





A foundation, strong & sound

The foundation of Shakti Pumps (India) Ltd. was laid in 1982. From a humble beginning, we have gone from strength to strength to become India's largest manufacturer of submersible pumps and motors today.

An ISO 9001-2015, ISO 14001:2015 & BS OHSAS 18001:2007 company, our cutting-edge manufacturing facility with an installed capacity of 10,00,000 pumps per annum is located in Central India at Pithampur (M.P.).



Quality, a way of life at Shakti.

We accord paramount importance to quality. Be it practices, procedures or people, each and every aspect of our company, comes together to ensure that customers get products and services of the highest quality.

Our quality control and testing labs are amongst the most advanced set-ups in the country - enabling us to meet international quality standards consistently.



Our technology, our strength.

We employ the best-of-world technology to manufacture our products. Our state-of-the-art plant has cutting-edge Japanese and European machinery. The use of robots ensures precision of the highest level.

Ultra-modern CNC machines, stamping machines, cathode electrode deposition plant, etc. speak volumes about our technological strength.





SOLAR DC SUBMERSIBLE PUMPS



Head Max. : 700 m.
Flow Max. : 215 m³/h.
Power Range : 600 to 55000 watt

SOLAR DC SURFACE PUMPS



Head Max. : 50 m.
Flow Max. : 140 m³/h.
Power Range : 900 to 32000 watt

HELICAL PUMPS



Head Max. : 300m
Flow Max. : 50 LPM
Power Range : 300 - 2500 Watt

SSDM PUMP



Head Max. : 289m
Flow Max. : 350 LPM
Power Range: 0.5HP to 5.5HP

SSPO PUMPS



Head Max. : 78 m
Flow Max. : 130 LPM
Power Range: 1.0 to 2.0 HP

SCR, SCRN HIGH HEAD PRESSURE BOOSTER



Head Max. : 475 m.
Flow Max. : 50 m³/h.
Power Max.: 75 kW.

PRESSURE BOOSTER SCM SERIES



Head Max. : 130 m.
Flow Max. : 30 m³/h.
Power Range : 0.5 HP to 10 HP

OPENWELL SHOS CA/SA SERIES



Head Max. : 94 m.
Flow Max. : 158 m³/h.
Power Range: 2 HP to 20 HP

DRIP IRRIGATION (PLAIN DRIP)

Max. Working Pressure : 4 kg/cm²
Size : 12mm, 16mm, 20mm, 32 mm
Thickness : ISI class I and class II
Coil Length : 100m and 300 m



DRIP IRRIGATION (ROUND DRIP)

Max. Working Pressure : 2.5 kg/cm²
Discharge : 2 LPH & 4 LPH
Sizes : 12 mm, 16 mm, 20 mm
Thickness : IS I Class I, II & Class III
Dripper Spacing : 30 cm to 150 cm
Filtration required : 130 micron
Coil Length : 300m, 500m & 100m



DRIP IRRIGATION (FLAT DRIP)

Max. Working Pressure : 2.5 kg/cm²
Discharge : 1 LPH, 2 LPH & 4 LPH
Sizes : 12 mm, 16 mm, 20 mm
Thickness : 14 MIL (Safer), IS Class I, II & Class III
Dripper Spacing : 30 cm to 150 cm
Filtration required : 130 micron



SUBMERSIBLE PUMPS & MOTORS QF SERIES



Head Max. : 800 m
Flow Max. : 440 m³/h
Power Range : 0.37 kW to 185 kW



**VERTICAL MULTI-STAGE
CENTRIFUGAL PUMPS**
SCR, SCRI, SCRN SERIES
Head Max. : 322 m
Flow Max. : 3000 LPM
Power Range : 0.5 to 100 HP

DOMESTIC WATER PRESSURE BOOSTER PUMPS SJP SERIES



Head Max. : 40 m
Flow Max. : 4.5 m³/h
Power Max. : 0.75 kW

PRESSURE BOOSTER PUMPS SH, SHI, SHN SERIES

Head Max. : 60 m
Flow Max. : 14 m³/h
Power Range : 0.5 hp to 3 hp



WASTE WATER PUMPS SVX SERIES

Head Max. : 15 m
Flow Max. : 20 m³/h
Power Range : 1 to 1.5 hp



WASTE WATER PUMPS SSEG Series

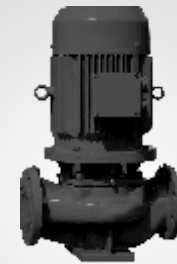
Head Max. : 46 m
Flow Max. : 17 m³/h
Power Range : 0.9 to 4 kW



WASTE WATER PUMPS SDW SERIES

Head Max. : 31 m
Flow Max. : 160 m³/h
Power Range : 0.75 to 7.5 kW

STP PUMP



Head Max. : 160 m
Flow Max. : 2400 m³/h
Power Range : 0.18 to 250 kW

IMMERSIBLE PUMPS SMTR SERIES



Head Max. : 280 m
Flow Max. : 70 m³/h
Power Range : 0.5 to 60 HP

HYDROPNEUMATIC BOOSTER SYSTEMS HYPN SERIES



Head Max. : 5.5 bar
Flow Max. : 1080 m³/h
Power Max. : 75 kW

SHS PUMP



Head Max. : 225 m
Flow Max. : 11660 m³/h
Power Range : 2.2 to 2000 kW

NON SELF-PRIMING PUMPS NSP SERIES



Head Max. : 46 m
Flow Max. : 3 m³/h
Power Range : 0.5 to 1 HP

SELF-PRIMING PUMPS CRP SERIES



Head Max. : 60 m
Flow Max. : 3.5 m³/h
Power Range : 0.5 to 1 HP

END-SUCTION LONG COUPLED PUMPS SNK SERIES



Head Max. : 115 m
Flow Max. : 300 m³/h
Power Range : 0.5 to 150 HP

END-SUCTION CLOSED COUPLED PUMPS SNB SERIES



Head Max. : 96 m
Flow Max. : 192 m³/h
Power Range : 0.5 to 50 HP

OPENWELL PUMPS SOMB SERIES



Head Max. : 33 m
Flow Max. : 22 m³/h
Power Range : 0.5 - 2 hp

FIRE PUMPS



Pressure Max. : 30 bar
Flow Max. : 4550 LPM

RO PUMPS



Head Max. : 149 m
Flow Max. : 4.8 m³/h
Power Range : 0.37 - 2.2 kW

SOLAR SIMHA DRIVE

Solar PV Voltage : 200-450V / 200 - 720V
Nominal AC Voltage Range : 180-350V
Frequency : 0-400 Hz
Efficiency : > 97.1%
MPPT Efficiency : >99%
Ingress Protection Level : IP 64
Out put Power : 0.6 kW to 10 kW
Operating Temp. Range : -20 to 70°C



ELITE SOFT STARTER

Protection class : IP20
Input configurations : 3 phase 3 wire, E
Input voltage range : 415 V \pm 10%, 440 V \pm 10%
Input frequency : 50/60 Hz
Rated current : 30 Amp. to 130 Amp.
Overload current : 150% for 1 minute in bypass mode
Output voltage range : 415 V \pm 10%, 440 V \pm 10%
Output power : 15 HP to 75 HP
Maximum soft start time : 1 minute
Maximum soft stop time : 1 minute
Motor type supported : 3 phase AC-IM/Shakti's S4RM
Efficiency Start : > 95%
Efficiency Run : > 99%



A1 SMART STARTER



SHAKTI RMS DONGLE



KALPAVRIKSHA

Power Rating of :
Support Motor : 2.2kW /3.7kW
Frequency : 0 - 200
Max. Output
Power (AC) : 5000 w
Output Voltage : 415/440VAC



DU DT FILTER

Motor Voltage : 48 - 415 V
Drive switching frequency : 1 - 3.5 kHz
Drive DC Bus voltage : upto 700 V
Motor frequency : 0 - 400 Hz
Rated/ motor current : 14 A
Motor Power : 0.5 to 5 hp
Operating Temp. Range : -10 to 60°C
Ingress Protection : IP 54
Connection Type : 3 - Phase



RESEARCH AND DEVELOPMENT

Recognized and Approved in-house R&D by



भारत सरकार
विज्ञान और प्रौद्योगिकी मंत्रालय
विज्ञान और प्रौद्योगिकी विभाग

GOVERNMENT OF INDIA
Ministry of Science and Technology
Department of Science and Technology
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

More than 50 engineers including PhD, M. Techs and Bachelors from premier institutes of India are working continuously in the development and enhancement of electronics/power electronic products

Dedicated team for IOT, Mobile Apps and Server based control of our products

World class equipments and facilities dedicated to R&D

Collaboration project with Govt. of India in form of Uchchatar Avishkar Yojana (Shakti Pumps + IITD + MHRD + Ministry of Power), PM fellowship program etc. wherein academia and industry collaboration for assured better future.

R&D Collaborations with IISc Bangalore, IIT Delhi, SGSITS Indore, IIST Shibpur etc

32+ patents and several research papers in journals and conferences

Approximately 5 % of revenue investment in R&D



SIMHA UNIVERSAL DRIVE

Leading a New Start

CERTIFICATES IEC 61683, IEC 600682-2-(1, 2, 14, 30)

ABOUT THE PRODUCT

Shakti's Simha Universal Drive is a unique product designed, developed and manufactured in India. This drive makes it possible to run agricultural and industrial motor pump sets using abundant and free solar energy. It supports wide varieties of motors by virtue of its universal design. Its IP 64 design and rust-proof metallic enclosure provides protection from foreign particles (e.g. rain, dust, oil) which obsoletes the need for extra outer case. Moreover, the advanced MPPT algorithm puts it in the list of premium renewable energy products. Therefore, this product is recommended by experts, thanks to its unique features, such as efficiency, zero operating cost, plug and play installation, electrically safe user handlings and longer period of warranty.

Application

All in one solution for driving of various motors like AC-IM, PMSM, IPMSM etc.

Technical Specification

Solar PV Voltage	: 200-450V / 200 - 720V
Nominal AC Voltage Range	: 180-350V
Frequency	: 0-400 Hz
Efficiency	: > 97.1%
MPPT Efficiency	: > 99%
Ingress Protection Level	: IP 64
Out put Power	: 0.6 kW to 10 kW
Operating Temp. Range	: -20 to 70°C

Features



ELITE SOFT STARTER

Patents Filed

IP No. 201721019554A, 201821013344 & 201821013345

ABOUT THE PRODUCT

Shakti's unique ADA based Elite Soft Starter increases motor's lifetime by protecting it from electrical, mechanical and thermal stress. It uses advanced digital and power electronics control leading to stress free operation of motor. It has several inbuilt motor protection features and therefore it keeps the motor safe. It incorporates a novel technology (several patents) which is outcome of years of experience and research. It is easy to install with graphical display and inbuilt GPRS connectivity which cut installation and user efforts. With everything that you need in one unit, from bypass mechanism to overload protection, a single product is there for complete and compact start to stop solution. Furthermore with many application specific features, motor can really enjoy its ride with Shakti's Elite Soft Starter.

Application

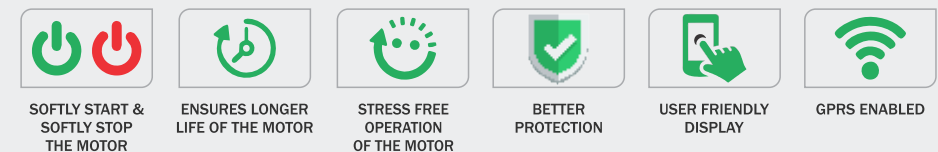
To softly start and softly stop agricultural and industrial three phase AC-IM and Shakti's S4RM Motors.

Technical Specification

Protection class	: IP20
Input configurations	: 3 phase 3 wire, E
Input voltage range	: 415 V \pm 10%, 440 V \pm 10%
Input frequency	: 50/60 Hz
Rated current	: 30 Amp. to 130 Amp.
Overload current	: 150% for 1 minute in bypass mode
Output voltage range	: 415 V \pm 10%, 440 V \pm 10%
Output power	: 15 HP to 75 HP
Maximum soft start time	: 1 minute
Maximum soft stop time	: 1 minute
Motor type supported	: 3 phase AC-IM/Shakti's S4RM
Efficiency Start	: > 95%
Efficiency Run	: > 99%



Features



* Considering continuous product development the information/performance/specifications and illustrations disseminated in this catalogue are subject to change without notice.

DU DT FILTER

ABOUT THE PRODUCT

The applications involving long connecting cables (typically 15 m and above) between the VFD (Variable Frequency Drive) output and motor terminal, high voltage spikes are observed at receiving/motor end. The magnitude of these voltage spikes may go up to double the DC bus voltage of VFD depending on length of the cable. The high du/dt at the drive output is the primary reason for these voltage spikes. These high voltage spikes may lead to insulation failure in the connected motor or cable. This problem can be resolved using an appropriate du/dt filter at the output of the drive.

Conventionally used first order filter reduces this problem however; the second order Shakti du/dt filter mitigates this problem to a greater extent. It is a unique product which is designed, developed and manufactured by Shakti Pumps (India) Ltd. The IP54 design eliminates the requirement of outer casing and provides a fair protection against dust and water. This product comes with a wide variety of distinguished features such as: compact size, shock-proof plug and play connectors, capability to operate in wide temperature range and harsh environments.

Application

Reduces voltage spikes, common mode & bearing current

Technical Specification

Motor Voltage	: 48-415 V
Drive switching frequency	: 1-3.5 kHz
Drive DC Bus voltage	: upto 700 V
Motor frequency	: 0-400 Hz
Rated/ motor current	: 14 A
Motor Power	: 0.5-5 hp
Operating Temp. Range	: -10° to 60° C
Ingress Protection	: IP 54
Connection Type	: 3-Phase

Features

- Extends the life of the motor & its associated cable
- Better filtering with amorphous core inductor
- Reduces common mode current upto 30%
- Applicable upto 500m



PLUG & PLAY
SHOCK-PROOF
CONNECTORS



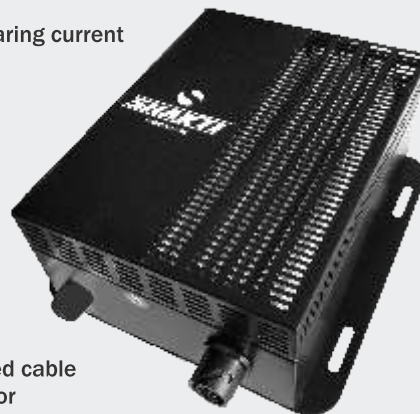
DUST-PROOF &
RAIN-PROOF
IP 54 DESIGN



SUPPORTS WIDE
VARIETIES
OF DRIVES



WIDE
TEMPERATURE
RANGE



A1 SMART STARTER

ABOUT THE PRODUCT

The conventional starters provide limited functionality such as start, stop and basic protections but, what if a starter is smart enough to support everything you can think.

Shakti presents a next generation, IoT enabled smart motor interfacing product which ensures smooth starting, advanced protection and monitoring via integrated micro computer. Incorporation of various advanced features in a single product makes it A1(All in one) Smart Starter (A1SS). The A1SS also comes with IP54 enclosures which provide fair protection against water and dust particles.

Application

Suitable for 1-Phase & 3-Phase AC induction motor

Benefits

- Smooth operation
- Ingress protection includes overload, under/over voltage trip, transient surge, pump stalled trip
- IP 54 design
- Seven segment display for easy monitoring
- Wireless connectivity via Bluetooth and GPRS
- Inbuilt Space for Capacitor

Features

- Ensures longer life of the motor
- Energy Metering
- Better protection
- GPRS & Bluetooth Enabled
- User Friendly Display
- Covers 1 Phase AC - IM & 3 Phase AC - IM
- Frequency 50 Hz & 60 Hz



ENSURES LONGER
LIFE OF THE MOTOR



BETTER PROTECTION



INTELLIGENT ELECTRONIC
FUNCTIONALITY



STRESS FREE
OPERATION OF THE MOTOR



USER FRIENDLY
DISPLAY



GPRS ENABLED &
BLUETOOTH CONNECTIVITY



REMOTE CONTROL



Inbuilt Auto Switch

SHAKTI RMS DONGLE

ABOUT THE PRODUCT

Shakti RMS dongle is a unique IoT product designed & developed with an intention of monitoring and logging the data of the connected equipment. It has got an ability to control the equipment from remote if master equipment allows. This RMS dongle works on simple RS232 / RS485 port with modbus protocol and can upgrade its firmware using OTA update.

Application

- IoT
- RMS
- Data Acquisition

Benefits

- Extraction of offline data
- Plug & Play connection
- Compatible up-to IP65 products
- Works on GSM/ WiFi

Features

- Real Time Monitoring and Control
- Read / Write of the Control Parameters from Server
- In-built Real Time Clock
- In-built Data Logger
- Compatibility with GSM & WiFi



KALPAVRIKSHA

ABOUT THE PRODUCT

[The Kalpavriksha, a hybrid pumping solution is a combination of a solar-powered variable frequency drive and a grid-tied inverter in a single product. This product is aligned to the goals of "KUSUM" scheme by the Government of India. The motor-pump set runs from the solar power input; when the motor-pump set is turned off or when the power demanded by the motor-pump set is low, the additional solar power available is transferred back to the grid thus increasing farmer's or user's income. The product is designed, developed and manufactured in India. Its IP 65 rated rust-proof metallic enclosure provides protection from foreign particles (e.g. rain, dust, oil) which obsoletes the need for an extra outer case. The plug and play installation and electrically safe user handlings are additional attractions of this product.]]

Application : • To run pump set for agriculture • Feed extra power to the grid

Benefits

- Pumpset never operates by grid supply
- It is grid connected Inverter-cum- motor-pump set
- This hybrid inverter controls and manages to deliver the required power as per the farmer's / water needs. The additional power is automatically transferred to grid for saving more money to farmer / user
- The pump will run only on solar power even in case of grid power availability /unavailability.
- Energy evacuation to grid in parallel to pump operation
- Additional agriculture equipment like thresher, grass cutting, etc can be operated by same hybrid inverter

Power rating of supported motor	2.2 kW/3.7 kW
Motor type	PMSM, IPMSM, BLDC
Topology	Two-level VSI with vector control implementation
Frequency range (Hz)	0-200
Max AC output current (A)	13
Peak VFD efficiency	97%
Protection	Shortcircuit, Dryrun, Overtemperature, Overload, etc

Technology	Transformer-less Three Phase On- Grid OPERATION
Output voltage (V)	415/440VAC
Maximum output power (AC)	5000 W
Output frequency	"45~55Hz(50Hz)"
Surge power	1.5 times for 10secs
Waveform	Pure sine wave
Voltage THD, Linear load	<3%
Peak Inverter efficiency	>97%
Efficiency measurement standard	European Standard
Degree of protection	IP 65
Protection	Anti islanding , grid monitoring, Shortcircuit, Over voltage, Overtemperature, Overload, etc
Connection	Through Mc4 Connector



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SOLAR SUBMERSIBLE PUMPS

SOLAR DC SUBMERSIBLE SERIES

Applications

- Ground water lowering
- Irrigation systems
- Industrial Application
- Drip irrigation, Sprinkler
- Tank / Cistern filling
- Wildlife Refuge

Features

- High flow system for faster tank fill and significant water output.
- Proven motor and pump technology for long-term reliability
- Clean and pollution free energy, Eco-friendly.
- Ideal for remote areas, where electricity is not available or availability is capital intensive.
- Suitable for day time irrigation, Continuous supply for 6-8 hours in a day.
- Soft start feature prevents water hammer and increases system life Easy to operate.
- Simple installation and maintenance free.

Controller Features

An easy to use interface is provided to enhance configurability and enable remote system monitoring.

- A three-digit seven-segment display provides a detailed indication of system status.
- A continuous data connection for remote telemetry is made available via an RS-485 port. (Optional)

Protection Features

- Dry run Protection.
- Overload Protection
- Open Circuit Protection
- Short Circuit Protection
- Over Heat

Technical Specification

Head Max : 700 m.
Flow Max : 215 m³/h.
Power Range: 600 to 55000 watt



SOLAR DC SURFACE SERIES

Applications

- Ground water lowering
- Irrigation systems
- Industrial Application
- Drip irrigation, Sprinkler
- Tank / Cistern filling
- Wildlife Refuge

Features

- High flow system for faster tank fill and significant water output.
- Proven motor and pump technology for long-term reliability
- Clean and pollution free energy, Eco-friendly.
- Ideal for remote areas, where electricity is not available or availability is capital intensive.
- Suitable for day time irrigation, Continuous supply for 6-8 hours in a day.
- Soft start feature prevents water hammer and increases system life Easy to operate.
- Simple installation and maintenance free.

Controller Features

An easy to use interface is provided to enhance configurability and enable remote system monitoring.

- A three-digit seven-segment display provides a detailed indication of system status.
- A continuous data connection for remote telemetry is made available via an RS-485 port. (Optional)

Protection Features

- Dry run Protection.
- Overload Protection
- Open Circuit Protection
- Short Circuit Protection
- Over Heat

Technical Specification

Head Max : 50 m.
Flow Max : 140 m³/h.
Power Range: 900 to 32000 watt



SOLAR SUBMERSIBLE PUMPS

KALPAVRIKSHA

SSP SQF SERIES

Applications

- Ground water lowering
- Irrigation systems
- Industrial Application
- Drip irrigation, Sprinkler
- Tank / Cistern filling
- Wildlife Refuge

Features

- High flow system for faster tank fill and significant water output.
- Proven motor and pump technology for long-term reliability
- Clean and pollution free energy, Eco-friendly.
- Ideal for remote areas, where electricity is not available or availability is capital intensive.
- Suitable for day time irrigation, Continuous supply for 6-8 hours in a day.
- Soft start feature prevents water hammer and increases system life Easy to operate.
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Controller Features

An easy to use interface is provided to enhance configurability and enable remote system monitoring.

- A three-digit seven-segment display provides a detailed indication of system status.
- A continuous data connection for remote telemetry is made available via an RS-485 port. (Optional)

Protection Features

- Dry run Protection.
- Overload Protection
- Open Circuit Protection
- Short Circuit Protection
- Over Heat

Technical Specification

Head Max : 300 m.
Flow Max : 50 LPM
Power Range : 300 to 2500 watt



Applications

- To run pump set for agriculture.
- Feed extra power to the grid.

Features

- Pumpset never operates by grid supply.
- It is grid connected Inverter-cum- motor-pump set.
- The pump will run only on solar power even in case of grid power availability /unavailability.
- Energy evacuation to grid in parallel to pump operation.
- This hybrid inverter control and manage to required power as per the farmer / user water need and additional power automatically transferred to grid, for saving more money to farmer / user.
- Additional agriculture equipment like thresher, grass cutting, etc can be operated by same hybrid inverter, if we only change the motor of equipment inline to inverter.

Technical Specification

Power rating of supported motor	2.2 kW/3.7 kW
Motor type	PMSM, IPMSM, BLDC
Topology	Two-level VSI with vector control implementation
Frequency range (Hz)	0-200
Max AC output current (A)	13
Peak VFD efficiency	97%
Protection	Shortcircuit, Dryrun, Overtemperature, Overload, etc

Technology	Transformer-less Three Phase On- Grid OPERATION
Output voltage (V)	415/440VAC
Maximum output power (AC)	5000 W
Output frequency	"45~55Hz(50Hz)"
Surge power	1.5 times for 10secs
Waveform	Pure sine wave
Voltage THD, Linear load	<3%
Peak Inverter efficiency	>97%
Efficiency measurement standard	European Standard
Degree of protection	IP 54
Protection	Anti islanding , grid monitoring, Shortcircuit, Over voltage, Overtemperature, Overload, etc
Connection	Through Mc4 Connector



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FIRE PROTECTION PUMP

SUBMERSIBLE MOTOR

PREMIUM 100 & SUPER PREMIUM 150

Applications

- Industrial and domestic building
- Hotels and hospitals
- Power plant and hydro plant

Features

- High efficiency
- Suitable for slightly aggressive liquids
- Reliability
- Service friendly
- Space saving

Technical Specification

Pressure Max. : 30 Bar
Flow Max. : 4550 LPM (1202 GPM)
Design Standard : NFPA 20, IS 5020, EN 12845, NAC, NBC



Applications

Submersible motors are suitable to couple with deepwell submersible pumps end, used for Irrigation, Domestic water supply Fountains, Industrial water supply, Pressure Boosting units, Ponds, Gardens, Sprinklers Systems and Mining

Features

- Hermetically sealed Stator , Anti Track, Self Healing Stator Resin prevents motor burn out
- Removable " water resistant lead connector"
- Available an standardised NEMA head and shaft end
- Water lubricated radial and thrust bearings
- High efficiency electrical design low operation cost, cool running winding

Motor Sizes

Premium 100 Motor : 0.37 to 7.5 kW
Super Premium 150 Motor : 4 to 22 kW



SUBMERSIBLE MOTOR

SS 100, 150, 200, 250 REWINDABLE SUBMERSIBLE MOTOR

Applications

Submersible motors are suitable to couple with deepwell submersible pumps end, used for Irrigation, Domestic water supply Fountains, Industrial water supply, Pressure Boosting units, Ponds, Gardens, Sprinklers Systems and Mining

Features

- High operating efficiency
- Water cooled rewindable motor
- Can be easily dismantled & repaired
- Available an standardised NEMA head and shaft end
- Sic Shaft Seal for maximum sand protection.

Motor Sizes

MCIP 100 Motor	: 0.37 to 5.5 kW
SML 150 Motor	: 2.2 to 15 kW
MTSF 150, 200 & 250 Motor	: 4.0 to 185 kW



SUBMERSIBLE PUMP

QF V4, V6, V8, V10, V12 & V14 SERIES

Applications

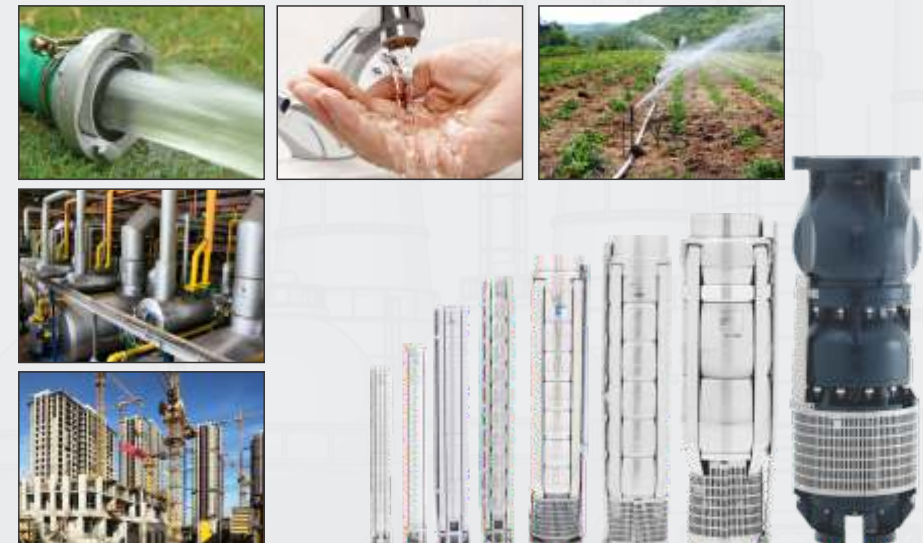
- Ground water supply to water works
- Irrigation, Domestic water supply
- Pressure boosting units, Ponds
- Fountains, Industrial water supply
- Gardens, Sprinkler Systems and Mining

Features

- High operating efficiency
- Highly durable & hygienic
- Good resistance to sand
- Can be easily dismantled and repaired
- Long service life as all components are stainless steel

Technical Specification

Head Max.	: 800 m.
Flow Max.	: 440 m ³ /h.
Liquid Temp.	: 0 to 60°C



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WATER FILLED SUBMERSIBLE PUMPS & MOTORS

SSDM SERIES 50 Hz

Applications

- Domestic and industrial water supply
- Sprinkler and drip irrigation systems
- Farmhouses, Nurseries

Features

- Motor easy to repairable and rewindable
- Motor withstand wide voltage 180/240V/ 50Hz for single phase

Technical Specification

Head Max.	: 289 m
Flow Max.	: 350 LPM
Power Range	: 0.5 to 5.5 hp
Liquid Temp. Max	: 30 °C



MULTISTAGE SUBMERSIBLE PUMP

SSPO 5 SERIES 50 Hz

Applications

As a result of their high efficiency and reliability they are suitable for use with clean water in domestic, civil & agricultural applications such as the distribution of water in combination with pressure sets, for the irrigation of gardens and allotments and for pressure boosting, etc.

Features

- High Quality Of Stainless Steel Motor Body
- Build In Winding Parts
- Stainless Steel Shaft
- Stainless Steel Impeller

Technical Specification

Head Max.	: 78 m
Flow Max.	: 130 LPM
Power Range	: 1.0 to 2.0 hp
Liquid Temp. Max	: 30 °C



HYDROPNEUMATIC BOOSTER SYSTEM HYPN

Applications

Shakti Hydro SMPC Booster system are design for transfer and pressure boosting of clean water in places such as :

- Water works
- Hospitals
- Hotels
- Schools
- Industries
- Municipal corporation water supply

Depending on the applications, Shakti hydropneumatic systems comes in different configurations

- SMPC-E : fixed speed type.
- SMPC-F : variable speed systems with externally mounted single frequency drive in Shakti control panel e/w Shakti controller and HMI display.
- SMPC-S : variable speed systems with externally mounted frequency drive per pump in Shakti control panel e/w Shakti controller and HMI display (non standard).

Features

- Over voltage Protection
- Fully automatic cascade control
- Auto On/Off as per requirement of water
- Protection against VFD failure
- Pump start / stop count

Technical Specification

Head Max.	: 15.5 bar
Flow Max.	: 1080 m ³ / h
Power Max.	: 75 kW
Liquid Temp.	: 0 to +120 °C
Degree of Protection	: IP 55
Class of Insulation	: 'H'
Type of Duty	: S1
No. of Pumps	: 2 to 5



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VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

SCR, SCRI & SCR N SERIES

Applications

The pumps are suitable for liquid transfer & pressure boosting in :

- Washing systems in Industries
- HVAC
- Water supply systems
- Water treatment systems
- Fire fighting systems
- Industrial plants
- Boiler feeding systems
- Pharma plants

Features

- High operating efficiency
- Suitable for slightly aggressive liquids
- Dynamically Balance Mechanical Seal : Sic vs Sic / Optional
- Precise parts for hygiene
- Space saving

Technical Specification

Head Max.	: 322 m
Flow Max.	: 3000 LPM
Power Range	: 0.5 to 100 hp
Liquid Temp.	: -40 to +180 °C, on request after +120 °C
Degree of Protection	: IP 55
Class of Insulation	: 'H'
Type of Duty	: S1



SCR, SCR N HIGH HEAD PRESSURE BOOSTER

SCR, SCR N HIGH HEAD PRESSURE BOOSTER

Applications :

The SCR, SCR N high-pressure series is a multi-purpose pump Max suitable for a variety of different applications demanding reliable and cost-efficient supply.

SCR, SCR N handles a variety of liquids from potable water to industrial liquids within a very wide temperature, flow and pressure scale. Below is a list representing some general examples of applications requiring a high pressure.

Pressure Boosting

- Process water systems
- Washing and cleaning system in industries
- High-pressure washdown systems
- Boiler feed and condensate system

Water Treatment

- Ultra-filtration systems
- Reverse osmosis systems.

Features

- High operating efficiency
- Precise parts for hygiene
- Suitable for slightly aggressive liquids
- Space saving
- Dynamically Balance Mechanical Seal : Sic vs Sic / Optional

Technical Specification

Head Max.	: 475 m
Flow Max.	: 150m ³ / h
Power Max.	: 75 kW
Liquid Temp.	: 0 to +120 °C
Degree of Protection	: IP 55
Class of Insulation	: 'H'
Type of Duty	: S1



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IMMERSIBLE PUMPS

SMTR SERIES

Applications :

- Boring
- Milling
- Grinding
- Spark Erosion
- Wire Cutting
- Turning
- Chilling
- Part Washing
- Condensate System
- Pumping of cooling lubricants for machine tools

Features :

- Excellent hydraulic performance
- Study and compact design
- Stainless steel shaft
- Dynamically balanced rotation of all parts
- Quiet and maintenance free
- Interchangeability for easy replacement

Technical Specification :

Head Max.	: 280 m
Flow Max.	: 70 m ³ / h
Power Range	: 0.5 to 60 hp
Liquid Temp.	: -10 to +90 °C
Degree of Protection	: IP 55
Class of Insulation	: 'H'
Type of Duty	: S1



SINGLE SHAFT VERTICAL MULTISTAGE PUMP

RO SERIES

Applications

- Industrial & Domestic Pressure Booster
- Domestic Water Supply
- RO/DM Plant/Water Circulation
- Air Conditioning & Chiller Plant

Features

- Stainless Steel Impellers, Shaft and Stage casings (SS 304/SS 316)
- All single phase motors are fitted with thermal motor protector
- Strengthened cartridge seals
- Enhanced hydraulic efficiency
- Good compatibility and environment friendly
- Low noise level and low vibration level

Technical Specification

Head Max.	: 149 m
Flow Max.	: 4.8 m ³ / h
Power Range	: 0.37 to 2.2 kW
Liquid Temp.	: 0 to +90 °C
Degree of Protection	: IP 55
Class of Insulation	: 'H'
Type of Duty	: S1



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HORIZONTAL MULTISTAGE CENTRIFUGAL PUMPS

SH, SHI, SHN, SHNG SERIES

Applications

- Suitable for liquid transfer
- Small industries water supply systems
- HVAC
- Water treatment system
- Industrial plants
- Pressure boosting systems
- Domestic water supply
- Horticulture irrigation systems

Features

- Compact Design
- Worldwide usage
- High reliability
- Easy to service and install
- Wide performance Max
- Silent operation
- Fully stainless steel design
- Booster sets for domestic water supply
- Automatic start / stop when equipped with pressure control or pressure tank

Technical Specification

Head Max.	: 60 m.
Flow Max.	: 14 m ³ /h
Power Range	: 0.5 to 3.0 hp
Liquid Temp.	: 0-90°C
Degree of protection	: IP 55
Class of Insulation	: 'H'
Type of Duty	: S1



PRESSURE BOOSTER PUMPS

SCM SERIES

Applications

- Suitable for liquid transfer
- Small industrial water supply system
- Washing system
- HVAC
- Water treatment system
- Industrial plants
- Pressure boosting systems
- Domestic water supply
- Horticulture irrigation systems

Features

- Compact Design
- Worldwide usage
- High reliability
- Easy to service and install
- Wide performance Max
- Silent operation
- Fully stainless steel design
- Booster sets for domestic water supply
- Automatic start / stop when equipped with pressure control or pressure tank

Technical Specification

Head Max.	: 130 m.
Flow Max.	: 30 m ³ /h
Power Range	: 0.5 to 10.0 hp
Liquid Temp.	: 0-90°C
Degree of protection	: IP 55
Class of Insulation	: 'H'
Type of Duty	: S1



DOMESTIC WATER PRESSURE BOOSTER PUMPS

SJP SERIES

Applications

- Wide variety of water supply and transfer duties in Homes
- Used for Horticulture Irrigation
- Used for small scale service Industries
- Gardening and Hobby activities

Features

- Self-Priming Pump
- Stable operation even in case of air pockets in the liquid
- A plug having two different setting possibilities (open & close) for maximum discharge, maximum efficiency, etc.
- Easy installation
- Dynamically balanced rotating parts to ensure minimum vibration during running
- Replaceable wearing parts and hence longer life
- Easy maintenance and spares availability
- Automatic start/stop when equipped with Press control or pressure tank.
- Booster sets for small-scale water supply
- Silent Operation

Technical Specification

Position (1) if the valve is completely open	
Head Max.	: 40 m
Flow Max.	: 4 m ³ / h
Position (2) if the valve is completely close	
Head Max.	: 23 m
Flow Max.	: 4.5 m ³ / h
Power Max.	: 0.75 kW
Liquid Temp.	: 0 to +40 °C
Degree of Protection	: IP 44
Class of Insulation	: 'H'
Type of Duty	: S1



SPLIT CASING PUMP

SHS SERIES

Application

- Fire-fighting system
- Air-conditioning circulation.
- Electric power station.
- irrigation, building, industrial water supply system.
- Liquid transportation for water work

Feature

The Shakti SHS split case pump is a single stage, centrifugal volute pump with high energy efficiency and low life-cycle costs. Ease of service and long-term reliability are two of the selling features of the SHS pumps. The split case design enables removal and dismantling of the internal pump parts (bearings, wear rings, impeller, and shaft seals) without disturbing the motor or pipework. The two bearing design means less vibration and higher reliability. The separate bearing housings allow for inspection of the seals, sleeves and bearings without removing the top half of the casing.

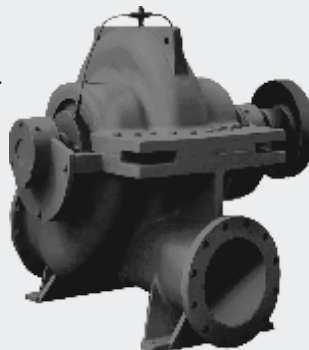
The double-suction design reduces axial forces by directing flow into both sides of the impeller. The double-volute design, available on most models, reduces the radial load and minimizes noise and vibration. Shaft sleeves are used to protect the shaft from corrosion and wear, thus extending the overall life of the shaft and the pump.

- The pumps are non-self-priming, centrifugal volute pumps with radial inlet and radial outlet ports and horizontal shaft.
- The rotating assembly is dynamically balanced.
- Impellers are hydraulically balanced.

Technical Specification

Shakti SHS pumps are available with 2, 4, 6 and 8 pole motors.

Head Max.	: 225 m.
Flow Max.	: 11660 m ³ /h.
Power Range	: 2.2 to 2000 kW.
Liquid Temp.	: <105°C.



SUCTION VERTICAL CENTRIFUGAL PUMP STP INLINE (SINGLE STAGE)

STP SERIES

Application

1. STP series vertical centrifugal pump is used to transport pure-water and other liquids, the physical properties of which are similar to those of pure-water, in industrial and cities water supply and drainage, high buildings booster water supply, gardens irrigation, fire-fighting booster, remote water supply, warming systems, circular booster of cold & hot water in bath rooms as well as in competitions of equipments, the operation medium temperature is below 80 .

Features

1. Compact structure, small volume, beautiful outlook. The lower barycenter of the vertical structure which coincides with the center of the pump feet strengthens the stability of running and the duration.

2. Easy to mount. Because of the same apertures of both inlet and outlet which also locate on the same central line, the pump can be directly mounted on any part of the pipeline just as a valve. Mounting feet are equipped with the pump so that it can be stably mounted.

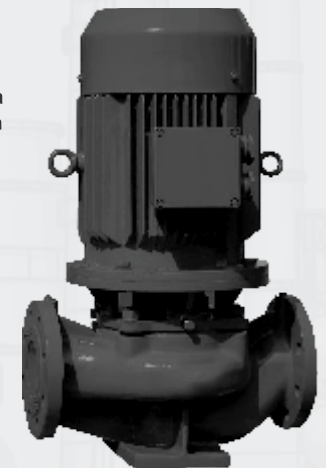
3. Stable running, low noise, high concentricity of components. Bearings of low noise are used for the motor, the impellers are of best dynamic and static balance, no vibration at running and the environment thus being improved.

4. No leakage. The shaft is mechanically sealed with carbide alloy wearable material, settling the serious leakage of the filling seal of a centrifugal pump, extending the duration and ensuring the operation place clean and tidy.

5. Easy to maintain. Not necessary to remove the pipeline for check-out and maintenance, only to take out the nuts on the pump lid, the motor and the driving components.

Technical Specification

Head Max.	: 160 m.
Flow Max.	: 2400 m ³ /h.
Power Range	: 0.18 to 250 kW.
Liquid Temp.	: <80°C.



END-SUCTION LONG COUPLED PUMPS

SNK SERIES

Applications

- The end suction pumps are especially suitable for water distribution in large scale irrigation system.
- Industrial liquid transfer
- HVAC
- Fire fighting system

Features

- The pumps have back pull out design enabling the removal of the motor without dismantling the pump.
- The pump can be driven by diesel engine, DG set and TEFC motor
- Dynamically balanced mechanical seal C vs. SiC / Optional.

Technical Specification

Head Max.	: 170 m
Flow Max.	: 300 m ³ / h
Power Range	: 2.0 to 220 hp
Liquid Temp. Max	: 120 °C
Degree of Protection	: IP 55 / 54
Class of Insulation	: 'H'
Type of Duty	: S1



END-SUCTION CLOSE COUPLED PUMPS

SNB SERIES

Applications

- The end suction pumps are especially suitable for water distribution in large scale irrigation system.
- Industrial liquid transfer
- HVAC
- Fire fighting system

Features

- The pumps have back pull out design enabling the removal of the motor without dismantling the pump.
- Dynamically balanced mechanical seal C vs. SiC / Optional.

Technical Specification

Head Max.	: 96 m
Flow Max.	: 192 m ³ / h
Power Range	: 0.5 HP to 50 hp
Liquid Temp. Max	: 120 °C
Degree of Protection	: IP 55 / 54
Class of Insulation	: 'H'
Type of Duty	: S1



OPEN-WELL PUMPS

SHOS CA/SA SERIES

Applications

- Rural and Urban water installations
- Water supplies for high rise buildings
- Water circulating system for lawn & gardens
- Agriculture lift sprinkler and drip irrigation
- Decorative water fountains

Features

- Ultra modern design
- Superior design materials and manufacturing processes assure a longer life
- Easy installation
- Silent vibration free running

Technical Specification

Head Max.	: 94 m
Flow Max.	: 158 m ³ / h
Power Range	: 2 HP to 20 hp
Liquid Temp. Max	: 33 °C
Degree of Protection	: IP 58
Type of Duty	: S1



OPEN-WELL PUMPS

SELF-PRIMING PUMPS

PERIPHERAL PUMPS

SOMB SERIES

Applications

- Rural and Urban water installations
- Water supplies for high rise buildings
- Water circulating system for lawn & gardens
- Agriculture lift sprinkler and drip irrigation
- Decorative water fountains

Features

- Ultra modern design
- Superior design materials and manufacturing processes assure a longer life
- Easy installation
- Silent vibration free running

Technical Specifications

Head Max.	: 33 m.
Flow Max.	: 22 m ³ /h
Power Range	: 0.5 to 2.0 hp
Liquid Temp. Max	: 33°C
Degree of Protection	: IP 58
Type of Duty	: S1



CRP SERIES

Applications

- Domestic water supply
- Water transfer applications
- Home pressure boosting
- Construction site
- Garden / fountains

Features:-

- High quality die cast aluminum motor body
- Anti corrosion coated cast iron parts
- In built thermal overload protection
- SS shaft
- Bronze impeller
- Double sealed ball bearings

Technical Specifications

Head Max.	: 60 m.
Flow Max.	: 3.5 m ³ /h
Power Range	: 0.5 to 1.0 hp
Liquid Temp. Max	: Max. 33°C
Degree of Protection	: IP 58
Class of Insulation	: B
Type of Duty	: S1



NSP SERIES

Applications

- Residential
- Washing system
- Gardens
- Civil applications

Features:-

- Excellent hydraulic performance
- Sturdy and compact
- Good suction lift characteristics
- Brass insert is provided in the pump casing
- Dynamic balanced rotating parts
- Quiet and maintenance free

Technical Specifications

Head Max.	: 46 m.
Flow Max.	: 3.0 m ³ /h
Power Range	: 0.5 to 1.0 hp
Liquid Temp. Max	: 40°C
Degree of protection	: IP 58
Class of insulation	: F
Type of Duty	: S1
Max. Suction lift	: 8m



WASTE WATER PUMPS

SVX SERIES

Applications

- Draining flooded water from the basement / car parking
- Drainage water / car washes / empty Swimming pools
- Municipal Corporation Drainage Line
- Municipal Corporation Drainage Tankers

Features

- High Quality of Stainless Steel Motor Body
- Built-in Winding Parts
- Rewindable and easy to repair
- Solids passage
- upto Ø35 mm for SVX10-15/35
- upto Ø50 mm for SVX 10-15/50

Technical Specification

Head Max.	: 15 m
Flow Max.	: 20 m ³ / h
Power Range	: 1 to 1.5 hp
Liquid Temp. Max	: +40 °C
Degree of Protection	: IP 68
Class of Insulation	: 'H'
Type of Duty	: S1



SSEG SERIES

Applications

The SSEG pumps are ideal for use in sparsely populated areas where gravity sewage systems are not available. Examples include small villages, farm areas, and areas with difficult topography, such as rocky terrains with large differences in levels, or any other area where a pressurized system offers advantages.

Features

- Clamp connection between motor and pump.
- Cartridge shaft seal.
- Grinder system at inlet of pump ensures extremely high efficiency and reliable operation.
- Smart Trim system enables quick and easy impeller clearance adjustment in order to maintain peak performance.

Technical Specification

Head Max.	: 46 m
Flow Max.	: 17 m ³ / h
Power Range	: 0.9 kW to 4 kW
Liquid Temp. Max	: +40 °C
Degree of Protection	: IP 68
Class of Insulation	: 'F'
Type of Duty	: S1



WASTE WATER PUMPS

SDW SERIES

Applications

- Waste water drainage in factories, Construction Sites and Commercial Facilities Drainage system in municipal sewage treatment plant
- Industrial Sewage and Effluent treatment Plants
- Municipal Projects
- Residential and building projects

Features

- High efficiency motor
- Anti-Rust Corrosive motor housing
- Non -clogging, minimized abrasive wear
- Superior back to back double mechanical seal
- Maximum particle size upto 45mm

Technical Specification

Head Max.	: 31 m
Flow Max.	: 160 m ³ / h
Power Range	: 0.75 kW to 7.5 kW
Liquid Temp.	: ≤ 40° C
Degree of Protection	: IP 68
Class of Insulation	: 'B'
Type of Duty	: S1



SHAKTI PIPES

Complete Solutions in Agricultural Irrigation.

Application

- Domestic portable water supplies.
- Agriculture & Irrigation purpose.
- Industrial Mining & Chemical distribution purpose.

Features

- Light Weight, Easy to Transport, carry, Handle & Install.
- Saves energy very cost effective, long lasting.
- Resistant to chemicals.
- Superior Design
- Leak proof and economical and maintenance free.



SHAKTI CABLE

Application

- Applicable for submersible motor
- Applicable for surface motor
- Applicable for domestic & industrial

Features

- Manufactured from bright annealed 99.97% pure bare copper conductors these cables have low conductor resistance.
- The inner cores are insulated with a special grade PVC compound formulated and manufactured in - house.
- The tough robust outer PVC jacket protects it from the oils, greases, various chemicals and abrasions, there by giving long life and electrical safety.



DRIP IRRIGATION

PLAIN LATERAL

Applications

Agriculture & Horticulture
Irrigation of fields & plants

Features

- Made of imported virgin raw material
- Long life
- UV resistant
- Water & power saving
- Lesser supervision required

Technical Specification

Max. Working Pressure : 4 kg/cm²
Size : 12mm, 16mm, 20mm, 32 mm
Thickness : ISI class I and class II
Coil Length : 100m and 300 m



FLAT DRIP

Applications

Agriculture & Horticulture
Irrigation of fields & plants

Features

- Made of imported virgin raw material
- Long life
- UV resistant
- Customized coil length option
- Uniform flow
- Imported dripper

Technical Specification

Max. Working Pressure : 2.5 kg/cm²
Discharge : 1 LPH, 2 LPH & 4 LPH
Sizes : 12 mm, 16 mm, 20 mm
Thickness : 14 MIL (Safer), ISI Class I, II & Class III
Dripper Spacing : 30 cm to 150 cm
Filtration required : 130 micron



ROUND DRIP

Applications

Agriculture & Horticulture
Irrigation of fields & plants

Features

- Made of imported virgin raw material
- Long life
- UV resistant
- Customized coil length option
- Uniform flow
- Imported dripper

Technical Specification

Max. Working Pressure : 2.5 kg/cm²
Discharge : 2 LPH & 4 LPH
Sizes : 12 mm, 16 mm, 20 mm
Thickness : ISI Class I, II & Class III
Dripper Spacing : 30 cm to 150 cm
Filtration required : 130 micron
Coil Length : 300m, 500m & 100m



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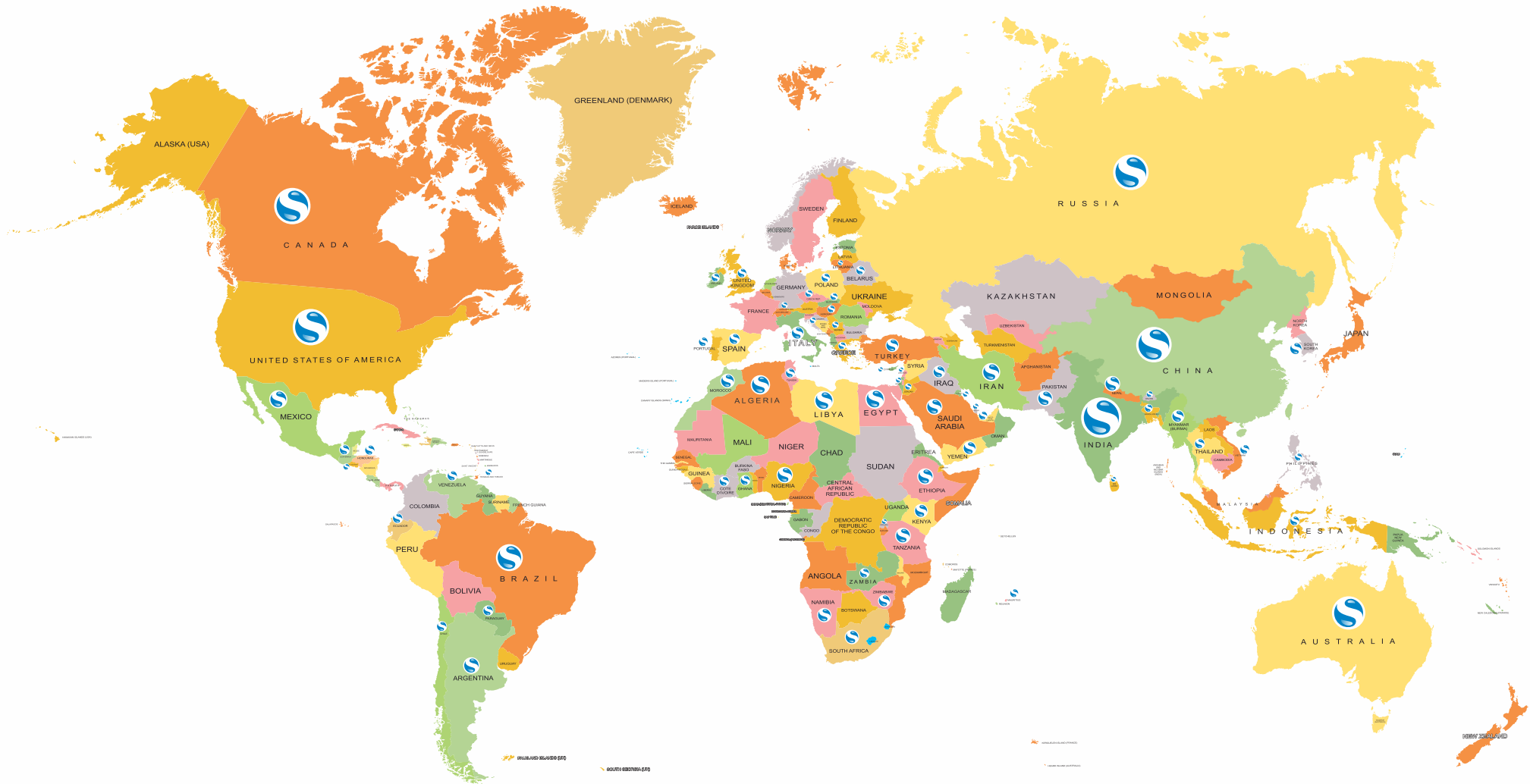


Various certifications - a proof of our excellence.

Various certifications recognize our commitment to excellence. Bureau of Energy Efficiency (BEE) has granted 5 star ratings to more than 260 of our pump models for their superior energy efficiency. We have also been certified by independent bodies like UL, CE, ISO, BIS, ISI, etc.



OUR PRESENCE

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Oct./2019-20/L6/500

Oct./2019/R4