River water extraction

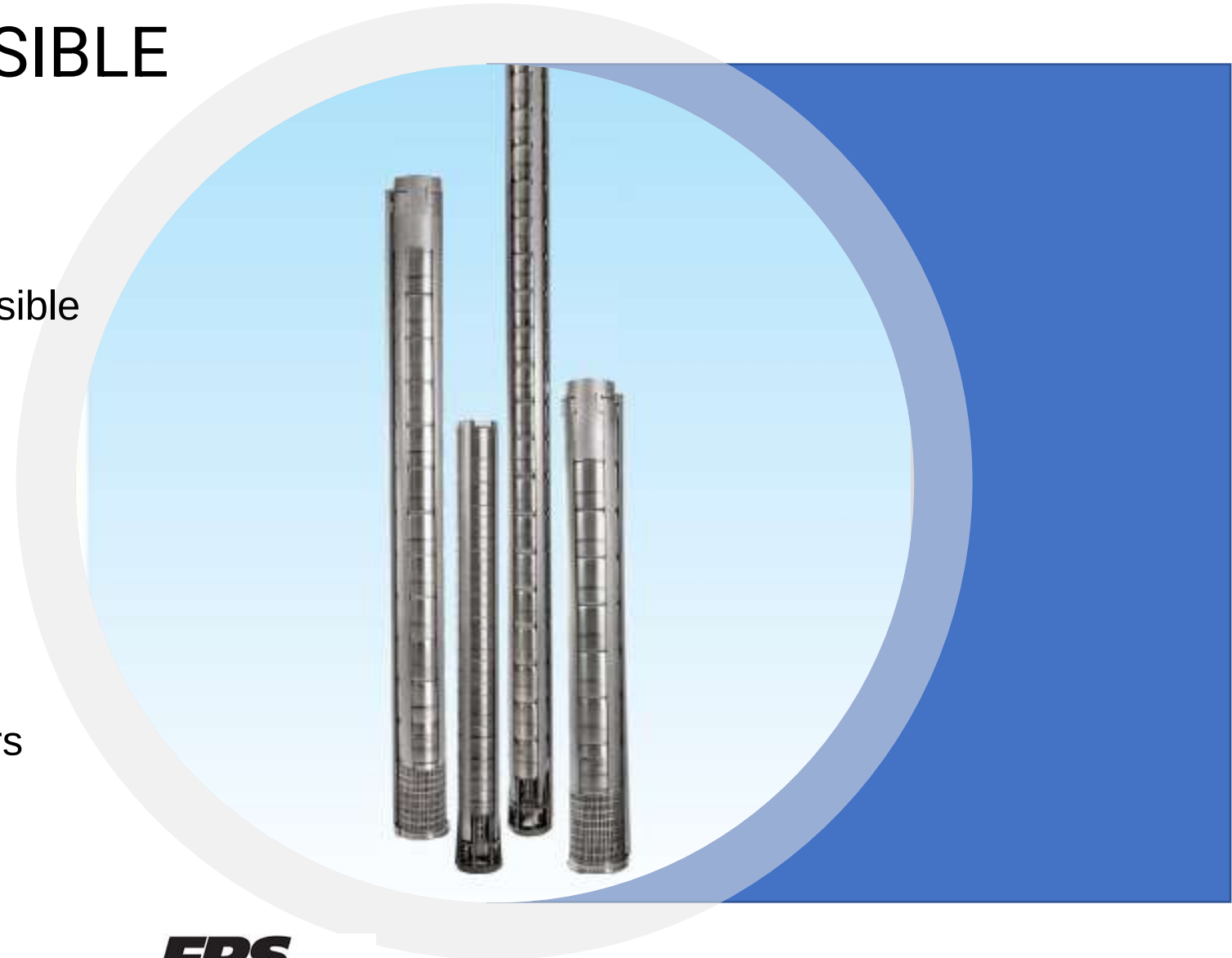
FPS-SS SERIES SUBMERSIBLE PUMPS

Stainless Steel Submersible Pumps

Franklin Electric's **FPS SS series** submersible pumps use high quality stainless steel materials for the most demanding applications.

PERFORMANCE

- Flow up to 300 m³/h
- Maximum manometric height 400 meters



WATER TECHNOLOGY
SOLUTIONS



FPS
Franklin Electric

FPS-SS SERIES SUBMERSIBLE PUMPS



CHARACTERISTICS

Stainless steel impellers and diffusers to resist corrosion

Suitable for operating in a horizontal position

Built-in check valve to protect the pump against water hammer

Energy-efficient hydraulic design for cost-effective operation

Maximum allocable amount of solids = $50\text{g} / \text{m}^3$

Solid dimension: max 2mm

Cast iron engine support.



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FRANKLIN ELECTRIC SUBMERSIBLE MOTORS

Franklin Electric 100mm, 150mm and 200mm encapsulated motors are manufactured to ISO 9001 standard

These motors are the quality unit for submersible pumps, offering maintenance-free long life submersible motor operation.

Features

- Water lubricated thrust
- Radial bearings
- Sand Fighter seal system (150 mm and 200 mm) for sandy applications
- High efficiency electrical design.



FRANKLIN ELECTRIC SUBMERSIBLE MOTORS



CHARACTERISTICS

Hermetically sealed stator, anti-track and self-healing stator resin prevents motor burnout

37 and 45 kW motors up to 50 °C ambient temperature

Sand fighter® engine with SiC mechanical seal All engines pre-loaded and 100% tested

Max. storage temperature -15 °C - +60 °C



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SOLAR PUMP

- The AquaDUTY borehole pump kit contains all the parts needed to supply water for domestic, agricultural, small farm, and other needs. The kit consists of a pump, motor, controller and solar panels with electric booster.
- The solar pumping system uses existing Franklin Electric components to produce a robust, high-output system for use in remote and hostile environments.



SOLAR WATER SUPPLY SYSTEMS

- Solar Water Pumps have been a prime area of concentration in the last 7 years. In this duration, we have been a pioneer in Mozambique and have installed more than 100 installations of Solar water Systems across the country.



SOLAR WATER SUPPLY SYSTEMS

- Installation solar water system for water supply for livestock drinking and irrigation for a rural community in Inhambane.



SOLAR WATER SUPPLY SYSTEMS

- Installation of a drip irrigation system using solar pump system in Inhambane Province



SOLAR WATER SUPPLY SYSTEMS

- Solar Water supply system installed in Mapico, Gaza province.



ELECTRICAL MATERIAL

- We offer a wide range of electrical equipment of different types and sizes to supply energy to homes, buildings, pumping equipment and industrial machinery.
- We have circuit breakers, contactors, relays, lamps, electrical cables and submersible cables, among others.





ELECTRICAL MATERIAL

- Contactors, robust mini contactors, overload relays



robustTa

- Molded Case Circuit Breakers – Winbreak,
- MCCB motor protection circuit breakers



WiNbreak



ELECTRICAL MATERIAL

- MCB circuit breakers and isolators
- Metal and plastic distribution boards



WiNtrip
Distribution Board



ELECTRICAL CONTROL PANEL

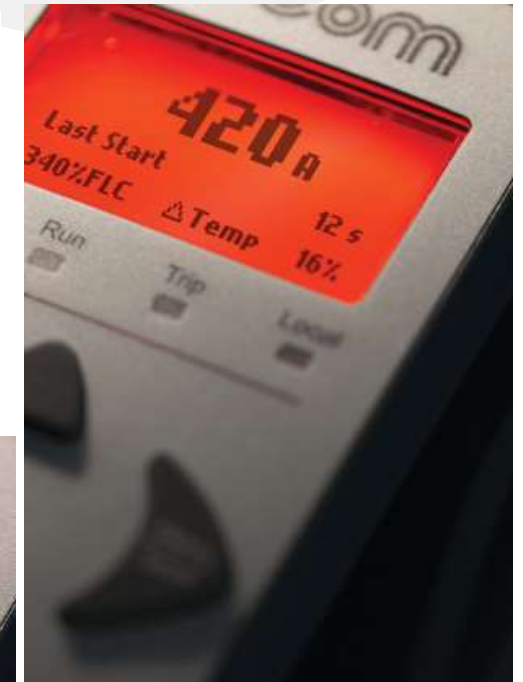
- We assemble motor control boards (single-phase and three-phase) with protection, current oscillation relays and level relays.

Panels below include: Franklin "SubTronic" motor protector, insulator, metal oxide lightning arrestor, and external on/off switch, all in an IP54 enclosure.



SOFT STARTER & DOL MOTOR CONTROL

- In the DOL method of starting a squirrel cage induction motor, the motor is connected to the full supply voltage through a starter. which is controlled by start (normally open) push button and stop (normally closed) push button.
- A soft starter control panel houses and utilizes soft starters as a method of motor control. A soft starter itself is designed to control the acceleration and deceleration motors. It also starts up motors with a reduced power load.



SUPPLY OF CONTROL PANELS FOR INDUSTRIAL APPLICATIONS



Franklin Electric

SubTronic Control panels

- **SubTronic®1P Data 120** control panels are designed as immediate replacements for conventional single-phase motor control boxes.
- These work with standard pressure/flow switches, adding intelligence and protection to the well water system.
- They have dry run protection with auto reset, overvoltage and undervoltage protection with auto reset, etc.
- It has indication of normal operation and other conditions.



Electrical Specifications	
Working Voltage	230V AC Nominal
Voltage Tolerance	184 - 276V AC
Rated insulation voltage	230 Vac
Rated short-time withstand current	50 kA
Rated conditional short-circuit current	50 kA
Current	* see Current Ratings Table
Power	0,25 - 2,2kW

OTHER FRANKLIN ELECTRIC PUMPS

Franklin Electric has a wide range of pumps of different models and capacities, used both for agriculture and water supply in general.

Industrial pumps



FPS
S series

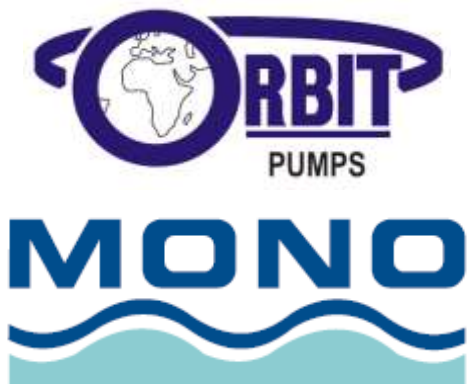
Vertical Pumps



OTHER FRANKLIN ELECTRIC PUMPS

- Franklin Electric's line of industrial pumps are designed to pump viscous, abrasive and shear sensitive products in a variety of industrial applications.
- Suitable for use in shallow wells, Mono hand pumps have been serving rural Africa since the 1960s.
- They are designed for a wide variety of high pressure water transfer applications.

MONO PUMPS



B RANGE

BP RANGE

G RANGE

HD RANGE

HAND PUMPS

M RANGE



Franklin Electric



OTHER PROJECTS



Franklin Electric

SUPPLY OF CHEMICALS FOR WATER TREATMENT

- Public drinking water systems use different water treatment methods to provide safe drinking water for their communities. We supply chemicals for filtration and disinfection for water treatment.



SUPPLY OF VALVES AND FITTINGS

- We supply pipes, pumps, valves and fitting for industrial and mining applications across the country.



SUPPLY OF GALVANIZED PIPES AND FITTINGS

- Supply of galvanized pipes and fitting for new boreholes and water supply network expansion.



SUPPLY OF J.V. COUPLING

- We supplied vast range of couplings for repair PVC and galvanized pipe of municipal water supply company



SUPPLY OF WOODEN POLES

- We supply treated wooden poles of different sizes and diameter for electrification and other projects, according to customer specifications.



SUPPLY OF INFLATABLE RESCUE BOATS

- We supplied high quality inflatable rescue & recovery safety equipment for Emergency Services, Humanitarian Organizations and Search & Rescue Teams using our products, due to exceptional build quality, durability, and price.





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