



Enriching Lives



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KIRLOSKAR BROTHERS LIMITED
A Kirloskar Group Company

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OUR COMPANIES



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KS9
BOREWELL WATERFILLED
SUBMERSIBLE



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KS9

BOREWELL WATER FILLED SUBMERSIBLE

With a capacity of pumping up to 3,000 litres per minute, Kirloskar KS9 submersible pumps suitably fulfill the need for high volumes of water in agricultural applications. The pumps combine the best in design and built quality so as to provide high operational efficiency, performance and durability. Available from Kirloskar Brothers, one of the leading brands in pump manufacturing and design, you are assured of high performance and durability for years.

PRODUCT SNAPSHOT

Range and Technical Specification

Head	: 20 to 50 Meters
Discharge	: 1200 to 3000 LPM
Motor Rating	: 10 to 60 HP
Borewell Size	: 250 mm
Voltage Range	: 350 to 440 V

MATERIAL OF CONSTRUCTION

Parts	Material	Grade
Pump bowl, Suction & Delivery	Cast Iron	C. I. FG - 200
Motor & Pump Bushes	Lead Tin Bronze	LTB-4
Motor & Pump Shaft	Stainless Steel	SS-410 / SS-431
Impeller	Noryl / Stainless Steel	20% Glass Filled / Cast Steel (SS 410)
Finish Rotor	Copper + Steel	EC grade + M47
Thrust Bearing	Carbon + SS	Graphite Carbon + SS 420
Pump Bushes	Engg. Rubber	NRB-Nitrile Butadiene Rubber
Sleeves Plating	Stainless Steel	SS 410 with Hard Chrome
Motor Body	Stainless Steel	AISI 304

-  **Pump**
High Efficiency: Innovations in pump design offer advantages of low power consumption and optimum efficiency, which translates into significant savings for customers.
-  **Wide voltage range:** The pump performs optimally during voltage fluctuations, due to its ability to adapt to a wide input voltage range.
-  **High quality sleeves and bearings:** Super-finished, water lubricated bush bearings, Nitrile rubber bushes, SS chrome-plated shaft sleeves reduce friction and enhance efficiency and durability.
-  **Non-return valve (NRV):** An in-built sand flushing system combined with a specially designed NRV increases pump life, and prevents reverse water thrust into the motor.
-  **Dynamically balanced rotating parts:** All rotating parts are dynamically balanced resulting in minimum vibration and trouble-free operations.
-  **CED coated components:** All cast-iron components are CED-coated – providing 5 times more protection from corrosion compared to painted pumps.
-  **Motor**
Less speed drop: The motor has been specially designed to run optimally during low voltages with minimum speed drops.
-  **Teflon bearing:** Carbon thrust Teflon bearings enhance the life of the motor, and provides superior surface finish for minimum friction loss.
-  **Sand guard:** An innovative sand guard system offers double-layer protection from sand ingress in the motor – leading to longer motor life.
-  **Glycol-mixed water:** Glycol-mixed water in the motor improves anti-friction properties and prevents corrosion.

APPLICATIONS

Water use in

- Continuous water supply for farming and irrigation
- Fire fighting



PERFORMANCE CHART OF 9 "SUBMERSIBLE (MIX FLOW) PUMP SERIES-1 AT 50Hz FREQUENCY & RATED VOLTAGE

SR. NO.	PUMP MODEL	POWER RATING		NO. OF STAGE	kW PER STG	DEL. PIPE SIZE (mm)	FULL LOAD CURRENT (Amps)	RATED VOLTAGE (v)	VOLTAGE RANGE IN (v)	RATED SPEED (rpm)	SHUT OFF HEAD (mtrs.)	HEAD IN METERS						
		HP	kW									GPM	LPM	LPS	M ³ /Hr			
1	KS9A-1301	12.5	9.3	1	9.3	152.0	125	415	350 - 440	2900	25	23	21	20	18	16	14	10
2	KS9A-2502	25.0	15.0	2	7.5	152.0	125	415	350 - 440	2880	50	46	43	40	36	32	28	20
3	KS9A-4003	40.0	30.0	3	7.3	152.0	125	415	350 - 440	2900	75	69	64	60	54	49	42	30
4	KS9A-5004	50.0	37.0	4	7.5	152.0	125	415	350 - 440	2900	100	92	86	80	72	65	56	40
5	KS9A-6005	60.0	45.0	5	7.4	152.0	125	415	350 - 440	2900	125	115	107	100	90	81	70	50

PERFORMANCE CHART OF 9 "SUBMERSIBLE (MIX FLOW) PUMP SERIES-1 AT 50Hz FREQUENCY & RATED VOLTAGE

SR. NO.	PUMP MODEL	POWER RATING		NO. OF STAGE	kW PER STG	DEL. PIPE SIZE (mm)	FULL LOAD CURRENT (Amps)	RATED VOLTAGE (v)	VOLTAGE RANGE IN (v)	RATED SPEED (rpm)	SHUT OFF HEAD (mtrs.)	HEAD IN METERS						
		HP	kW									GPM	LPM	LPS	M ³ /Hr			
1	KS9C-1001	10.0	7.5	1	7.5	144.0	125	415	350 - 440	2900	24	20	18	17	15	13	10	6
2	KS9C-2002	20.0	15.0	2	7.5	144.0	125	415	350 - 440	2880	48	40	37	34	30	26	20	13
3	KS9C-3003	30.0	22.0	3	7.3	144.0	125	415	350 - 440	2900	71	60	55	50	45	38	30	19
4	KS9C-4004	40.0	30.0	4	7.5	144.0	125	415	350 - 440	2900	95	80	73	67	60	51	40	25
5	KS9C-5005	50.0	37.0	5	7.4	144.0	125	415	350 - 440	2900	119	100	91	84	75	64	50	31
6	KS9C-6006	60.0	45.0	6	7.5	144.0	125	415	350 - 440	2900	143	120	110	101	90	77	60	38