

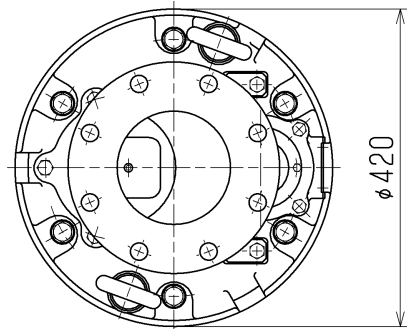
SPECIFICATIONS	Model	LH622	LH-series								
			22kW, 3-phase								
<p><b>Type of Pump</b> Submersible high head drainage pump for construction and foundation works, floodwater drainage, etc.</p> <p><b>Type of Fluid</b> Stormwater, groundwater, wash water, and sand-carrying water</p> <p>Temperature: 0 to 40°C</p> <p><b>Discharge Bore &amp; Connection</b> 150mm, JIS 10kg/cm<sup>2</sup> Screwed Flange</p> <p><b>Motor Output</b> 22kW</p> <p><b>Power Supply</b> Three-phase</p> <p><b>Starting Method</b> Direct on Line (Star-Delta available on special request)</p> <p><b>Motor</b> Continuous-duty rated, dry-type induction motor</p> <p>Insulation Class: B Degree of Protection: IP68</p> <p>No. of Poles &amp; Speed (Synchronous Speed) 2-pole, 3000/3600min<sup>-1</sup> (50/60Hz)</p> <p>Power Supply Voltages &amp; Rated Currents</p> <table><tr><td>50Hz</td><td>60Hz</td></tr><tr><td>380V – 43.0A</td><td>220V – 73.5A</td></tr><tr><td>400V – 40.5A</td><td>380V – 43.0A</td></tr><tr><td>415V – 40.0A</td><td>440V – 37.0A</td></tr></table> <p><b>Power Cable</b> Sheath: Chloroprene rubber Standard Length: 10m 380 to 600V supply: 1 x 4 x 14mm<sup>2</sup>, O.D. 25.6mm 200 to 240V supply: 1 x 4 x 22mm<sup>2</sup>, O.D. 31.6mm</p> <p><b>Dry Weight</b> (excluding cable) 360kg</p>		50Hz	60Hz	380V – 43.0A	220V – 73.5A	400V – 40.5A	380V – 43.0A	415V – 40.0A	440V – 37.0A	<p><b>Impeller</b> Closed Impeller made of high-chromium cast iron</p> <p>Solids Passage 50Hz – ϕ12mm 60Hz – ϕ12mm</p> <p><b>Mouth Ring</b> Made of high-chromium cast iron, excellent in abrasion-resistance</p> <p><b>Cable Entry with Anti-Wicking Block</b> Watertight cable entry with strain-relief device. The anti-wicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.</p> <p><b>Bearing</b> Permanently lubricated, deep-groove, double-shielded C3 ball bearings</p> <p><b>Shaft</b> 420 stainless steel</p> <p><b>Shaft Seal (Mechanical Seal)</b> Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.</p> <p>Upper Seal Face: SiC + SiC Lower Seal Face: SiC + SiC</p> <p><b>Pressure Relief Port</b> Protects the mechanical seal from over rated limits, and also protects the seal faces from abrasive particles by drawing particles away.</p> <p><b>OIL LIFTER</b> (Patented) Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.</p> <p>Type of Lubricating Oil &amp; Volume Turbine Oil (ISO VG32), 6900ml</p> <p><b>Motor Protection Device</b> A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.</p> <p><b>Galvanic Anode</b> Protects the pump from electric corrosion, made of aluminium alloy</p>	
50Hz	60Hz										
380V – 43.0A	220V – 73.5A										
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TSURUMI MANUFACTURING CO., LTD.											

		NO.		A-11675-1										
PUMP PERFORMANCE CURVES														
TYPE SUBMERSIBLE GENERAL DEWATERING PUMP (HIGH HEAD)			MODEL LH622 -51		FREQUENCY 50 Hz									
CUSTOMER'S NAME														
EQUIPMENT TITLE														
NO.														
		STANDARD SPECIFICATIONS		REQUIRED SPECIFICATIONS										
DISCHARGE BORE		150 mm		mm										
TOTAL HEAD		35 m		m										
CAPACITY		2.0 m <sup>3</sup> /min		m <sup>3</sup> /min										
MOTOR OUTPUT		22 kW		kW										
PHASE × VOLTAGE		3 φ × V		φ × V										
CURRENT		A		A										
POLES / REVOLUTION		2 P / S. S. 3000 min <sup>-1</sup>		P / min <sup>-1</sup>										
STARTING METHOD		DIRECT ON LINE												
INSULATION CLASS		B												
<table><tr><td>%</td><td>kW</td><td>m</td></tr><tr><td>PUMP EFF.</td><td>OUT PUT</td><td>TOTAL HEAD</td></tr><tr><td colspan="3">CAPACITY</td></tr></table>				%	kW	m	PUMP EFF.	OUT PUT	TOTAL HEAD	CAPACITY			REMARKS:	
				%	kW	m								
PUMP EFF.	OUT PUT	TOTAL HEAD												
CAPACITY														
TSURUMI MFG. CO., LTD.														

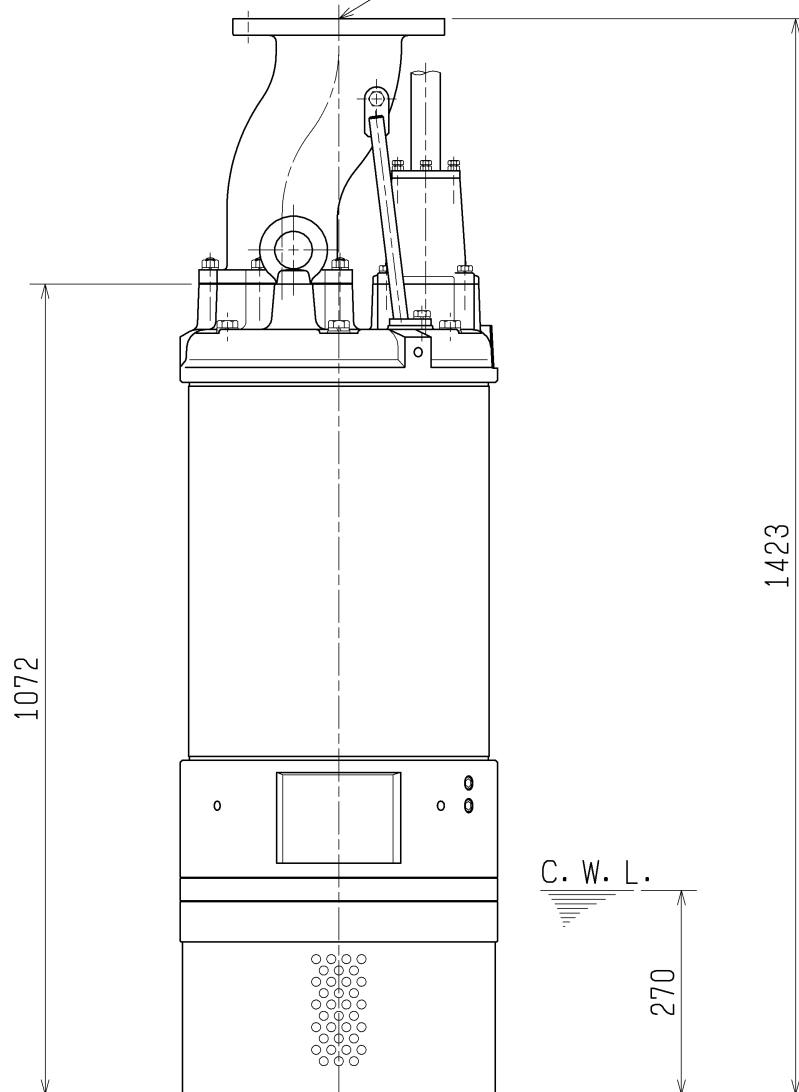
DIMENSION DRAWING			No.		No.	A-11684-2
TYPE	SUBMERSIBLE GENERAL DEWATERING PUMP (HIGH HEAD)		MODEL	LH619	-51/61	
				LH622	-51/61	

MODEL	Approximate Weight (※)
LH619-51/61	350kg
LH622-51/61	360kg

※excluding cable

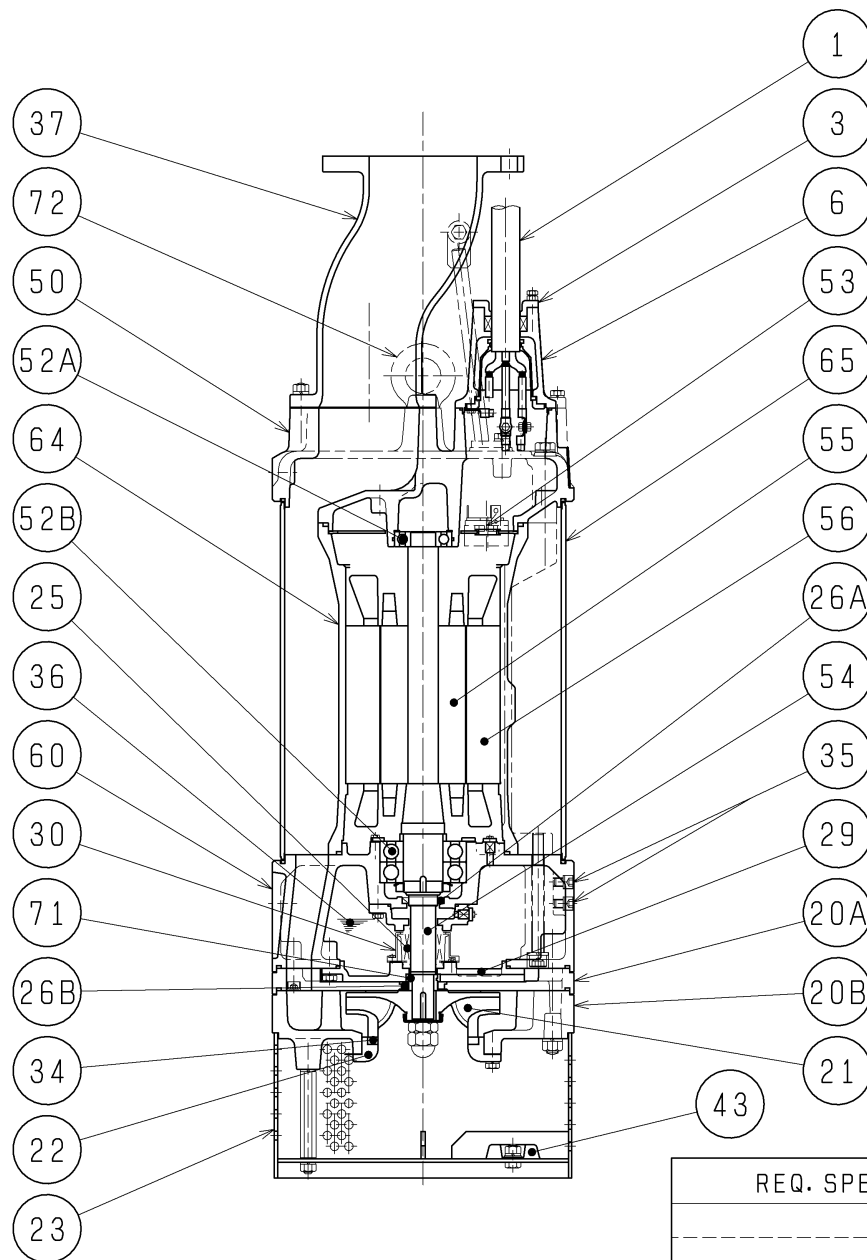


JIS10K Flange  
Nominal Dia.  
φ150



C. W. L. :Continuous running Water Level

SECTIONAL DRAWING			No.		No.	A-11689-4
TYPE	SUBMERSIBLE GENERAL DEWATERING PUMP (HIGH HEAD)	MODEL	LH619	-51/61	LH622	-51/61
			LH422	-51/61		



REQ. SPECIFICATION

No.	DESCRIPTION	Q'TY	MATERIAL / NOTE	No.	DESCRIPTION	Q'TY	MATERIAL / NOTE
1	Cabtyre Cable	1	Chloroprene Sheath	37	Discharge Pipe	1	Ductile Iron Casting
3	Gland	1	Gray Iron Casting	43	Cathodic Protection Plate	4	Aluminium
6	Stuffing Box	1	Gray Iron Casting	50	Motor Bracket	1	Gray Iron Casting
20A	Casing-upper Half	1	Ductile Iron Casting	52A	Upper Bearing	1	6307ZZC3
20B	Casing-lower Half	1	Ductile Iron Casting	52B	Lower Bearing	1	6311ZZD2C3
21	Impeller	1	Chromium Iron Casting	53	Motor Protector	1	
22	Suction Cover	1	Gray Iron Casting	54	Shaft	1	Stainless Steel 420J2
23	Strainer Stand	1	Structure Steel	55	Rotor	1	
25	Mechanical Seal	1	H-35T	56	Stator	1	
26A	Oil Seal	1	SC40588	60	Bearing Housing	1	Gray Iron Casting
26B	Labyrinth Ring	1	Stainless Steel 304	64	Motor Frame	1	Gray Iron Casting
29	Oil Casing	1	Gray Iron Casting	65	Outer Cover	1	Structure Steel
30	Oil Lifter	1	Plastic	71	Shaft Sleeve	1	Stainless Steel 403
34	Mouth Ring	1	Chromium Iron Casting	72	Eye Bolt	2	Stainless Steel 304
35	Oil Plug	2	Stainless Steel 304				
36	Lubricant		Turbine Oil (ISO VG32)				