DISCOVER THE WORLD OF KIRLOSKAR PUMPS AND VALVES

Enriching Lives

'Fluid Management for Better Tomorrow'

KIRLOSKAR BROTHERS LIMITED

Established 1888

A Kirloskar Group Company

Global Headquarter:
"Yamuna", Baner, Pune.

Why KBL?

Optimised pumping solutions across market segments from concepts to commissioning

Largest manufacturer and exporter of centrifugal pumps from India

Provider of energy efficient pumping solutions to core sectors

State-of-the art integrated manufacturing facilities

Manufacturer of the largest pumps by size and horsepower in India

Commands the highest market presence amongst pump manufacturers in India

Pioneer manufacturer of centrifugal pumps in India

Comprehensive Fluid Handling Solutions

ABOUT KBL

Kirloskar Brothers Limited (KBL) is a world-class pump manufacturing company with expertise in the engineering and manufacturing of fluid management systems. Established in 1888 and incorporated in 1920, KBL is the mother company of the Kirloskar Group. KBL provides complete fluid management solutions for large infrastructure projects in the areas of water supply, power plants, irrigation, building & construction, oil & gas industry, and marine & defence. KBL manufactures industrial, agriculture and domestic pumps, valves and hydro-turbines.

Over the years, KBL has developed innovative products, which have enabled it to carve a niche globally. It is a global conglomerate and is equipped with the best technologies in the world. It is also India's largest centrifugal pump manufacturer with nine manufacturing facilities in India along with other international subsidiaries and operations in the Netherlands, South Africa, Thailand, the United Kingdom, and the United States of America. KBL has over 16,000 channel partners globally and is supported by best-in-class Pan-India network of authorised service and refurbishment centres.

KBL is the first Indian pump manufacturing company to be certified for Integrated Management System, (ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 50001:2018).

Its factories deploy Total Quality Management tools using the European Foundation for Quality Management (EFQM) model.

In India, subsidiaries and joint ventures include:

- Kirloskar Ebara Pumps Limited (KEPL) manufactures API, Non-API pumps, and steam turbines.
- The Kolhapur Steel Limited (TKSL) is a notable foundry facility with an in-house pattern shop.
- Kirloskar Corrocoat Private Limited (KCPL) is the leading solution provider in long-term corrosion protection and energy conversion.
- Karad Projects and Motors Limited (KPML) specializes in electric component manufacturing, particularly in the production of stampings, stators, rotors, AC rotating machines, and aluminium die-cast connecting rods.

International, subsidiaries and joint ventures include:

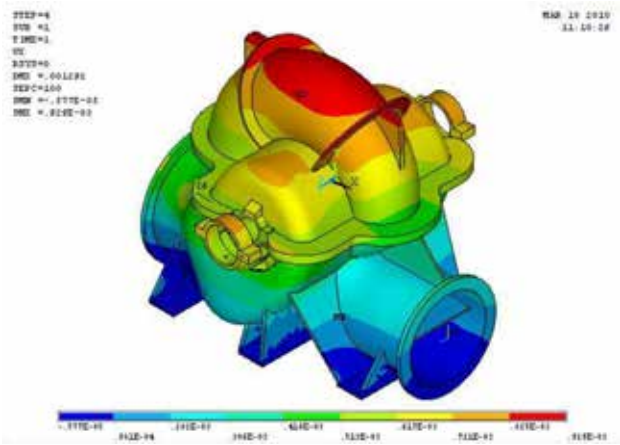
- SPP Pumps Limited, United Kingdom is a 140-year-old leading pumps manufacturer of centrifugal pumps and associated systems, a global principal in the design, supply and servicing of pumps, renowned fire pump packages and high-quality equipment for a wide range of applications and industry sectors. It is the largest pump manufacturer in the United Kingdom.
- SyncroFlo, Inc., United States of America manufactures pre-assembled pumping systems and provides solutions for HVAC systems, fire protection and turf irrigation.
- Rodelta Pumps International is a Dutch pump manufacturing company that offers products for flood control, irrigation, drinking water, wastewater, pulp & paper, power, chemical, oil & gas and general industries.
- Kirloskar Brothers Thailand Limited (KBTL), Bangkok is the Thailand Board of Investment (BOI) promoted headquarters and assembly plant of the KBL Group companies for the ASEAN and East Asia regions.
- Braybar Pumps (Pty) Limited, Republic of South Africa is engaged in the manufacturing and sales of high-head multi-stage pumps, rubber-lined slurry pumps and metal-lined bearings.

Our Strengths

- Comprises one of Asia's largest Hydraulic Research Centers with state-of-the-art testing facilities
- Manufacturer of large split case pumps
- Manufacturer of large vertical turbine pumps
- Manufacturer of concrete volute pumps
- Manufacturer of large size valves
- Sump model testing and actual scaled down model
- Executing large turnkey projects from concept to commissioning
- Service network - 24x7

Design and Engineering Analysis Software at KBL

- Pro-E Wildfire for Solid modeling
- Pro-Mechanica (for preliminary structural analysis)
- ANSYS Mechanical and Hyper works for structural analysis
- ANSYS CFX and Fluent STARCCM for CFD analysis
- Surge analysis package (SAP)
- Turbo design-1 (for inverse design)
- JMAG software for electromagnetic analysis for electric motor design

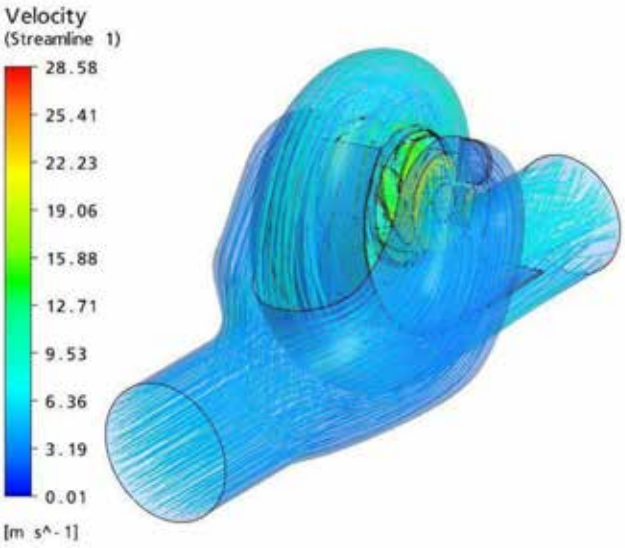


Innovation, Research Engineering and Development - a constant process at KBL

Our products and solutions are conceptualised after exhaustive research and undergo a manufacturing process which is world class. We have been awarded 17 patents for innovative solutions including 2 from the United States.

Well-equipped R&D Center

KBL's R&D facility is recognised by the Department of Science and Industrial Research (DSIR). The applied research work conducted in KBL has resulted in appropriate technology for development of many new series of pumps like horizontal split case, multistage, small end suction, large end suction, mixed flow pumps and many more to come. KBL has introduced India's first efficient pump to the more recent Solar motor pumps, Concrete volute pumps, metallic volute pumps, sodium pumps and magnetic drive pumps.



CFD analysis of split case pump

Technical analysis performed at KBL

- Torsional analysis
- CFD analysis
- Surge analysis
- Sump model studies
- Structural analysis
- Cavitation studies
- Thermal analysis
- Transient analysis

Manufacturing Excellence

It is our constant endeavour to upgrade and implement the latest and most advanced technology for smooth functioning of our facilities for uninterrupted production and seamless services.

01 Non - Ferrous Foundry
02 Assembly Shop
03 Foundry - Pattern

04 Radiography

05 Process Pump Machine Shop

06 Assembly Line

KBL is the first pump manufacturing company in India which is certified as "Integrated Management System" certification for four different standards, viz. ISO 9001 (QMS), ISO 14001 (EMS), ISO 45001 (OH&S) & ISO 50001 (EnMS)

Testing Capabilities

- Dye penetration test
- Ultrasonic test
- Magnetic particle test
- Inhouse radiography
- Non destructive testing facilities

National Accreditation Board for testing and Calibration Laboratories (NABL) Accreditated

One of Asia's Largest Hydraulic Research Centres (HRCs) for testing pumps at duty conditions up to 5000 kW motor and with discharge up to 50,000 m^3/hr

Infrastructure

- One of Asia's largest Hydraulic Research Centres (HRC) for testing pumps at duty conditions up to 5000 kW (motors of 3.3/6.6/11 kV) and discharge up to 50,000 m^3/hr.
- Closed circuit NPSH testing capabilities
- Computerized data acquisition system
- Sump model study system
- Conceptualized and built under the guidance and supervision of British Hydraulic Research Association
- Non-destructive testing facilities comprising dye penetrate testing, magnetic particle testing, ultrasonic testing and radiography capabilities
- Material testing laboratory for conducting transverse compression and sheer hardness test and impact tests, spectrometer for chemical analysis of materials

Foundry

The Kirloskarvadi foundry is equipped with a centralised pattern shop, mechanised sand processing system, automatic moulding machines and metal pouring system. There are independent units for cast iron, alloy steel and non-ferrous metals. The cast iron foundry is capable of producing a single casting weighing up to 8,000 kg and the steel foundry unit can produce castings of special alloy steels with acid pickling capability tailored to international standards. Total production capacity of foundries is 1,400 tons per month.

KEY HIGHLIGHTS

Diversified product portfolio

100+
Products

100,000+
SKUs

20+
Industries

136+
Years of engineering excellence

1.1+ Million
Pumps manufactured every year

120+
Countries globally

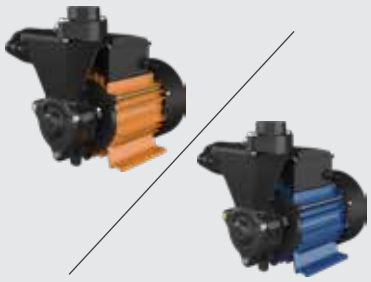
6
Continents

17
Manufacturing Facilities
(10 Domestic; 07 Overseas)

6,000+
Employee strength

Supported by best-in-class network of 650+ Authorised Service Centres and 16,250+ Channel Partners.

Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **CHHOTU** Type - Mini Range Pump	• Head Range: 6 to 26 Metres • Discharge Range: 1980 to 360 LPH • Power Rating: 0.37 kW (0.5 HP) • Voltage Range: 180 to 240 Volts • Insulation: B - Class	• High Suction Lift • Cathodic Electro Deposition (CED) Coating • TOP - Thermal Overload Protector • Handle to Enhance Grip and Portability • Easy Maintainable Design • Shielded Ball Bearing • High Efficiency and Energy Saving Design	• Water Supply to Overhead Tanks • Gardens/Fountains • Feed Water to RO • Domestic Water Supply • Construction Site • Home Pressure Boosting • Car Washing • Lawn Sprinklers
 **MINI 30C** Type - Mini Range Pump	• Head Range: 6 to 28 Metres • Discharge Range: 3182 to 727 LPH • Power Rating: 0.37 kW (0.5 HP) • Voltage Range: 180 to 240 Volts • Insulation: B - Class	• High Suction Lift • Cathodic Electro Deposition (CED) Coating • TOP - Thermal Overload Protector • Handle to Enhance Grip and Portability • Easy Maintainable Design • Shielded Ball Bearing • High Efficiency and Energy Saving Design	• Water Supply to Overhead Tanks • Gardens/Fountains • Feed Water to RO • Domestic Water Supply • Construction Site • Home Pressure Boosting • Car Washing • Lawn Sprinklers
 **MINI 40C/ES** Type - Mini Range Pump	• Head Range: 3 to 26 Metres • Discharge Range: 3010 to 790 LPH • Power Rating: 0.75 kW (1 HP) • Voltage Range: 180 to 240 Volts • Insulation: B - Class	• High Suction Lift • Cathodic Electro Deposition (CED) Coating • TOP - Thermal Overload Protector • Handle to Enhance Grip and Portability • Easy Maintainable Design • Shielded Ball Bearing • High Efficiency and Energy Saving Design	• Water Supply to Overhead Tanks • Gardens/Fountains • Feed Water to RO • Domestic Water Supply • Construction Site • Home Pressure Boosting • Car Washing • Lawn Sprinklers
 **MINI 50C** Type - Mini Range Pump	• Head Range: 3 to 30 Metres • Discharge Range: 2900 to 520 LPH • Power Rating: 0.75 kW (1 HP) • Voltage Range: 180 to 240 Volts • Insulation: B - Class	• High Suction Lift • Cathodic Electro Deposition (CED) Coating • TOP - Thermal Overload Protector • Handle to Enhance Grip and Portability • Easy Maintainable Design • Shielded Ball Bearing • High Efficiency and Energy Saving Design	• Water Supply to Overhead Tanks • Gardens/Fountains • Feed Water to RO • Domestic Water Supply • Construction Site • Home Pressure Boosting • Car Washing • Lawn Sprinklers
 **JALRAAJ ULTRA** Type - Mini Range Pump	• Head Range: 6 to 26 Metres • Discharge Range: 1800 to 430 LPH • Power Rating: 0.37 kW (0.5 HP) • Voltage Range: 180 to 240 Volts • Insulation: B - Class	• High Suction Lift • Cathodic Electro Deposition (CED) Coating • TOP - Thermal Overload Protector • Handle to Enhance Grip and Portability • Easy Maintainable Design • Shielded Ball Bearing • High Efficiency and Energy Saving Design	• Water Supply to Overhead Tanks • Gardens/Fountains • Feed Water to RO • Domestic Water Supply • Construction Site • Home Pressure Boosting • Car Washing • Lawn Sprinklers

Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **CHHOTU STAR ULTRA** Type - Mini Range Pump	• Head Range: 6 to 32 Metres • Discharge Range: 2880 to 500 LPH • Power Rating: 0.75 kW (1 HP) • Voltage Range: 180 to 240 Volts • Insulation: B - Class	• High Suction Lift • Cathodic Electro Deposition (CED) Coating • TOP - Thermal Overload Protector • Handle to Enhance Grip and Portability • Easy Maintainable Design • Shielded Ball Bearing • High Efficiency and Energy Saving Design	• Water Supply to Overhead Tanks • Gardens/Fountains • Feed Water to RO • Domestic Water Supply • Construction Site • Home Pressure Boosting • Car Washing • Lawn Sprinklers
 **JALRAAJ - 1 ULTRA** Type - Mini Range Pump	• Head Range: 6 to 30 Metres • Discharge Range: 3300 to 1300 LPH • Power Rating: 0.75 kW (1 HP) • Voltage Range: 180 to 240 Volts • Insulation: B - Class	• High Suction Lift • Cathodic Electro Deposition (CED) Coating • TOP - Thermal Overload Protector • Handle to Enhance Grip and Portability • Easy Maintainable Design • Shielded Ball Bearing • High Efficiency and Energy Saving Design	• Water Supply to Overhead Tanks • Gardens/Fountains • Feed Water to RO • Domestic Water Supply • Construction Site • Home Pressure Boosting • Car Washing • Lawn Sprinklers
 **AARNA, ANAYA & RIAN** Type - Mini Series Self Priming Pumps	• Head Range: 6 to 21 Metres • Discharge Range: 1980 to 680 LPH • Power Rating: 0.37 kW (0.5 HP) • Phase: Single • Voltage Range: 180 to 260 Volts • Insulation: B - Class	• Cathodic Electro Deposition (CED) Coating • Advanced Electrical Design • Wide Voltage Range Operability • Lightweight and Compact Design • High Suction Lift • Enhanced Safety Features • Dynamically Balanced Rotating Parts • Shielded Ball Bearing	• Water Supply to Overhead Tanks • Gardens/Fountains • Feed Water to RO • Domestic Water Supply • Construction Site • Car Washing • Lawn Sprinklers
 **ANNIKA and ANISA** Type - Mini Series Self Priming Pumps	• Head Range: 6 to 24 Metres • Capacity Range: 2600 to 700 LPH • Power Rating: 0.75 kW/1 HP • Phase: Single • Voltage Range: 160-260 Volts • Insulation: B - Class	• High Efficiency and Energy Saving Design • Wide Voltage Range • Shielded Ball Bearing • Dynamically Balanced Rotating Parts • Easy Maintainable Design • High Suction Lift • Cathodic Electro Deposition (CED) Coating • Light Weight and Compact Design	• Water Supply to Overhead Tanks • Gardens/Fountains • Feed Water to RO • Domestic Water Supply • Construction Site • Car Washing • Lawn Sprinklers
 **JALDAKSH** Type - Mini Jal Series	• Head Range: 6 to 40 Metres • Capacity Range: 3000 to 750 LPH • Power Rating: 0.75 kW (1.0 HP) • Phase: Single • Voltage Range: 180 to 260 Volts • Insulation: B - Class	• High Efficiency and Energy Saving Design • Wide Voltage Range • Cathodic Electro Deposition (CED) Coating • Dynamically Balanced Rotating Parts • High Grade Insulation • TOP - Thermal Overload Protector • Shielded Ball Bearing • Easy Maintainable Design	• Water Supply to Overhead Tanks • Gardens/Fountains • Feed Water to RO • Domestic Water Supply • Construction Site • Car Washing • Lawn Sprinklers

Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **JALHASTI** Type - Mini Jal Series	• Head Range: 6 to 50 Metres • Capacity Range: 4280 to 1000 LPH • Power Rating: 0.75 kW (1.0 HP) • Phase: Single • Voltage Range: 180 to 260 Volts • Insulation: B - Class	• High Efficiency and Energy Saving Design • Wide Voltage Range • Cathodic Electro Deposition (CED) Coating • Dynamically Balanced Rotating Parts • High Grade Insulation • TOP - Thermal Overload Protector • Shielded Ball Bearing • Easy Maintainable Design	• Water Supply to Overhead Tanks • Gardens/Fountains • Feed Water to RO • Domestic Water Supply • Construction Site • Car Washing • Lawn Sprinklers
 **JALTARA** Type - Mini Jal Series	• Head Range: 6 to 55 Metres • Capacity Range: 4300 to 800 LPH • Power Rating: 0.75 kW (1.0 HP) • Phase: Single • Voltage Range: 180 to 260 Volts • Insulation: B - Class	• High Efficiency and Energy Saving Design • Wide Voltage Range • Cathodic Electro Deposition (CED) Coating • Dynamically Balanced Rotating Parts • High Grade Insulation • TOP - Thermal Overload Protector • Shielded Ball Bearing • Easy Maintainable Design	• Water Supply to Overhead Tanks • Gardens/Fountains • Feed Water to RO • Domestic Water Supply • Construction Site • Car Washing • Lawn Sprinklers
 **JALHANSA** Type - Mini Jal Series	• Head Range: 6 to 40 Metres • Discharge Range: 3200 to 950 LPH • Power Rating: 0.75 kW (1 HP) • Voltage Range: 180 to 240 Volts • Phase: Single • Insulation: B - Class	• High Efficiency and Energy Saving Design • Wide Voltage Range • Cathodic Electro Deposition (CED) Coating • Dynamically Balanced Rotating Parts • High Grade Insulation • TOP - Thermal Overload Protector • Shielded Ball Bearing • Easy Maintainable Design	• Water Supply to Overhead Tanks • Gardens/Fountains • Feed Water to RO • Domestic Water Supply • Construction Site • Car Washing • Lawn Sprinklers
 **JALSENA** Type - Mini Jal Series	• Head Range: 6 to 41 Metres • Discharge Range: 3250 to 900 LPH • Power Rating: 0.75 kW (1 HP) • Voltage Range: 180 to 240 Volts • Phase: Single • Insulation: B - Class	• High Efficiency and Energy Saving Design • Wide Voltage Range • Cathodic Electro Deposition (CED) Coating • Dynamically Balanced Rotating Parts • High Grade Insulation • TOP - Thermal Overload Protector • Shielded Ball Bearing • Easy Maintainable Design	• Water Supply to Overhead Tanks • Gardens/Fountains • Feed Water to RO • Domestic Water Supply • Construction Site • Car Washing • Lawn Sprinklers
 **JALNAYAK** Type - Mini Jal Series	• Head Range: 6 to 48 Metres • Capacity Range: 4050 to 1040 LPH • Power Rating: 0.75 kW (1 HP) • Phase: Single • Voltage Range: 180 to 260 Volts • Insulation: B - Class	• High Efficiency and Energy Saving Design • Wide Voltage Range • Cathodic Electro Deposition (CED) Coating • Dynamically Balanced Rotating Parts • High Grade Insulation • TOP - Thermal Overload Protector • Shielded Ball Bearing • Easy Maintainable Design	• Water Supply to Overhead Tanks • Gardens/Fountains • Feed Water to RO • Domestic Water Supply • Construction Site • Car Washing • Lawn Sprinklers

Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **AQUA KNIGHT** Type - Mini Jal Series	• Head Range: Up to 33 Metres • Capacity Range: Up to 1950 LPH • Power Rating: 0.37 to 0.75 kW (0.5 to 1.0 HP) • Phase: Single • Voltage Range: 180 to 240 Volts • Insulation: B - Class	• High Efficiency and Energy Saving Design • Thermal Overload Protector (TOP) • Higher Suction Capability • Wide Voltage Design • Shielded Ball Bearing • Dynamically Balanced Rotating Parts • Easy Maintainable Design • High Suction Lift • Enhanced Safety Features	• Gardening and Irrigation • Line Boosting • Domestic Water Supply • Lawn Sprinklers • Construction Sites • Water Supply to Overhead Tanks
 **V-FLOW** Type - Mini Jal Series	• Head Range: Up to 50 Metres • Capacity Range: Up to 2560 LPH • Power Rating: 0.37- 0.75 kW (0.5- 1.02 HP) • Phase: Single • Voltage Range: 180 to 240 Volts • Insulation: B - Class	• High Suction Lift • High Quality Aluminium Motor Body • Handle to Enhance Grip and Portability • Easy Maintainable Design • Shielded Ball Bearing • High Efficiency and Energy Saving Design • Dynamically Balanced Rotating Parts	• Water Supply to Overhead Tanks • Gardens/Fountains • Feed Water to RO • Domestic Water Supply • Construction Site • Home Pressure Boosting • Car Washing • Lawn Sprinklers
 **AQUA TORRENT-10FCL** Type - Mini Jal Series	• Head Range: Up to 42 Metres • Discharge Range: Up to 650 LPH • Power Rating: 0.75 kW (1 HP) • Phase: Single • Voltage Range: 180 to 260 Volts • Insulation: B - Class	• Higher Suction Capability • CED – Cathodic Electro Deposition Coating • High Grade F - Class Insulation • Wide Voltage Design • Thermal Overload Protector (TOP) • Easy Maintainable Design • High Suction Lift • Enhanced Safety Features • Robust Construction	• Gardening and Irrigation • Line Boosting • Domestic Water Supply • Lawn Sprinklers • Construction Sites • Water Supply to Overhead Tanks
 **PAMBA PUZHA** Type - Mini Jal Series	• Head Range: Up to 18 Metres • Discharge Range: Up to 1.9 LPS • Power Ratings: 0.37 kW (0.5 HP) • Voltage Range: 180 to 240 Volts • Phase: Single • Insulation: B - Class	• CED – Cathodic Electro Deposition • High Efficiency and Energy Saving Design • Designed to Prevent Overloading • Light Weight and Compact Design • Replaceable Wearing Parts • Wide Voltage Design • Shielded Ball Bearing • Provision for Air Release and Priming	• Domestic and Community Water Supply • Gardening and Small Farm Irrigation • Lawn Sprinklers • Fountains • Water Transfer and Circulation
 **KJ** Type - Jet Pumps	• Depth to Low Water Level - Up to 48 Metres • Capacity: Up to 3600 LPH • Power Rating: 0.37 to 1.1 kW (0.5 to 1.5 HP) • Voltage Range: 180 to 240 Volts • (Single Phase) • Insulation: B - Class • Protection: IP44 • Well Size - 50 mm to 115 mm	• Replaceable Wearing Parts • Shielded Ball Bearing • CED – Cathodic Electro Deposition • Dynamically Balanced Rotating Parts • Designed to Prevent Overloading • High Efficiency and Energy Saving Design • Easy Maintainable Design	• Domestic Water Supply • Water Supply to Overhead tanks in bungalows • Construction site • Gardens/Fountains • Lawn sprinklers

Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **LIFTER** Type - Shallow Well Pumps	• Head Range: 8 to 30 Metres • Capacity Range: 2600 to 600 LPH • Power Rating: 0.37 (0.5) • Phase: Single • Voltage Range: 180 to 240 Volts	• High Head Applications • High Quality Aluminium Motor Body • High Suction Lift • Wide Voltage Design • TOP - Thermal Overload Protector • Handle to Enhance Grip and Portability • Easy Maintainable Design • Shielded Ball Bearing	• Domestic Water Supply • Water Supply to Overhead Tanks • Car Washing • Lawn Sprinklers • Garden/Fountains
 **KOSi** Type - Open-Well Submersible	• Head Range: Up to 42 Metres • Discharge Range: Up to 9.7 LPS • Power Rating: 0.37 to 1.5 kW (0.5 to 2 HP) • Voltage Range: 160 to 260 Volts • Phase: Single Phase • Insulation: PP - Class • Protection: IP68	• Wide Voltage Design • Lightweight and Compact Design • Dynamically Balanced Rotating Parts • Replaceable Wearing Parts • Easy Maintainable Design • High Efficiency and Energy Saving Design • Advanced Water Cooled Motor Design	• Domestic and Community Water Supply • Gardening and Small Farm Irrigation • Water Fountains • Construction Site • Water Supply to Overhead Tanks
 **KOSi C** Type - Open-Well Submersible	• Head Range: Up to 36 Metres • Discharge Range: Up to 9.7 LPS • Power Rating: 0.37 to 1.5 kW (0.5 to 2 HP) • Voltage Range: 160 to 260 Volts • Phase: Single Phase • Insulation: PP - Class • Protection: IP68	• Wide Voltage Design • Lightweight and Compact Design • Dynamically Balanced Rotating Parts • Replaceable Wearing Parts • Easy Maintainable Design • High Efficiency and Energy Saving Design • Advanced Water Cooled Motor Design	• Domestic and Community Water Supply • Gardening and Small Farm Irrigation • Water Fountains • Construction Site • Water Supply to Overhead Tanks
 **K-BOOSTER** Type - Pressure Boosting System	• Head Range: Up to 28 Metres • Discharge Range: Up to 2050 LPH • Power Rating: 0.37 kW (0.5 HP) • Pressure Range: Up to 2.4 kg/cm • Voltage Range: 180 to 260 Volts • Phase: Single Phase • Insulation: B - Class • Protection: IP44 • Tank Size: 2 Litres	• Fully Automatic System • Y- strainer • Compact and Robust Design • Durable Component • TOP - Thermal Overload Protector	• Bathroom Showers • Consistent Pressure at Multi-outlets • Washing Machine, Gas Geyser • Pressurised Washing of Vehicles • Kitchenware Washing
 **CPBS** Type - Pressure Boosting System	• Head Range: Up to 52 Metres • Discharge Range: Up to 140 LPM • Power Rating: 0.4 to 1.1 kW (0.6 to 1.5 HP) • Pressure Range: Up to 4.4 kg/cm • Voltage Range: 180 to 240 Volts • Phase: Single Phase • Insulation: B - Class • Protection: IP44 • Tank Size: 24 Litres	• Compact, Reliable and Silent • TOP - Thermal Overload Protector • Diaphragm Type Pressure Tank • Reliable and Durable Components • Easy Maintainable Design	• Consistent Pressure at Multi-outlets • Multi Jet Shower Panels • Washing Machine, Hot Water Geyser, Gas Geyser • Pressurised Washing of Vehicles • Kitchenware Washing

Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **AGNES** Type - Horizontal Multistage Pumps	• Head Range: Up to 55 Metres • Discharge Range: Up to 12 m^3/h • Power Rating: 0.37 to 2.2 kW (0.5 to 3 HP) • Voltage Range: 220 Volts±10% and 415 Volts±10% • Insulation: F - Class • Protection: IP55 • Max Liquid Temp: 85°C	• High Efficiency and Energy Saving Design • Compact Reliable and Silent • High Head Applications • Dynamically Balanced Rotating Parts	• Industrial and Domestic Water Pressure Boosting • Feed Water Application in RO Plants • High Pressure Liquid Circulation and Pumping in Industries • Air/Conditioning and Cooling System • Car Washing
 **HL** Type - HI - LIFTER	• Head Range: Up to 50 Metres • Capacity: Up to 75 LPM • Power Rating: 0.37 to 0.93 kW (0.5 to 1.25 HP) • Voltage Range: 220 Volts±10% • Insulation: F - Class • Protection: IP44	• Longevity and Safety • High Pressure Water Supply • Compact Reliable and Silent • TOP - Thermal Overload Protector • Lightweight and Compact Design • Advanced Electrical Design • Enhanced Safety Features	• Lifting Water to Apartments and Bungalows • Pumping Water from Shallow Wells and Tanks • Suitable for Pressure Boosting System
 **KP3S** Type - Borewell Submersible	• Head Range: Up to 87 Metres • Discharge Range: Up to 96 LPM • Power Rating: 0.37 to 1.1 kW (0.5 to 1.5 HP) • Voltage Range: 160 to 240 Volts • Phase: Single • Insulation: F - Class • Type of Cooling: Oil Cooled • Protection: IP68	• High Efficiency and Energy Saving Design • Wide Voltage Design • Dynamically Balanced Rotating Parts • Designed to Prevent Overloading • Lightweight and Compact Design • Splined Shaft • Flatter Efficiency Curve • Suitable for Horizontal Applications	• Domestic and Community Water Supply • Rural Water Supply • Gardening and Small Farm Irrigation • Construction Site • Water Supplies for High Rise Building
 **KU4** Type - Borewell Submersible	• Head Range: Up to 251 Metres • Discharge Range: Up to 350 LPM • Power Rating: 0.37 to 3.70 kW (0.5 to 5.0 HP) • Voltage Range: 150 to 240 Volts (Single Phase) • 280 to 440 Volts (Three Phase) • Insulation: F - Class • Type of Cooling: Oil Cooled • Protection: IP68	• High Efficiency and Energy Saving Design • Wide Voltage Design • Dynamically Balanced Rotating Parts • Designed to Prevent Overloading • Lightweight and Compact Design • Splined Shaft • Flatter Efficiency Curve • Suitable for Horizontal Applications	• Domestic and Community Water Supply • Rural Water Supply • Gardening and Small Farm Irrigation • Construction Site • Water Supplies for High Rise Building
 **KU6i** Type - Borewell Submersible	• Head Range: Up to 325 Metres • Discharge Range: Up to 530 LPM • Power Rating: 2.2 to 15.0 kW (3.0 to 20.0 HP) • Voltage Range: 250 to 440 Volts (Three Phase)* • Type of Cooling: Oil Cooled • Insulation: F - Class • Protection: IP68 *Under ideal condition with suitable cable size.	• Higher Efficiencies and Lower Power Consumption • Suitable For Horizontal Applications • Suitable For Low Voltage Operations • Design For Continuous Working • Lesser Chances Of Motor Burning • Original Performances For Years • No Health Hazard • Unmatched Warranty	• Domestic and Community Water Supply • Water Supplies for High Rise Building • Gardening and Small Farm Irrigation • Farming • Ground Water Supply to Water Works

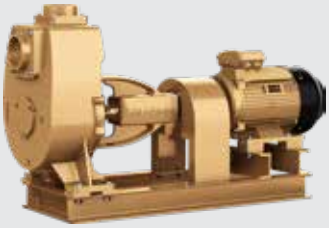
Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **KP4 JALRAAJ UVA** Type - Borewell Submersible	• Head Range: Up to 169 Metres • Discharge Range: Up to 350 LPM • Power Rating: 0.37 to 2.2 kW (0.5 to 3.0 HP) • Voltage Range: 150 to 240 Volts (Single Phase) • Type of Cooling: Oil Cooled • Insulation: F - Class • Protection: IP68	• High Efficiency And Energy Saving Design • Wide Voltage Design • Dynamically Balanced Rotating Parts • Designed To Prevent Overloading • Lightweight And Compact Design • Flatter Efficiency Curve • Suitable For Horizontal Applications	• Domestic and Community Water Supply • Water Supply for High Rise Building • Gardening and Small Farm Irrigation • Construction Site • Ground Water Supply to Water Works
 **NEO** Type - Borewell Submersible	• Head Range: Up to 165 Metres • Discharge Range: Up to 105 LPM • Power Rating: 0.37 to 1.5 kW (0.5 to 2.0 HP) • Voltage Range: 180 to 240 Volts (Single Phase) • Type of Cooling: Water Cooled • Insulation: B - Class • Protection: IP68	• Wide Voltage Range Operability • High Efficiency and Energy-saving Design • Dynamically Balanced Rotating Parts • Longer and Trouble Free Life • Advanced Water Cooled Motor Design • Sand Fighter Design • CED - Cathodic Electro Deposition Coating	• Domestic and Community Water Supply • Rural Water Supply • Gardening and Small Farm Irrigation • Construction Site • Water Supplies for High Rise Building
 **KS3** Type - Borewell Submersible	• Head Range: Up to 131 Metres • Discharge Range: Up to 95 LPM • Power Rating: 0.37 to 1.1 kW (0.5 to 1.5 HP) • Voltage Range: 160 to 240 Volts (Single Phase) • Insulation: B - Class • Type of Cooling: Water Cooled • Protection: IP68	• Wide Voltage Design • Designed to Prevent Overloading • High Efficiency and Energy Saving Design • Dynamically Balanced Rotating Parts • Longer and Trouble Free Life • Advanced Water Cooled Motor Design • Easy Maintainable Design	• Domestic and Community Water Supply • Rural Water Supply • Gardening and Small Farm Irrigation • Construction Site • Water Supplies for High Rise Building
 **KS4** Type - Borewell Submersible	• Head Range: Up to 520 Metres • Discharge Range: Up to 420 LPM • Power Rating: 0.37 to 5.5 kW (0.5 to 7.5 HP) • Voltage Range: 160 to 240 Volts (Single Phase), 280 to 440 Volts (Three Phase) • Insulation: B - Class • Type of Cooling: Water Cooled • Protection: IP68	• Wide Voltage Design • High Efficiency and Energy Saving Design • Dynamically Balanced Rotating Parts • Longer and Trouble Free Life • Advanced Water Cooled Motor Design • Wide Voltage Motor Design with Copper Rotor • CED – Cathodic Electro Deposition	• Domestic and Community Water Supply • Rural Water Supply • Gardening and Small Farm Irrigation • Construction Site • Water Supplies for High Rise Building
 **KS6** Type - Borewell Submersible	• Head Range: Up to 276 Metres • Discharge Range: Up to 1540 LPM • Power Rating: 1.5 to 18.5 kW (2 to 25 HP) • Voltage Range: 160 to 240 Volts (Single Phase), 200 to 440 Volts (Three Phase)* • Insulation: B - Class • Type of Cooling: Water Cooled • Protection: IP68 *Under ideal condition with suitable cable size.	• Wide Voltage Motor Design with Copper Rotor • Sand Fighter Design • Dynamically Balanced Rotating Parts • Longer and Trouble Free Life • High Efficiency and Energy Saving Design • CED – Cathodic Electro Deposition • Designed to Prevent Overloading • Glycol-mixed Water	• Irrigation in Horticulture & Agriculture • Domestic and Community Water Supply • Sprinkler and Drip Irrigation • Rural Water Supply • Ground Water Supply to Water Works

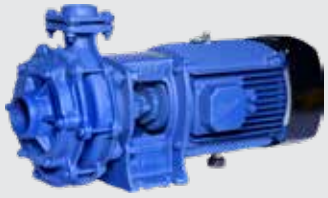
Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **KS7** Type - Borewell Submersible	• Head Range: Up to 81 Metres • Discharge Range: Up to 2100 LPM • Power Rating: 4.5 to 18.5 kW (6 to 25 HP) • Voltage Range: 280 to 440 Volts (Three Phase) • Insulation: B - Class • Type of Cooling: Water Cooled • Protection: IP68	• Wide Voltage Motor Design with Copper Rotor • Sand Fighter Design • Dynamically Balanced Rotating Parts • Longer and Trouble Free Life • High Efficiency and Energy Saving Design • CED – Cathodic Electro Deposition • Designed to Prevent Overloading • Glycol-mixed Water	• Irrigation in Horticulture & Agriculture • Domestic and Community Water Supply • Sprinkler and Drip Irrigation • Rural Water Supply • Ground Water Supply to Water Works
 **KS8** Type - Borewell Submersible	• Head Range: Up to 270 Metres • Discharge Range: Up to 2700 LPM • Power Rating: 4.5 to 45 kW/ 6 to 60 HP • Voltage Range: 280 to 440 Volts (Three Phase) • Insulation: B - Class • Type of Cooling: Water Cooled • Protection: IP68	• Wide Voltage Motor Design with Copper Rotor • Sand Fighter Design • Dynamically Balanced Rotating Parts • Longer and Trouble Free Life • High Efficiency and Energy Saving Design • CED – Cathodic Electro Deposition • Designed to Prevent Overloading • Glycol-mixed Water	• Irrigation in Horticulture & Agriculture • Domestic and Community Water Supply • Sprinkler and Drip Irrigation • Rural Water Supply • Ground Water Supply to Water Works
 **KS9** Type - Borewell Submersible	• Head Range: Up to 114 Metres • Discharge Range: Up to 3150 LPM • Power Rating: 15 to 45 kW/ 20 to 60 HP • Voltage Range: 350 to 440 Volts (Three Phase) • Insulation: B - Class • Type of Cooling: Water Cooled • Protection: IP68	• Wide Voltage Motor Design with Copper Rotor • Dynamically Balanced Rotating Parts • Longer and Trouble Free Life • High Efficiency and Energy Saving Design • CED – Cathodic Electro Deposition • Designed to Prevent Overloading • Glycol-mixed Water	• Irrigation in Horticulture & Agriculture • Domestic and Community Water Supply • Sprinkler and Drip Irrigation • Rural Water Supply • Ground Water Supply to Water Works
 **HHF/HHN** Type - Borewell Submersible	• Head Range: Up to 427 Metres • Discharge Range: Up to 650 LPM • Power Rating: 2.2 to 18.5 kW/ 3 to 25 HP • Voltage Range: 200 to 440 Volts (Three Phase)* • Insulation: B - Class • Type of Cooling: Water Cooled • Protection: IP68 *Under ideal condition with suitable cable size.	• Wide Voltage Motor Design with Copper Rotor • Sand Fighter Design • Dynamically Balanced Rotating Parts • Longer and Trouble Free Life • High Head Applications • CED – Cathodic Electro Deposition • Designed to Prevent Overloading • Glycol-mixed Water	• Irrigation in Horticulture & Agriculture • Domestic and Community Water Supply • Sprinkler and Drip Irrigation • Rural Water Supply • Ground Water Supply to Water Works
 **JOS** Type - Horizontal Openwell Pumps	• Head Range: Up to 64 Metres • Discharge Range: Up to 48.5 LPS • Power Rating: 2.2 to 15 kW (3 to 20 HP) • Voltage Range* - 200 to 440 Volts (Three Phase) • Insulation: PP • Protection: IP68 *Under ideal condition with suitable cable size	• Designed to Prevent Overloading • High Efficiency and Energy Saving Design • Dynamically Balanced Rotating Parts • Advanced Water Cooled Motor Design • Wide Voltage Motor Design • Easy Maintainable Design • High Head Applications	• Irrigation in Horticulture & Agriculture • Domestic and Community Water Supply • Sprinkler and Drip Irrigation • Rural Water Supply • Ground Water Supply to Water Works

Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **JVS** Type - Vertical Openwell Pumps	• Head Range: Up to 147 Metres • Capacity: Up to 840 LPM • Power Rating: 2.2 to 15 kW/ 3 to 20 HP • Voltage Range: 200 to 440 Volts (Three Phase)* • Insulation: PP - Class • Protection: IP68 *Under ideal condition with suitable cable size.	• Wide Voltage Design • Designed to Prevent Overloading • High Efficiency and Energy Saving Design • Dynamically Balanced Rotating Parts • Advanced Water Cooled Motor Design • Wide Voltage Motor Design • Easy Maintainable Design • High Head Applications	• Irrigation in Horticulture & Agriculture • Sprinkler and Drip Irrigation • Water Supplies for High Rise Buildings • Rural Water Supply • Domestic and Community Water Supply
 **KDS** Type - Monoblock Pumps	• Head Range: Up to 52 Metres • Discharge Range: Up to 28 LPS • Power Ratings: 0.37 to 3.7 kW (0.5 to 5.0 HP) • Voltage Range: 180 to 240 Volts (Single Phase) & 120 to 220 Volts (low voltage) & 230 to 400 Volts (“P” series) • Insulation: B/F - Class • Protection: IP44/IP55	• Wide Voltage Design • Replaceable Wearing Parts • TOP - Thermal Overload Protector • CED – Cathode Electro Deposition Coating • Automatic Air Release • High Efficiency and Energy Saving Design • Designed to Prevent Overloading • Dynamically Balanced Rotating Parts	• Gardening and Small Farm Irrigation • Lawn Sprinklers • Water Supplies for High Rise Building • Domestic and Community Water Supply • Water Transfer and Circulation
 **KAM** Type - Monobloc Pumps	• Head Range: Up to 19 Metres • Discharge Range: Up to 16 LPS • Power Rating: 0.37 to 1.5 kW (0.5 to 2.0 HP) • Voltage Range: 120 to 220 Volts (Single Phase Low Voltage) 180 to 240 Volts (Single Phase) • Insulation: B/F - Class • Protection: IP44	• Wide Voltage Design • Automatic Air Release • Flatter Efficiency Curve • Designed to Prevent Overloading • Dynamically Balanced Rotating Parts • CED – Cathode Electro Deposition Coating • Easy Maintainable Design • High Efficiency and Energy Saving Design	• Gardening and Small Farm Irrigation • Lawn Sprinklers • Construction Site • Domestic and Community Water Supply • Water Transfer and Circulation
 **KVM** Type - Vertical Multi Stage Pumps	• Head: Up to 175 Metres • Capacity: Up to 25 m^3/hr • Power Ratings: Up to 5.5 kW (7.5HP) • Voltage Range: 180 to 240 Volts (Single Phase) & 300 to 440 Volts (Three Phase) • Protection: IP44 • Insulation: F - Class • pH value: 5 to 8.5	• High Grade Engineering Polymer Impellers and Diffuser • Keyed Shaft • Wide Voltage Range • Light-weight • High Efficiency • CED Coating • Wide operating range with flatter characteristics for a stable performance • Cartridge Type Mechanical Seal	• Pressure Boosting and Lifting Water in Apartments and Bungalows • Irrigation • Firefighting Systems and Washing Systems • Air Conditioner, Cooling System and Industrial Cleaning • Hydro Pneumatic System
 **KCIL** Type - Vertical Multi Stage Pumps	• Head Range: Up to 323 Metres • Discharge Range: Up to 110 m^3/hr • Power Ratings: 0.37 to 45 kW (0.5 to 60 HP) • Voltage Range: 370 to 440 Volts (Three Phase) • Insulation: F - Class • PH Range: 4 to 10 • Altitude: Up to 1000 Metres	• Superior Pump Hydraulics • Cartridge Type Mechanical Seal • Splined Shaft • Replaceable Wearing Parts • Dynamically Balanced Rotating Parts • Easy Maintainable Design • Suitable for Horizontal Applications • High Head Applications	• Building Industry • Water Treatment • Irrigation • Dairy, Food Processing and Beverage Industries • Small Capacity Power Plants

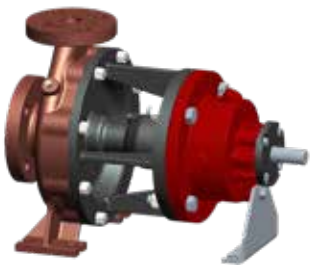
Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **KSIL** Type - Vertical Multi Stage Pumps	• Head Range: Up to 323 Metres • Discharge Range: Up to 110 m^3/hr • Power Ratings: 0.37 to 45 kW (0.5 to 60 HP) • Voltage Range: 370 to 440 Volts (Three Phase) • Insulation: F - Class • PH Range: 4 to 10 • Altitude: Up to 1000 Metres	• Superior Pump Hydraulics • Cartridge Type Mechanical Seal • Splined Shaft • Replaceable Wearing Parts • Dynamically Balanced Rotating Parts • Easy Maintainable Design • Suitable for Horizontal Applications • High Head Applications	• Building Industry • Water Treatment • Irrigation • Dairy, Food Processing and Beverage Industries • Small Capacity Power Plants
 **KSMB** Type - Monobloc Pumps	• Head Range: Up to 50 Metres • Discharge Range: Up to 17.8 LPS • Power Ratings: 0.75 to 7.5 kW (1 to 10 HP) • Voltage Range: 350 to 440 Volts (Three Phase) • Insulation: F - Class • Protection: IP44/IP55	• Stainless Steel – Wetted Components • Mechanical Seal • High Efficiency And Energy Saving Design • Superior Hydraulics • Dynamically Balanced Rotating Parts • Lightweight And Compact Design • Easy Maintainable Design • Designed to Prevent Overloading	• Pharmaceutical Industries • Food Processing • Demineralising Plants • Air Conditioning and Refrigeration System • Diary And Beverages
 **ETERNA CW+/CW** Type - Sewage/Dewatering Pumps	• Head Range: Up to 70 Metres • Discharge Range: Up to 4800 LPM • Power Ratings: 0.75 to 15 kW (1 to 20 HP) • Voltage Range: 380 to 440 Volts (Three Phase) • Insulation: B/E - Class • Protection: IP68 • pH Value: 6.5 to 7.5	• High Efficiency and Energy Saving Design • Easy Maintainable Design • CED – Cathode Electro Deposition Coating • Robust Construction • Replaceable Wearing Parts • Dynamically Balanced Rotating Parts	• Sewage Pumping • Dewatering from Basements, Multi-storeys, Shopping Malls, Godowns, etc. • Construction Site • Dewatering Foundation, Trenches and Pits • Flood Water Handling
 **CUTTER PUMP - CWC** Type - Sewage/Dewatering Pumps	• Head: Up to 45 Metres • Capacity: Up to 7 m^3/h • Power Rating: 1.2 to 4.0 kW (1.6 to 6 HP) • Voltage Range: 380 ± 10% • Operating Temperature: 40 °C • Insulation: F - Class • Protection: IP68	• Special cutter to grind solids into small pieces • Water Tight Cable Connection to ensure no liquid entry into motor • Specially Designed Lifting Handle • Stainless Steel Clamp for easy and quick dismantling of pump casing	• Waste Water with Discharge from Water Closets • Sewage from Restaurants/ Hotels/Camping Sites Etc. • Effluents From Abattoirs • Effluents & Waste from Waste Water or Effluent Treatment Plants. • Sewage Treatment in Communities or Area Where no Sewer System is Available
 **SW** Type - Sewage/Dewatering Pumps	• Head Range: 3 to 10 Metres • Discharge Range: 180 to 50 LPM • Power Ratings: 0.75 to 1.8 kW (1 to 2.5 HP) • Voltage Range: 180 to 240 Volts (Single Phase) • Protection: IP68 • Insulation: F - Class	• Automatic On-Off Switch • Ready to Use • Corossion-free • TOP - Thermal Overload Protector	• Removing Stagnant Water from Basement/Underground Parkings/Garages, etc. • Draining Accumulated Storm Water during Monsoon • Emptying Water Tanks and Pits for Cleaning • Draining Waste Water from Kitchens, Hotels, Clubs, etc. • Removing Surplus Water from Sumps

Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **BW** Type - Sewage/Dewatering Pumps	• Head Range: 6 to 12 Metres • Discharge Range: 330 to 60 LPM • Power Ratings: 0.75 to 1.8 kW (1 to 2.5 HP) • Voltage Range: 180 to 240 Volts (Single Phase) • Protection: IP68 • Insulation: B - Class	• Automatic On-Off Switch • Ready to Use • Corossion-free • TOP - Thermal Overload Protector	• Removing Stagnant Water from Basement/Underground Parkings/Garages, etc. • Draining Accumulated Storm Water during Monsoon • Emptying Water Tanks and Pits for Cleaning • Draining Waste Water from Kitchens, Hotels, Clubs, etc. • Removing Surplus Water from Sumps
 **KPP** Type - Swimming Pool Pump	• Head Range: Up to 17.9 Metres • Discharge Range: Up to 500 LPM • Motor Rating: 0.55 to 2.2 kW (0.75 to 3.0 HP) • Voltage Range: 240 Volts ± 10% • Motor Insulation: F - Class • Maximum Suction Lift - Up to 3.5 Metres	• Thermal Overload Protection • Pre Filter Basket • Quiet Operation • Self-priming • Light weight and Compact Design • Mechanical Seal • Dynamically Balanced Rotating Parts	• Hot Springs • Swimming Pools • Spa • Water Treatment Systems • Landscape Fountains • Light Industries
 **SP BARESHAFT** Type - Self Priming Pumps	• Head Range: Up to 44 Metres • Discharge Range: Up to 80 LPS • Power Rating: 0.75 - 18.7 kW & (1 - 25 HP) motor coupled • Voltage Range: 415±10% • Insulation: F - Class (motor coupled only) • Protection: IP55	• Self-priming • Non-clog impeller • Flatter Efficiency Curve • Designed to Prevent Overloading • Dynamically Balanced Rotating Parts • Replaceable Wearing Parts • CED – Cathode Electro Deposition Coating • Easy Maintainable Design	• Handling Chemicals, Effluents, Sewage and Ash-Water • De-Watering Foundation, Trenches and Pits • Flood Water Handling • Pumping Water from Docks, Ports, Vessels • Dewatering from Basements, Multi-storeys, Shopping Malls, Godowns, etc. • Cooling Water for Marine Engines and Shovels
 **SP MONOBLOC** Type - Self Priming Pumps	• Head Range: Up to 24 Metres • Discharge Range: Up to 17.5 LPS • Power Rating: 0.37 - 3.7 kW & (0.5 - 5 HP) • Voltage Range: 300 - 440V three phase (for motor coupled only) & 180 - 240V (Single Phase) • Insulation: B/F - Class • Protection: IP44/IP55	• Self-priming • Non-clog impeller • Flatter Efficiency Curve • Designed to Prevent Overloading • Dynamically Balanced Rotating Parts • Replaceable Wearing Parts • CED – Cathode Electro Deposition Coating • Easy Maintainable Design	• Handling Chemicals, Effluents, Sewage and Ash-Water • De-Watering Foundation, Trenches and Pits • Flood Water Handling • Pumping Water from Docks, Ports, Vessels • Dewatering from Basements, Multi-storeys, Shopping Malls, Godowns, etc. • Cooling Water for Marine Engines and Shovels
 **SP COUPLED SET** Type - Self Priming Pumps with IE2 MOTOR	• Head Range: Up to 44 Metres • Discharge Range: Up to 80 LPS • Power Rating: 0.75 - 18.7 kW & (1 - 25 HP) motor coupled • Voltage Range: 415±10% • Insulation: F - Class (motor coupled only) • Protection: IP55	• Self-priming • Non-clog impeller • Flatter Efficiency Curve • Designed to Prevent Overloading • Dynamically Balanced Rotating Parts • Replaceable Wearing Parts • CED – Cathode Electro Deposition Coating • Easy Maintainable Design	• Handling Chemicals, Effluents, Sewage and Ash-Water • De-Watering Foundation, Trenches and Pits • Flood Water Handling • Pumping Water from Docks, Ports, Vessels • Dewatering from Basements, Multi-storeys, Shopping Malls, Godowns, etc. • Cooling Water for Marine Engines and Shovels

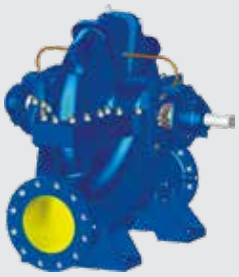
Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **SP COUPLED SET** Type - Self Priming Pumps with IE4 MOTOR	• Head Range: Up to 36 Metres • Discharge Range: Up to 75 LPS • Power rating: 0.75 - 18.7 kW (1 - 25 HP) • Voltage Range: 415±10% • Insulation: F - Class (Insulation with Temperature rise restricted to B - Class) • Protection: IP55	• Premium efficiency • High grade F-Class insulation with Temperature rise limited to B-Class • High efficiencies achieved with AC induction motor design • Higher Specific Discharge (discharge rate per unit power) • CED Coated Impeller • Optimum fan and fan cover design • Self-priming	• Handling Light Chemicals, Effluents, Sewage, Ash Water, etc. • Flood/Rain Water Handling • Draining Foundations, Trenches and Pits • Pumping Water from Docks, Ports, Vessels • Draining Accumulated Water from Basements, Road, Highways, Parking Lots, etc. • Cooling Water for Marine Engines, Shovels and Piling Equipment
 **SP COUPLED SET** Type - Self Priming Pumps with IE5 MOTOR	• Head Range: Up to 32 Metres • Discharge Range: Up to 10 LPS • Power Rating: 0.75 – 3.7 kW/ (1 - 5 HP) • Speed: 2900 RPM • Voltage Range: 415±10% • Insulation: High Grade F - Class Insulation with Temperature rise restricted to B - Class • Protection: IP55	• Ultra Premium Efficiency • Higher Specific Discharge (discharge rate per unit power) • High grade F-Class insulation with Temperature rise limited to B-Class • High efficiencies achieved with AC induction motor design • CED Coated Impeller • Optimum fan and fan cover design • Self-priming	• Handling Light Chemicals, Effluents, Sewage, Ash Water, etc. • Flood/Rain Water Handling • Draining Foundations, Trenches and Pits • Pumping Water from Docks, Ports, Vessels • Draining Accumulated Water from Basements, Road, Highways, Parking Lots, etc. • Cooling Water for Marine Engines, Shovels and Piling Equipment
 **KV** Type - Vacuum Pumps	• Vacuum: Up to 600 mm of mercury • Air Flow Rate: Up to 55 m/hr (at mean sea level) • Power Ratings: 0.75 to 2.2 kW (1 to 3 HP) • Voltage Range: 180 to 240 Volts (Single Phase) 300 to 440 Volts (Three Phase) • Insulation: B - Class • Protection: IP44	• Wide Voltage Design • Designed to Prevent Overloading • Replaceable Wearing Parts • Dynamically Balanced Rotating Parts	• Priming of Large Pumps • Evacuation of Air from Suction Pipes and Chambers • Twist Drilling Machine, Removing Water from Pulp Layer, Labelling, Bottle Filling, De-odorising, etc. • Drying, Evaporation, Distillation, Filtration, Sterilisation, Condensation, Degasification, Sucking Gases, etc. • Extrusion Machines
 **DV** Type - Vacuum Pumps	• Vacuum: Up to 640 mm of mercury • Air Flow Rate: Up to 162 m/h (at mean sea level) • Power Ratings: 3.7 to 7.5 kW (5 to 10 HP) • Voltage Range: 375 to 455 Volts (Three Phase) • Insulation: F - Class • Protection: IP55	• Wide Voltage Design • Designed to Prevent Overloading • Replaceable Wearing Parts • Dynamically Balanced Rotating Parts	• Priming of Large Pumps • Evacuation of Air from Suction Pipes and Chambers • Twist Drilling Machine, Removing Water from Pulp Layer, Labelling, Bottle Filling, De-odorising, etc. • Drying, Evaporation, Distillation, Filtration, Sterilisation, Condensation, Degasification, Sucking Gases, etc. • Extrusion Machines
 **KOSM/KOS** Type - Openwell Submersible	• Head Range: Up to 38 Metres • Discharge Range: Up to 11 LPS • Power Rating: 0.75 to 1.5 kW (1.0 to 2 HP) • Voltage Range: 300 to 440 Volts (Three Phase) • Insulation: PP • Protection: IP68	• Wide Voltage Design • Lightweight and Compact Design • Dynamically Balanced Rotating Parts • Replaceable Wearing Parts • Easy Maintainable Design • CED – Cathode Electro Deposition Coating • High Efficiency and Energy Saving Design • Advanced Water-cooled Motor Design	• Domestic and community water supply • Gardening and small farm irrigation • Water fountains • Construction site • Water supply to over head tanks

Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **KDS/GMC** Type - Monobloc Pumps	• Head Range: Up to 80 Metres • Discharge Range: Up to 49 LPS • Power Rating: 0.37 to 22 kW (0.5 to 30 HP) • Voltage Range: 300 to 440 Volts (Three Phase) • Insulation: B - Class (Up to 7.5 HP)/F - Class (above 7.5 HP) • Protection: IP44/IP55	• Flatter Efficiency Curve • Wide Voltage Design • Designed to Prevent Overloading • Replaceable Wearing Parts • Dynamically Balanced Rotating Parts • CED – Cathode Electro Deposition Coating • Automatic Air Release • High Efficiency and Energy Saving Design	• Air Conditioning and Refrigeration System • Cooling Towers • Clear Water Handling at High Pressure in Industries • Irrigation in Horticulture & Agriculture • Firefighting System
 **KDT** Type - Monobloc Pumps	• Head Range: Up to 110 Metres • Discharge Range: Up to 20 LPS • Power Rating: 3.7 to 15 kW (5 to 20 HP) • Voltage Range: 3 00 to 440 Volts (Three Phase) • Insulation: B/F - Class • Protection: IP44/IP55	• Flatter Efficiency Curve • High Head Applications • Wide Voltage Design • Designed to Prevent Overloading • Replaceable Wearing Parts • Dynamically Balanced Rotating Parts • CED – Cathode Electro Deposition Coating • Automatic Air Release	• Air Conditioning and Refrigeration System • Cooling Towers • Clear Water Handling at High Pressure in Industries. • Firefighting System • Industrial Pressure Boosting
 **KDI** Type - Monobloc Pumps	• Head Range: Up to 80 Metres • Discharge Range: Up to 39 LPS • Power Rating: 1.5 to 22 kW (2 to 30 HP) • Voltage Range: 350 to 440 Volts (Three Phase) • Insulation: F - Class • Protection: IP55	• Flatter Efficiency Curve • Wide Voltage Design • Designed to Prevent Overloading • Replaceable Wearing Parts • Dynamically Balanced Rotating Parts • CED – Cathode Electro Deposition Coating • Automatic Air Release • Mechanical Seal	• Air Conditioning and Refrigeration System • Cooling Towers • Clear Water Handling at High Pressure in Industries • Irrigation in Horticulture & Agriculture • Firefighting System
 **KDI EE2** Type - Monobloc Pumps	• Head Range: Up to 68 Metres • Discharge Range: Up to 33 LPS • Power Rating: 1.5 to 7.5 kW (2 to 10 HP) • Voltage Range: 350 to 440 Volts (Three Phase) • Insulation: F - Class • Protection: IP55	• Premium efficiency IE2 Motor and energy saving design • Superior Mechanical Seal • Cathodic Electro Deposition (CED) Coating • Dynamically balanced rotating parts • Replaceable Wearing Parts • Flatter Efficiency Curve • Designed to Prevent Overloading • Automatic Air Release	• Air Conditioning and Refrigeration System • Cooling Towers • Fire Fighting • Water Supply • Clear Water Handling at high pressure in industries • Clear Water Handling in ETP/STP Plants • Handling Hot Water in parboiled rice making machines
 **KDI EE4** Type - Monobloc Pumps	• Head Range: Up to 80 Metres • Discharge Range: Up to 39 LPS • Power Rating: 1.5 to 15 kW (2 to 20 HP) • Voltage Range: 350 to 440 Volts (Three Phase) • Insulation: F - Class • Protection: IP55	• Premium efficiency IE2 Motor and energy saving design • Superior Mechanical Seal • Cathodic Electro Deposition (CED) Coating • Dynamically balanced rotating parts • Replaceable Wearing Parts • Flatter Efficiency Curve • Designed to Prevent Overloading • Automatic Air Release	• Air Conditioning and Refrigeration System • Cooling Towers • Fire Fighting • Water Supply • Clear Water Handling at high pressure in industries • Clear Water Handling in ETP/STP Plants • Handling Hot Water in parboiled rice making machines

Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **KDI EE5** Type - Monobloc Pumps	• Head Range: Up to 54 Metres • Discharge Range: Up to 33 LPS • Power Rating: 1.1 - 3.7 kW (1.5 - 5.0 HP) • Voltage Range: 350 to 440 Volts • Insulation: F - Class • Protection: IP55	• Lower life cycle cost with lower operating cost • Up to 16.6 % less energy consumption for pumping same amount of fluid • High efficiencies achieved with AC induction motor design • Cathodic Electro Deposition (CED) Coating • Superior Mechanical Seal • Replaceable Wearing Parts	• Air Conditioning and Refrigeration System • Cooling Towers • Fire Fighting • Water Supply • Clear Water Handling at high pressure in industries • Clear Water Handling in ETP/STP Plants • Handling Hot Water in parboiled rice making machines

Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **DBXe** Type - End Suction Pump	• Delivery size: 32 to 150 mm • Capacity: Up to 550 m^3/hr • Head: Up to 100 metres • Speed from 1450 & 2900 RPM, 1760 & 3500 RPM • Working Pressure: 16 kg/cm^2 (MAWP) • Temperature: 10°C to 90°C • Sealing: Gland Packed (Standard), Mechanical Seal (Against Order)	• The casing has axial suction and top centre line delivery with self venting design • The impellers are statically and dynamically balanced • Shaft is fully protected from the liquid being handled • The stuffing box is sealed by either gland packing or by mechanical seal (DIN/Cartridge) • Pre-lubricated grease sealed bearings are used as a standard scope of supply	• Water Supply • Sprinkler • Air conditioning • Industrial Water • Swimming Pool Water • Hot water (Up to 90°C) • Fire Fighting • Drinking Water/Potable Water • Cooling Water • Clean Juice in Sugar Industry • Solvent in Pharma Industry
 **GK** Type - End Suction Pump	• Delivery Size: 65 to 125 mm • Capacity: 20 to 450 m^3/hr • Head: Up to 60 Metres • Working Pressure: Up to 16 Bar • Temperature: Up to 90°C	• Highly Energy Efficient • Pump with mechanical seal & gland packing arrangement • Sealing/Flushing water not required • Self-venting Design • Pump with back pull out design • Compact Design & wide interchangeability of components • Shaft is fully protected from liquid	• Water Supply, Hot Water, Drinking Water • Sprinkling and Irrigation • Air Conditioning • Industrial Water • Swimming Pool Water • Firefighting • Cooling Water • Condensate • Clear Juice
 **GK(P)** Type - End Suction Process Pump	• Delivery Size: Up to 150 mm • Capacity: Up to 500 m^3/hr • Head: Up to 150 Metres • Working Bressure: 16 - 25 Bar • Temperature: up to 180°C	• End-suction centrifugal process pump • Back pull out design • Top centerline discharge with foot mounted as well as centerline volute casing • Availability of cooling jackets to cool stuffing box for liquids having temperature more than 105°C • ISO 2858/DIN EN 22858/ ISO 5199	• Acids/Alkalis • Hydrocarbons, Oils • Various Process Chemicals • Food Processing Units
 **KPD** Type - End Suction Process Pump	• Delivery Size: Up to 350 mm • Capacity: Up to 1550 m^3/hr • Head: Up to 225 Metres • Working Pressure: 16 - 25 Bar • Temperature: - 50°C – 350°C	• Horizontal and single stage • Top center line delivery • Oil lubricated bearings • API flushing plan	• Process Industries • Petro-Chemical Industry • Nuclear Industry • Refineries, Fertiliser, Paper, Sugar and Other Industries • Air-Conditioning • Distilleries • Water Treatment Plants
 **AT** Type - Thermic Fluid Process Pump	• Delivery Size: From 32 mm to 80 mm • Capacity: Up to 250 m^3/hr • Head: Up to 100 Metres • Working Pressure: up to 16 Bar • Temperature: Up to 350°C	• The pump is integral foot mounted for given temperature range • More reliable for thermal isolation of volute casing • Balanced or unbalanced maintenance free standard mechanical seal • No additional cooling required (air cooled) • Pump with grafoil packing at stuffing box cavity	• Thermic Fluid • Synthetic Oil • Hot Oil

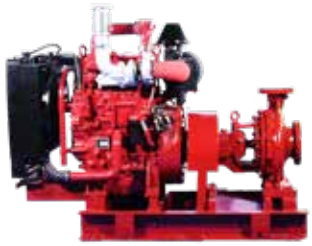
Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **ROMAK** Type - Magnetic Drive Process Pump	• Delivery Size: Up to 100 mm • Capacity: Up to 300 m^3/hr • Head: Up to 150 Metres • Speed 2900, 1450, 980 RPM at 50 Hz and 3500, 1750, 1150 RPM at 60 Hz. • Temperature: - 50° to 180°C	• Seal-less and glandless pump • Magnetic drive pump comprises permanent magnet • Zero leakage • Designed as per ISO 2858/DIN EN 22858/ISO 5199 standards	• Chemicals - Paints, Solvents, Intermediaries, Resin, Polymers and Other Acidic and Basic Chemicals • Pharmaceuticals • Petrochemicals • Suitable for Various Process Industries for Clean/Clear Liquids Without any Suspended Particles
 **SHM** Type - Solid Handling Pump	• Delivery Size: Up to 200 mm • Capacity: Up to 800 m^3/hr • Head: Up to 90 Metres • Working Pressure: Up to 16 Bar • Temperature: - 10°C to 140°C	• Solid size up to 105 mm • Gland packed/mechanical Seal • 50 Hz/60 Hz availability • Available in vertical execution	• Sludge and Paper Pulp • Sewage and Waste Water • Viscous Liquids and Fibrous Materials • Contaminated Process Liquids • Bagasse • Strained and Unstrained Juice • Power Material Slurries • Sugar Factory Waste
 **SHL** Type - Solid Handling Pump	• Delivery Size: From 250 mm to 900 mm • Capacity: Up to 13000 m^3/hr • Head: Up to 82 Metres • Temperature: - 10°C to 90°C • Orientation: Horizontal/Vertical	• Horizontal shaft, single stage, singe suction pumps with back pull-out type design • 50 Hz/60 Hz availability	• Contaminated Process Liquids like Sugar Factory Waste, Trade Liquors • For Handling Liquids with Solids in Suspension, Pulpy Material in Paper Industries • Viscous Liquids or Powdered Material Slurries
 **MF** Type - Mixed Flow Pump	• Delivery Size: From 200 mm to 650 mm (8 to 26) • Capacity: Up to 7000 m^3/hr (30,820 US gpm) • Head: Up to 30 Metres (90 ft.) • Temperature: 5°C to 140°C • Orientation: Horizontal/Vertical	• Low head, high capacity pumps • Gland packed/mechanical seal • 50 Hz/60 Hz availability • Option available in horizontal as well as vertical delivery position	• Air-conditioning • Drainage • Irrigation • Storm Water
 **UP/UPL/UPH/UP(T)** Type - Split Case Pump	• Delivery Size: From 50 mm to 1100 mm • Capacity: Up to 20,000 m^3/hr (88060 US gpm) • Head: Up to 160 Metres • Temperature: - 10°C to 90°C • Orientation: Horizontal/Vertical	• Gland packed/mechanical seal • 50 Hz/60 Hz availability • Good suction performance and low NPSH • Vibration-free performance	• Air-conditioning • Firefighting • Irrigation • Paper, Sugar and Textile Mills • Power Plants • Water Supply

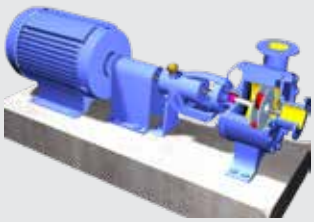
Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **SCT** Type - Split Case Pump	• Delivery Size: Up to 250 mm • Capacity: Up to 1100 m^3/hr • Head: Up to 115 Metres • Orientation: Horizontal/Vertical	• Pump axis horizontal or vertical • Gland packed/mechanical seal • 50 Hz/60 Hz availability	• Air-conditioning and Refrigeration System • Fire Protection Systems and Mining • Petroleum Refineries • Water/Liquids with Slight Impurities
 **SCT - Extended** Type - Split Case Pump	• Delivery Size: Up to 350 mm • Capacity: Up to 4000 m^3/hr • Head: Up to 240 Metres • Temperature: - 10°C to 100°C	• Pump axis horizontal or vertical • Gland packed/mechanical seal • 50 Hz/60 Hz availability	• Air-conditioning and Refrigeration System • Fire Protection Systems and Mining • Petroleum Refineries • Water/Liquids with Slight Impurities
 **DSM/DSMT** Type - Split Case Pump	• Delivery Size: From 50 mm to 150 mm • Capacity: Up to 470 m^3/hr • Head: Up to 180 Metres • Temperature: 8°C to 90°C	• Gland packed/mechanical seal • 50 Hz/60 Hz availability • Good suction performance and low NPSH • Vibration free performance	• Air-conditioning • Primary and Secondary (HVAC) • Heating Ventilation • Firefighting • Irrigation • Mine Drainage • Power Plants • Water Supply
 **i-HT** Type - Split Case Pump	• Delivery Size: Up to 300 mm • Capacity: Up to 1300 m^3/hr • Head: Up to 250 Metres • Temperature: 8°C to 90°C	• Highly efficient - low operation cost • Compact size and less floor space • Low down time - quickly fixable • Low prime mover cost • Lowest pumping - project cost • Dual drive to reduce downtime	• Primary & Secondary Hvac Application • High Pressure Boosting System • Dewatering in Mines • Cooling Tower • Recirculation • Industrial Utility Water Application • Desalination • Water Supply • Paper Plants • Steel Plants
 **HL** Type - Hydro Stream Thru-Bore LLC Series Horizontal Split Case	• Delivery Size: Up to 400 mm • Capacity: Up to 1800 m^3/hr • Head: Up to 120 Metres	• High hydraulic and overall efficiency • Good suction performance • Low NPSH requirement • Low maintenance	• Water supply • Irrigation • Power Plants

Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **KPDS** Type - Solid Handling Sump Pump	• Delivery Size: From 20 mm to 200 mm • Capacity: 0.5 to 750 m^3/hr • Head: Up to 150 Metres • Temperature: Up to 90°C	• Vertical submerged, single stage, single suction pump • Vertical shaft arrangement • Side discharge pump with space saving installation	• Petrochemicals, Refineries, Fertiliser and Power Industries • Transfer and Circulation of Acids, Alkalis, Solvent Oil, Etc. • Highly Alkaline and Highly Acidic Liquids (with Enclosed Impeller) • Crystallising Liquids, Liquids Containing Suspended Solids, Industrial Clear Effluent
 **SHS** Type - Solid Handling Sump Pump	• Delivery Size: Up to 300 mm • Capacity: Up to 1500 m^3/hr • Head: Up to 90 Metres • Temperature: - 10°C to 90°C	• Vertical submerged, single stage, single suction pump • Vertical shaft arrangement • Side discharge pump with space saving installation	• Liquids with Solids in Suspension • Sludge & Pulpy Material • Industrial Waste Handling • Liquids Containing Fibrous & Powdered Material • Coal Tar • Effluents
 **NS** Type - Non-clog Submersible Pump	• Delivery Size: Up to 300 mm • Capacity: Up to 1800 m^3/hr • Head: Up to 90 Metres • Max permissible solid size up to 300 mm	• Non-clog two vane or single vane enclosed impeller • Permissible solid size up to 85 mm • Gland packed/mechanical seal • 50 Hz/60 Hz availability	• Screened Sewage • Raw Sewage • Contaminated Effluents • Industrial Waste Water • Storm Water • Trench and Tunnel Water • Drain Water, Mine Water, etc.
 **i-NS** Type - Non-clog Submersible Pump	• Delivery Size: Up to 150 mm • Capacity: Up to 300 m^3/hr • Head: Up to 50 Metres • Max permissible solid size up to 125 mm	• Impellers are available with two or multiple vanes in semi-open and enclosed type to be able to cater to a wide range of application areas • Permissible solid size up to 125 mm • Double mechanical seal with back to back arrangement to ensure there is no ingress of pumping liquid in the motor	• Contaminated Effluents • Industrial Waste Water • Storm Water • Trench and Tunnel Water • Drain Water • Saline Water • Drainage Water • Sewage Water
 **RKB/RKBF/RKBK** Type - Multi-stage Pump	• Delivery Size: Up to 250 mm • Capacity: Up to 850 m^3/hr • Head: Up to 850 Metres • Working Pressure: 40 to 64 Bar • Temperature: - 40 °C to 140 °C	• Gland packed/Mechanical seal • Ring section diffuser casing • Stuffing box cooling for high temperature applications • Available in vertical configuration • Optional orientation available for suction branch • Hydraulic thrust balancing by balancing holes • Multi-cutlet feature enables usage of the pump for different delivery pressures	• Fire-Fighting • Booster Service • Mine Dewatering • Boiler Feed • Sprinkler Irrigation • Descaling

Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **HYPN** Type - Hydropneumatic Pressure Boosting System	• Delivery size: up to 180 mm • Discharge Capacity: 200 m^3/hr • Total Head: 240 Metres • Speed: 2900 to 3000 RPM • Working Pressure: up to 25 Bar • Temperature: - 20°C to +120°C • Tailor-made as per customer requirement	• Minimal Floor Space • Silent Operation • Higher Efficiencies • Increased Energy Savings • Reduced Maintenance Cost • Operates in accordance with water demand • No manual intervention required • Maintains system pressure all the time • Saves energy by shutting the pumps when there is no usage	• Tank Filling Water Transfer • Residential Housing • Small Size Commercial – Residential Buildings • Medium size Commercial – Residential Buildings • Demand-Based Industrial Applications • Townships, Hospitals, Airports, Malls and Metros • Steel Plants – Cooling Circuits • Sugar Industries – Water Injection Pumps
 **KW-LC** Type - Vertical Inline Long Coupled Pump	• Delivery size: up to 200 mm • Discharge Capacity (Q): 550 m^3/hr (150 LPS) • Total Head: 52 Metres • Speed (Nominal): 1450 RPM • Suction Pressure: Up to 12 Bar (subject to maximum working pressure is 16 Bar) • Working Pressure: 16 Bar (varies as per suction pressure) • Temperature: maximum Up to 90°C	• Vertical inline long coupled through axially split rigid coupling • Suction and Delivery nozzles are cast integral with volute and are in-line. Suction and delivery flanges are cast integral • Volute is designed with smooth fluid flow passages. • Machined surface and mounting holes are provided on the pump casing for ease of pump installation.	• Water Supply • HVAC • Air Conditioning • Hot Water up to 90°C • Drinking Water • Cooling Water • Fire Fighting Applications
 **KW-SC** Type - Vertical Inline Short Coupled Pump	• Delivery Size: up to 80 mm • Discharge Capacity (Q): 150 m^3/hr • Total Head: 58 Metres • Speed (Nominal): 2900 RPM at 50 Hz • Suction Pressure: Up to 12 Bar (subject to maximum working pressure is 16 Bar) • Working Pressure: 16 Bar (varies as per suction pressure) • Temperature: Maximum Up to 90°C	• Vertical inline short coupled design, saves space and simplifies piping. • Eliminates the need for coupling. • Mechanical seal as a standard scope of supply. • Easy maintenance/replacement of mechanical seal and pump internals without removing piping. • Enclosed type, dynamically balanced impeller ensures smooth operation of the pump.	• Air-conditioning • HVAC • Water Supply • Hot Water up to 90°C • Drinking Water • Cooling Water
 **AUTOPRIME PUMP** Type - Flood Control Unit	• Flow Rate: 200 to 600 m^3/hr • Discharge Head: 4 to 28 Metres • Pump Speed Rang: 750 to 1500 RPM • Max. Solid Size: Up to 100 mm • 30 HP to 300 HP Pumpsets • Discharge Capacity: Up to 20,00,000 Litres per hour	• Pump can be left running when liquid is exhausted and will self prime when liquid is present • Rugged construction requires minimal operator maintenance • 60 CFM Vacuum Pump with coalescer and air exhaust to atmosphere • Rotary Vane, Oil lubricated Vaccum Pump: 60 CFM (100 m^3/hr) • No manual intervention for priming purpose is required	• Flood Relief • Ground Water Control • Well-Point Dewatering • Sewage over-Pumping • Pipe Relining • Mine Dewatering • Industrial Sludge Pumping • Tank Sediment Cleaning • Emergency Service Pumping
 **VEP** Type - Small Vertical Turbine Pump	• Capacity: Up to 880 m^3/hr • Head: Up to 180 Metres	• Reliable, efficient and cost-effective • Compact design enables to fit in lesser openings at pump floor • Cast discharge head enables more stability • Serrated wear rings ensure less wear, high efficiency and sustainability • Hollow shaft motor combination eliminates separate thrust bearing from top of the discharge head	• Irrigation • Water Supply • Firefighting • River Water Intake • General Industry • Cooling Water • Sea-Water Application

Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **BHR/BHQ/BHM/BHK/ BHMa/BHA** Type - Large Vertical Turbine Pump	• Delivery Size: Up to 2200 mm • Capacity: Up to 75000 m^3/hr • Head: Up to 240 Metres	• Vibration-free performance • Low submergence • No priming required • Dry pit/wet pit arrangement available • Direct drive/right angle gear drive • Impeller pull-out/non-pull-out • Bowl pull-out/non-pull-out • Gland packed/mechanical seal • 50 Hz/60 Hz availability	• Lift Irrigation (Vertical and Inclined Mounting) • Water Supply • Circulating Water for Thermal and Nuclear Power Plants • Various Applications in Steel, Cement Industries and Refineries • Handling Sea-Water on off-Shore Platforms and Dry-Docks • Firefighting • Flood Control • Condensate Extraction
 **CVP** Type - Concrete Volute Pump	• Delivery Size: Up to 6000 mm • Capacity: Up to 120,000 m^3/hr • Head: Up to 50 Metres	• High Reliability • Design Simplicity • Excellent Corrosion Resistance • Superior Operating Performance • Vibration-Free Performance • Low Submergence • Low Maintenance Cost	• Thermal and Nuclear Power Plants • Water Supply Pumps • Irrigation Pumps • Flood Control • Storm Water • Dry Docks
 **MVP** Type - Metallic Volute Pump	• Delivery Size: Up to 5000 mm • Capacity: 10 to 120,000 m^3/hr • Head: 3 to 350 Metres • Temperature: Up to 120°C	• High reliability • Design simplicity • Superior operating performance • Vibration-free performance • Low submergence • Lowest maintenance costs	• Thermal and Nuclear Power Plants • Water Supply Pumps • Irrigation Pumps • Flood Control • Storm Water • Dry Docks
 **KCS-CAN** Type - Canned Motor Pump	• Delivery Size: Up to 250 mm • Capacity: Up to 1000 m^3/hr • Head: Up to 135 Metres • Temperature: - 40°C to 270°C • Working Pressure: Up to 120 Bar	• No seal-no leakage • No coupling-no alignment and no vibration problem • No separate lubrication of bearing and no contamination of lubricant • No anti-friction bearings • Small and compact design, resulting in saving in installation space • Easy maintenance and longer life • Extremely low noise level	• Contaminated Effluents • Industrial Waste Water • Storm Water • Trench and Tunnel Water • Drain Water • Saline Water • Drainage Water • Sewage Water
 **i-CM** Type - Canned Motor Process Pump	• Delivery Size: From 32 to 50 mm • Capacity: 4 to 80 m^3/hr • Head: Up to 60 Metres • Working Pressure: 16 Bar • Temperature: Up to 90°C	• i-CM pump is a seal less, glandless and emission-free Canned Motor pump • Integrated motor design makes it compact in construction and light in weight	• Refrigeration (Cold Storage) • Ice Plants • Chemical and Process Industries • Windmills

Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **KFE** Type - Fire Engine Pump Set	• Flow: 97 to 273 m^3/hr • Head: 56 to 145 Metres • MOC: Casing – CI, Impeller – Bronze, Shaft – CS/SS • Shaft Sealing: Gland packed/ Mechanical seal • Type of Engine: Radiator/Heat exchanger • Speed Range: 1500 to 3000 RPM	• Value for money • Compact design • Factory fitted and tested sets • Ready stock availability • Tested as per fire standards • Low maintenance • Largest fire pump service network • AMC facility • Single point responsibility of entire pump set	• Sprinkler Systems • Hydrant Systems • Deluge Systems • Monitor Systems • Water Curtains
 **MSMO** Type - Fire Fighting Pump	• Capacity: Up to 700 m^3/hr • Head: Up to 500 Metres • Outlet up to 7 • MOC: Casing – CI, Impeller – Bronze, Shaft – CS/SS • Shaft Sealing: Gland packed/ Mechanical seal • Type of Engine: Radiator/Heat exchanger • Speed Range: 1500 to 3000 RPM	• Multi outlet varient reduces the necessity of multiple pumps for different head requirments • Vertical Execution offers better mechanical stability • Saving on construction of Pump house • Eliminating the water storage tank on intermediate floors • Self-allignment of pump and motor couplings • Less pipe work and valves • Suction delivery Piping feasibility • Low Maintenance cost	• High rise buildings • To maintain different pressure levels at diverse pressure zones
 **FM/UL** Type - Fire Fighting Pump	• Capacity: Up to 5000 US gpm • Head: Up to 378 psi • MOC: Casing – CI, Impeller – Bronze, Shaft – CS/SS • Shaft Sealing: Gland packed	• Greater reliability when preventing property damage in case of a fire. • All components within the pumps are independently approved and tested ensuring the product meets the expected high quality • An extensive range of FM/UL Pumps	• Warehouses • Commercial Complexes • Oil and Sas on-Shore and off-Shore Platforms • Airports and Ports • Data Centers • Hospitals • Industrial Premises • Petroleum and Petrochemical Complexes • High Rise Buildings
 **FLD** Type - Fire Sprinkler Pump Set	• Flow: Up to 900 LPM • Head: Up to 6 Bars • Operating Sprinklers: up to 8 nos.	• Cost effective solution for small premises • Plug and play packaged system delivered on site • Clean environment on site due to minimal activity • Digital display for monitoring of pressure and faults • Periodic auto test facility ensures healthyness of the system • Compact IP 65 control panel with embedded controller • Available in single & three phase motors	• Showrooms • Bungalows/Villas • 2 Floor Building • Small Shops
 **CFS** Type - Containerised Fire Pump Set	• Capacity: Up to 273 m^3/hr • Head: Up to 145 Metres • Tailor-made as per customer requirement	• Plug and play packaged system delivered on site • The insulated enclosures minimise operating noise levels • Significantly reduce site installation costs and time while eliminating the need for a skilled workforce, thus saving labour costs. • Fully tested and pre-commissioned using advanced computerised testing facilities • Built in clean, controlled factory environment to a high engineering standard	• Fire-Protection of Buildings and other Built Infrastructure

Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **Lowest Lifecycle Cost (LLC™) Pump** Type - LLC Series	• Capacity: 4500 m^3/hr • Head: Up to 166 Metres • Maximum Suction pressure 14 Bar • Temperature: 10 °C to 120 °C • Turbidity (TDS): Up to 3000 ppm • Tailor-made as per customer requirement	• Mechanical seal • Corrosion resistant shaft • Reduces carbon footprint • Cost-effective solution • Low energy consumption • Externally removable bearing house	• Water Supply • Effluent Treatment Plant • Industrial Utility Services • Cooling Tower Circulation • Sea-water Handling • Desalination Plants
 **KirloSmart™** Type - Remote Monitoring	**Remote Monitoring Parametres** • Pressure • Flow • Pump run hours • Power • Voltage • Current • Frequency • Power Factor • Pump/Motor bearing vibrations • Pump/Motor bearing temperature • Motor winding temperature	• Predictive maintenance alerts • Live status, historical data and trend monitoring through web and/or interactive mobile app • Alerts/alarms through push notifications, SMS & emails • System diagnostics and assistance • User configurable sensors • Communication mode selection (GPRS/Ethernet) • Simple, plug and play	Remote Monitoring from anywhere • Mobile • Tablet • Laptop • Desktop
 **KirloSmart™ Fire** Type - Remote Monitoring	**Engine Pumpset** • Engine status, Fuel level, Run Hours, Battery voltage, Speed, Temperature **Main Motor Pumpset** • Voltage, Current, Status - On/Trip **Jockey Pumpset** • Voltage, Current, Status - On/Trip **System** • Header pressure • Water Tank Level	• Predictive maintenance alerts • Live status, historical data and trend monitoring through web and/or interactive mobile app • Alerts/alarms through push notifications, SMS & emails • Fire system diagnostics and assistance • User configurable sensors • Communication mode selection (GPRS/Ethernet) • Simple, plug and play	Fire Fighting Pumpsets • Non Listed • Listed (FM/UL)
 **PAT** Type - Pump As Turbine	• Head: Up to 200 metres • Power: Up to 1 MW • Orientation: Vertical/Horizontal	• Off-the-shelf availability • Lower initial cost • Sturdy construction • Easy maintenance • Low gestation period • Readily available spares	• Decentralised Micro Hydropower Plants in Natural Streams in Hilly Areas • Irrigation Barrages/Dams • Drinking Water Supply Schemes in Hilly Remote Areas • Pressure Control/Throttling in Closed Loop Systems • Damping Excess Pressure in System • Reduction of Process Water Pressure • Customized for Sea Water Applications
 **PICO** Type - Micro Hydro Power Generator	• Head: Up to 60 Metres • Flow: Up to 115 m^3/hr • Can be customized to suit site parametres • Tailor-made as per customer requirement	• Available with a wide range of heads and flows • Available in large number of standard sizes • Low cost • Easy availability of spare parts • Easy installation • Short delivery time	• Village Schemes, Mainly for Household Lighting • Electricity in Remote Farms • High Rise Buildings • Battery Charging and Other Intermittent Load Applications • Small Grid Connected Power Plants

Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications


Francis Turbine
Type - Hydro Turbines
	• Orientation: Horizontal/Vertical
	• Unit Output: Up to 10 MW
	• Head: Up to 300 Metre
		• Optimised selection and sizing for high efficiency
		• Delivered with high-quality self-lubricating bearings as standard which have higher specifications and are environment-friendly
		• Supplied in two configurations:
		  • Turbine runner and flywheel are directly mounted on generator shaft
		  • Turbine and generator have their own separate shafts and bearings
			• Small Hydro-Electric Projects: Dam Based, Run-off River, etc.


Pelton Turbine
Type - Hydro Turbines
	• Orientation: Horizontal/Vertical
	• Unit Output: Up to 10 MW
	• Head: Up to 350 Metre
		• High head and low discharge
		• Supplied in following configurations:
		  • Single jet horizontal
		  • Double jet horizontal
		  • Four jet vertical
		  • Control mechanism with nozzle and deflector
			• Small Hydro-Electric Projects with High Head


Kaplan Turbine
Type - Hydro Turbines
	• Orientation: Horizontal/Vertical
	• Unit Output: Up to 10 MW
	• Head: Up to 60 Metre
		• Low head and high flow
		• Supplied in following configurations:
		  • Full Kaplan
		  • Semi Kaplan
		  • Propeller
		  • S Type Tubular Kaplan (Horizontal Shaft)
			• Small Hydro-Electric Projects: Dam Based, Run-off River, etc.
			• Canal Based Project

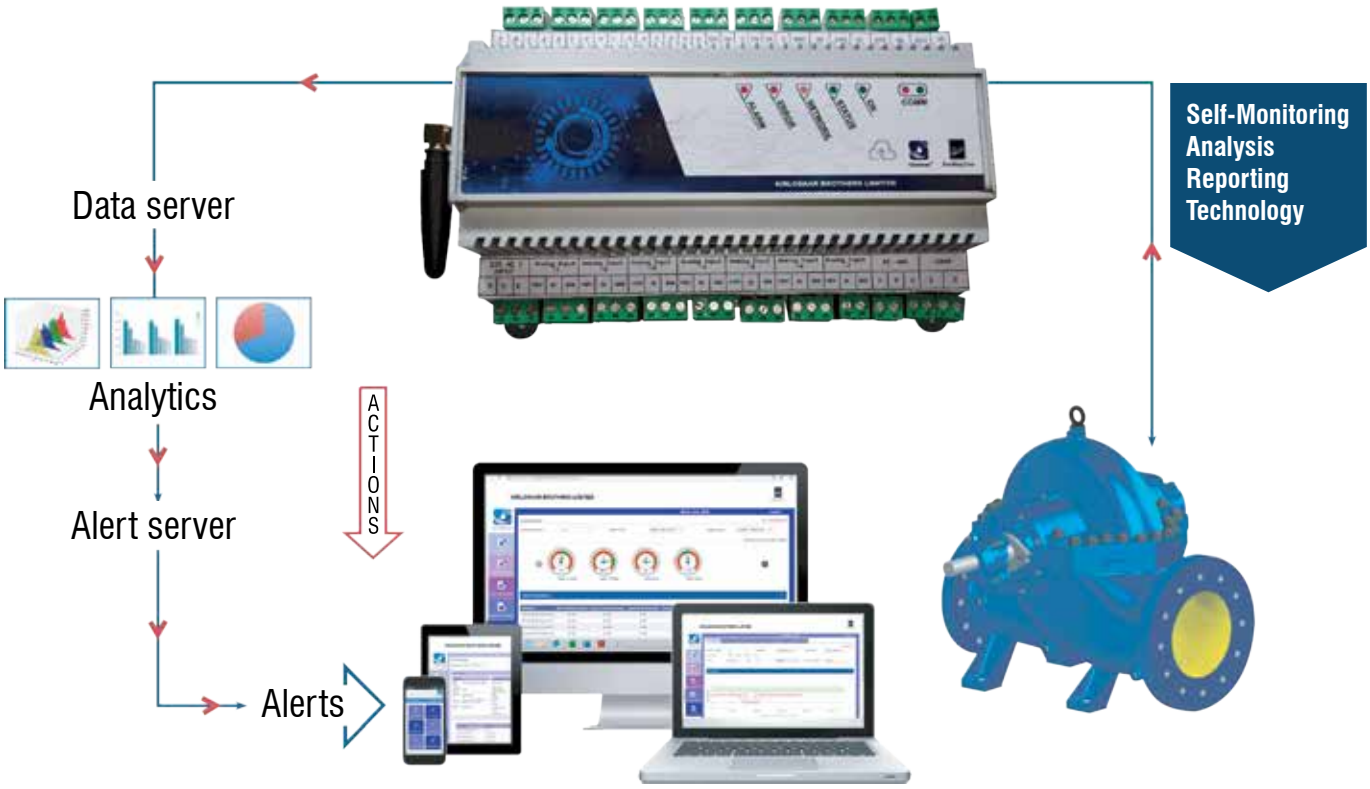
Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **Butterfly Valve** Type - Single/Double Eccentric	• Size: 80 to 2500 mm (3" to 100") • Pressure: Up to PN 1.6 • Conforming to BS 5155 • to 60°C	• Duo-eccentrically Mounted/ streamlined Disc • Less Wear and Tear • Self-cleaning and non-Jamming Seat Design • Low Operating Torque	• Agriculture • Irrigation • Power • Sugar • Water Supply
 **Sluice Valve – NRS & RS** Type - OS&Y	• Size 50 to 1200 mm (2" to 48") • Pressure PN 0.4 to PN 1.6 (conforming to IS 780 & IS 2906) • Rating PN 1.6 (conforming to BS 5163) • Temperature: Up to 60°C	• Rigid and Sturdy Design • Low Pressure Loss • Rising Stem or Non-rising Stem Type • Resilient Seated Valves Available	• Agriculture • Fire-fighting • Irrigation • Power • Sewerage • Sugar • Water Supply
 **Reflux Valve Multi Door** Type - Swing Check	• Size Range: DN500 to DN1500 • Pressure Rating: PN1.0, PN1.6, PN2.0, PN2.4 • Material of Construction: Inlet/ Outlet Body: Cast Iron/Ductile Iron CS WCB/Stainless Steel • Seat Rings: LTB2/SS410/ SS304/SS316	• Swing check type design • Rigid and sturdy design with minimum head loss • Long service life and leak-tightness of a high order • Quick closing and non-slam design • Seat rings are fitted with special rivets and are carefully machined to close tolerance • Available in both bypass and companion flange arrangement	• Used in Waterworks Pipe Lines to Reduce Water Hammer Effect • Prevents Back Flow of Water to the Pump • Suitable for Handling Clear Water Having Turbidity up to 5000 PPM & Temperature up to 45°C
 **Tamperproof Kinetic Air Valve** Type - Air Valve	• Size Range: DN50 to DN250 • Pressure Rating: PN1.0, PN1.6, PN2.0	• Double orifice type (small and large orifice), kinetic type • Non-clogging and self-sealing balls for trouble-free operation • Totally tamper-proof kinetic air valve • Releasing air when water mains are being filled and admitting air while being emptied • Cuts loss of water when water mains are full releasing air accumulated under pressure in pipe	• Air Venting/Air Admission Services in Water Supply Lines/ Distribution Lines • Handling Turbid & Clear Water • Sewage Applications
 **Resilient Seated Gate Valve** Type - Sluice/Gate Valve	• Size: 50 mm to 1000 mm • Pressure Rating: PN 10, PN 16 • End-connection flange drilling standard as per BS EN 1092 Part 2	• Pocket-less design ensures minimal head loss across valve • Assured leak tightness for long service life	• Used for Reliable and Safe Supply of Drinking Water • Suitable for Isolation Duty (Full Open/Full Close) • Water Supply Lines and Water Plants

Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **Cast Steel Gate Valve** Type - Sluice/Gate Valve	• Class 150 Size 2'' (50 mm) to 24'' (600 mm) • Class 300 Size 2'' (50 mm) to 12'' (300 mm) • Conforming to BS 1414/API 600 • Temperature: Up to 475˚C	• Rigid and Sturdy Design • Low Pressure Loss	• Chemical Industries • Process Industries • Refineries
 **Cast Steel Globe Valve** Type - Gate/Globe Valve	• Class 150 and Class 300 Size 2'' (50mm) to 8'' (200 mm) • Conforming to BS 1873 • Temperature: Up to 475˚C	• Rigid and Sturdy Design • Low Pressure Loss	• Chemical Industries • Process Industries • Refineries
 **Cast Steel Check Valve** Type - Non-Return/Check Valve	• Class 150 and Class 300 Size 2'' (50mm) and 8" (200mm) • Conforming to BS 1868 • Temperature: Up to 475˚C	• Rigid and Sturdy Design • Low Pressure Loss	• Chemical Industries • Process Industries • Refineries
 **Dual Plate Check Valve** Type - Non-Return/Check Valve	• Size: 80 mm to 2600 mm • Pressure Rating: CL-125, CL-150, CL-250, CL-300, CL-600 • End Connection: Doubled Flanged/Wafer	• Lighter in weight and compact in size compared to conventional non-return valve • Innovative hinge pin design allows disc assembly to lift off seat prior to disc rotation preventing heel of each disc from scrapping across the body seat	• Used in Pipe Lines to Prevent Reverse Flow of Water and Water Hammer the Pumps from Rising Mains • Suitable to Handle Water, Sea Water, Potable Water, Saw Water Having Turbidity up to 5,000 Ppm and Temperature: Up to 45°C • Gas: On Shore-off Shore • Metallurgical & Chemical Processes
 **Suction Diffuser/ Triple Duty Valve**	• Size Range i) Suction Diffuser: 2" to 20" ii) Triple Duty Valve: 2" to 24" • Pressure Rating: ANSI Class 125 and Class 250 • ANSI Standard Flanges	Suction Diffuser: • Installed at the inlet of the pump, to serve as a filter to remove suspended debris Triple Duty Valve: • Installed at the discharge side of pump systems • Throttling operation & tight shut off function	• Hvac Building and Construction (Multi-Storied Buildings/ Shopping Complexes/Indoor Stadium/Airports) • Industry (Pharmaceuticals/ Bottling Plants/Chemical/Food and Beverages)

Kirloskar Pumps, Valves & Hydro Turbines	Technical Specifications	Features	Applications
 **Reflux Valve Single Door** Type - (Non-Return Valve)	• Size: 350 to 750 mm (14" to 30") • Conforming to IS 5312 • Temperature: Up to 60°C	• Bypass and Dashpot Arrangement • Multi-door Arrangement • Low Pressure Loss	• Agriculture • Irrigation • Power • Sugar • Water Supply
 **Fire Service** Water Control Valves Type - FM/UL Valves	• Size: 50 mm (2") to 250 mm (10") • End Connections: Flanges drilled to BSEN: 1092 - 2, PN 16 FF/ ANSI B16.1 CL125 (Flat Faced) • Working Pressure: 250 PSI (1725 KPa) • Operation: Manual Hand wheel	• Metal to metal seating for longer service life • Rigid and sturdy design with minimum loss of head across the valve • Leak-tightness even after thousands of Open/Close cycles	• Fire Service Water Control Valves

Redefining Remote Pump Health Monitoring with the advanced

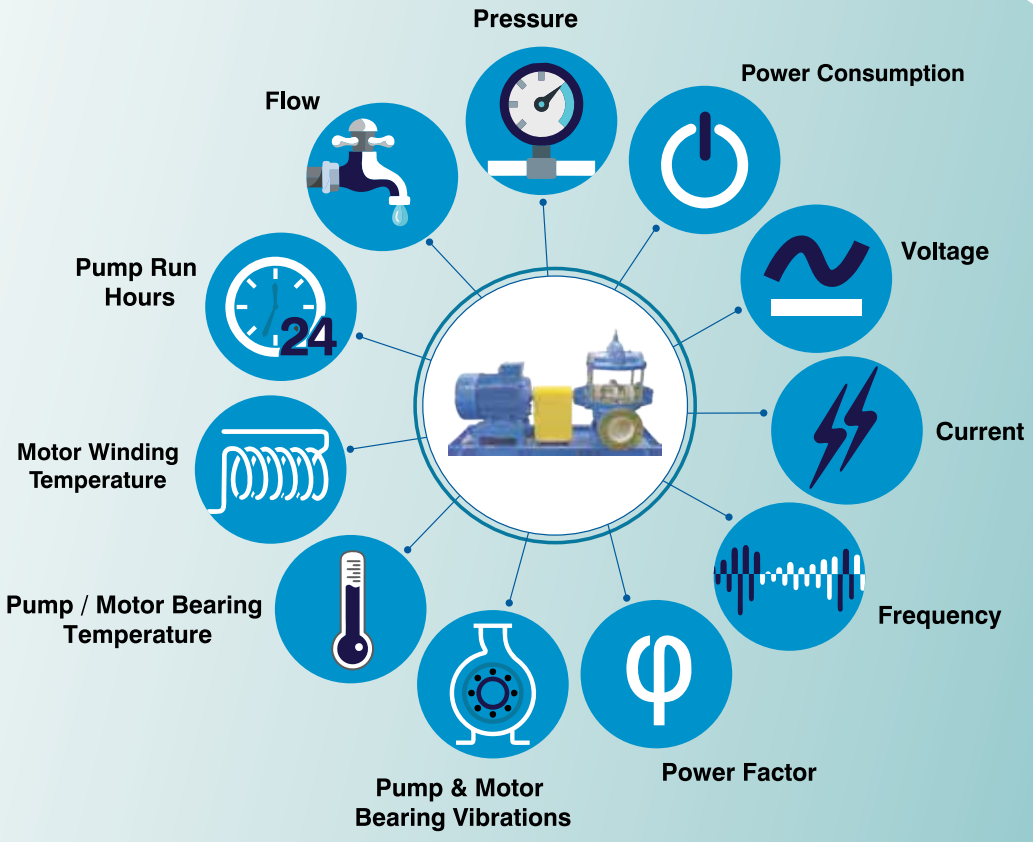
KirloSmart™



Unique Features

- Predictive maintenance alerts with probable causes (SMS & Email)
- 24 x 7 Real Time Monitoring, Historical Data & Trend Monitoring, Graphical Indications
- Remote Diagnostic of the issues at early stages with communication mode selection (Mobile Data (GPRS) / Ethernet)
- Cost effective, Simple, Plug & Play

Parameters



AUGMENTED REALITY: BUILDING THE FUTURE WE ENVISION

AUGMENTED REALITY (AR)

Augmented reality is a highly visual, interactive method of overlaying digital content and information onto the physical world as if they're there with you, in your own space.

PURPOSE OF AUGMENTED REALITY

Empowering service engineers with relevant information and to increase productivity, improve knowledge transfer, reduce service costs.

BENEFITS

- 3D animated step-by-step guided repair instructions
- Better information delivery
- Modernized training methods and faster knowledge transfer
- First time right quick complaint resolution
- Enhanced customer experiences

USE-CASES:

SERVICE
Service Manual & Instructions, Maintenance Work Instructions

MANUFACTURING
Operator and Assembly Work Instructions

TRAINING
Step-by-step operation and service instructions and SOPs

SALES AND MARKETING
Virtual Product Demonstration

E-WARRANTY REGISTRATION

Steps for E-Warranty Registration for Newly Purchased Pumps/Pump Sets

THROUGH KBL's OFFICIAL WEBSITE

- Log on to the web site www.kirloskarpumps.com
- Scroll down and go to the option of E-Warranty Registration
- Enter the pump serial number and other necessary details as requested
- Register for E-Warranty

USING WHATSAPP NUMBER

- For your newly purchased pumps, keep the pump invoice ready with you
- Send a message on KBL's WhatsApp number 9922710710 & provide requested details for registration of E-Warranty
- You can also email us the necessary details for registration of E-Warranty on: kblcare@kbl.co.in

USING KBLOne4All APP

- Download the KBLOne4All App from Google Play Store and iOS App Store
- Select the user category and login with the help of mobile number by filling up the necessary details as requested
- System has 2 options regarding the capture of pump serial number: through QR Code scanning available on the pump or through manual entry of the pump serial number
- Register for E-Warranty

Note: Registration of the E-Warranty of your newly purchased pump is mandatory for getting the services & required support from our company without any difficulties.

NOTES

Enriching Lives

KIRLOSKAR BROTHERS LIMITED

Established 1888
A Kirloskar Group Company

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Email: marketing@kbl.co.in I **Fax No.** 020 67211060
Website: www.kirloskarpumps.com I **CIN No.** L29113PN1920PLC000670

OUR COMPANIES

BRAYBAR PUMPS (PTY) LTD
Republic of South Africa

KARAD PROJECTS AND MOTORS LIMITED
India

KIRLOSKAR BROTHERS (THAILAND) LIMITED
Thailand

KIRLOSKAR CORROCOAT PRIVATE LIMITED
India

KIRLOSKAR EBARA PUMPS LIMITED
India

RODELTA PUMPS INTERNATIONAL B.V.
The Netherlands

SPP PUMPS LIMITED
United Kingdom

SYNCROFLO, INC.
U.S.A.

THE KOLHAPUR STEEL LIMITED
India

Scan for more information

DTW July 2024

Note that the products in the catalogue are subject to change without notice.