



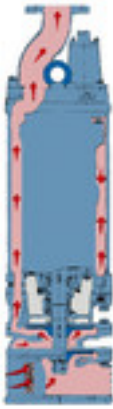
LH-W^{3-phase}
50Hz

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



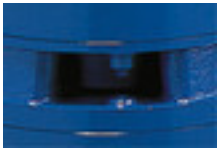
Pumped water cools the motor and discharges as illustrated. The motor can be cooled even when pumping a small amount of water. The top discharge arrangement allows access into areas with space limitations. The pump can be run continuously in air.



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.



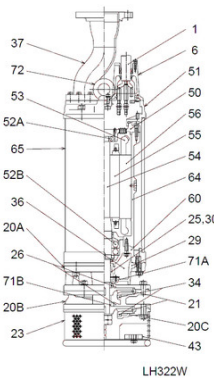
Dual impeller

(except for: LH33.0)

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

Components:

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



Cast Iron used:

	Brinell hardness:
Chromium iron casting	415 - 425
Grey iron casting EN-GJL-200	150 - 230
Ductile iron casting EN-GJS-450-10	143 - 217

