Enriching Lives

Upgraded experience with upgraded version.

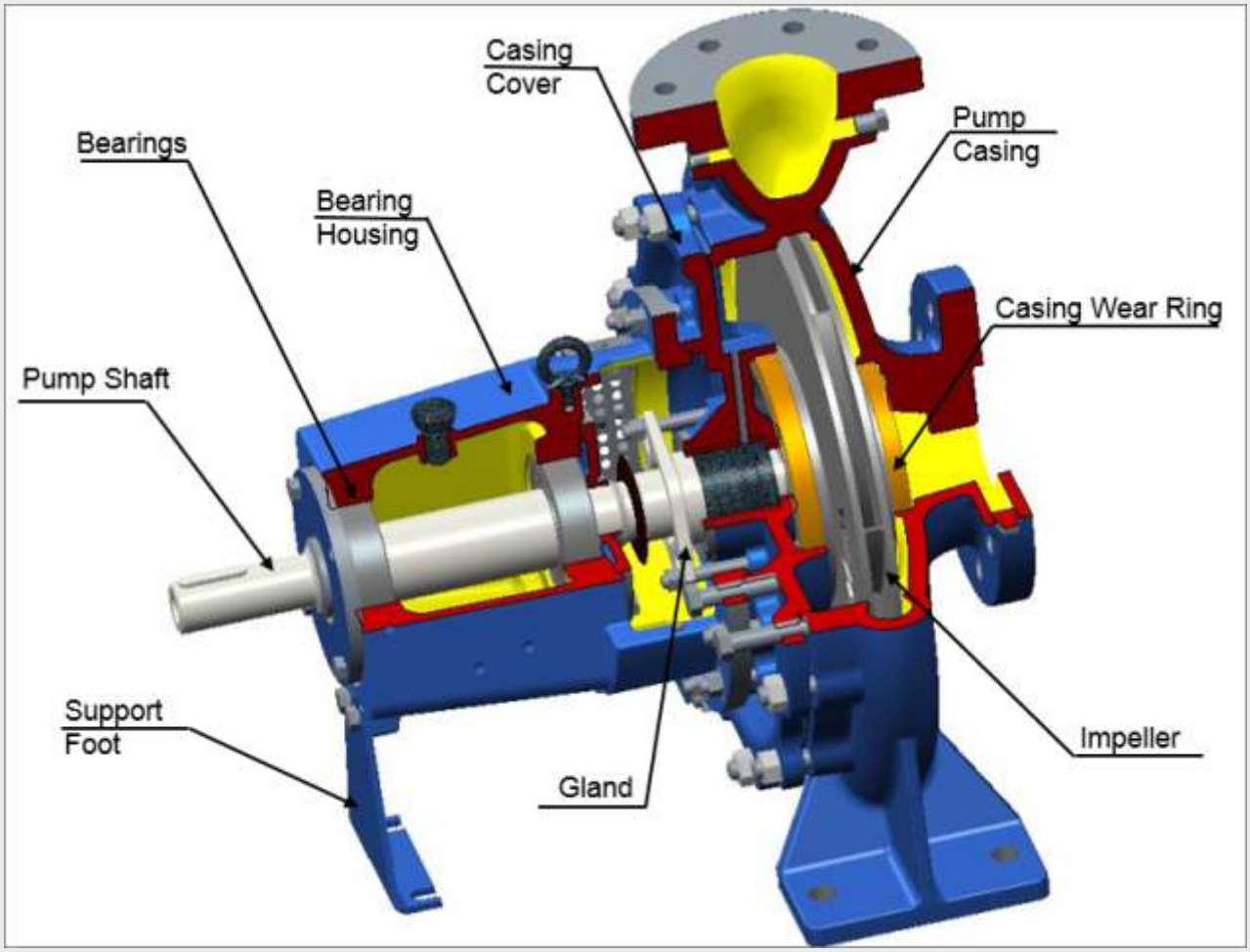
DB*xe*

End Suction Pump

KIRLOSKAR BROTHERS LIMITED

A Kirloskar Group Company

CUT SECTION



RANGE

Delivery size: 32 to 150 mm | Capacity: Up to 550 m^3/hr | Head: Up to 100 meters
Speed: 1450 & 2900 rpm , 1760 & 3500 rpm | Working Pressure: 16 kg/cm^2 (MAWP)
Temperature: -10 to 90°C

APPLICATIONS

DBxe 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.

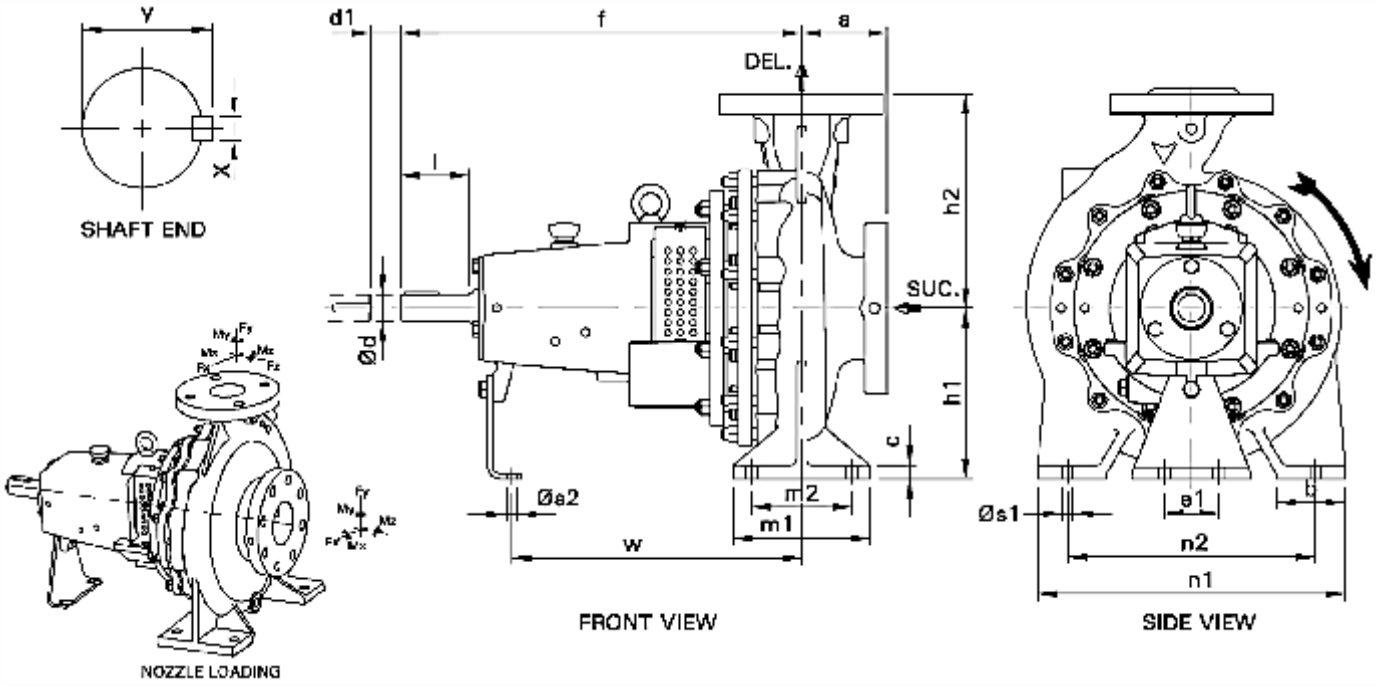
CONSTRUCTIONAL FEATURES

- 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 $\geq$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 ASTMA-276 TYPE 410
Shaft Sleeve	: St. Steel –ASTM A 276 Type 410 H

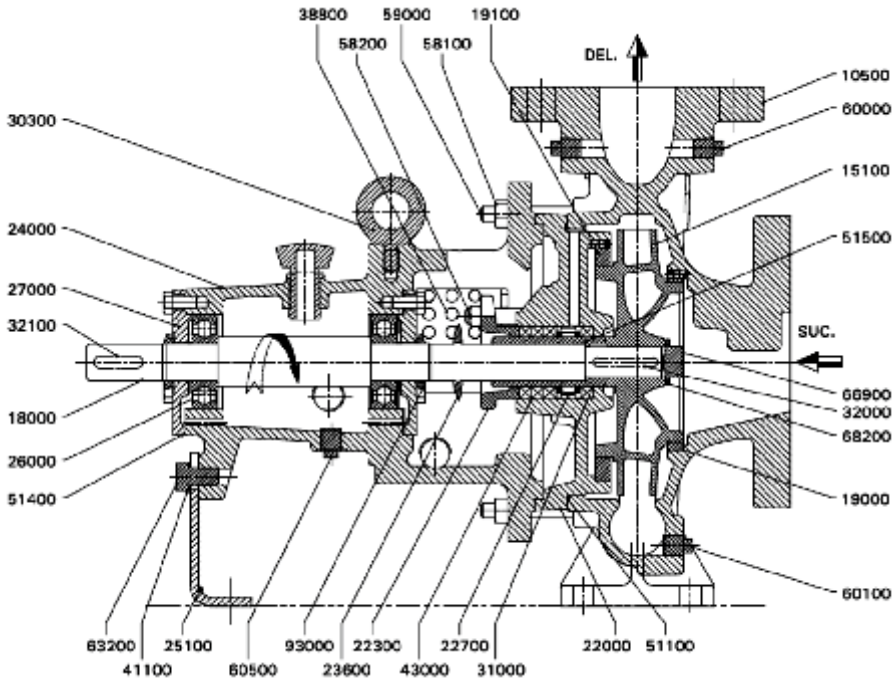
GENERAL ARRANGEMENT DRAWING



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					112	140		14			190	140		100					27	8	
32/16	25A	32	50	80		132	160	50	14	100	70									27	8	
32/20	25				360	160	180		14			240	190		110					27	8	
32/26	25A			100		180	225	65	14	125	95	320	250							27	8	
40/13	25			80		112	140		14			210	160		100					27	8	
40/16	25A	40	65			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			260	24	50	27	8	100
50/13	25					132	160		14			240	190							27	8	
50/16	25A	50	65	100	360	160	180	50	14	100	70	265	212							27	8	
50/20	25						200		14											27	8	
50/26	25A					180	225	65	14	125	95	320	250							27	8	
65/13	25					160	180		14			280	212							27	8	
65/16	25A				470		200	65	14	125	95									27	8	
65/20	25	65	80	100		180	225		14			320	250			M12				27	8	
65/26	35					200	250	80	16	160	120	360	280	M16			340	32	80	25	10	140
65/32				125		225	280		16			400	315							35	10	
80/16	25A	80	100		360	180	225	65	14	125	95	320	250	M12	110		260	24	50	27	8	100
80/20	35				470		250		14			345	280				340	32	80	35	10	140
80/26						200	280	80	16	160	120	400	315	M16						35	10	
80/32		100	125			250	315		16											35	10	
100/20						200	280		16			360	280							35	10	
100/26				140		225			16			400	315							35	10	
100/32						250	315		16											35	10	
100/40	55				530	280		100	18	200	150	500	400	M20			370	42	110	45	12	140
125/26	35	125	150		470	250	355	80	16	160	120	400	315	M16			342	32	80	35	10	
125/32	55				530	280			18	200	150	500	400	M20			370	42	110	45	12	
125/40						315	400		18											45	12	
150/32		150	200	160		280		100	18			550	450							45	12	
150/40						315	450		18											45	12	

CROSS - SECTIONAL ASSEMBLY

DB*xe* **32/13 to 65/13,** DB*xe* **32/16 to 80/16**
DB*xe* **32/20 to 100/20,** DB*xe* **32/26 to 125/26**

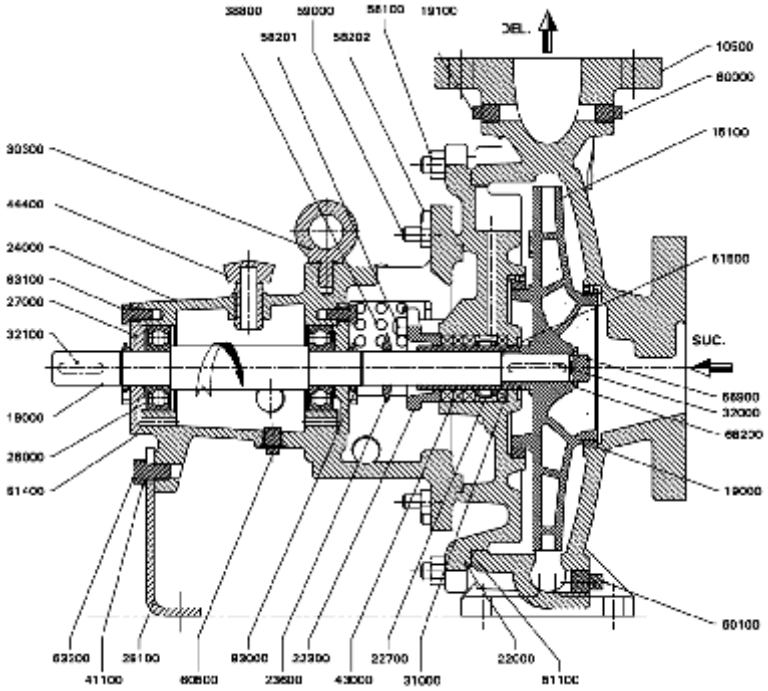


PART NO.	PART DESCRIPTION
10500	PUMP CASING
15100*	IMPELLER
18000*	PUMP SHAFT
19000*	WEAR RING (SUC.SIDE)
19100*	WEAR RING (DEL. SIDE)
22000	CASING COVER
22300	GLAND
22700*	LANTERN RING
23600*	DEFLECTOR
24000	BEARING HOUSING
25100	SUPPORT FOOT
26000*	BEARING
27000	BEARING COVER (DE & NDE)
31000*	SHAFT 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

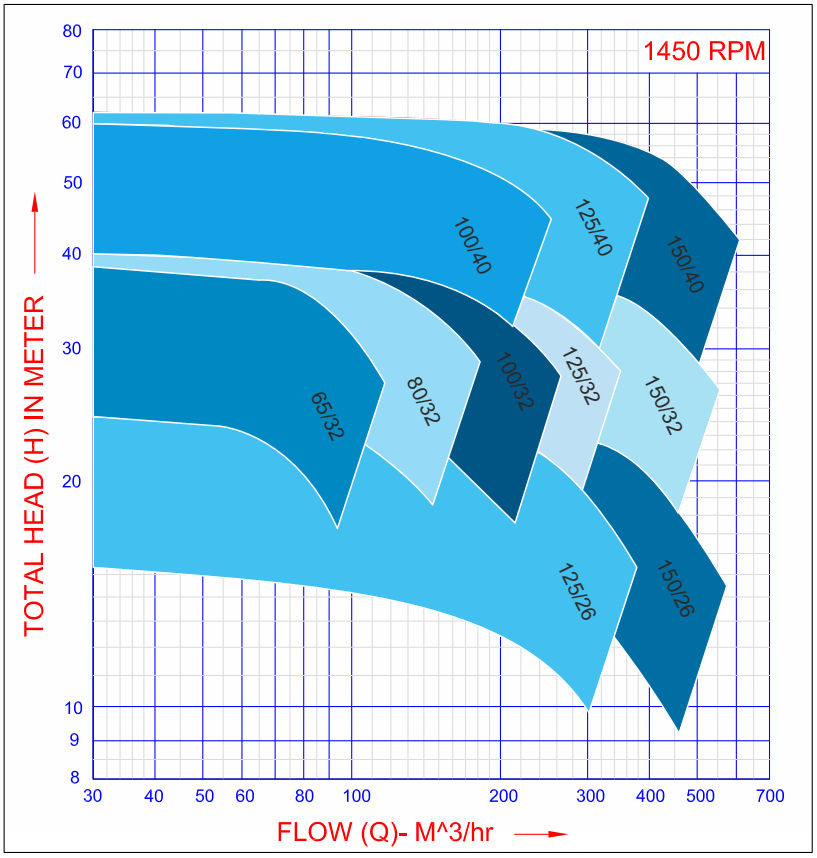
DB*xe* **65/32 to 150/32 ,** DB*xe* **100/40 to 150/40**

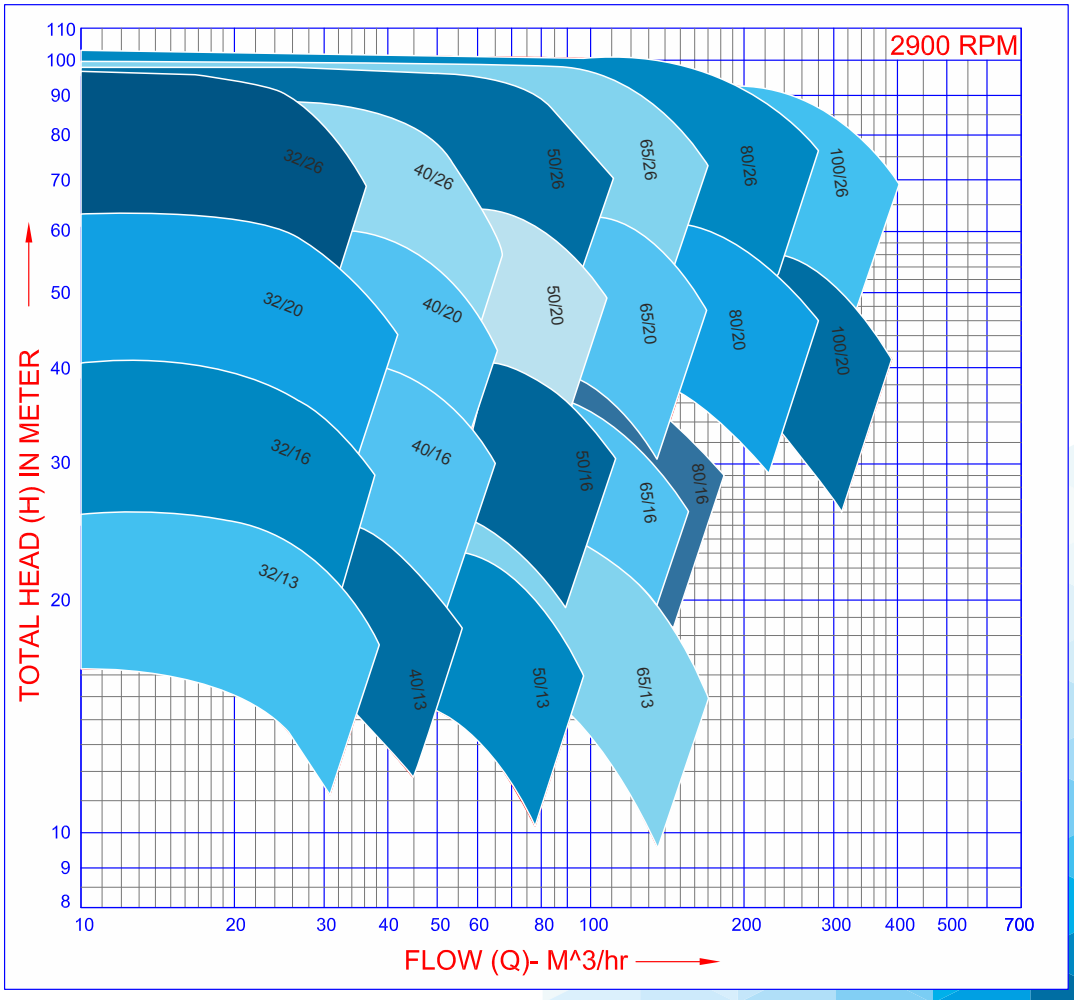


PART NO.	PART DESCRIPTION
10500	PUMP CASING
15100*	IMPELLER
18000*	PUMP SHAFT
19000*	WEAR RING (SUC.SIDE)
19100*	WEAR RING (DEL. SIDE)
22000	CASING COVER
22300	GLAND
22700*	LANTERN RING
23600*	DEFLECTOR
24000	BEARING HOUSING
25100	SUPPORT FOOT
26000*	BEARING
27000	BEARING COVER (DE & NDE)
31000*	SHAFT 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

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

Registered Office & Global Headquarters: "Yamuna", Survey No. 98/(3 to7), Plot No. 3, Baner, Pune - 411 045, Maharashtra, India **Tel:** +91(20)27214444,
Email: marketing@kbl.co.in, **Website:** www.kirloskarpumps.com
CIN No.: L29113PN1920PLC000670

Our Companies

SPP PUMPS United Kingdom | SyncroFlo U.S.A. | BP South Africa | KOEPL India | RODELTA The Netherlands