

**Submersible High Volume
and High Head Drainage Pumps**

TSURUMI PUMP
www.tsurumi-global.com

**High volume, high head performance for
mining and large-scale tunneling work**

Max. capacity of 14 m³/min

Max. head of 92 m



LH-D SERIES **(110 kW/185 kW)**

The LH-D-series are submersible pumps with 2-pole 110/185 kW motors, on which a double suction impeller is mounted to deliver assured performance in high volume, high head applications. These pumps were developed based on Tsurumi's LH-series that has built a long-standing name and reputation as a quality line of submersible high head drainage pumps in the mining and construction fields. With a max. capacity of 14 m³/min and max. head of 92 m, the LH10110D and LH12185D meet the needs of open-pit/underground mining, heap leaching and large-scale tunneling work.

The biggest feature of these pumps is that they powerfully draw large volume of water from both upper and lower sides of the double suction impeller. This reduces thrust load, which extends the service-life of bearings and increases the stability of pumping operations. Moreover, in order to stand up to harsh conditions of use, the impeller and suction mouth are made of wear-resistant high-chromium cast iron.



Features

1 Anti-wicking Cable Entry and Inspection Window

The anti-wicking cable prevents water incursion due to capillary action should the cable sheath be damaged or the end of cable submerged. The pump is additionally equipped with an inspection window at the bottom of the stuffing box that facilitates cable maintenance.

2 Dual Inside Mechanical Seals with Silicon Carbide Faces

Isolated in the oil chamber where a clean, non-corrosive and abrasion-free lubricating environment is maintained. The silicon carbide boards on the seal faces provide 5 times higher corrosion, wear and heat resistance than the tungsten carbide.

3 Oil Lifter

Provides lubrication and cooling of the seal faces down to 1/3 of normal oil level, thus maintaining a stable shaft sealing effect and prolonging seal life longer. The Oil Lifter is Tsurumi original design.

4 Leakage Sensors (Electrode and Float Type)

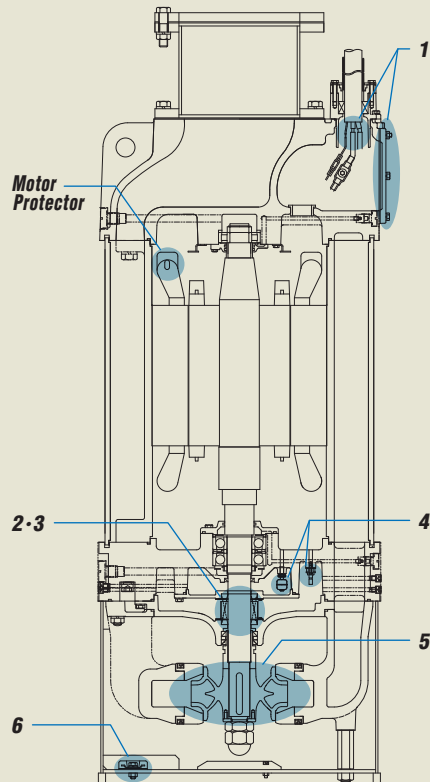
Detects flooding into the incursion water storage chamber and oil chamber that may occur in a worst case scenario. When flooding is detected, signals are sent to operate the indicator lamps through the external control panel.

5 Double Suction Impeller

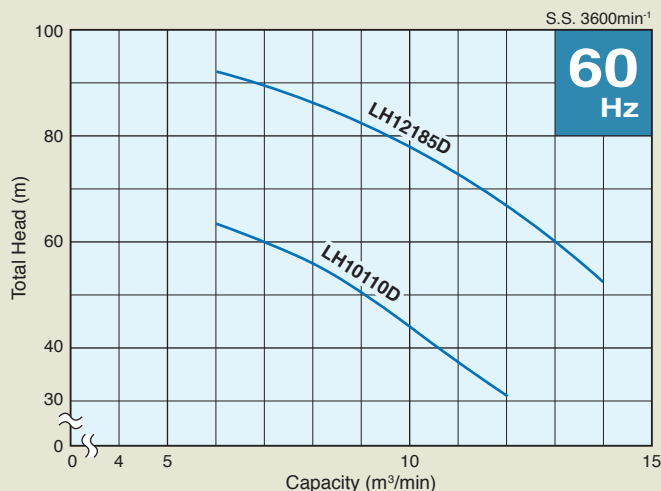
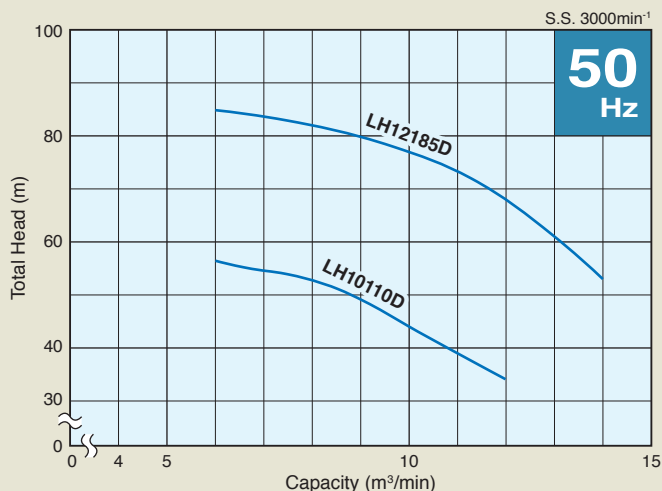
With its high efficiency suction mechanism, the double suction impeller enables higher volume performance. It also reduces the thrust load, which extends the service-life of bearings and increases the stability of pumping operations.

6 Galvanic Anodes

Protect the pump against corrosive potential generated during the drainage of wastewater.



Performance Curves



Model Selection

Discharge Bore mm	Model	Motor Output kW	Phase	Pole	Starting Method	Solids Passage mm	Dimensions L x W x H mm	Dry Weight kg	Cable Length m
250	LH10110D	110	Three	2-pole	Star-Delta	20	699 x 694 x 1853	1450	20
300	LH12185D	185	Three	2-pole	Star-Delta	20	773 x 743 x 2008	1950	20

• Weights excluding cable

Product images and specifications may differ from actual products due to improvements. The OO series and model OO are indicated with our series/model codes in this catalog.

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