TSURUMI PUMP

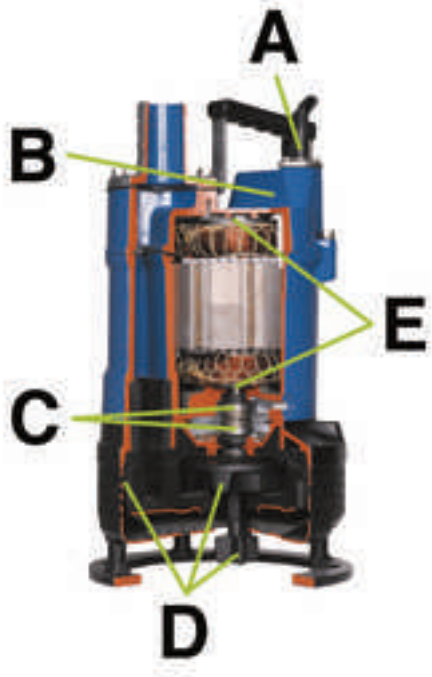
Contractors' Pumps

Tsurumi products are distributed worldwide and renowned for their advanced technological design. For professional use.

Latest Technology - Highest Quality

A - Tsurumi Stuffing Box - absolutely watertight

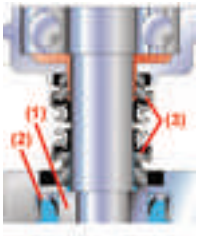
The stuffing box is located at the cable entry section and takes the part of sealing off water. As the cable conductors consist of twisted wires, water may penetrate into the motor by the capillary phenomenon when cable sheath or insulation is damaged or when the end of the cable is submerged. The construction is such that a certain part of the insulation of each conductor is peeled and filled with rubber or epoxy resin for the complete sealing.



B - Continuous use under dry-run

Located directly above the motor windings, a snap-action self-resetting bi-metal device cuts off voltage from all three phase windings simultaneously if the current is too large in one, two or all three windings, or if the windings get too hot. Tsurumi enables measurement of winding resistance and insulation from the far end of the cable, without ever removing the cover from the motor in the field.

C - Double mechanical SiC seal in oil bath



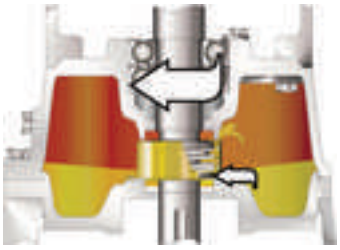
The interaction of a ring rotating with the shaft and a fixed ring, below and above an oil bath, assumes the critical role of withstanding pumping pressure and preventing water from seeping into the motor. The seals of all Tsurumi contractors ´ pumps, even in the 400W-class, have sealing rings of Silicon Carbide. No other material has greater hardness, selflubrication is slightly better than that of directly comparable materials. Resistance to temperature fluctuation and corrosion is also the best available.

D - Increased wear resistance of pump casing and impeller

As contractors ´ pumps are used in unpredictable circumstances, Tsurumi has gone a long way towards making the impeller capable of the impossible and towards providing spare motor power to match. Tsurumi contractors ´ pumps are used extensively for bentonite mud, often with earth in the case of the models fitted with an agitator.

E - Ball bearings of highest quality

Due to the high quality of the shaft and the bear rings all pumps can be run horizontally when entirely submerged.



Oil Lifter

A special patented guide vane is attached inside the oil chamber. With the motor rotation oil is pumped up. Therefore even at low oil level lubrication and cooling of the mechanical seal is secured.

Top Discharge

(water jacket)

Pumped water flows between the outer cover and the motor, cooling the motor and discharging as illustrated (forced motor cooling arrangement). The pump can be run continuously in air.

Top Discharge

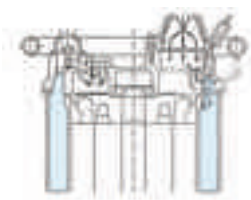
(side flow)

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.

Side Discharge

(spiral type)

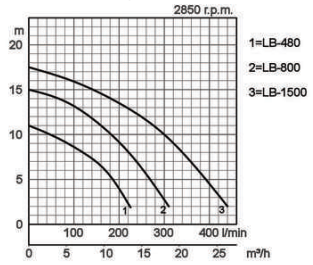
The spiral type pump features a large waterway area as illustrated and carries sand suspensions or slurry very effectively. Since a high performance motor is used, the pump can be run continuously in air.



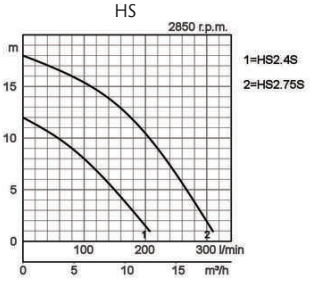
Water Jacket - Inner and outer motor casing - flow-through-design - perfect cooling under dry-runconditions.

Type	Model	ø Discharge bore	Motor output kW	Poles	Impeller	Level sensor	Motor protector (built-in)	Flow arrangement			
								Top discharge	Top discharge (side flow)	Side discharge (spiral type)	
Portable 1ph/230V 1ph/110V	LB	50	0,48 - 1,5	2	Vortex	O	O	O			Page 4
	HS	50 • 80	0,4 • 0,75	2	Vortex		O			O	Page 4
	HSD	50	0,55	2	Vortex		O			O	Page 5
	LSC	25	0,48	2	Vortex		O	O			Page 5
General Purpose	KTV(E)	50 • 80	0,75 - 5,5	2	Vortex	O	O		O		Page 6/7
	KTZ	50 - 150	1,5 - 11,0	2	Vortex		O		O		Page 8
	KRS	100 - 250	3,0 - 22,0	4	Vortex		O	O	O		Page 9
Slurry, Bentonite	KTV2	50 • 80	2,0 • 3,0	2	Vortex		O		O		Page 10
	KRS2	80 - 150	4,0 - 9,0	4	Vortex		O		O		Page 11
Sand	GPN	80 • 100	5,5 • 11,0	4	Vortex		O			O	Page 12
	NKZ	80 • 100	2,2 - 11,0	4	Vortex		O			O	Page 13
High Head	LH-W	50 • 80	3,0 - 22,0	2	Vortex		O	O			Page 14
	LH	100 - 200	15,0 - 75,0	2	Vortex		O	O			Page 15

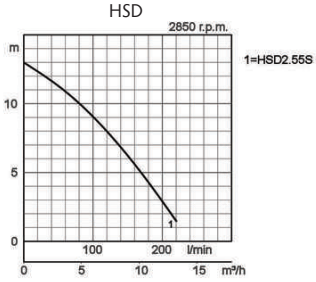
LB



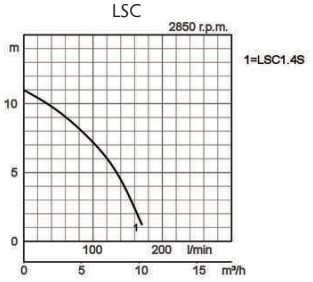
HS



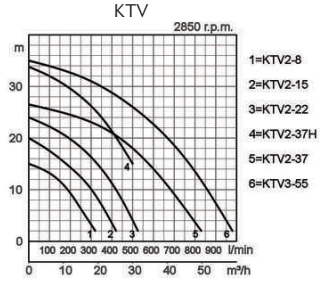
HSD



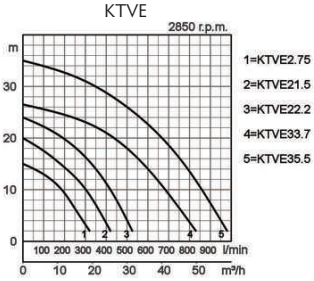
LSC



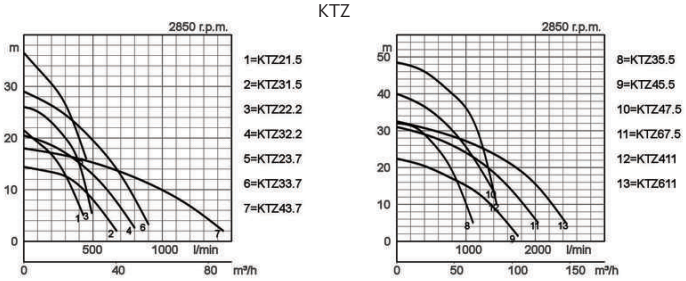
KTV



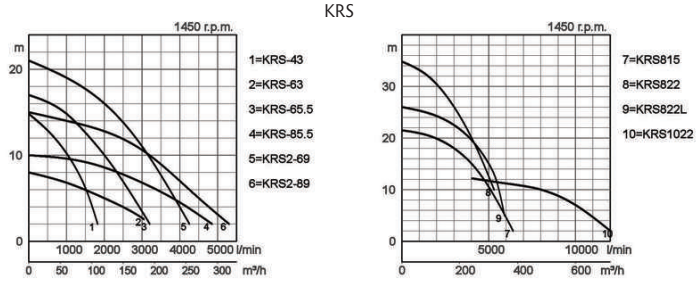
KTVE



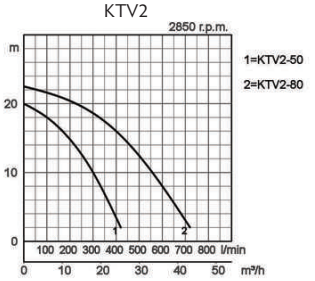
KTZ



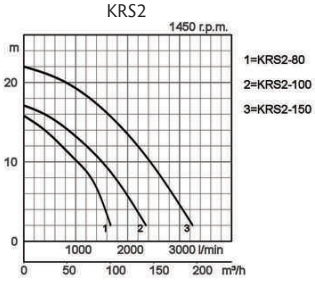
KRS



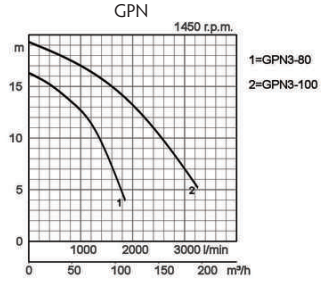
KTV2



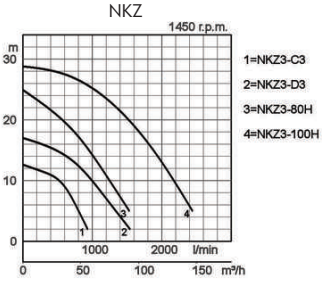
KRS2



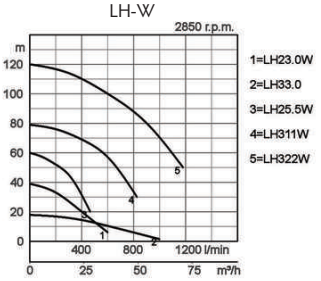
GPN



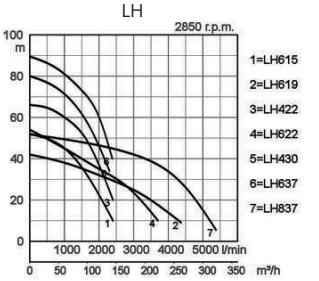
NKZ



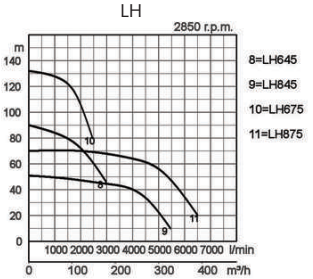
LH-W



LH



LH

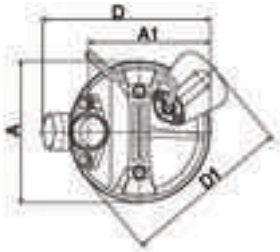


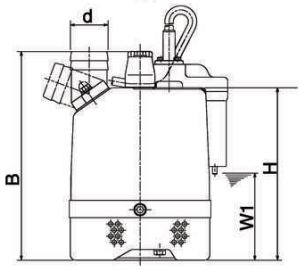
Portable Contractors' Pumps

LB 1-phase 50Hz

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	Max. water depth m	Cable length m	Dimensions in mm: d	A	A1	B	D	D1	H	W1
LB-480	1	50	0,48	2,9	11,0	225	10,4	6	20	10	50	187	161	286	231	-	228	50
LB-480A		50	0,48	2,9	11,0	225	11,0	6	20	10	50	187	161	286	231	223	228	115
LB-800	2	50	0,75	5,0	15,0	310	13,2	6	20	10	50	187	160	341	230	-	283	50
LB-800A		50	0,75	5,0	15,0	310	13,8	6	20	10	50	187	160	341	230	223	283	170
LB-1500	3	50	1,5	15,4	17,5	440	33	6	50	10	50	187	122	600	-	-	518	80

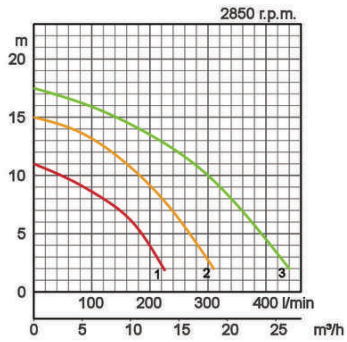
Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Spring water, Rain water, Ground water, Sand carrying water
Pump	Compo-nents	Impeller	Semi-Vortex impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Urethane rubber,Chromium iron casting
		Casing	Ethylene propylene rubber
		Suction Plate	Steelplate+Urethane rubber
		Shaft Seal	Silicon carbide in oil bath
Motor	Type, Poles		Induction motor, 2 poles
	Lubrication		Turbine oil (ISO VG32)
	Motor Protector (built-in)		Miniature protector,Circle thermal cut-out
	Insulation		Insulation class E,Insulation class B
	Phase / Voltage		Single phase 230V / 110V / 50Hz
	Material	Casing	Aluminium die casting
		Shaft	Stainless steel EN-X6Cr13
		Cable	Rubber, H07RN-F
Discharge Connection			Threaded flange/Hose coupling





W1: continuous running water level

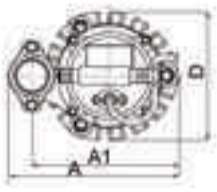
Light Duty Drainage Pump - LB-480A and LB-800A with level control

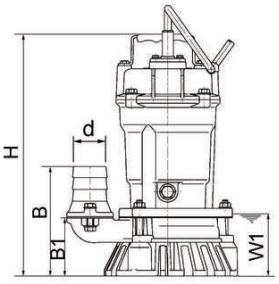


HS 1-phase 50Hz

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	Max. water depth m	Cable length m	Dimensions in mm: d	A	A1	B	B1	D	H	W1
HS2.4S	1	50	0,4	2,6	12,2	207	11,3	7	20	10	50	240	207	158	84	185	348	90
HS2.75S	2	50	0,75	4,6	18,0	300	18,2	7	20	10	50	285	233	217	109	184	388	90
HS3.75S		80	0,75	4,6	18,0	300	19,0	7	20	10	80	285	233	217	109	184	388	90

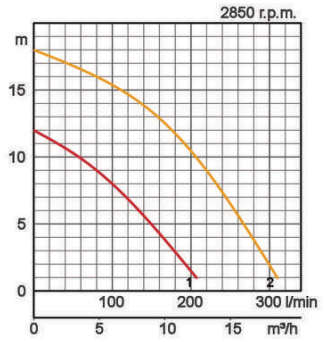
Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Spring water, Rain water, Ground water, Sand carrying water
Pump	Compo-nents	Impeller	Semi-Vortex impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Urethane rubber
		Casing	Ductile iron casting EN-GJS-700-2
		Shaft Seal	Silicon carbide in oil bath
Motor	Type, Poles		Induction motor, 2 poles
	Lubrication		Turbine oil (ISO VG32)
	Motor Protector (built-in)		Miniature protector
	Insulation		Insulation class E
	Phase / Voltage		Single phase 230V / 110V / 50Hz
	Material	Casing	Aluminium die casting
		Shaft	Stainless steel EN-X6Cr13
		Cable	Rubber, H07RN-F
Discharge Connection			Threaded flange/Hose coupling





W1: continuous running water level

Light Duty Drainage Pump equipped with spiral casing



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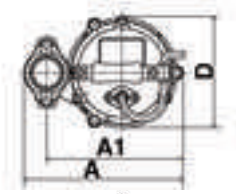
Portable Contractors' Pumps

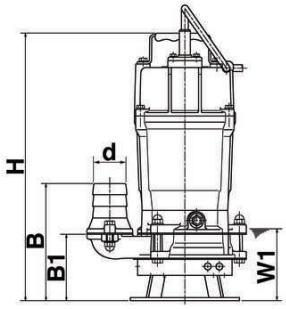
HSD

1-phase
50Hz

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	Max. water depth m	Cable length m	Dimensions in mm: d	A	A1	B	B1	D	H	W1
HSD2.55S	1	50	0,55	3,6	13,2	220	15,0	10	20	10	50	234	200	171	97	162	391	105

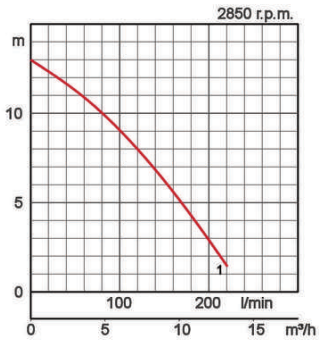
Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Sand carrying water, Sludge, Bentonite
Pump	Compo-nents	Impeller	Semi-Vortex impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Chromium iron casting
		Casing	Ductile iron casting EN-GJS-700-2
		Shaft Seal	Silicon carbide in oil bath
Motor	Type, Poles		Induction motor, 2 poles
	Lubrication		Turbine oil (ISO VG32)
	Motor Protector (built-in)		Miniature protector
	Insulation		Insulation class E
	Phase / Voltage		Single phase 230V / 110V / 50Hz
	Material	Casing	Aluminium die casting
		Shaft	Stainless steel EN-X6Cr13
		Cable	Rubber, H07RN-F
Discharge Connection			Threaded flange/Hose coupling





W1: continuous running water level

Portable Agitator Pump for sludge and bentonite

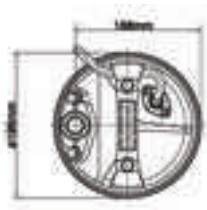


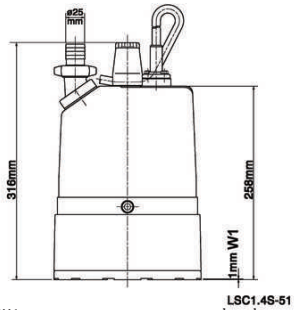
LSC

1-phase
50Hz

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	Max. water depth m	Cable length m
LSC1.4S	1	25	0,48	2,9	11,0	170	12,0	6	20	10

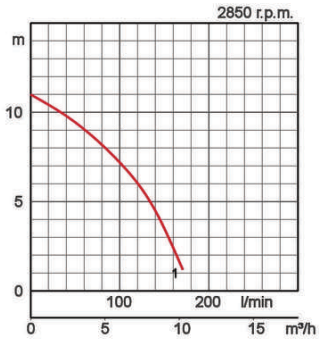
Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Cleaning water, Water on floor, Puddles
Pump	Compo-nents	Impeller	Semi-Vortex impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Urethane rubber
		Casing	Ethylene propylene rubber
		Suction Plate	Steelplate+Urethane rubber
		Shaft Seal	Silicon carbide in oil bath
Motor	Type, Poles		Induction motor, 2 poles
	Lubrication		Turbine oil (ISO VG32)
	Motor Protector (built-in)		Miniature protector
	Insulation		Insulation class E
	Phase / Voltage		Single phase 230V / 110V / 50Hz
	Material	Casing	Aluminium die casting
		Shaft	Stainless steel EN-X6Cr13
		Cable	Rubber, H07RN-F
Discharge Connection			Hose coupling





W1: continuous running water level

Residue Water Pump - removal of residual water down to 1mm



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KTV 400V 50Hz

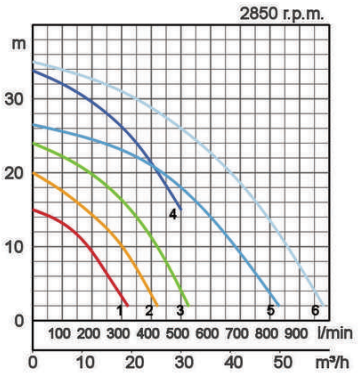
Specifications:

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	Max. water depth m	Cable length m
KTV2-8	1	50	0,75	1,8	15,0	320	11,5	6	20	10
KTV2-15	2	50	1,5	3,3	20,0	420	20	8,5	30	20
KTV2-22	3	50	2,2	4,3	24,0	525	23,0	8,5	30	20
KTV2-37H	4	50	3,7	7,4	33,8	500	36,0	8,5	30	20
KTV2-37	5	80	3,7	7,4	26,5	830	36,0	8,5	30	20
KTV3-55	6	80	5,5	11,0	35,0	980	47	8,5	30	20

Light but wear resistant

The KTV-series combines high tech materials for maximum durability, yet lightweight and portable.

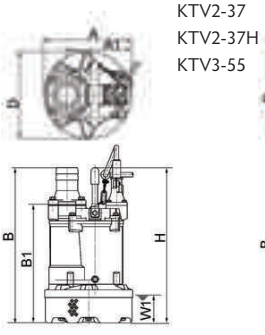
ø Discharge bore mm			50,80
Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Spring water, Rain water, Ground water, Sand carrying water
Pump	Compo-nents	Impeller	Semi-Vortex impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Urethane rubber,Ductile iron casting EN-GJS-700-2
		Casing	Synthetic rupper
		Shaft Seal	Silicon carbide in oil bath
Motor	Type, Poles		Induction motor, 2 poles
	Lubrication		Turbine oil (ISO VG32)
	Motor Protector (built-in)		Circle thermal cut-out
	Insulation		Insulation class E
	Phase / Voltage		3-phase / 400V / 50Hz / d.o.l.
	Material	Casing	Aluminium die casting
		Shaft	Stainless steel EN-X30Cr13,Stainless steel EN-X6Cr13
		Cable	Rubber, H07RN-F
Discharge Connection			Threaded flange/Hose coupling



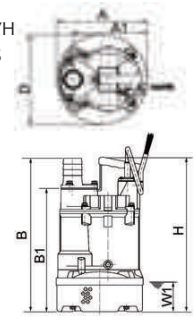
Dimensions in mm:

Model	A	A1	B	B1	D	H	W1
KTV2-8	200	155	353	281	200	369	65
KTV2-15	240	187	392	310	240	396	80
KTV2-22	240	187	412	330	240	416	80
KTV2-37H	285	211	510	387	285	510	90
KTV2-37	285	211	510	387	285	510	90
KTV3-55	300	229	545	422	300	545	90

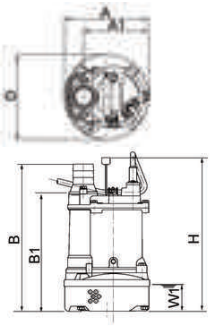
KTV2-37
KTV2-37H
KTV3-55



KTV2-15
KTV2-22



KTV2-8



W1: continuous 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-europe.com/english/applications.htm.

KTVE 400V 50Hz

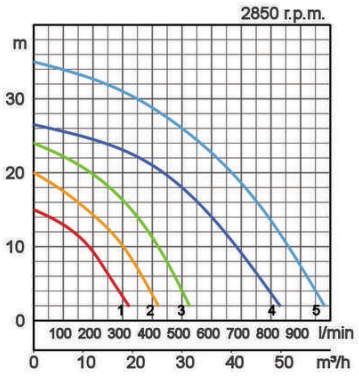
Specifications:

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	Max. water depth m	Cable length m
KTVE2.75	1	50	0,75	1,8	15,0	320	12,7	6	20	10
KTVE21.5	2	50	1,5	3,3	20,0	420	22	8,5	30	20
KTVE22.2	3	50	2,2	4,3	24,0	525	25	8,5	30	20
KTVE33.7	4	80	3,7	7,4	26,5	830	40	8,5	30	20
KTVE35.5	5	80	5,5	11,0	35,0	980	52,0	8,5	30	20

Electrode Auto Control System

The KTVE-type is equipped with a new electrode type control system. Pump operation is started when the water level rises and contacts the electrode. When the the water-electrode contact is lost the timer starts operating, after one minute pump operation is stopped.

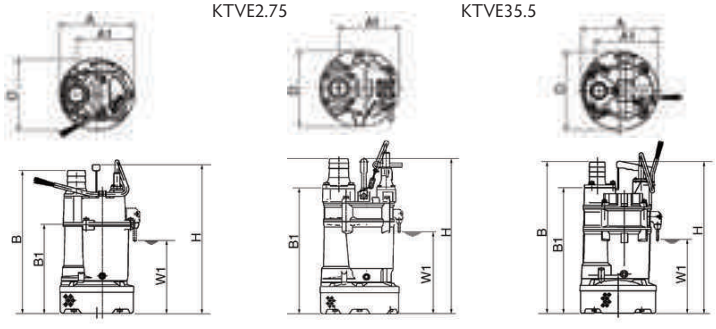
ø Discharge bore mm			50,80
Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Spring water, Rain water, Ground water, Sand carrying water
Pump	Compo-nents	Impeller	Semi-Vortex impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Urethane rubber,Ductile iron casting EN-GJS-700-2
		Casing	Synthetic rupper
		Shaft Seal	Silicon carbide in oil bath
Motor	Type, Poles		Induction motor, 2 poles
	Lubrication		Turbine oil (ISO VG32)
	Motor Protector (built-in)		Circle thermal cut-out
	Insulation		Insulation class E
	Phase / Voltage		3-phase / 400V / 50Hz / d.o.l.
	Material	Casing	Aluminium die casting
		Shaft	Stainless steel EN-X30Cr13,Stainless steel EN-X6Cr13
		Cable	Rubber, H07RN-F
Discharge Connection			Threaded flange/Hose coupling



Dimensions in mm:

Model	A	A1	B	B1	D	H	W1
KTVE2.75	200	155	401	329	200	417	234
KTVE21.5	240	187	482	400	240	486	265
KTVE22.2	240	187	482	400	240	486	265
KTVE33.7	285	211	585	462	285	585	327
KTVE35.5	-	229	620	497	300	620	357

KTVE2.75 KTVE35.5 KTVE21.5 KTVE22.2 KTVE33.7



W1: continuous running water level

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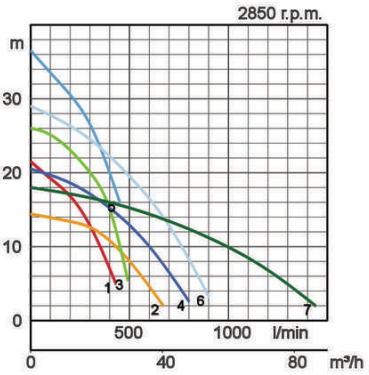
KTZ 400V 50Hz

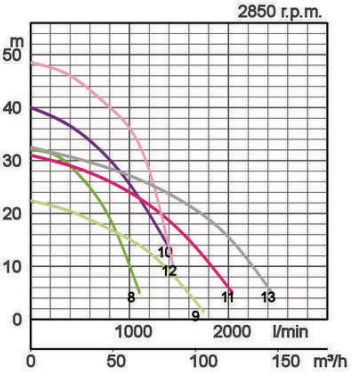
Specifications:

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	Max. water depth m	Cable length m
KTZ21.5	1	50	1,5	3,5	21,5	430	30,0	8,5	50	20
KTZ31.5	2	80	1,5	3,5	14,4	670	30,0	8,5	50	20
KTZ22.2	3	50	2,2	5,0	26,0	500	34,0	8,5	50	20
KTZ32.2	4	80	2,2	5,0	20,5	800	34,0	8,5	50	20
KTZ23.7	5	50	3,7	7,7	36,5	450	63	8,5	50	20
KTZ33.7	6	80	3,7	7,7	29,0	900	63	8,5	50	20
KTZ43.7	7	100	3,7	7,7	18,0	1440	63	8,5	50	20
KTZ35.5	8	80	5,5	11,4	32,0	1100	82,0	10	50	20
KTZ45.5	9	100	5,5	11,4	22,5	1750	82,0	10	50	20
KTZ47.5	10	100	7,5	15,0	40,0	1400	105,0	12	50	20
KTZ67.5	11	150	7,5	15,0	31,0	2040	107,0	20	50	20
KTZ411	12	100	11,0	22,0	48,5	1440	133,0	12	50	20
KTZ611	13	150	11,0	22,0	32,5	2440	136,0	20	50	20

ø Discharge bore mm			50,80,100,150
Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Spring water, Rain water, Ground water, Sand carrying water
Pump	Compo-nents	Impeller	Semi-open type impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Chromium iron casting
		Casing	Grey iron casting EN-GJL-200
		Suction Plate	Ductile iron casting EN-GJS-500-7
		Shaft Seal	Silicon carbide in oil bath
Motor	Type, Poles		Induction motor, 2 poles
	Lubrication		Turbine oil (ISO VG32)
	Motor Protector (built-in)		Circle thermal cut-out
	Insulation		Insulation class F
	Phase / Voltage		3-phase / 400V / 50Hz / d.o.l.
	Material	Casing	Grey iron casting EN-GJL-200
		Shaft	Stainless steel EN-X30Cr13
		Cable	Rubber, H07RN-F
Discharge Connection			Threaded flange/Hose coupling

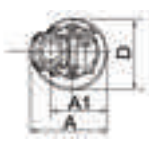
Standard Submersible Drainage Pump generally applicable



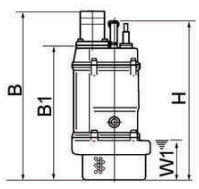


Dimensions in mm:

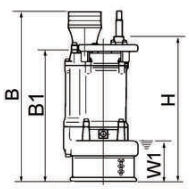
Model	A	A1	B	B1	D	H	W1
KTZ21.5	235	173	509	401	216	478	120
KTZ31.5	235	173	509	401	216	478	120
KTZ22.2	235	173	529	421	216	498	120
KTZ32.2	235	173	529	421	216	498	120
KTZ23.7	283	208	627	504	252	637	150
KTZ33.7	283	208	627	504	252	637	150
KTZ43.7	283	208	642	504	252	637	150
KTZ35.5	306	218	671	548	259	688	150
KTZ45.5	306	218	686	548	259	688	150
KTZ47.5	330	240	764	626	314	687	190
KTZ67.5	330	240	799	626	314	687	190
KTZ411	373	260	806	645	350	740	190
KTZ611	373	260	826	645	350	740	190



KTZ21.5
KTZ31.5
KTZ22.2
KTZ32.2
KTZ23.7
KTZ33.7
KTZ43.7
KTZ35.5
KTZ45.5



KTZ47.5
KTZ67.5
KTZ411
KTZ611



W1: continuous running water level

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KRS

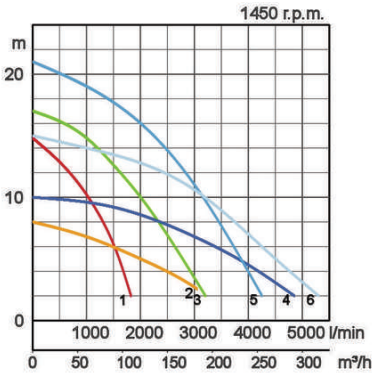
400V
50Hz

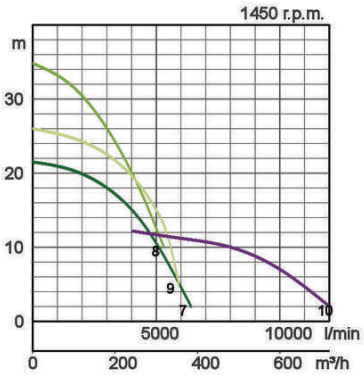
Specifications:

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	Max. water depth m	Cable length m
KRS-43	1	100	3,0	6,5	14,8	1820	95,0	12	30	20
KRS-63	2	150	3,0	6,5	8,0	3250	97,0	15	30	20
KRS-65.5	3	150	5,5	12,1	17,0	3200	118,0	20	30	20
KRS-85.5	4	200	5,5	12,1	10,0	4850	118,0	20	30	20
KRS2-69	5	150	9,0	19,0	21,0	4250	155,0	20	30	20
KRS2-89	6	200	9,0	19,0	15,0	5300	175,0	30	30	20
KRS815	7	200	15,0	29,0	21,5	6400	235,0	25	40	20
KRS822	8	200	22,0	42,0	34,8	5300	390,0	25	40	20
KRS822L	9	200	22,0	42,0	26,0	5900	390,0	25	40	20
KRS1022	10	250	22,0	45,0	12,2	12000	450,0	25	40	20

Heavy Duty Dewatering Pump
4-pole motor - excellent durability

ø Discharge bore mm			100,150,200,250
Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Spring water, Rain water, Ground water, Sand carrying water
Pump	Compo-nents	Impeller	Semi-open type impeller,Closed type impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Ductile iron casting EN-GJS-700-2
		Casing	Grey iron casting EN-GJL-200
		Suction Plate	Grey iron casting EN-GJL-200
		Shaft Seal	Silicon carbide in oil bath
Motor	Type, Poles		Induction motor, 4 poles
	Lubrication		Turbine oil (ISO VG32)
	Motor Protector (built-in)		Circle thermal cut-out
	Insulation		Insulation class E,Insulation class F,Insulation class B
	Phase / Voltage		3-phase / 400V / 50Hz / d.o.l.
	Material	Casing	Grey iron casting EN-GJL-150,Grey iron casting EN-GJL-200
		Shaft	Stainless steel EN-X30Cr13
		Cable	Rubber, H07RN-F
Discharge Connection			Threaded flange,Hose coupling

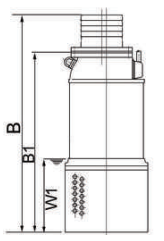




Dimensions in mm:

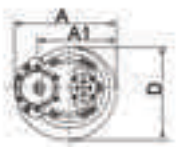
Model	A	A1	B	B1	D	H	W1
KRS-43	378	288	723	586	347	651	170
KRS-63	385	295	867	686	365	777	300
KRS-65.5	423	303	790	608	369	698	190
KRS-85.5	445	325	942	710	413	800	295
KRS2-69	487	371	812	630	424	743	200
KRS2-89	470	354	933	701	403	814	300
KRS815	481	347	1069	837	440	949	275
KRS822	572	445	1238	1006	530	1156	345
KRS822L	572	445	1238	1006	530	1156	345
KRS1022	520	260	1439	1156	-	-	450

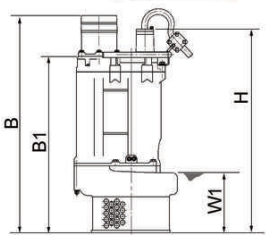
KRS1022



W1: continuous running water level

KRS-43
KRS-63
KRS-65.5
KRS-85.5
KRS2-69
KRS2-89
KRS815
KRS822
KRS822L





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KTV2 400V 50Hz

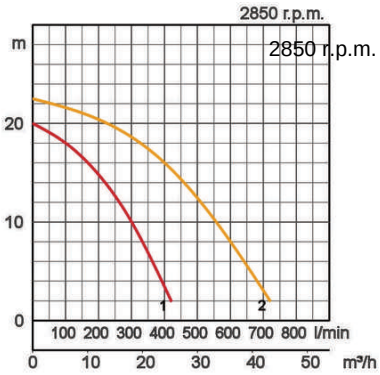
Specifications:

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	Max. water depth m	Cable length m
KTV2-50	1	50	2,0	3,8	20,0	420	25	10	30	20
KTV2-80	2	80	3,0	6,1	22,5	720	38	10	30	20

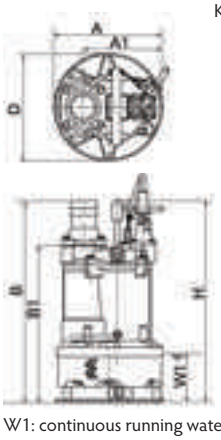
Light Weight Bentonite Pump

A powerful slurry pump using KTV pumps as a base. Features wear resistance, durability and extra light weight.

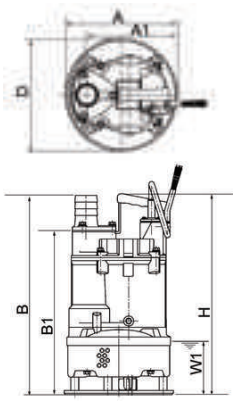
ø Discharge bore mm			50,80
Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Sludge, Slurry, Liquids containing mud
Pump	Compo-nents	Impeller	Semi-Vortex impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Chromium iron casting
		Casing	Synthetic rupper
		Shaft Seal	Silicon carbide in oil bath
Motor	Type, Poles		Induction motor, 2 poles
	Lubrication		Turbine oil (ISO VG32)
	Motor Protector (built-in)		Circle thermal cut-out
	Insulation		Insulation class E
	Phase / Voltage		3-phase / 400V / 50Hz / d.o.l.
	Material	Casing	Aluminium die casting
		Shaft	Stainless steel EN-X6Cr13
		Cable	Rubber, H07RN-F
Discharge Connection			Threaded flange/Hose coupling



KTV2-80



KTV2-50



Dimensions in mm:

Model	A	A1	B	B1	D	H	W1
KTV2-50	250	192	450	368	250	454	120
KTV2-80	295	216	550	427	295	550	130

W1: continuous running water level

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KRS2

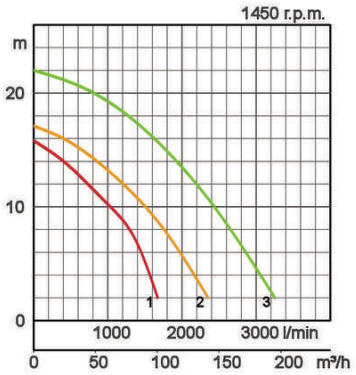
Specifications:

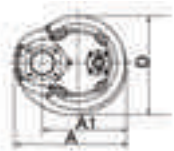
Model	Colour code curve	Bore mm	Motor output kW	Rated current A	Head max. m	Capacity max. l/min	Dry weight kg w/o cable	Max. solid handling ø mm	Max. water depth m	Cable length m
KRS2-80	1	80	4,0	9,5	15,8	1670	105,0	30	30	20
KRS2-100	2	100	6,0	13,0	17,1	2350	145,0	30	30	20
KRS2-150	3	150	9,0	18,5	22,0	3250	170,0	30	30	20

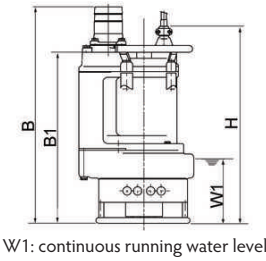
Heavy Duty Slurry Pump

Tsurumi's typical slurry pumps with a 4-pole motor for an increased lifetime and greater convenience.

ø Discharge bore mm			80,100,150
Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Sludge, Slurry, Liquids containing sandy mud and/or bentonite
Pump	Compo-nents	Impeller	Open type impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Chromium iron casting
		Casing	Grey iron casting EN-GJL-200
		Suction Plate	Chromium iron casting
		Shaft Seal	Silicon carbide in oil bath
Motor	Type, Poles		Induction motor, 4 poles
	Lubrication		Turbine oil (ISO VG32)
	Motor Protector (built-in)		Circle thermal cut-out
	Insulation		Insulation class E,Insulation class B
	Phase / Voltage		3-phase / 400V / 50Hz / d.o.l.
	Material	Casing	Grey iron casting EN-GJL-150
		Shaft	Stainless steel EN-X30Cr13
		Cable	Rubber, H07RN-F
Discharge Connection			Threaded flange/Hose coupling







W1: continuous running water level

Dimensions in mm:

Model	A	A1	B	B1	D	H	W1
KRS2-80	350	260	786	666	326	766	250
KRS2-100	415	305	815	678	373	754	250
KRS2-150	434	324	879	699	407	811	250

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GPN 400V 50Hz

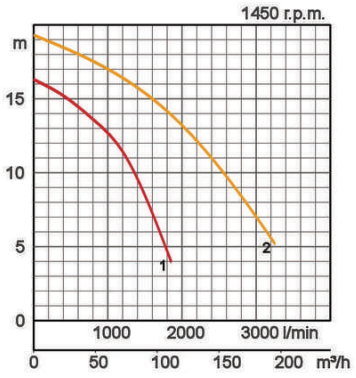
Specifications:

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	Max. water depth m	Cable length m
GPN3-80	1	80	5,5	12,1	16,3	1900	145,0	30	40	20
GPN3-100	2	100	11,0	22,0	19,3	3250	217	30	40	20

Heavy Duty Sand Pump

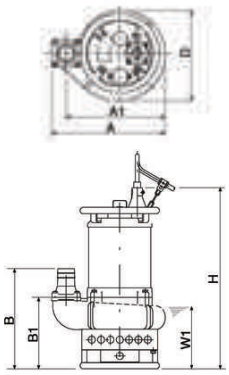
A special steel impeller and suction plate have greatly increased the pump's life. The casing is designed to have wide passing area, thorough thickness and anti-abrasion material.

ø Discharge bore mm			80,100
Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Sludge, Slurry, Liquids containing sandy mud and/or bentonite
Pump	Compo-nents	Impeller	Open type impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Chromium iron casting
		Casing	Grey iron casting EN-GJL-200
		Suction Plate	Chromium iron casting
		Shaft Seal	Silicon carbide in oil bath
Motor	Type, Poles		Induction motor, 4 poles
	Lubrication		Turbine oil (ISO VG32)
	Motor Protector (built-in)		Circle thermal cut-out
	Insulation		Insulation class E,Insulation class B
	Phase / Voltage		3-phase / 400V / 50Hz / d.o.l.
	Material	Casing	Grey iron casting EN-GJL-150
		Shaft	Chromium-molybdenum steel (DIN 1.7220)
		Cable	Rubber, H07RN-F
Discharge Connection			Threaded flange/Hose coupling



Dimensions in mm:

Model	A	A1	B	B1	D	H	W1
GPN3-80	487	426	429	307	390	777	270
GPN3-100	617	517	481	328	450	860	295



W1: continuous running water level

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NKZ 400V 50Hz

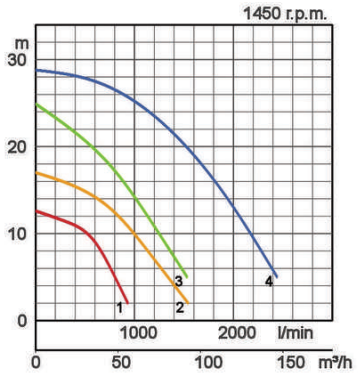
Specifications:

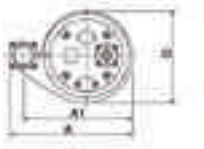
Model	Colour code curve	Bore mm	Motor output kW	Rated current A	Head max. m	Capacity max. l/min	Dry weight kg w/o cable	Max. solid handling ø mm	Max. water depth m	Cable length m
NKZ3-C3	1	80	2,2	5,1	12,6	930	91,0	30	30	20
NKZ3-D3	2	80	3,7	8,0	17,0	1540	100,0	30	30	20
NKZ3-80H	3	80	5,5	12,1	24,9	1530	132	20	30	20
NKZ3-100H	4	100	11,0	22,0	28,8	2440	196	20	30	20

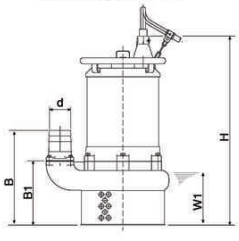
All Purpose Sand Pumps

All pumps in this series provide very smooth passage of sandy earth and slime. A forcibly cooled motor ensures long and continuous pump operations exposed to the air.

ø Discharge bore mm			80,100
Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Liquids containing sandy mud, Sand carrying water
Pump	Compo-nents	Impeller	Open type impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Ductile iron casting EN-GJS-700-2,Chromium iron casting
		Casing	Grey iron casting EN-GJL-200
		Suction Plate	Grey iron casting EN-GJL-200,Ductile iron casting EN-GJS-700-2
		Shaft Seal	Silicon carbide in oil bath
Motor	Type, Poles		Induction motor, 4 poles
	Lubrication		Turbine oil (ISO VG32)
	Motor Protector (built-in)		Circle thermal cut-out
	Insulation		Insulation class E,Insulation class B
	Phase / Voltage		3-phase / 400V / 50Hz / d.o.l.
	Material	Casing	Grey iron casting EN-GJL-150
		Shaft	Stainless steel EN-X30Cr13
		Cable	Rubber, H07RN-F
Discharge Connection			Threaded flange/Hose coupling







W1: continuous running water level

Dimensions in mm:

Model	A	A1	B	B1	D	H	W1
NKZ3-C3	467	405	371	249	370	664	225
NKZ3-D3	467	405	371	249	370	664	225
NKZ3-80H	491	430	387	264	401	754	220
NKZ3-100H	547	486	422	284	414	841	240

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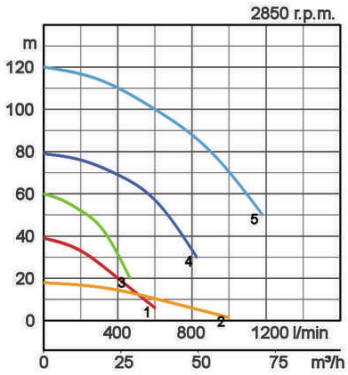
LH-W 400V 50Hz

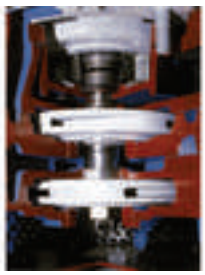
Specifications:

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	Max. water depth m	Cable length m
LH23.0W	1	50	3,0	6,5	39,0	600	46,0	6	50	20
LH33.0	2	80	3,0	6,5	17,9	1000	42,0	6	50	20
LH25.5W	3	50	5,5	11,0	60,0	465	80,0	6	50	20
LH311W	4	80	11,0	22,0	79,0	825	130,0	8,5	50	20
LH322W	5	80	22,0	39,0	120,0	1180	304,0	8,5	50	20

High Head Pumps - Slim Design
High water pressure resistance (50m H2O). Top discharge with center flange, efficient cooling by water jacket.

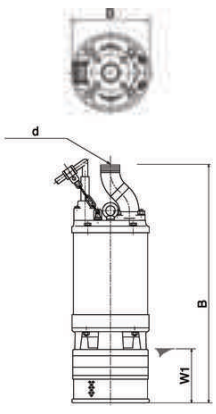
ø Discharge bore mm			50,80
Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Spring water, Rain water, Ground water, Sand carrying water
Pump	Compo-nents	Impeller	Closed type impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Chromium iron casting
		Shaft Seal	Silicon carbide in oil bath
		Casing	Grey iron casting EN-GJL-200,Ductile iron casting
Motor	Type, Poles		Induction motor, 2 poles
	Lubrication		Turbine oil (ISO VG32)
	Motor Protector (built-in)		Circle thermal cut-out
	Insulation		Insulation class F,Insulation class B
	Phase / Voltage		3-phase / 400V / 50Hz / d.o.l.
	Material	Casing	Grey iron casting EN-GJL-200
		Shaft	Stainless steel EN-X30Cr13
		Cable	Rubber, H07RN-F
Discharge Connection			Threaded flange,JIS 20K Flange





Dimensions in mm:

Model	d	B	D	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



W1: continuous running water level

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High Head Pumps

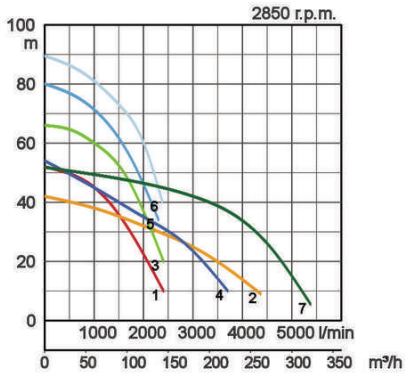
LH 400V 50Hz

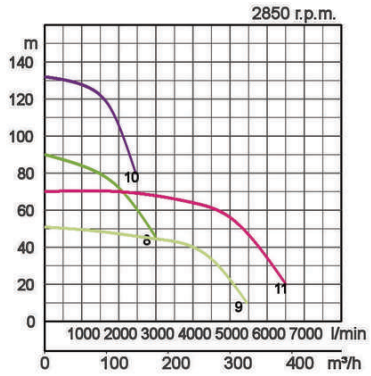
Specifications:

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	Max. water depth m	Cable length m
LH615	1	150	15,0	27,5	52,0	2400	213,0	8,5	50	20
LH619	2	150	19,0	36,0	42,0	4370	350,0	12	50	20
LH422	3	100	22,0	40,5	66,0	2400	350,0	6	50	20
LH622	4	150	22,0	40,5	54,0	3750	360,0	12	50	20
LH430	5	100	30,0	55,0	80,0	2300	355,0	6	50	20
LH637	6	150	37,0	67,0	89,5	2380	495,0	6	50	20
LH837	7	200	37,0	67,0	51,8	5375	495,0	20	50	20
LH645	8	150	45,0	81,0	90,0	2975	510,0	6	50	20
LH845	9	200	45,0	81,0	50,9	5450	510,0	20	50	20
LH675	10	150	75,0	130,0	132,0	2450	850,0	6	50	20
LH875	11	200	75,0	130,0	70,0	6500	850,0	20	50	20

High Head Pumps - Deep Well Draining

ø Discharge bore mm			100,150,200
Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Spring water, Rain water, Ground water, Sand carrying water
Pump	Compo-nents	Impeller	Closed type impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Chromium iron casting
		Casing	Ductile iron casting EN-GJS-450-10,Grey iron casting EN-GJL-200
		Shaft Seal	Silicon carbide in oil bath
Motor	Type, Poles		Induction motor, 2 poles
	Lubrication		Turbine oil (ISO VG32)
	Motor Protector (built-in)		Circle thermal cut-out,Miniature protector
	Insulation		Insulation class B,Insulation class F
	Phase / Voltage		3-phase / 400V / 50Hz / d.o.l.
	Material	Casing	Grey iron casting EN-GJL-200
		Shaft	Stainless steel EN-X30Cr13
		Cable	Rubber, H07RN-F
Discharge Connection			JIS 10K Flange,JIS 20K Flange

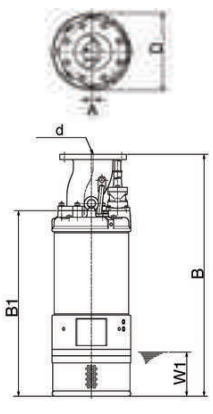




Dimensions in mm:

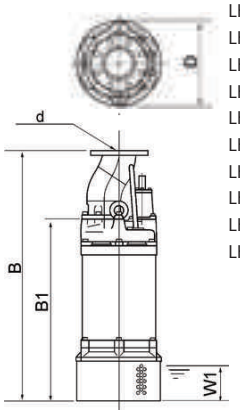
Model	d	A	B	B1	D	W1
LH615	150	7	1014	777	330	185
LH619	150	-	1352	1051	420	250
LH422	100	-	1352	1051	420	250
LH622	150	-	1352	1051	420	250
LH430	100	-	1352	1051	420	250
LH637	150	-	1448	1027	530	180
LH837	200	-	1488	1027	530	180
LH645	150	-	1448	1027	530	180
LH845	200	-	1488	1027	530	180
LH675	150	-	1676	1255	550	200
LH875	200	-	1716	1255	550	200

LH615



W1: continuous running water level

LH619
LH422
LH622
LH430
LH637
LH837
LH645
LH845
LH675
LH875



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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.

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