ORIGINAL KIRLOSKAR PUMP

Kirloskar

Enriching Lives

STRENGTHENED BY 99.9% PURE EC GRADE **COPPER WINDING WIRES**

KIRLOSKAR PUMPS
VERSATILE AND RELIABLE,
FOR EVERY USE, EVERYWHERE

PRODUCT CATALOGUE

KIRLOSKAR BROTHERS LIMITED
Established 1888
A Kirloskar Group Company

A HISTORY OF **EXCELLENCE**

Kirloskar Brothers Limited is a world-class pump manufacturing company with experience in engineering and manufacture of systems for fluid management. Established in 1888 and incorporated in 1920, KBL is the flagship company of the $2.1 billion Kirloskar Group. The market leader in fluid management, KBL provides complete fluid management solutions for large infrastructure projects in the areas of water supply, power plants, irrigation, oil & gas and marine & defence.

KBL's commitment to quality and sustainability is as reliable as its products. This is why all plants of KBL are ISO 9001 & ISO 14001, OHSAS 18001, ISO 14000 Environment Standard Certified. The plants apply Total Quality Management tools using European foundation for Quality Management (EFQM) model.

As one of the largest pump manufacturers in India, KBL offers over 75 types of pumps in over 500 variants with up to 1,200 metre head and discharge of up to 120,000 cubic metres per hour. These pumps ensure the lowest life cycle cost; it is because KBL pumps offer maximum reliability under all operating conditions, ensuring trouble-free operations at all times and eliminating costly downtime. Additionally, KBL pumps are constructed with materials that offer the best resistance to corrosion and abrasion, enhancing performance for years together.

Technological innovations employed in pump engineering also reduces overall energy use, enhancing efficiency and cost saving.


Enriching Lives

Enriching Lives

INDUSTRIAL
PRODUCT RANGE

SELF PRIMING SEWAGE / DEWATERING PUMPS

Enriching Lives

SP COUPLED SET

ENERGY EFFICIENT
PUMPSET WITH IE5 MOTOR

Ultra Premium Efficiency IE5 Motor

FEATURES

Ultra Premium Efficiency
Lower life cycle cost with lower operating cost.

Higher Specific Discharge (discharge rate per unit power)
Up to 16.5% less energy consumption for pumping same amount of fluid.

High grade F-Class insulation with Temperature rise limited to B-Class#
Robust design to withstand higher temperatures reducing the chances of motor burning and ensures the reliability, safety and enhanced life.

High Efficiencies Achieved with AC Induction Motor Design
Rugged and most suited to work under varied field conditions. Easy to operate, maintain and service at local levels as there is no use of permanent magnets / added accessories/control equipment.

CED Coated Impeller
Resistance to corrosion leading to longer life.

Optimum Fan and Fan Cover Design
Designed for optimum cooling with minimum power consumption and quiet operation.

Self-priming
No need of foot valve and priming pump set every time resulting into quicker start up time.

Non-clog Impeller
Non-clog impeller to handle suspended soft solids up to 10.5 mm in size making it suitable for waste water, sewage and dewatering applications.

Dynamically Balanced Rotating Parts
Minimum vibration protects the components from damage during the operation, thus ensuring consistent performance as concentricity is maintained.

 # For selected models only

TECHNICAL SPECIFICATION

Head Range	-	Up to 32 Metres
Discharge Range	-	Up to 10 LPS
Power Rating	-	0.75 to 3.7 kW (1 to 5 HP)
Voltage range	-	415±10%
Insulation	-	F Class
Protection	-	IP55

MATERIAL OF CONSTRUCTION

Impeller	-	Cast Iron / Stainless Steel / Bronze
Delivery Casing	-	Cast Iron
Motor Body	-	Cast Iron
Pump Shaft	-	Carbon Steel / Stainless Steel
Shaft sleeve	-	Stainless Steel
Sealing	-	Gland Packed / Mechanical Seal with HNBR which can withstand fluid temperature up to 120°C

APPLICATIONS

- Handling light chemicals, effluents, sewage, ashwater, 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.

PERFORMANCE CHART FOR SP SERIES, SELF PRIMING,COUPLED SET WITH ENERGY EFFICIENT IE5 MOTORS AT RATED RPM, THREE PHASE A.C. POWER SUPPLY																							
S. No.	PUMP MODEL	Power Rating		Pipe Size (mm)		Rated Voltage (Volts)	Impeller Dia. (mm)	Solid Handling Size (mm)	Rated Speed (RPM)	TOTAL HEAD IN METRES													
		kW	HP	SUC.	DEL.					6	8	10	12	14	15	16	17	18	19	20	22	24	25
										DISCHARGE IN LITRES PER SECOND													
1	SP - 0	0.75	1.0	40	40	415	116	7.0	2760	4.6	4.1	3.5	2.6	1.5	0.7	-	-	-	-	-	-	-	-
2	SP - 1H	1.5	2.0	40	40	415	134	8.5	2900	-	-	6.3	5.6	4.8	4.5	3.9	3.4	2.7	1.9	-	-	-	-
3	SP - 2H	2.2	3.0	50	50	415	145	10.5	2900	-	-	9.2	8.7	8.1	7.8	7.3	6.9	6.5	6.0	5.4	4.2	2.6	1.8
										20	22	23	24	26	28	30	32	34	36	38	40	42	43
4	SP - 3A	3.7	5.0	80	80	415	174	7.0	2900	10.1	9.1	8.7	8.0	6.8	5.2	3.7	1.9	-	-	-	-	-	-

Note:

- Performance under standard test conditions and may vary on site conditions.
- Performance applicable to liquid of specific gravity 1 and viscosity as of water.

Enriching Lives

SP COUPLED SET

ENERGY EFFICIENT
PUMPSET WITH IE4 MOTOR

Premium Efficiency IE4 Motor

FEATURES

Premium Efficiency
Lower life cycle cost with lower operating cost.

High grade F-Class insulation with Temperature rise limited to B-Class#
Robust design to withstand higher temperatures reducing the chances of motor burning and ensures the reliability, safety and enhanced life.

High Efficiencies Achieved with AC Induction Motor Design
Rugged and most suited to work under varied field conditions. Easy to operate, maintain and service at local levels as there is no use of permanent magnets/added accessories/control equipment.

Higher Specific Discharge (discharge rate per unit power)
Up to 14% less energy consumption for pumping same amount of fluid.

CED Coated Impeller
Resistance to corrosion leading to longer life.

Optimum Fan and Fan Cover Design
Designed for optimum cooling with minimum power consumption and quiet operation.

Self-priming
No need of foot valve and priming pump set every time resulting into quicker start up time.

Non-clog Impeller
Non-clog impeller to handle suspended soft solids up to 34 mm in size making it suitable for waste water, sewage and dewatering applications.

Dynamically Balanced Rotating Parts
Minimum vibration protects the components from damage during the operation, thus ensuring consistent performance as concentricity is maintained.

 # For selected models only

TECHNICAL SPECIFICATION

Head Range	-	Up to 36 Metres
Discharge Range	-	Up to 66.5 LPS
Power Rating	-	0.75 to 15 kW (1 to 20 HP)
Voltage range	-	415±10%
Insulation	-	F Class
Protection	-	IP55

MATERIAL OF CONSTRUCTION

Impeller	-	Cast Iron / Stainless Steel / Bronze
Delivery Casing	-	Cast Iron
Motor Body	-	Cast Iron
Pump Shaft	-	Carbon Steel / Stainless Steel
Shaft sleeve	-	Stainless Steel
Sealing	-	Gland Packed / Mechanical Seal with HNBR which can withstand fluid temperature up to 120°C

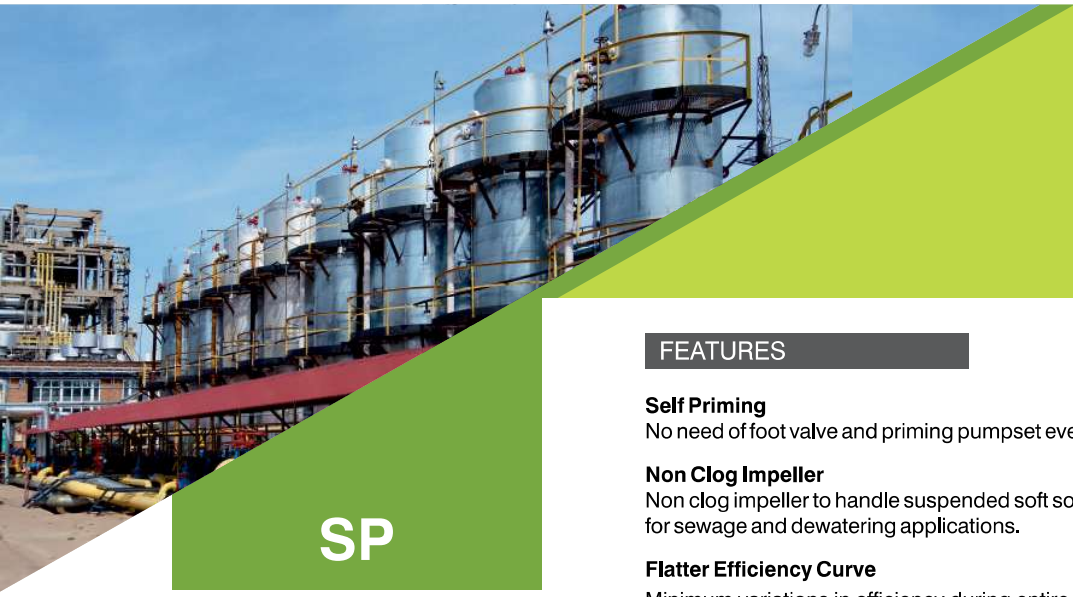
APPLICATIONS

- Handling light chemicals, effluents, sewage, ashwater, 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.

PERFORMANCE CHART FOR SP SERIES, SELF PRIMING,COUPLED SET WITH ENERGY EFFICIENT IE4 MOTORS AT RATED RPM, THREE PHASE A.C. POWER SUPPLY																									
S. No.	PUMP MODEL	Power Rating		Pipe Size (mm)		Rated Voltage (Volts)	Impeller Dia. (mm)	Solid Handling Size (mm)	Rated Speed (RPM)	TOTAL HEAD IN METRES															
		kW	HP	SUC.	DEL.					6	8	10	12	14	15	16	17	18	19	20	22	24	25	26	
										DISCHARGE IN LITRES PER SECOND															
1	SP - 0	0.75	1.0	40	40	415	116	7.0	2760	4.6	4.1	3.5	2.6	1.5	0.7	-	-	-	-	-	-	-	-	-	
2	SP - 1H	1.5	2.0	40	40	415	134	8.5	2900	-	-	6.3	5.6	4.8	4.5	3.9	3.4	2.7	1.9	-	-	-	-	-	
3	SP - 2H	2.2	3.0	50	50	415	145	10.5	2900	-	-	9.2	8.7	8.1	7.8	7.3	6.9	6.5	6.0	5.4	4.2	2.6	1.8	-	
4	SP - 3L+	3.7	5.0	80	80	415	224	15.5	1450	-	-	18.0	16.4	13.5	11.5	9.8	7.8	5.5	2.7	-	-	-	-	-	
5	SP - 4LA+	7.5	10	100	100	415	292	18.5	1450	-	-	36.0	33.6	31.3	30.0	28.5	27.0	25.5	24.0	22.0	18.0	12.0	7.0	-	
6	SP - 4L+	9.3	12.5	100	100	415	292	23.0	1450	-	-	41.0	39.0	36.5	35.0	33.5	32.0	30.0	28.0	26.1	22.0	16.8	13.7	10.0	
7	SP - 6LA	15.0	20.0	150	150	415	296	34.0	1450	-	-	66.5	63.4	60.0	57.5	55.0	52.5	49.0	45.0	42.0	34.3	24.0	16.0	-	
										20	22	23	24	26	28	30	32	34	36	38	40	42	43	44	
8	SP - 3A	3.7	5.0	80	80	415	174	7.0	2900	10.1	9.1	8.7	8.0	6.8	5.2	3.7	1.9	-	-	-	-	-	-	-	
9	SP - 3	5.5	7.5	80	80	415	174	14.5	2900	16.4	16.2	15.9	15.4	14.0	12.4	10.5	8.0	5.5	3.0	-	-	-	-	-	

Note:

- Performance under standard test conditions and may vary on site conditions.
- Performance applicable to liquid of specific gravity 1 and viscosity as of water.



Enriching Lives

SP

SELF PRIMING
SEWAGE / DEWATERING PUMPS

SP BS

FEATURES

Self Priming
No need of foot valve and priming pumpset every time for quicker operations.

Non Clog Impeller
Non clog impeller to handle suspended soft solids upto 60 MM in size made it suitable for sewage and dewatering applications.

Flatter Efficiency Curve
Minimum variations in efficiency during entire operating range increases the utility of pumpset for variable conditions.

Designed to Prevent Overloading
Lesser chances of motor burning as it does not get overloaded even if the pump is operated at a head lower than recommended, thus ensuring substantial cost saving due to low maintenance and breakdown.

Dynamically Balanced Rotating Parts
Minimum vibration protects the components from damage during the operation, thus ensuring consistent performance as concentricity is maintained.

Replaceable Wearing Parts
All wearing parts within the pumps are easily accessible and replaceable which facilitates ease of maintenance thereby extending the life of the pump.

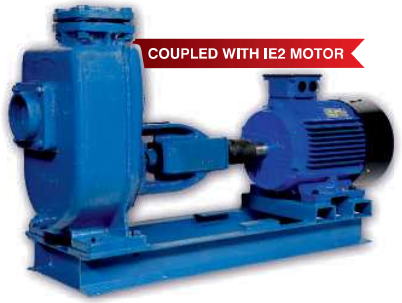
Easy Maintainable Designs
Easy maintainable design and better interchangeability of components so that pump can be serviced even at remote locations by semi-skilled technicians.

CED Coated Impeller
Resistance to corrosion leading to longer life.

APPLICATIONS

- Handling chemicals, effluents, sewage, ash-water
- Dewatering foundation, trenches and pits
- Flood water handling
- Pumping water from docks, ports, vessels
- Dewatering from basements, multi-storeys, shopping malls, godowns
- Cooling water for marine engines and shovels

SP M



SP COUPLED

With Energy Efficient IE2 Motor

TECHNICAL SPECIFICATION

		SP BARE SHAFT/MOTOR COUPLED	SP MONOBLOC
Head Range	-	Up to 44 Metres	Up to 24 Metres
Discharge Range	-	Up to 80 LPS	Up to 17.5 LPS
Power Rating	-	0.75 to 18.7 kW (1 to 25 HP) Motor Coupled*	0.37 to 3.7 kW (0.5 to 5 HP)
Voltage Range	-	415±10% (For motor coupled only)	300 - 440V (Three Phase) 180 - 240V (Single Phase)
Class of Insulation	-	F Class (Motor coupled only)	B / F Class
Protection	-	IP55	IP44 / IP55

Energy Efficient IE2 Motor

MATERIAL OF CONSTRUCTION

		SP BARE SHAFT	SP MONOBLOC	SP MOTOR COUPLED
Impeller	-	Cast Iron / Stainless Steel/ Bronze	Cast iron / Stainless Steel/ Bronze	Cast Iron / Stainless Steel/ Bronze
Delivery Casing	-	Cast Iron	Cast Iron	Cast Iron
Motor Body	-	-	Cast Iron	Cast Iron
Shaft	-	Carbon Steel / Stainless Steel	Carbon Steel / Stainless Steel	Carbon Steel / Stainless Steel
Shaft Sleeve	-	Stainless Steel	Stainless Steel	Stainless Steel
Sealing	-	Gland Packed / Mechanical Seal	Gland Packed / Mechanical Seal	Gland Packed / Mechanical Seal

PERFORMANCE CHART FOR SP SERIES, SELF PRIMING, BARE /COUPLED SET WITH ENERGY EFFICIENT IE2 MOTORS AT RATED RPM, THREE PHASE A.C. POWER SUPPLY																										
S. No.	PUMP MODEL	Power Rating		Pipe Size (mm)		Rated Voltage (Volts)	Impeller Dia. (mm)	Solid Handling Size (mm)	Rated Speed (RPM)	TOTAL HEAD IN METRES																
		kW	HP	SUC.	DEL.					6	8	10	12	14	15	16	17	18	19	20	22	24	25	26	
										DISCHARGE IN LITRES PER SECOND															
1	SP - 0	0.75	1.0	40	40	415	116	7.0	2760	4.6	4.1	3.5	2.6	1.5	0.7	-	-	-	-	-	-	-	-	-	
2	SP - 1H	1.5	2.0	40	40	415	134	8.5	2900	-	-	6.3	5.6	4.8	4.5	3.9	3.4	2.7	1.9	-	-	-	-	-	
3	SP - 2H	2.2	3.0	50	50	415	145	10.5	2900	-	-	9.2	8.7	8.1	7.8	7.3	6.9	6.5	6.0	5.4	4.2	2.6	1.8	-	
4	SP - 3L++	3.7	5.0	80	80	415	224	15.5	1450	-	-	18.0	16.4	13.5	11.5	9.8	7.8	5.5	2.7	-	-	-	-	-	
5	SP - 4LA+	7.5	10	100	100	415	292	18.5	1450	-	-	36.0	33.6	31.3	30.0	28.5	27.0	25.5	24.0	22.0	18.0	12.0	7.0	-	
6	SP - 4L+	9.3	12.5	100	100	415	292	23.0	1450	-	-	41.0	39.0	36.5	35.0	33.5	32.0	30.0	28.0	26.1	22.0	16.8	13.7	10.0	
7	SP - 6LA	15.0	20.0	150	150	415	296	34.0	1450	-	-	66.5	63.4	60.0	57.5	55.0	52.5	49.0	45.0	42.0	34.3	24.0	16.0	-	
8	SP - 6L	18.7	25.0	150	150	415	296	40.0	1450	-	-	75.0	72.5	68.7	66.2	64.0	61.3	58.5	55.0	52.0	44.5	34.0	27.5	20.0	
9	SP - 8LA	11.0	15.0	200	200	415	240	60.0	1450	-	80.0	72.0	60.0	32.0	20.0	-	-	-	-	-	-	-	-	-	
										20	22	23	24	26	28	30	32	34	36	38	40	42	43	44	
10	SP - 3A	3.7	5.0	80	80	415	174	7.0	2900	10.1	9.1	8.7	8.0	6.8	5.2	3.7	1.9	-	-	-	-	-	-	-	
11	SP - 3	5.5	7.5	80	80	415	174	14.5	2900	16.4	16.2	15.9	15.4	14.0	12.4	10.5	8.0	5.5	3.0	-	-	-	-	-	
12	SP - 3HH	9.3	11.0	80	80	415	194	14.5	2900	-	-	-	19.0	18.6	18.0	17.3	16.5	15.0	12.8	10.6	8.6	6.8	6.0	4.9	

Note:

- SP-8LA, SP-3HH Pump is supplied with Bare Shaft Arrangement Only.
- SP COUPLED SET with IE4 Motor is available upto 20.0 HP.
- SP COUPLED SET with IE5 Motor is available upto 5.0 HP with 2 Pole Motor Only.
- Performance under standard test conditions and may vary on site conditions.
- Performance applicable to liquid of specific gravity 1 and viscosity as of water.

PERFORMANCE CHART FOR SP-M SERIES, SELF PRIMING MONOBLOC PUMPS, AT RATED SPEED, 50 Hz FREQUENCY, THREE PHASE A.C. POWER SUPPLY																								
S. No.	PUMP MODEL	Power Rating		Pipe Size (mm)		Rated Voltage (Volts)	Impeller Dia. (mm)	Solid Handling Size (mm)	Rated Speed (RPM)	TOTAL HEAD IN METERS														
										6	8	10	12	14	15	16	17	18	19	20	22	24		
		kW	HP	SUC.	DEL.					DISCHARGE IN LITRES PER SECOND														
1	SP - 05M*	0.37	0.5	40	40	210/415	116	5.0	2700	3.1	2.6	2.1	1.2	-	-	-	-	-	-	-	-	-
2	SP - 0M*	0.75	1.0	40	40	210/415	116	7.0	2700	4.4	3.9	3.2	2.25	1.0	-	-	-	-	-	-	-	-
3	SP - 1HM	1.5	2.0	40	40	415	134	8.5	2800	-	-	5.9	5.1	4.25	3.7	3.1	2.4	1.5	-	-	-	-
4	SP - 2HM	2.2	3.0	50	50	415	145	10.5	2800	-	-	8.7	8.1	7.4	7.0	6.5	6.1	5.5	5.0	4.3	3.0	1.0
5	SP - 3L++M	3.7	5.0	80	80	415	224	15.5	1420	-	-	17.5	15.5	12.5	10.5	8.5	6.0	3.5	-	-	-	-

Note:

- SP-05M and SP-0M are supplied with mechanical seal arrangement and also available in single phase.
- All other models are supplied with stuffing box arrangement for gland packed or mechanical seal as per the requirement.
- Performance under standard test conditions and may vary on site conditions.
- Performance applicable to liquid of specific gravity 1 and viscosity as of water.

PERFORMANCE CHART FOR SP SERIES, SELF PRIMING, ENGINE COUPLED SET AT RATED VOLTAGE																								
S. No.	PUMP MODEL	Power Rating		Pipe Size (mm)		Impeller Dia. (mm)	Solid Handling Size (mm)	Rated Speed (RPM)	TOTAL HEAD IN METERS															
									10	12	14	15	16	18	19	20	22	24	25	26	28			
		kW	HP	SUC.	DEL.				DISCHARGE IN LITRES PER SECOND															
1	SP - 3L++	4.0	6.0	80	80	224	15.5	1500	-	17.6	15.5	14.0	12.4	8.2	5.9	3.5	-	-	-	-	-			
2	SP - 3L++	9.0	12.0	80	80	224	15.5	1800	-	-	-	-	21.7	20.5	19.8	18.8	16.3	13.1	11.3	9.5	5.8			
3	SP - 4LA+	9.0	12.0	100	100	292	18.5	1500	-	36.2	33.9	32.6	31.1	28.2	26.7	25.0	21.5	17.2	14.8	11.9	-			
4	SP - 4L+	10.5	14.0	100	100	292	23.0	1500	-	41.5	39.1	38.0	36.7	33.8	32.0	30.2	26.1	21.5	18.8	16.0	9.9			
5	SP - 6LA	16.5	22.0	150	150	296	34.0	1500	69.0	66.6	63.5	61.7	59.6	54.0	51.0	48.0	41.0	33.0	28.5	22.5	-			
6	SP - 6L	19.5	26.0	150	150	296	40.0	1500	-	76.0	73.0	71.0	69.0	64.0	61.0	57.5	50.0	43.5	38.8	33.5	18.0			

Note:

- In Engine coupled set bare shaft pump is only in the scope of KBL.
- Performance under standard test conditions and may vary on site conditions.
- Performance applicable to liquid of specific gravity 1 and viscosity as of water.