

KIRLOSKAR SOLID HANDLING PUMPS-SHL



Enriching Lives

Kirloskar Solid Handling Pumps - SHL are single-stage, single-suction pumps with a back pull-out type design. These pumps are horizontal, non-clog pumps, with the SHL pump section suspended by a column pipe that protects the transmission shaft. The impeller is a single-suction type, non-clog, free-flow dynamically balanced component capable of effectively handling liquids containing solids.

APPLICATIONS

- Contaminated process liquids, such as sugar factory waste and trade liquors.
- Designed for handling liquids with solids in suspension, including pulpy material in paper industries.
- Suitable for viscous liquids or slurries containing powdered materials.

SPECIFICATIONS

- Delivery size ranges from 250 mm to 900 mm.
- Capacity of up to 13,000 m³/hr.
- Head capacity up to 82 meters.
- Temperature ranging from -10°C to 90°C.

FEATURES

- Horizontal shaft, single-stage, single-suction pumps with a back pull-out type design.
- Available for both 50 Hz and 60 Hz operation.



KIRLOSKAR BROTHERS LIMITED

Established 1888

A Kirloskar Group Company

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Description

Casing:

End suction with vertical delivery, featuring a high-efficiency volute type to handle any solid that passes through the impeller and provide smooth, unobstructed flow. The delivery flange and feet are cast integral with the casing. A large inspection opening is provided on the casing throat and suction cover.

Impeller:

Single-suction type enclosed impeller, dynamically balanced. Semi-open impeller available on request.

Shaft:

The shaft is supported by two bearings. The shaft in the stuffing box area is protected by a shaft sleeve.

Stuffing Box:

The standard sealing for the stuffing box is grease. Optional water sealing is available. The gland pocket operates without cooling up to 90°C and with cooling up to 140°C. Mechanical seal arrangements are also possible.

Bearings:

Standard: Spherical Roller Bearing at the DE.
Cylindrical roller bearing at the NDE.
Standard lubrication is grease, and the optional choice is oil.

Direction of rotation:

Clockwise when viewed from the driving end.

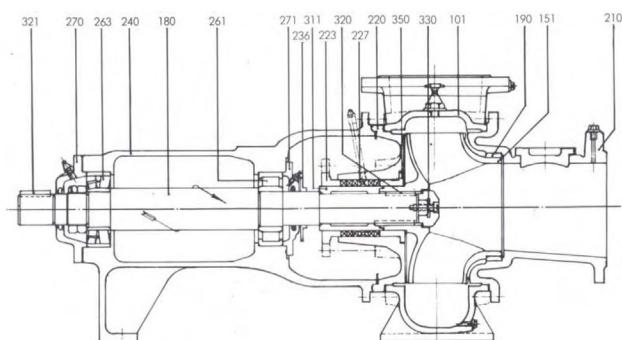
Drive:

These pumps are suitable for coupling directly with an electric motor or I.C. engine or through a belt drive. Vertical pumps can be driven through Cardan Shafts. Cardan Shafts can be equipped with a protection cover if required.

Flanges:

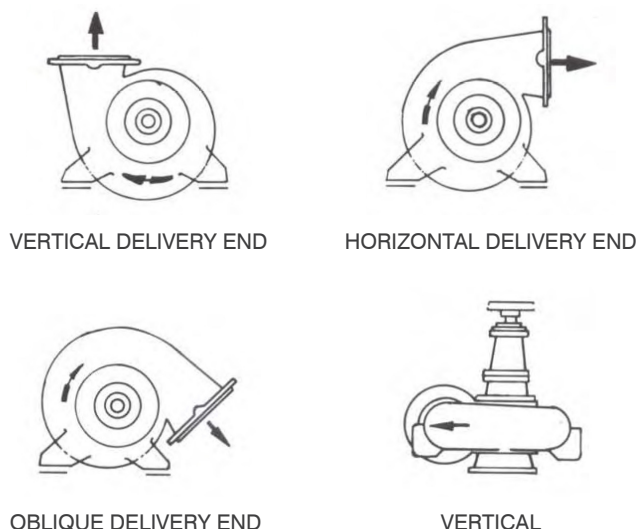
Standard drilling according to DIN 2533 ND 16.
Optional drilling according to ASA/BS/IS standards.

Cross-Sectional View



Part No.	Name of the part	Part No.	Name of the part
101	Pump casing	261	Cylindrical roller bearing
151	Impeller	263	Spherical roller bearing
180	Shaft	270	Bearing cover (DE)
190	Casing ring	271	Bearing cover (NOE)
210	Suction cover	311	Shaft sleeve
220	Casing cover	320	Key for impeller
223	Gland	321	Key for coupling
227	Lantern ring	330	Impeller nut
236	Deflector	350	St. box bush
240	Bearing housing		

Executions



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OUR COMPANIES



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