



Enriching Lives

Upgraded experience
with upgraded version.

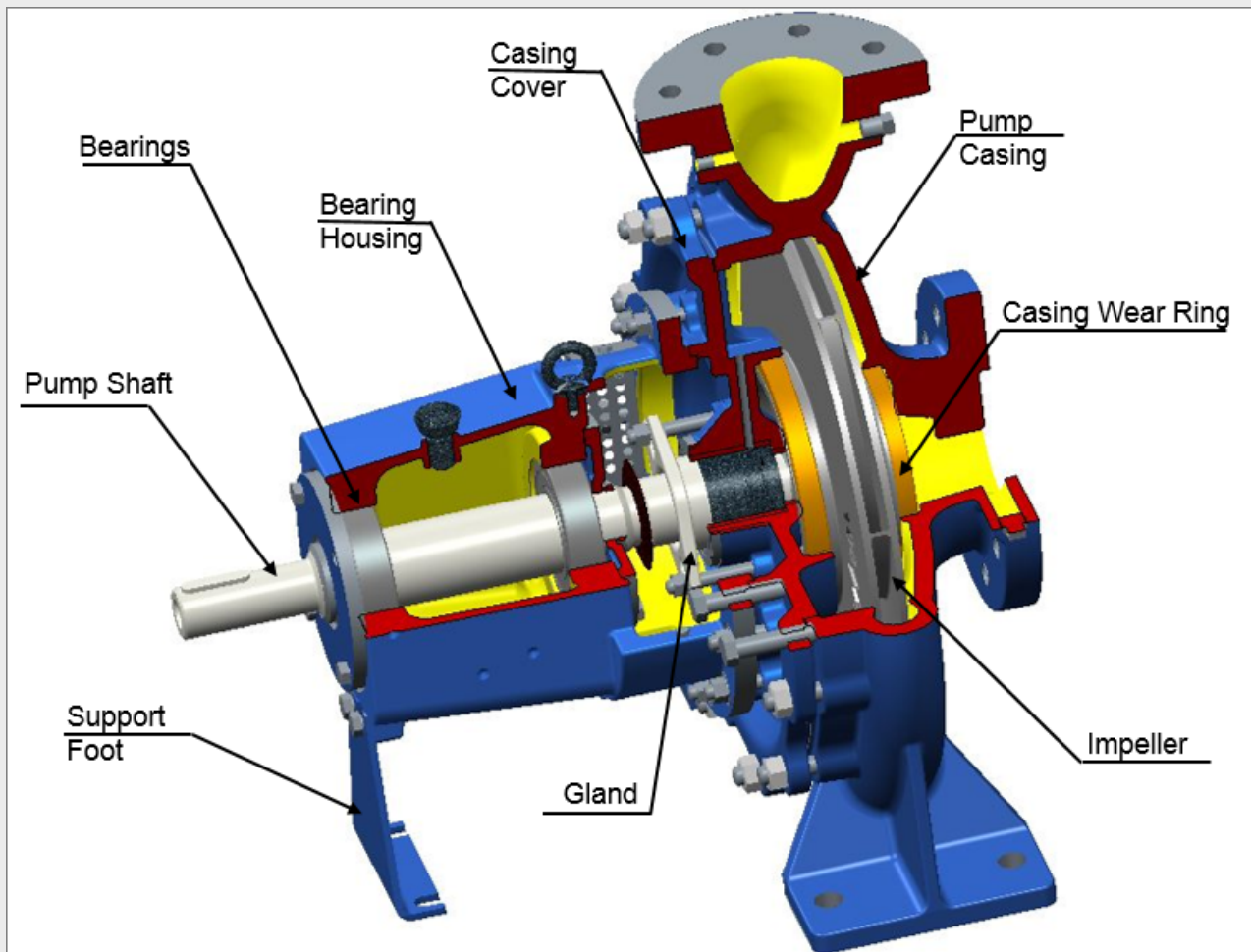
DBxe

End Suction Pump



KIRLOSKAR BROTHERS LIMITED
A Kirloskar Group Company

CUT SECTION



RANGE

Delivery size: 32 to 150 mm | Capacity: Up to 550 m³/hr | Head: Up to 100 meters
Speed: 1450 & 2900 rpm , 1760 & 3500 rpm | Working Pressure: 16 kg/cm² (MAWP)
Temperature: -10 to 90°C

APPLICATIONS

DBx pumps are mainly used for clean and clear liquids which are free from suspended solids/particles. Few of the applications are as below.

- Water supply
- Industrial water
- Fire fighting
- Condensate
- Sprinkling
- Swimming pool water
- Drinking water/Potable water
- Clear juice
- Air conditioning
- Hot water (Up to 90°C)
- Cooling water

FEATURES

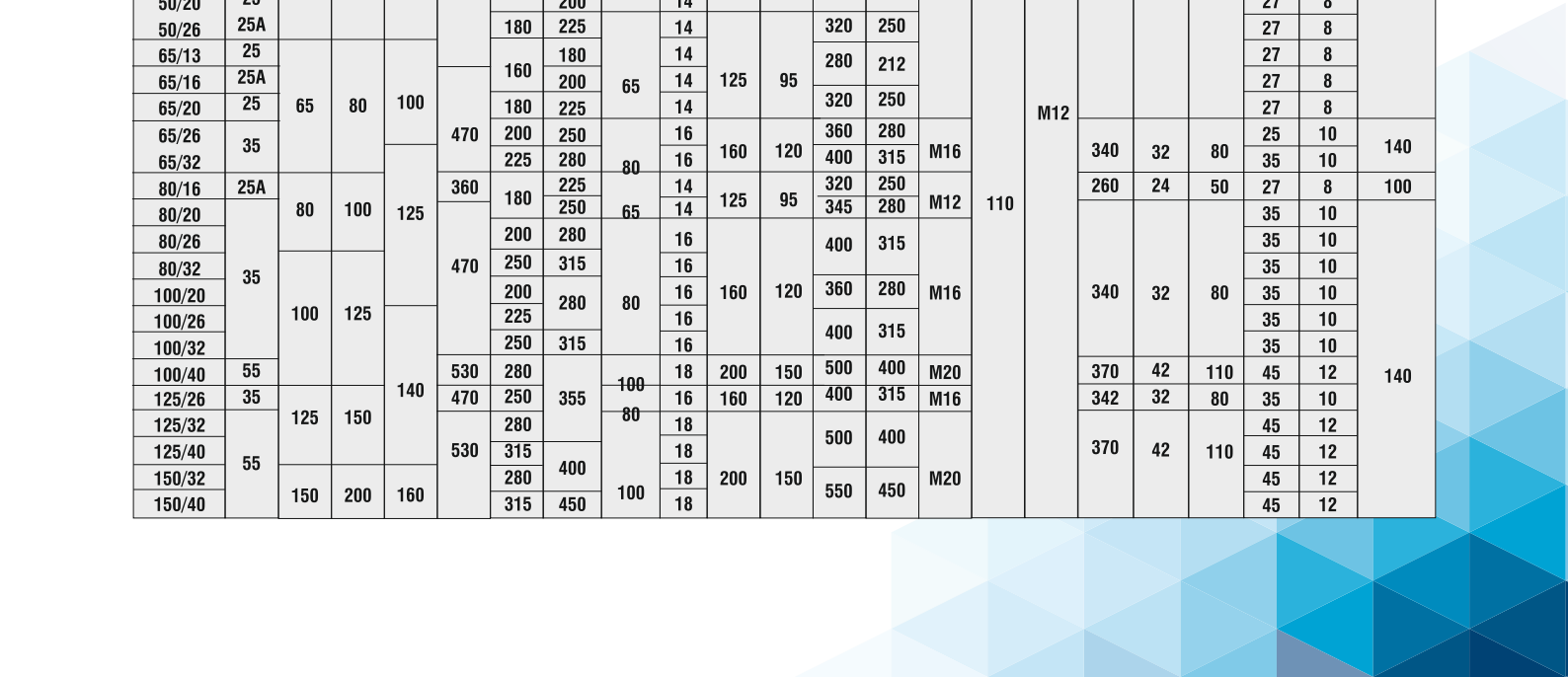
- **Casing:** The casing has axial suction and top centre line delivery with self venting design. Smooth hydraulic passage ensures highest efficiency. Delivery flanges and supporting feet are cast integral with the casing.
- **Impeller:** The impellers are of enclosed type. Hydraulic balancing of impellers is achieved by balancing holes depending upon magnitude of axial thrust. The impellers are statically and dynamically balanced.
- **Shaft:** The shaft is supported between antifriction ball bearings. The critical speed of shaft is sufficiently above the operating speed. The shaft is critically machined and ground to maintain concentricity. It is fully protected from the liquid being handled by means of shaft sleeve and 'O' ring and gasket between impeller screw & impeller.
- **Stuffing Box:** The stuffing box is sealed by either gland packing or by mechanical seal.
- **Bearings:** Pre-lubricated grease sealed bearings are used as a standard scope of supply. Pumps with oil-lubricated bearings will be supplied against specific order.
- **Direction of Rotation:** Clockwise when viewed from driving end.
- **Drive:** Pumps can be driven by electric motor or engine.

CONSTRUCTIONAL FEATURES

- Dimensions are fully conforming to EN 733
- Centerline delivery with self-venting feature
- Back pullout type design
- Pump is having dry shaft design. (Shaft is completely protected).
- Max. allowable working pressure is 16 kg/cm²
- Flange drilling : BSEN1092 (DIN 2533 ND16) standard
Optional : ANSI class125FF, 150FF
- Auxiliary tapping : BSP
- Coupling : Flexible jaw type spacer coupling
- Interchangeability of components
- High Energy Efficiency to comply to requirement of minimum efficiency index MEI ≥ 0.7 for water pumps.

MATERIAL OF CONSTRUCTION

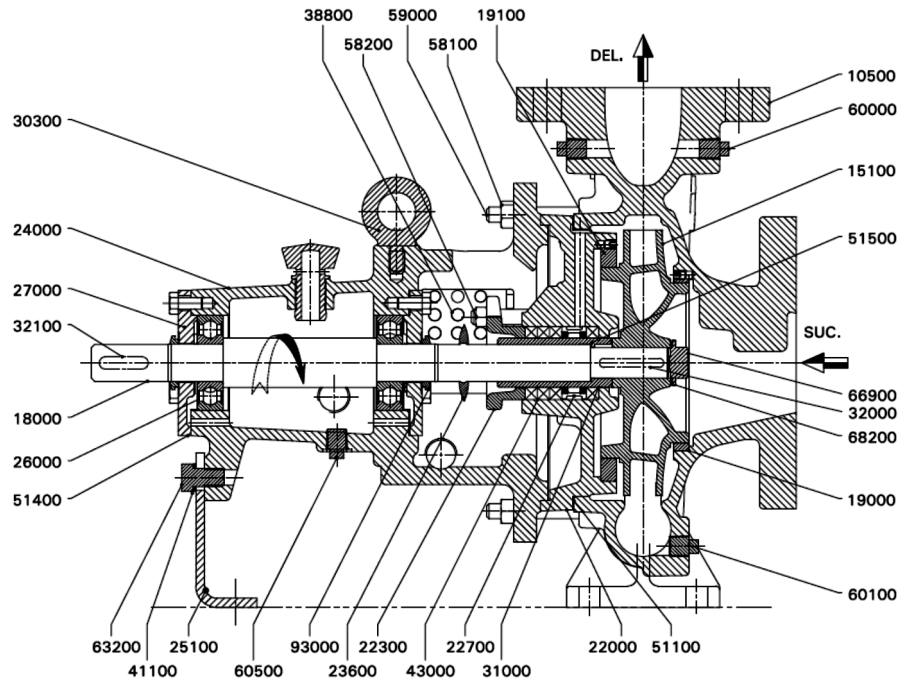
Pump Casing / Casing Cover	: Cast Iron
Impeller	: Cast Iron / Bronze / CF8M/ CF8
Wear Rings	: Cast Iron / Bronze
Pump Shaft	: CS 45C8 / St. Steel ASTM-A276 TYPE 410
Shaft Sleeve	: St. Steel –ASTM A 276 Type 410 H



SIZE	UNIT NO.	PUMP DIMENSIONS						FOOT DIMENSIONS										SHAFT END						D1									
		DEL	SUC.	a	f	h1	h2	b	c	m1	m2	n1	n2	Øs1	e1	Øs2	w	Ød	l	y	x												
32/13	25	32	50	80	360	112	140	50	14	100	70	190	140	M12	100	M12	260	24	50	27	8	100											
32/16	25A					132	160		14			240	190		27					8													
32/20	25			160		180	14	240	190	27	8																						
32/26	25A			100		180	225	65	14	125	95	320	250		27					8													
40/13	25	40	65	80		112	140	14	210	160	100	27	8																				
40/16	25A					132	160	50	14	100		70	240		190					27	8												
40/20	25			100		160	180	14	265	212	27	8																					
40/26	25A					180	225	65	14	125	95	320	250		M12					27	8												
50/13	25	50	65	100	360	132	160	50	14	100	70	240	190	M12	M12					260	24		50	27	8	100							
50/16	25A					160	180		14			265	212											27	8								
50/20	25			200		225	65	14	320	250	27	8																					
50/26	25A			180		225	14	320	250	27	8																						
65/13	25	65	80	100		470	160	180	65	14	125	95	280											212	M16		M12	260	32	80	27	8	100
65/16	25A						200	250		14			400											315							27	10	
65/20	25			180			225	14	320	250	27	8																					
65/26	35			225			280	80	16	160	120	360	280											M16							25	10	
80/16	25A	80	100	125	360		180	225	65	14	125	95	320	250		M12	M12	340	24			50		27							8	100	
80/20	35						200	280		16			400	315										35							10		
80/26				250			280	14	345	280	M12	35	10																				
80/32				100			125	470	250	315	16	400	315	M16										35							10		
100/20		200	280			16			360	280	35	10																					
100/26	225	280	16			360			280	35	10																						
100/32	250	315	16			400			315	35	10																						
100/40	55	125	150	140		530	280		100	18	200	150	500	400										M20	M12						370		
125/26	35				470	250	355			16	160	120	400	315	M16	35				10													
125/32	55				200	160	530		280	100	18	200	150	500	400	M20				45	12												
125/40									315		400									18	500		400	45		12							
150/32		280	400					18	550	450	45	12																					
150/40		315	450					18	550	450	45	12																					

CROSS - SECTIONAL ASSEMBLY

DBxe 32/13 to 65/13, DBxe 32/16 to 80/16
DBxe 32/20 to 100/20, DBxe 32/26 to 125/26



PART NO.

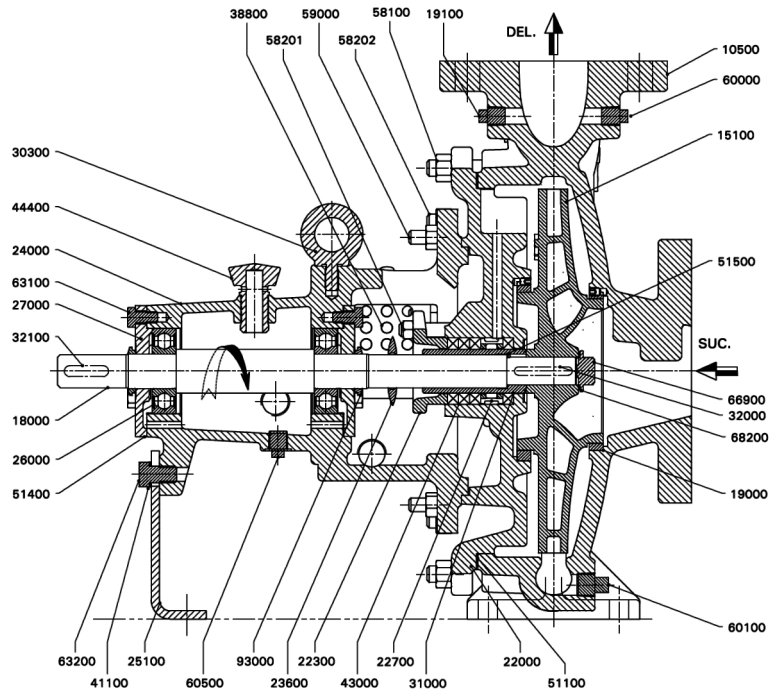
PART DESCRIPTION

10500	PUMP CASING
15100*	IMPELLER
18000*	PUMP SHAFT
19000*	WEAR RING (SUC.SIDE)
19100*	WEAR RING (DEL. SIDE)
22000	CASING COVER
22300	GLAND
22700*	LANTERN RING
23600*	DEFLECTOR
24000	BEARING HOUSING
25100	SUPPORT FOOT
26000*	BEARING
27000	BEARING COVER (DE & NDE)
31000*	SHAFT SLEEVE -GLAND PACKING
32000*	KEY FOR IMPELLER
32100*	KEY FOR COUPLING
66900*	IMPELLER SCREW
43000*	GLAND PACKING
51100*	GASKET FOR CASING COVER
51400*	GASKET FOR BEARING COVER
51500*	GASKET FOR SHAFT SLEEVE

*Indicates Recommended Spares

CROSS - SECTIONAL ASSEMBLY

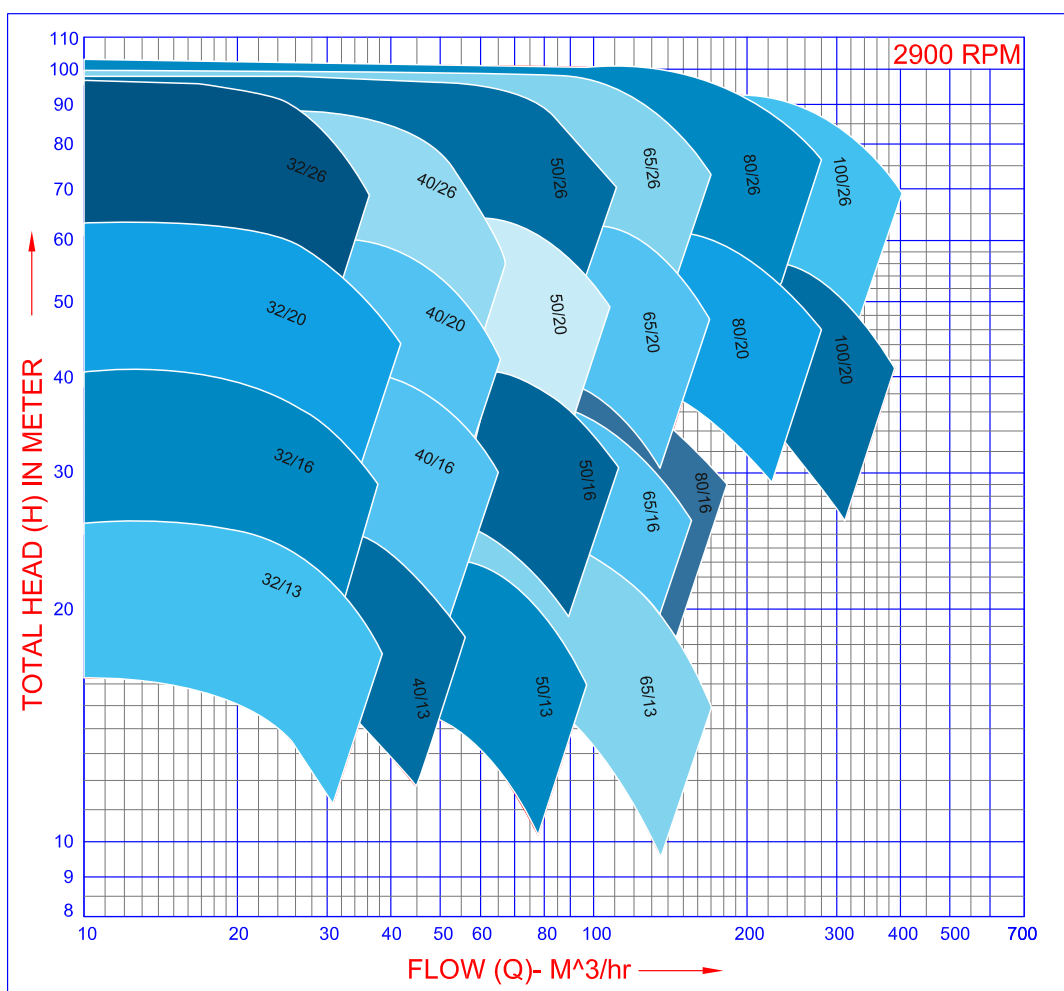
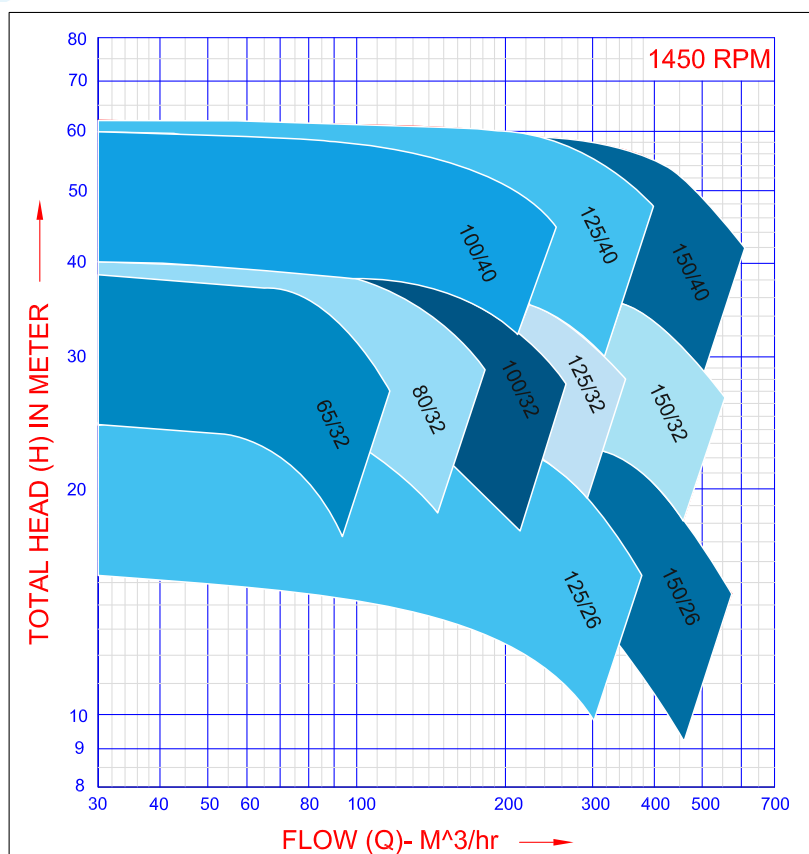
DBxe 65/32 to 150/32 , DBxe 100/40 to 150/40



PART NO.	PART DESCRIPTION
10500	PUMP CASING
15100*	IMPELLER
18000*	PUMP SHAFT
19000*	WEAR RING (SUC.SIDE)
19100*	WEAR RING (DEL. SIDE)
22000	CASING COVER
22300	GLAND
22700*	LANTERN RING
23600*	DEFLECTOR
24000	BEARING HOUSING
25100	SUPPORT FOOT
26000*	BEARING
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31000*	SHAFT SLEEVE -GLAND PACKING
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*Indicates Recommended Spares

FAMILY CURVES



ABOUT KBL

Kirloskar Brothers Limited (KBL) is a world class pump manufacturing company with expertise 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. KBL, a market leader, provides complete fluid management solutions for large infrastructure projects in the areas of water supply, power plants, irrigation, oil & gas and marine & defence. We engineer and manufacture industrial, agriculture and domestic pumps, valves and hydro turbines.

In 2003, KBL acquired SPP Pumps, United Kingdom and established SPP INC, Atlanta, USA, as a wholly owned subsidiary of SPP, UK to expand its international presence. In 2007, Kirloskar Brothers International B.V., The Netherlands and Kirloskar Brothers (Thailand) Ltd., a wholly owned subsidiary in Thailand, were incorporated. In 2008, KBL incorporated Kirloskar Brothers Europe B.V. (Kirloskar Pompen B.V. since June 2014), a joint venture between Kirloskar International B.V. and Industrial Pump Group, The Netherlands. In 2010, KBL further consolidated its global position by acquiring Braybar Pumps, South Africa. SPP MENA was established in Egypt in 2012. In 2014, KBL acquired SyncroFlo Inc., the largest independent fabricator of commercial and municipal domestic water booster pumps.

To further strengthen its global position, in 2015, Kirloskar Pompen B.V. acquired Rodelta Pumps International, The Netherlands. KBL has joint venture cooperation with Ebara, Japan since 1988 for the manufacture of API 610 standard pumps. Kirloskar Corrocoat Private Limited is a joint venture cooperation with Corrocoat, UK since 2006. KBL acquired The Kolhapur Steel Limited in 2007 and Hematic Motors in 2010.

KBL has eight manufacturing facilities in India at Kirloskarvadi, Dewas, Kondhapuri, Shirwal, Sanand, Kaniyur, Kolhapur and Karad. In addition, KBL has global manufacturing and packaging facilities in Egypt, South Africa, Thailand, The Netherlands, United Arab Emirates, United Kingdom and United States of America. KBL has 12,700 channel partners in India and 80 overseas and is supported by best-in-class network of Authorised Centres and Authorised Refurbishment Centres across the country.

All the manufacturing facilities at KBL are certified for ISO 9001, ISO 14001, ISO 50001, BS OHSAS 18001 and SA8000. In addition, the Kirloskarvadi plant is also certified for N & NPT Stamp. KBL's corporate office in Pune is certified for ISO 9001 & Sa8000.

The factories deploy Total Quality Management tools using European Foundation for Quality Management (EFQM) model. The Kirloskarvadi plant of KBL is a state-of-the-art integrated manufacturing facility having Asia's largest hydraulic research centre with testing facility upto 5000 kW and 50,000 m/hr.

KBL is the ninth pump manufacturing company in the world to be accredited with the N and NPT certification by American Society of Mechanical Engineers (ASME).

Water Resource Management | Irrigation | Power | Industry | Oil & Gas | Marine & Defence
Building & Construction | Distribution (Small Pumps) | Valves | Customer Service & Spares

KIRLOSKAR BROTHERS LIMITED

Established 1888

A Kirloskar Group Company

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Email: marketing@kbl.co.in, **Website:** www.kirloskarpumps.com
CIN No.: L29113PN1920PLC000670

Our Companies



United Kingdom



U.S.A.



South Africa



India



The Netherlands