Submersible Pumps

الشركة السعودية للصناعات الميكانيكية
SAUDI MECHANICAL INDUSTRIES CO.
VISION

To be a leading local manufacturer and reliable partner providing engineered products and solutions to our customers.

MISSION

Supporting the socio-economic development of the Kingdom.
• Enhance local content through technology transfer and human capital development.
• Contribute to the development of Oil & Gas, Water and upcoming industrial initiatives.

Manufacturer of engineered metal products and provider of solutions to our customers.
• Exceed customer expectations through partnerships, high quality and timely delivery.
• Focus on operational excellence in the manufacturing of engineered products.

Involved proactively with our key stakeholders.
• Care for our employees, community and the environment.
• Maximize shareholder value through innovation and effective resource utilization.

VALUES

Commitment
Be reliable and add value to our customers.

Empowerment
Trust our employees to make the right decisions.

Integrity
Show transparency in everything we do.

Excellence
Operate professionally, safely and effectively.

Collaboration
Deliver through cooperation and team work.
Saudi Mechanical Industries Company

SMI is a world-class precision manufacturing company, offering a comprehensive service with emphasis on total customer satisfaction. With a dedicated and experienced team of skilled personnel, we provide an efficient service to achieve the required specifications and quality set by our customers.

PRODUCT RANGE

- "S" Series covers an output range of 90 to 2000 GPM in Standard Construction (Grey CI and Bronze) for 6, 8, 10 and 12 inch applications.
- Custom made pumps for special applications (In standard, bronze and stainless steel construction).
Standard Pump “S” Series

The “S” series provide an output capacity of 90 to 2000 GPM (450 m3/hr) with heads up to 1800 ft (550M). These pumps are offered in two types of construction: 6 inch pumps are threaded construction and 7-11 inch pumps are flanged construction.

- High quality cast iron bowls combined with precision balanced bronze impellers give the highest efficiency and performance possible with built-in non return valve.
- Cast Iron Enameled bowls are available for higher efficiency and lower power consumption.
- Motor brackets are designed to accept all NEMA flanged motors.
- Bowl shafts, screen bolts and motor couplings are of high quality stainless steel.
- Stainless steel cable guard is provided as a standard accessory.
- Special construction materials such as Ni-Al-Bronze, Epoxy coated and stainless steel (304, 316L, Duplex) are available upon request.
Borehole Electric Pumps Series

Tank Installation Diagram

1 - Borehole electric pump
2 - Electric control panel
3 - Gate valve
4 - Pressure gauge
5 - Non return valve
6 - Support
7 - Cooling casing
8 - Power supply cable
S - Positive suction head
$L_s$ - Static level
$L_d$ - Dynamic level
Efficiency
Performance
Dependability

Special Applications
Specialty Submersibles

Special applications are accommodated at SMI in the manufacturing of individual customer specification for submersible pumps. The high experience of manufacturing vertical turbine pumps assures customers of the engineering and performance premium that is made available for the manufacture of Special Submersible applications; designed to serve a long life in extreme conditions of hot and corrosive water. Pump Components are available in a variety of special materials such as stainless steel 304, 316 and Duplex or any bronze alloy to meet the required applications; equally, drop pipes are made of stainless steel with threaded ends or flanged ends to ensure their continuing trouble-free operation.

The technically advanced manufacturing capability of Saudi Mechanical Industries has enabled the company to produce high quality, mechanically engineered submersible pumps. With Computer Numerically Controlled machines (CNC), and together with a strong team of highly qualified designers, engineers and technical support, the emphasis is on quality at every stage of production.
Franklin Electric Motors

Saudi Mechanical Industries Co. is an authorized "OEM" for Franklin Electric Motors. Franklin Electric is the world’s largest manufacturer of submersible motors, offering a wide range to meet all light and medium duty applications. The 4, 6, 8 and 10 inch type provide power sizes for 1/3 HP up to 250 HP with various voltage and ambient temperatures. SMI offers the full range of Franklin Motors to suit all requirements.
## Cable Selection Chart

**maximum lengths in meters for 400V / 50Hz and 5% voltage drop at 30°C ambient**

Jacketed Cable Ampacity, IEC Publication 364-5-523 (1983 edition), Table 52-B1, Installation Methods C & G

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* only for individual conductor cable

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**Note:** The table above provides the necessary information for selecting the appropriate cable size for different power ratings and load conditions. It's crucial to consider factors such as ambient temperature, voltage levels, and current capacities when making these selections. Always consult the manufacturer’s specifications for the most accurate and safe recommendations.