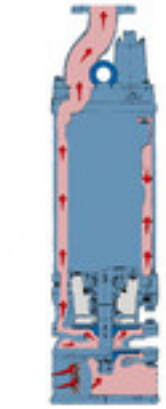
TSURUMI PUMP
STRONGER FOR LONGER

LH-W

3-phase
50Hz

Dual-stage high head pumps
- for professional use

The recent developments of civil engineering and architectural technologies are increasing the necessity of digging deeper into the earth. This requires a submersible pump with a rugged construction that can withstand the high pressure so deep in the water.

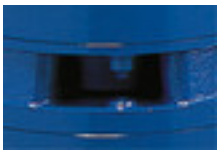


Water jacket

Pumped water cools the motor and discharges as illustrated. The motor can be cooled even when pumping a small amount of water. The top discharge arrangement allows access into areas with space limitations. The pump can be run continuously in air.

Iron casting - superior to aluminium

Casing and motor frame made of grey iron casting, impeller made of high chromium iron casting



Seal pressure relief ports

Mechanical seal faces are only subjected to submergence pressure and are protected against water hammer.

Double inside mechanical Seal (SiC/SiC)

Double inside mechanical seals with silicon carbide faces run inside an oil lifter in an oil chamber. Additional protection by a lip seal combined with replaceable stainless steel shaft sleeve. This represents the most durable seal design available.

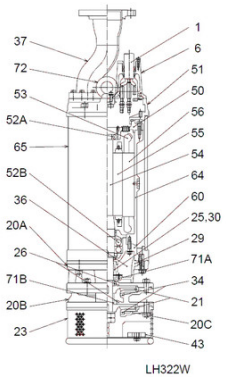
Dual impeller

(except for: LH33.0)

Two high chromium iron casting impellers increase the pumping power to realize high-head-specifications.

Components:

001	Cable
006	Cable entrance
020A	Pump casing
020B.	Pump casing
020C	Pump casing
021	Impeller
023	Strainer
025	Mechanical seal
026.	Labyrinth ring
029	Oil casing
030	Oil lifter
034	Wear ring
035	Oil plug
036	Lubricant
037	Discharge bend
043	Cathodic protection plate
050	Motor cover
051	Head cover
052A	Upper bearing
052B	Lower bearing
053	Motor protector
054	Shaft
055	Rotor
056	Stator
060	Bearing housing
064	Motor casing
065	Jacket
071A	Shaft sleeve
071B	Shaft sleeve
072	Eye bolt

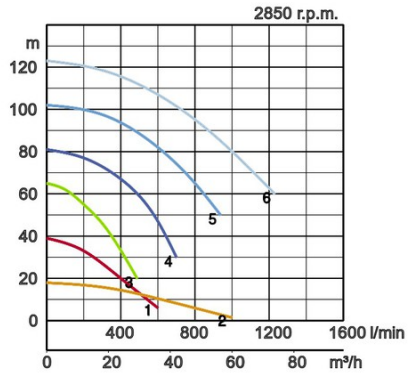


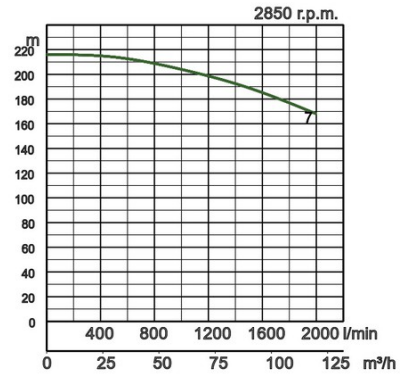
LH322W

Specifications:

Model	Colour code curve	Bore mm	Motor output kW	Rated current A	Head max. m	Capacity max. l/min	Dry weight kg w/o cable	Max. solid handling ø mm	Pressure resistance max. m	Cable length m
LH23.0W	1	50	3,0	6,5	39,0	600	46,0	6	25	20
LH33.0	2	80	3,0	6,5	18,0	1000	42,0	6	25	20
LH25.5W	3	50	5,5	11,0	65,0	490	80,0	6	30	20
LH311W	4	80	11,0	22,0	81,0	700	130,0	8,5	30	20
LH322W	5	80	22,0	39,0	102,0	940	304,0	8,5	30	20
LH430W	6	100	30,0	53,0	123,0	940	324,0	8,5	30	20
LH4110W	7	100	110,0	209,0	216,0	2000	1270,0	8,0	30	20

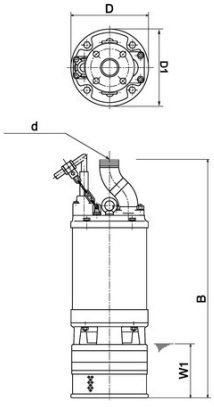
ø Discharge bore mm			50, 80, 100
Pumping Fluid	Type of Fluid		Spring water, Rain water, Ground water, Sand carrying water
	Temperature		0-40°C
Pump	Compo-nents	Impeller	Closed type impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Chromium iron casting
		Shaft Seal	Silicon carbide in oil bath
		Casing	Grey iron casting EN-GJL-200, Ductile iron casting EN-GJS-450-10
Motor	Lubrication		Turbine oil (ISO VG32)
	Insulation		Insulation class F, Insulation class B
	Phase / Voltage		3-phase / 400V / 50Hz / d.o.l., 3-phase / 400V / 50Hz / s.d.
	Motor Protector (built-in)		Circle thermal cut-out, Miniature protector
	Type, Poles		Induction motor, 2 poles, IP68
	Material	Casing	Grey iron casting EN-GJL-200
		Shaft	Stainless steel EN-X30Cr13
		Cable	Rubber, NSSHÖU
Discharge Connection			Threaded flange, JIS 20K Flange





Dimensions in mm:

Model	d	B	D	D1	W1
LH23.0W	50	591	185	-	150
LH33.0	80	591	185	-	150
LH25.5W	50	750	240	-	170
LH311W	80	1030	270	-	200
LH322W	80	1234	330	-	300
LH430W	100	1375	330	-	300
LH4110W	100	1825	616	592	380



W1: lowest running water level

In the event of abrasive and corrosive utilization, stronger wear and tear will take place naturally in certain components. In this regard, please pay attention to our website www.tsurumi.eu/english/applications.htm.

TSURUMI PUMP

Contributing to World-wide Prosperity and Understanding through Worker- and Environment-friendly Production.

Designed for increased productivity through fully integrated streamlined production systems, Tsurumi ´s factory in Kyoto (Japan) features a production capacity of a full 1 million pumps per year. Large-scale modern R&D facilities offer optimum conditions for experimenting and testing of even super-large pumps and for developing new products to expand the possibilites and applications of pumps. To provide optimum conditions for our main asset, our workers, as well as for the environment, special emphasis is placed on optimized working conditions with airconditioning, minimized dust and exhaust gas emission, comprehensive recycling and waste recovery.

Tsurumi (Europe) GmbH

Wahlerstr. 10
D-40472 Düsseldorf
Tel.: +49 (0)211-4179373
Fax: +49 (0)211-417937-480
Email: sales@tsurumi.eu
www.tsurumi.eu

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