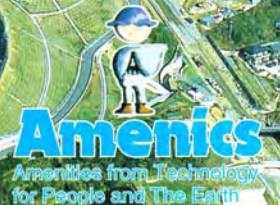




Contractors' Pumps

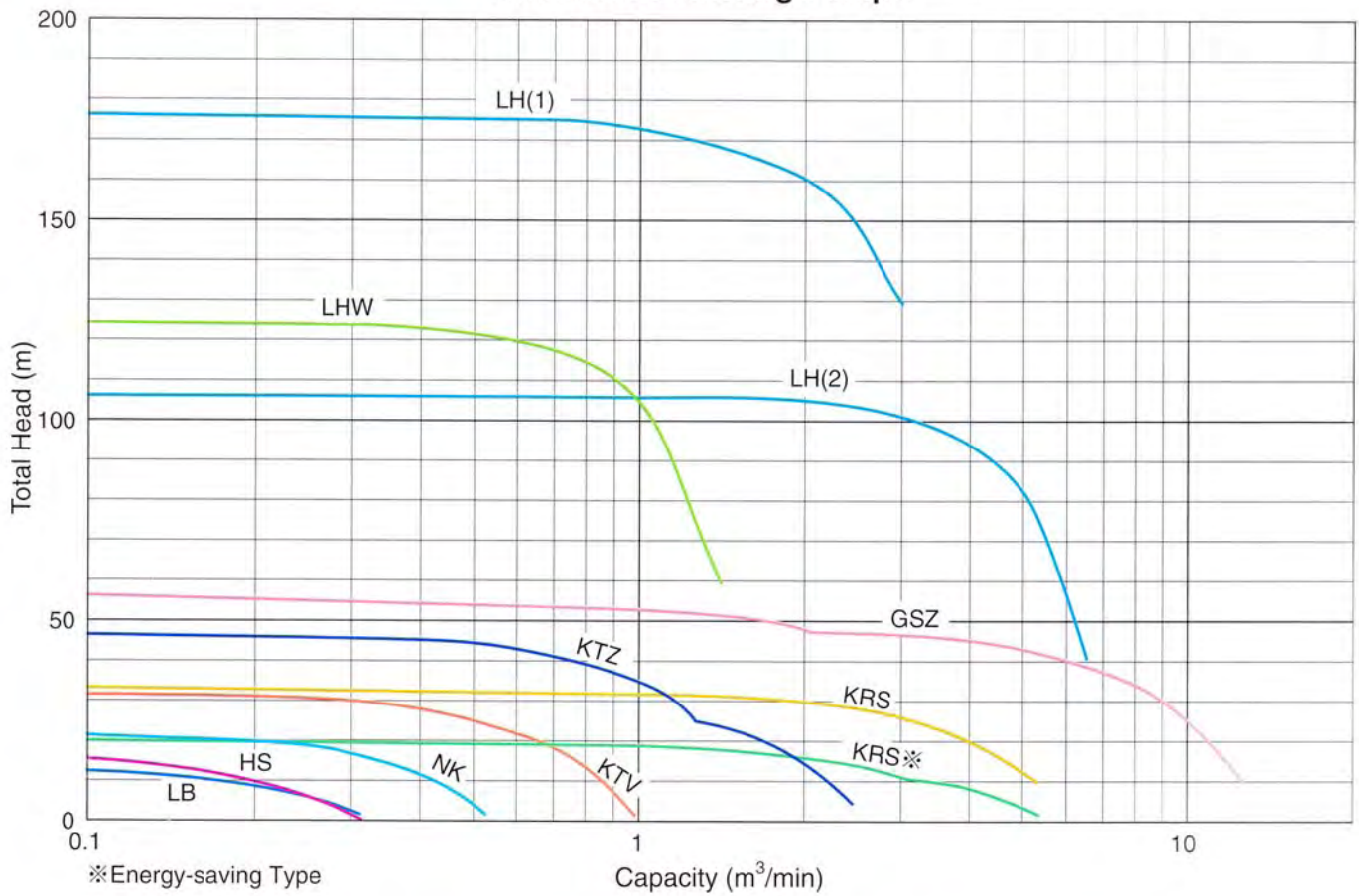


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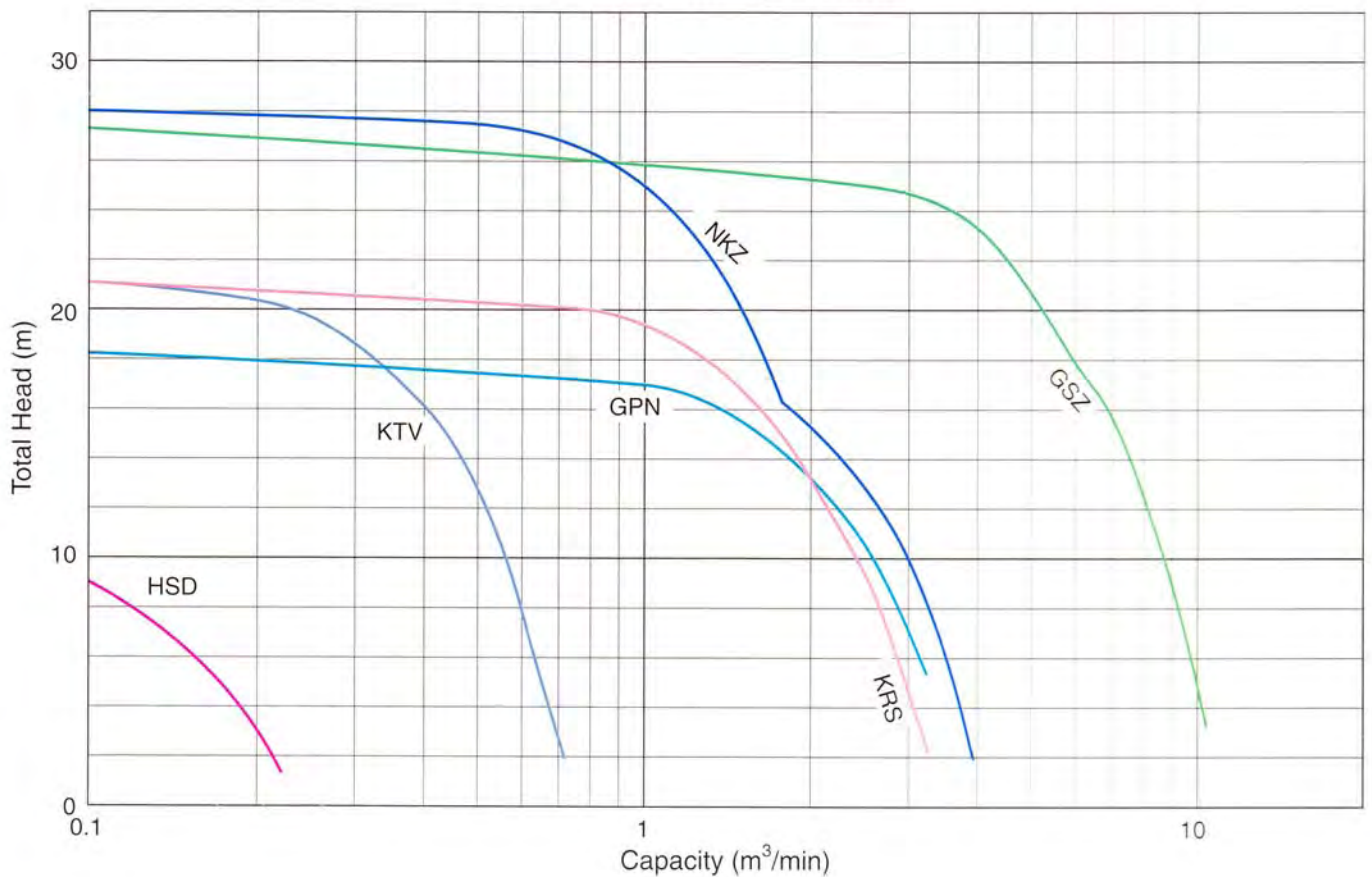


Performance Ranges of Tsurumi Contractors Pumps

General Dewatering Pumps



Sand and Slurry Pumps



Performance Table

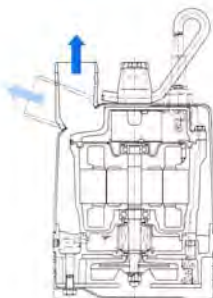
Category	Series	Discharge bore mm	Motor		Flow arrangement			Center flange specifications	Impeller	Control equipment	
			Power output kW	Number of poles	Top discharge		Side discharge				
					Flowthrough	Side flow					
General construction work drainage	Small-sized	LB·LB-A	50	0.48~0.75	2	○			Vortex	Electrode automatic operation (LB-A)	
		HS	50·80	0.4~0.75	2			○	Vortex	—	
	General-type	NK	50	1.5~2.2	2		○		Vortex	—	
		KTV·KTVE	50·80	0.75~5.5	2		○		Vortex	Electrode automatic operation (KTVE)	
		KTZ	50~150	1.5~11	2		○		Semi-open	—	
		KRS	80~250	2.2~22	4	○ (KRS1022)	○ (except KRS1022)		○ (KRS1022)	Semi-open / Closed (KRS1022)	—
		KRS (Energy-saving Type)	100~200	3~9	4		○			Semi-open / Closed (KRS63/85.5)	—
		GSZ-4	150~250	37~75	4			○		Closed	—
	High head	LH	100~200	15~110	2	○		○	Closed	—	
Slurry	HSD	50	0.55	2			○	Vortex	—		
	KTV	50·80	2~3	2		○		Vortex	—		
	KRS	80~150	4~9	4		○		Semi-open	—		
Sand	NKZ	80~150	2.2~11	4			○	Semi-open	—		
	GPN	80~100	5.5~11	4			○	Semi-open	—		
	GSZ-6	200	22~37	6			○	Semi-open	—		
Deepwell	LH-W	50~100	3.0~30	2	○		○ (5.5kW or above)	Closed	—		
Residual water drainage	LSC	25	0.48	2	○			Vortex	—		
	LSP	25×25	0.48	2	○			Vortex	—		

Channel Systems

■ Top discharge

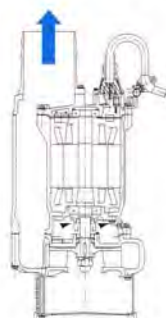
- Flow-through design
<LB·LB-A·KRS-1022·LH·LH-W·LSC·LSP>

This structure is such that before sucked in water is discharged, it flows between the outer cover and the motor to forcibly cool the motor. This system can also be applied to continuous operation exposed to the air.



- Side flow design
<NK·KTV·KTVE·KTZ·KRS (except KRS-1022)>

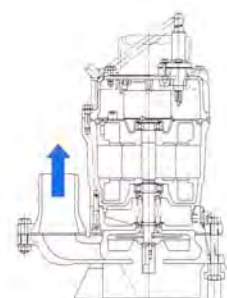
This side flow mechanism is efficiently designed to feed sucked in water along the channel provided on one side of the motor, and discharge the water while forcibly cooling the motor. This pump discharges from the top so that it can be installed in confined locations.



■ Side discharge

- <HS·GSZ-4·HSD·NKZ·GPN·GSZ-6>

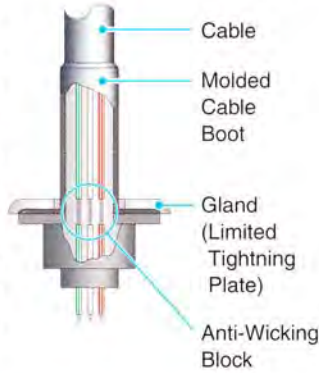
Spiral casing type pumps have large channels to efficiently process sand and silt laden water. Use of a high-performance motor also allows continuous operation exposed to the air.



Common Features

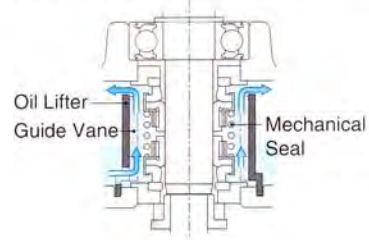
Cable entry

An anti-wicking block is provided at the cable entry section to the motor chamber. Should the cable jacket become damaged, causing the tip of the cable to be accidentally immersed in water, ingress of water in the motor is prevented even if water travels along the lead cores by capillary phenomenon.



OIL LIFTER (patent pending)

The OIL LIFTER functions to supply oil to the top seal faces even if the lubricant in the oil chamber falls below the rated value, and functions to lubricate and cool the seal faces. This Tsurumi-unique mechanism helps extend the service life of the mechanical seal.



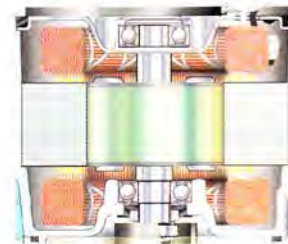
Double-mechanical Seal

By this double-mechanical seal, seal faces are located inside the oil chamber, and are lubricated and cooled by lubricating oil. As seal faces are not lubricated by priming fluid as in an external mechanical type seal (outboard type), the seal is free of any corrosion of metal parts or trouble caused by accumulation of foreign matter inside mechanisms.



Bearings

High-grade bearings for high-temperature operation are used. Also, as deep-groove, double-shield ball bearings are used, and as the bearings are permanently lubricated by grease, there is no need for injection of lubricating oil.



Automatic Motor Protection Device (miniature protector, thermal protector)

If something causes the motor windings to abnormally heat or an overcurrent to flow, the built-in motor protection device automatically detects this to shut off circuits.



High-performance Motor

A motor having stable high performance that meets Tsurumi's high standards of quality is used.

Reliable Automatic Operation <LB-A·KTVE>



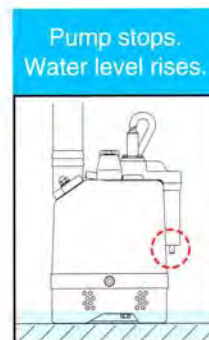
Electrodes submerged in water closing circuit for electric current. The pump starts to operate.



Water level has fallen. Electrodes in air opening circuit for electric current. Timer starts and pump continues to operate.



Timer continues pump operation for approximately one minute. If water again contacts, the electrodes timer is cancelled and pump continues operating.



Timer stops after approximately one minute.



Water level rises to contact electrodes and the pump restarts.

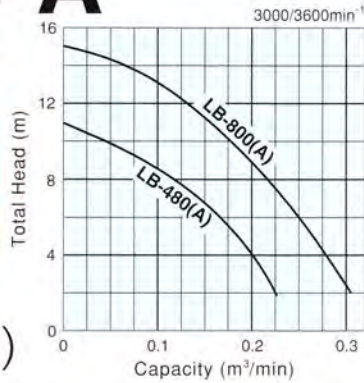
Single-phase General Dewatering Portable Pump

LB•LB-A



LB LB-A

(LB-A type is Probe Type Automatic Pump.)



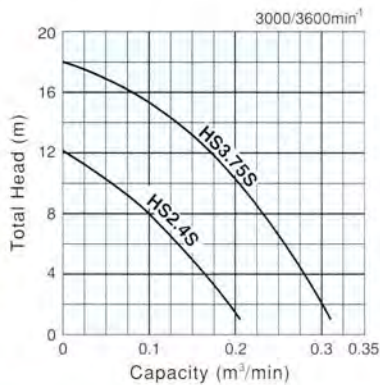
Model	Discharge Bore mm	Motor Output kW	Dry Weight kgs	Dimensions mm	
				D	H
LB-480	50	0.48	10.4	187	286
LB-800	50	0.75	13.2	187	341

Automatic

LB-480A	50	0.48	11.0	223	286
LB-800A	50	0.75	13.8	223	341

Single-phase General Dewatering Portable Pump

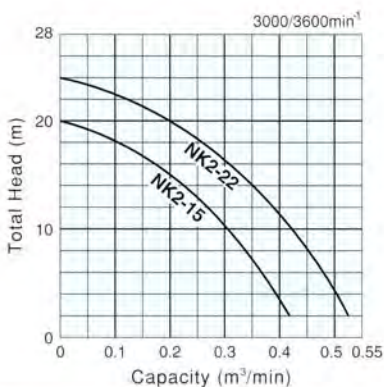
HS



Model	Discharge Bore mm	Motor Output kW	Dry Weight kgs	Dimensions mm	
				D	H
HS2.4S	50	0.4	11.3	241	328
HS3.75S	80(50)	0.75	17.5	285	388

Single-phase Heavy Duty, High Head Portable Pump

NK



Model	Discharge Bore mm	Motor Output kW	Dry Weight kgs	Dimensions mm	
				D	H
NK2-15	50	1.5	31.6	240	623
NK2-22	50	2.2	32	240	623

■ Features

A typical model easy-to-use high-tech model that is robust, compact and weight

■ Applications

- Draining sand-carrying water in construction and civil engineering works



■ Features

Wear-resistant. Performance of the highly reliable pump is not impaired even if worn.

■ Applications

- Draining sand-carrying water in construction and civil engineering works



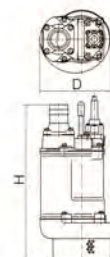
■ Features

Heavy duty, high head pumps capable of handling abrasive materials with minimal wear.

■ Applications

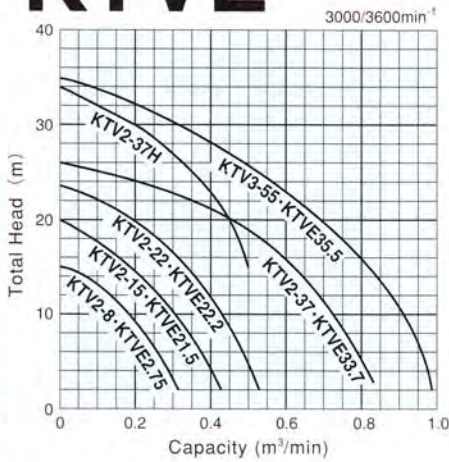
- Draining sand-carrying water in construction and civil engineering works

Indicated weight is the dry weight of the pump itself excluding cables. Approximate dimensions are given for indicated dimensions as shown in the figure.



Three-phase Portable General Dewatering Pump

KTV•KTVE

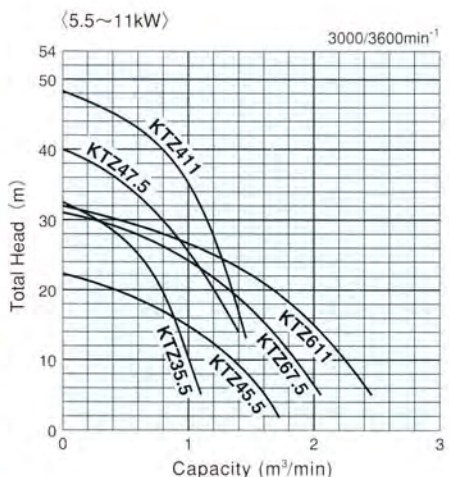
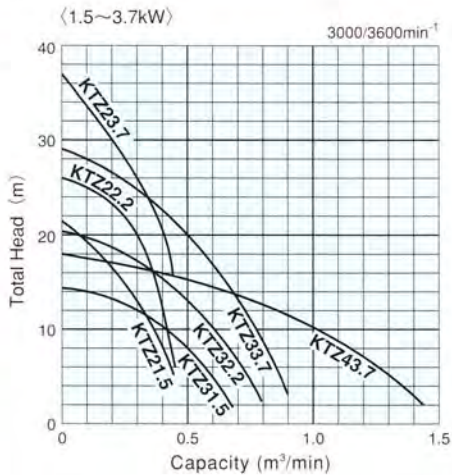


(KTVE type is Probe Type Automatic Pump.)

Model		Discharge Bore mm	Motor Output kW	Dry Weight kgs		Dimensions mm		
Manual	Automatic			Manual	Automatic	D	H	Automatic
KTV2-8	KTVE2.75	50	0.75	11.5	12.7	200	369	417
KTV2-15	KTVE21.5	50	1.5	20.5	21.5	240	396	462
KTV2-22	KTVE22.2	50	2.2	23.0	24.5	240	416	462
KTV2-37H	—	50	3.7	36.0	—	285	510	—
KTV2-37	KTVE33.7	80	3.7	36.0	39.5	285	510	585
KTV3-55	KTVE35.5	80	5.5	46.5	52.0	300	545	620

Three-phase General Dewatering Pump

KTZ



■ Features

High-grade pump featuring excellent wear resistance, convenience and mobility

■ Applications

- Draining sand-carrying water in construction and civil engineering works
- Deepwell pre-dewatering



■ Features

Generally applicable high-grade pump that can be used efficiently in draining in general civil engineering through to deepwell applications

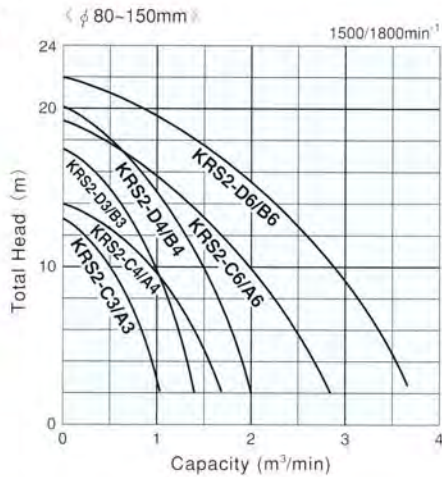
■ Applications

- Draining sand-carrying water in construction and civil engineering works
- Deepwell pre-dewatering

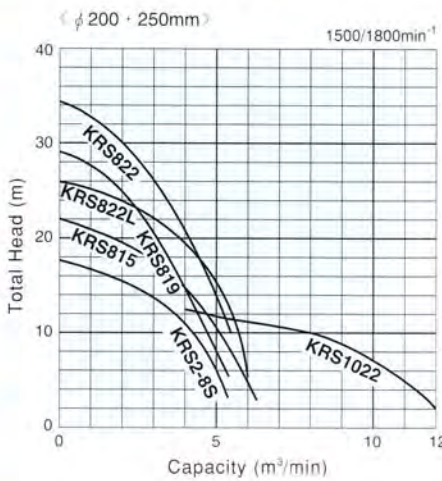
Model	Discharge Bore mm	Motor Output kW	Dry Weight kgs	Dimensions mm	
				D	H
KTZ21.5	50	1.5	30	235	509
KTZ22.2	50	2.2	34	235	529
KTZ23.7	50	3.7	62.5	283	637
KTZ31.5	80	1.5	30	235	509
KTZ32.2	80	2.2	34	235	529
KTZ33.7	80	3.7	62.5	283	637
KTZ35.5	80	5.5	82	306	688
KTZ43.7	100	3.7	62.5	283	642
KTZ45.5	100	5.5	82	306	688
KTZ47.5	100	7.5	105	330	764
KTZ41.1	100	11	133	373	806
KTZ67.5	150	7.5	107	330	799
KTZ61.1	150	11	136	373	826

High-volume Dewatering Pump

KRS

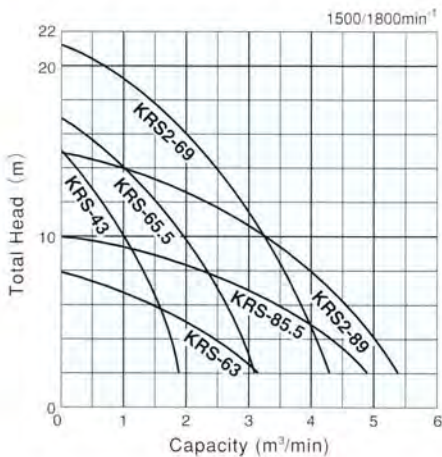


KRS1022



High-volume Dewatering Pump

KRS (Energy-saving type)



Model	Discharge Bore mm	Motor Output kW	Dry Weight kgs	Dimensions mm	
				D	H
KRS-43	100	3	95	378	723
KRS-63	150	3	95	385	867
KRS-65.5	150	5.5	115	423	790
KRS2-69	150	9	155	487	812
KRS-85.5	200	5.5	125	445	942
KRS2-89	200	9	175	470	933

■ Features

4-pole motor used. Typical model of generally applicable pump with a wide range of variations

■ Applications

- Draining sand-carrying water in foundation and civil engineering works such as, river, dam, tunnel, subway, bridge, harbor, etc.
- Water intake from river or lakes
- Draining storm water in a flood control facility

Model	Discharge Bore mm	Motor Output kW	Dry Weight kgs	Dimensions mm	
				D	H
KRS2-C3/A3	80	2.2	72	340	620
KRS2-D3/B3	80	3.7	91/89	365/350	705
KRS2-C4/A4	100	3.7	88	350	720
KRS2-D4/B4	100	5.5	98/95	365/350	710
KRS2-C6/A6	150	7.5	130	415	767
KRS2-D6/B6	150	11	158/150	434/415	813/812
KRS2-8S	200	11	174	472	933
KRS815	200	15	235	481	1069
KRS819	200	18.5	385	572	1238
KRS822	200	22	390	572	1238
KRS822L	200	22	390	572	1238
KRS1022	250	22	450	520	1439



■ Features

Energy-saving and space-saving type exclusively for low heads

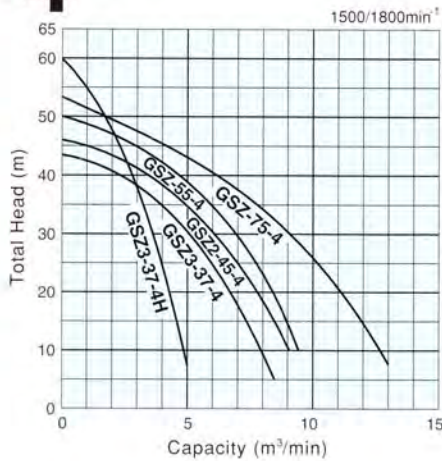
■ Applications

- Draining sand-carrying water in foundation and civil engineering works such as, river, dam, tunnel, subway, bridge, harbor, etc.
- Water intake from river or lakes
- Draining storm water in a flood control facility



High-head High-volume Dewatering Pump

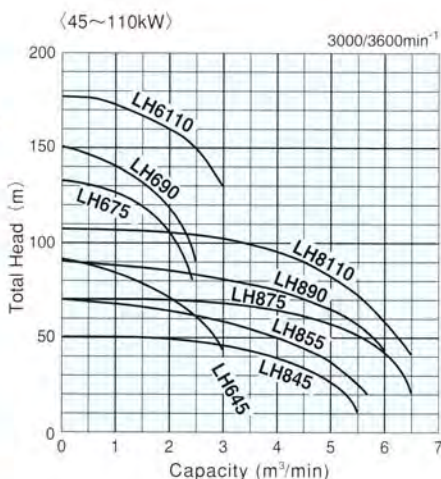
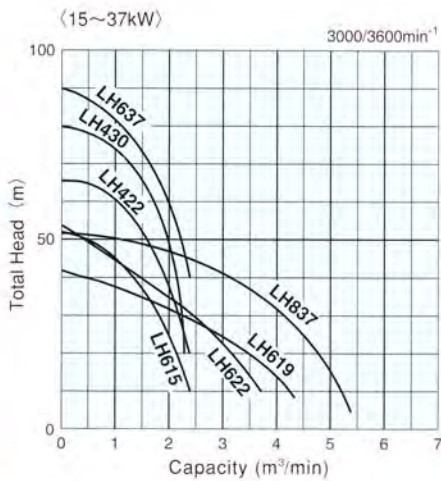
GSZ-4



Model	Discharge Bore mm	Motor Output kW	Dry Weight kgs	Dimensions mm	
				D	H
GSZ3-37-4H	150	37	850	900	1501
GSZ3-37-4	200	37	850	915	1531
GSZ2-45-4	200	45	1100	915	1641
GSZ-55-4	250	55	1150	1050	1733
GSZ-75-4	250	75	1200	1050	1733

High Head Dewatering Pump

LH



■ Features

Equipped with a 4-pole motor, the pumps in this series display their true virtues where a massive amount of water must be drained in a very short period of time.

■ Applications

- Draining sand-carrying water in foundation and civil engineering works such as, river, dam, tunnel, subway, bridge, harbor, etc.
- Water intake from river or lakes
- Draining storm water in a flood control facility



■ Features

High water pressure resistance makes it adaptable in deepwells.

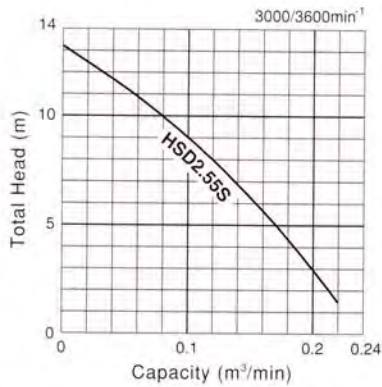
■ Applications

- Draining sand-carrying water in foundation and civil engineering works such as, river, dam, tunnel, subway, bridge, harbor, etc.
- Deepwell pre-dewatering
- Draining or supplying water in quarries and mining

Model	Discharge Bore mm	Motor Output kW	Dry Weight kgs	Dimensions mm	
				D	H
LH422	100	22	350	420	1352
LH430	100	30	355	420	1352
LH615	150	15	213	330	1014
LH619	150	19	350	420	1423
LH622	150	22	360	420	1423
LH637	150	37	495	530	1448
LH645	150	45	510	530	1448
LH675	150	75	850	550	1676
LH690	150	90	1100	592	1787
LH6110	150	110	1200	592	1787
LH837	200	37	495	530	1488
LH845	200	45	510	530	1488
LH855	200	55	810	550	1716
LH875	200	75	850	550	1716
LH890	200	90	1150	592	1787
LH8110	200	110	1250	592	1787

Single-phase Portable Slurry Pump

HSD



Model	Discharge Bore mm	Motor Output kW	Dry Weight kgs	Dimensions mm	
				D	H
HSD2.55S	50	0.55	15	234	391

■ Features

Single-phase, 550W pump equipped with agitator for transferring slurry

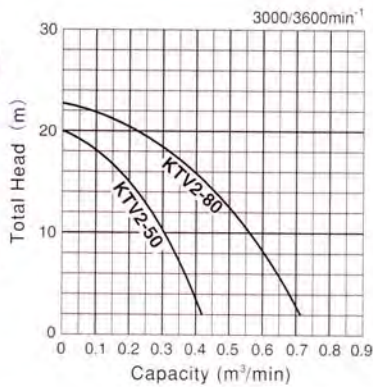
■ Applications

- Draining slurry mixed water in civil engineering works or foundation works



Three-phase Portable Slurry Pump

KTV



Model	Discharge Bore mm	Motor Output kW	Dry Weight kgs	Dimensions mm	
				D	H
KTV2-50	50	2	24.5	250	454
KTV2-80	50	3	37.5	295	550

■ Features

Compact, lightweight type equipped with agitator for transferring slurry

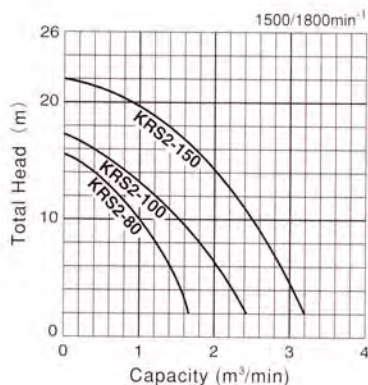
■ Applications

- Transferring or draining bentonite slurry used for slurry drilling
- Draining slurry mixed water in civil engineering works or foundation works



Three-phase Slurry Pump

KRS



Model	Discharge Bore mm	Motor Output kW	Dry Weight kgs	Dimensions mm	
				D	H
KRS2-80	80	4	105	350	786
KRS2-100	100	6	145	415	815
KRS2-150	150	9	170	434/415	879

■ Features

Typical model of slurry pump equipped with agitator for transferring slurry

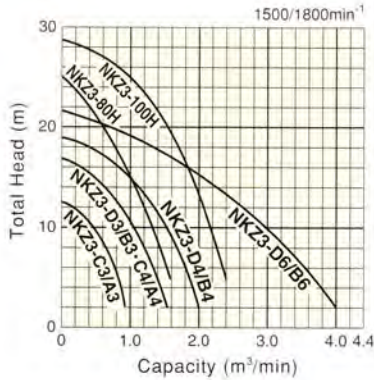
■ Applications

- Transferring or draining bentonite slurry used for slurry drilling
- Draining slurry mixed water in civil engineering works or foundation works



Sand Pump

NKZ



Model	Discharge Bore mm	Motor Output kW	Dry Weight kgs	Dimensions mm	
				D	H
NKZ3-C3/A3	80	2.2	91	467	664
NKZ3-D3/B3	80	3.7	100	467	709
NKZ3-80H	80	5.5	114	491	754
NKZ3-C4/A4	100	3.7	97	467	709
NKZ3-D4/B4	100	5.5	114	485	715
NKZ3-100H	100	11	192	547	841
NKZ3-D6/B6	150	11	192	620	798

■ Features

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

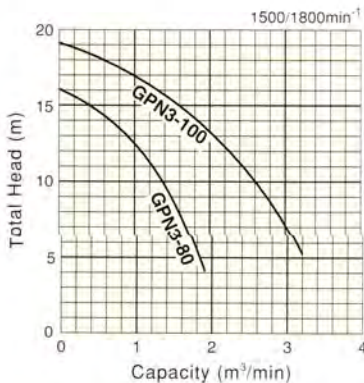
■ Applications

- Draining sandy and muddy water in civil engineering works such as harbor construction and river-development construction works
- As a drainage facility in batcher plants, ready-mixed concrete plants, ceramics factories, etc.



High-Power Sand Pump

GPN



Model	Discharge Bore mm	Motor Output kW	Dry Weight kgs	Dimensions mm	
				D	H
GPN3-80	80	5.5	145	487	777
GPN3-100	100	11	220	617	860

■ Features

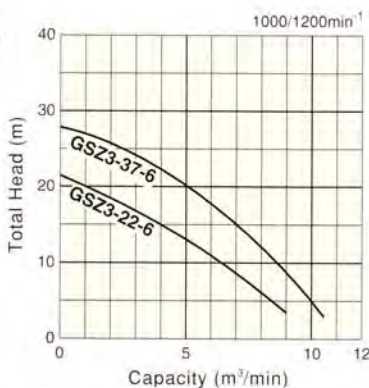
A powerful sand pump with an agitator and a forced cooling motor. Special-steel wearing parts have increased the pump's life.

■ Applications

- Draining sandy and muddy water in civil engineering works such as harbor construction and river-development construction works
- As a drainage facility in batcher plants, ready-mixed concrete plants, ceramics factories, etc.
- Draining water containing iron scale in steel factories

High-volume Sand Pump

GSZ-6



Model	Discharge Bore mm	Motor Output kW	Dry Weight kgs	Dimensions mm	
				D	H
GSZ3-22-6	200	22	700	800	1393
GSZ3-37-6	200	37	1000	850	1416

■ Features

Equipped with a 6-pole, forced cooling motor. Special-steel wearing parts have increased the pump's life.

■ Applications

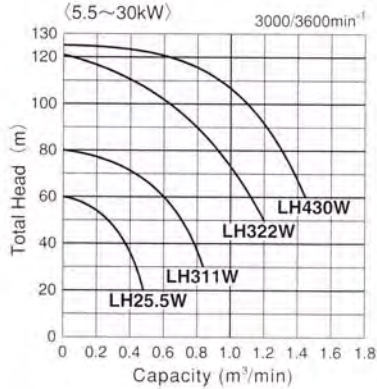
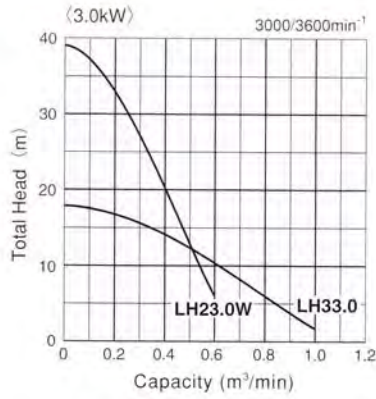
- Collecting sand or gravel or draining water containing gravel, sand, or iron scale
- As a drainage facility in batcher plants, ready-mixed concrete plants, ceramics factories, etc.
- Draining water containing iron scale in steel factories

Deepwell Pump

LH-W



(3.0kW)



■ Features

Higher head model of LH type

■ Applications

- Deepwell pre-dewatering
- Extra high-head pumping applications



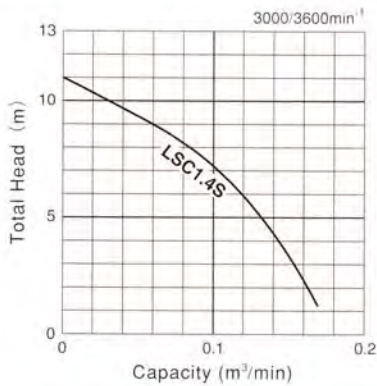
Model	Discharge Bore mm	Motor Output kW	Dry Weight kgs	Dimensions mm	
				D	H
LH23.0W	50	3.0	46	185	630
LH25.5W	50	5.5	80	244	750
LH33.0	80	3.0	41	185	645
LH311W	80	11	130	270	1024
LH322W	80	22	304	330	1235
LH430W	100	30	324	365	1375

Note : LH33.0 is a single-stage pump.

Residual water drainage

Submersible Single-phase Floor-level Residue Portable Pump

LSC



Model	Discharge Bore mm	Motor Output kW	Dry Weight kgs	Dimensions mm	
				D	H
LSC1.4S	25	0.48	12	196	316

Portable Self-priming Residue Dewatering Pump

LSP



Model	Discharge Bore mm	Motor Output kW	Dry Weight kgs	Dimensions mm	
				D	H
LSP1.4S	25×25	0.48	12.5	276	307

■ Features

Original residual dewatering pump capable of pumping water down to a minimum level of 1mm

■ Applications

- Draining storm water on the ground sumps in construction and civil engineering works
- Draining residual water at utility intercept sumps or water storage tanks
- Draining wash water in water storage tanks



■ Features

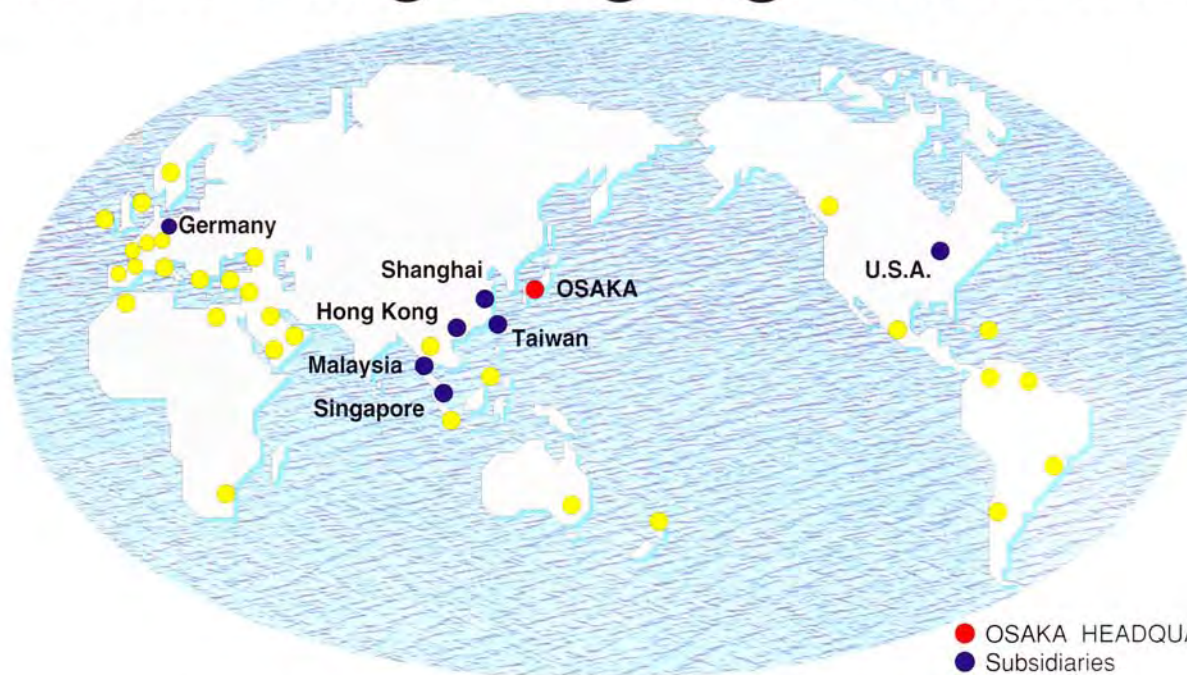
Novel mechanism design pump equipped with a reverse flow prevention device, capable of carrying by one hand

■ Applications

- Draining storm water on the ground sumps in construction and civil engineering works
- Draining residual water at utility intercept sumps or water storage tanks
- Draining wash water in water storage tanks



Transcending Language and Borders



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- Subsidiaries
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We reserve the right to change the specifications and designs for improvement without prior notice.

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