



**TSURUMI PUMP**

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Product Guide

## Tsurumi Manufacturing Co., Ltd.

Tsurumi Manufacturing Company, Limited was founded in Osaka in 1924. Since the foundation, Tsurumi has consistently devoted its efforts to the creation and development of advanced water utilization technologies. Tsurumi has also innovated the pump manufacturing technologies in a constant pursuit of new opportunities and new fields that contribute to the advancement of our society and environment. This effort epitomizes its management policy "Dedicated to pursuing close communication between people and water through innovative creation and respect for harmony with nature."

## Production Bases

Kyoto Plant production facility boasts industry-leading scale and equipment, including extensive testing and research facilities. Its integrated system encompasses all product stages from development to production and is capable of manufacturing small, large, and special-purpose pumps having the capacity of 1,000,000 unit a year.

Yonago Plant in Tottori Prefecture specializes in development and production of large pumps for pumping stations and liquid-ring vacuum pumps. Tsurumi also operates cutting-edge plants in Taiwan, China and Korea that are capable of mass-producing products with short lead times. All plants work together to form a highly efficient production system.

## Global Operations

Tsurumi introduced its overseas strategy in the 1960s. Our technical capabilities gained recognition first Asia in the 1970s and then in the United States and Europe in the 1980s. Following these initial successes, we sought to accelerate the overseas strategy through our International Sales Division. Remarkable successes in fields including construction, civil engineering, mining, power plant, industrial wastewater, domestic wastewater, sewage treatment, flood control, facilities designed to bring people into closer contact with water, and scenery creation have proven Tsurumi's creativity and capability to the world.



### Overseas Subsidiaries

**U.S.A.**  
Tsurumi (America), Inc.

**Germany**  
Tsurumi (Europe) GmbH

**U.A.E.**  
Tsurumi Pump Middle East FZE

**South Africa**  
Tsurumi Pumps Africa

**Thailand**  
Tsurumi Pump (Thailand) Co., Ltd.

**Singapore**  
Tsurumi (Singapore) Pte. Ltd.

**Malaysia**  
Tsurumi Pump (M) Sdn. Bhd.

**Indonesia**  
Pt. Tsurumi Pompa Indonesia

**Hong Kong**  
H&E Tsurumi Pump Co., Ltd.

**China**  
Shanghai Tsurumi Pump Co., Ltd.

**Taiwan**  
Tsurumi Pump Taiwan Co., Ltd.

**Korea**  
Tsurumi Pump Korea Co., Ltd.

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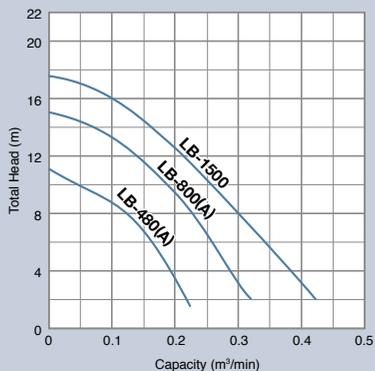


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# LB/LB-A

The LB-series is a submersible single-phase portable drainage pump. The top-discharge, flow-thru design provides maximum motor cooling efficiency allowing continuous operation at low water levels.

The LB-A is an automatic pump without cumbersome floats. An innovative electrode type relay unit built into the pump automatically starts and stops the pump to eliminate dry-running. This mechanism greatly reduces power consumption and extends operating life!



LB

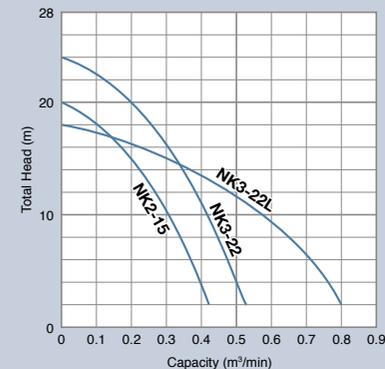


LBA

# NK

03-04

The NK-series is a submersible single-phase portable drainage pump having a larger output motor. Though it is a single-phase unit, the pump has the durability equivalent to three-phase drainage pumps, since the wear parts are made of abrasion-resistant materials. The top-discharge, side-flow design assures efficient motor cooling even when it operates with its motor exposed to air. The slim design allows the pump to be placed in a confined space.



TECHNICAL DATA		LB-480 LB-480A	LB-800 LB-800A	LB-1500
Discharge Bore	mm	50	50(80)	
Motor Output	kW	0.48	0.75	1.5
Phase		Single		
Starting Method		Capacitor Run		Capacitor Start
Motor Protection		Circle Thermal		
Impeller		Vortex made of urethane rubber		
Voltage	V	230		
Current	A	3	5	15
Weight	kg	10.4 11	13.1 13.7	33
Cable Length	m	5		
L x W x H	mm	189 x 187 x 286 223 x 187 x 286	186 x 187 x 341 223 x 187 x 341	187 x 187 x 593

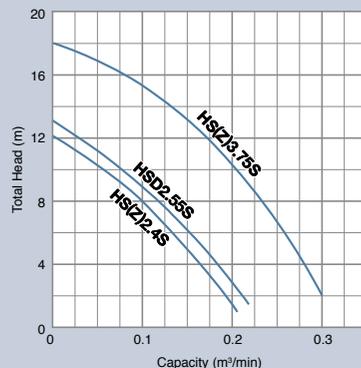
TECHNICAL DATA		NK2-15	NK3-22	NK3-22L
Discharge Bore	mm	50		80
Motor Output	kW	1.5	2.2	
Phase		Single		
Starting Method		Capacitor Start	Capacitor Start + Capacitor Run	
Motor Protection		Circle Thermal		
Impeller		Vortex made of ductile iron		Semi-open made of high-chromium iron
Voltage	V	230		
Current	A	12	13.5	14.5
Weight	kg	29		40
Cable Length	m	10		
L x W x H	mm	240 x 240 x 563	236 x 216 x 669	

# HS/HSZ·HSD

The HS-series is a submersible single-phase portable drainage pump. The side-discharge, spiral design allows smoother passage of the sucked solid matters. The shaft-mounted agitator prevents "Air Lock", and suspends solids to assist in pumping sediments.

The HSZ-series is an automatic pump. An automatic operation, controlled by a single float switch, reduces power consumption and extends operating life.

The HSD is suitable for slurry use. An incorporated impeller and agitator are made of high-chromium cast iron.

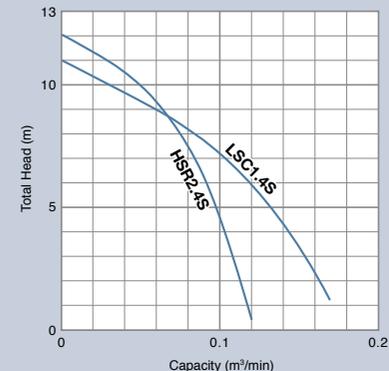


HS

HSZ

# HSR·LSC·LSP 05-06

The HSR, LSC and LSP are a submersible single-phase portable residue drainage pump. The pump can start pumping if there is water with its level of 5mm or more and can continue pumping. Due to the major components are made of aluminum alloy and synthetic rubber, it is lightweight and easy to carry. The LSC and LSP prevent reverse-flow of the sucked water when the pump stops its operation. The LSP has a suction attachment, supplied as standard, makes the pump drain water down to floor level.



HSR

LSC

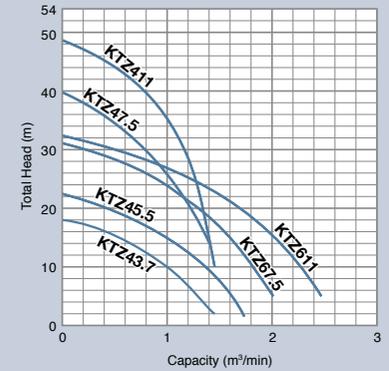
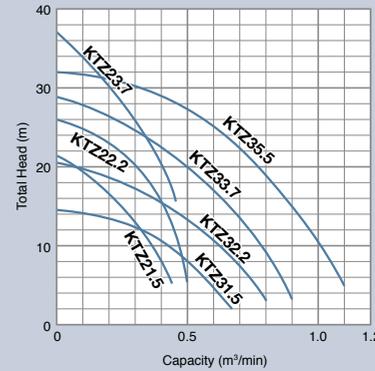
TECHNICAL DATA		HS2.4S HSZ2.4S	HS3.75S HSZ3.75S	HSD2.55S
Discharge Bore	mm	50	80(50)	50
Motor Output	kW	0.4	0.75	0.55
Phase		Single		
Starting Method		Capacitor Run		
Motor Protection		Miniature Thermal	Circle Thermal	
Impeller		Vortex made of urethane rubber		Vortex made of high-chromium iron
Voltage	V	230		
Current	A	3	5	4
Weight	kg	11.3	16.8	14
Cable Length	m	5		
L x W x H	mm	241 x 184 x 328 241 x 340 x 328	285 x 184 x 394 285 x 370 x 394	241 x 186 x 391

TECHNICAL DATA		HSR2.4S	LSC1.4S	LSP1.4S
Discharge Bore	mm	50	25	
Motor Output	kW	0.4	0.48	
Phase		Single		
Starting Method		Capacitor Run		
Motor Protection		Miniature Thermal		
Impeller		Vortex made of urethane rubber		
Voltage	V	230		
Current	A	3		
Weight	kg	10.8	12	16.5
Cable Length	m	5		
L x W x H	mm	227 x 162 x 282	196 x 196 x 316	300 x 265 x 307
Max. Vacuum	kPa	-		73.3

The KTZ-series is Tsurumi's flagship line of submersible pumps. Made with a cast iron body and high-chromium iron impeller, the pumps can withstand the most demanding conditions found in construction, aggregate and mining applications. Versatility is increased as each model has the capability of being easily converted between high head and high volume performance with a simple change of impeller, suction plate and hose coupling.

### Registration of Design

Tsurumi has registered the design of the KTZ-series in major countries. Design rights are granted under the laws of each country.



TECHNICAL DATA		KTZ21.5 KTZ31.5	KTZ22.2 KTZ32.2	KTZ23.7 KTZ33.7	KTZ35.5
Discharge Bore	mm	50 80			80
Motor Output	kW	1.5	2.2	3.7	5.5
Phase		Three			
Starting Method		Direct on Line			
Motor Protection		Circle Thermal			
Impeller		Semi-open made of high-chromium iron			
Voltage	V	400			
Current	A	3.5	5	7.7	11.4
Weight	kg	34 33	35 34	60	74
Cable Length	m	8			
L x W x H	mm	235 x 216 x 548	235 x 216 x 568	283 x 252 x 675	306 x 258 x 719

TECHNICAL DATA		KTZ43.7	KTZ45.5	KTZ47.5 KTZ67.5	KTZ411 KTZ611
Discharge Bore	mm	100		100 150	
Motor Output	kW	3.7	5.5	7.5	11
Phase		Three			
Starting Method		Direct on Line			
Motor Protection		Circle Thermal			
Impeller		Semi-open made of high-chromium iron			
Voltage	V	400			
Current	A	7.7	11.4	15	22
Weight	kg	60	74	101 100	130 131
Cable Length	m	8			
L x W x H	mm	283 x 252 x 690	306 x 258 x 734	330 x 314 x 812 361 x 314 x 874	374 x 350 x 864 374 x 350 x 884

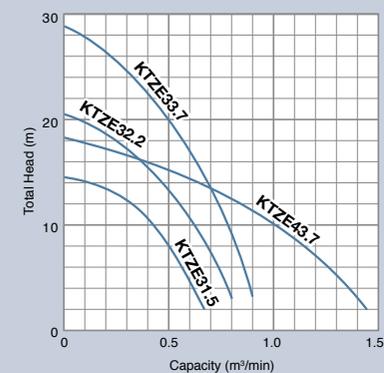
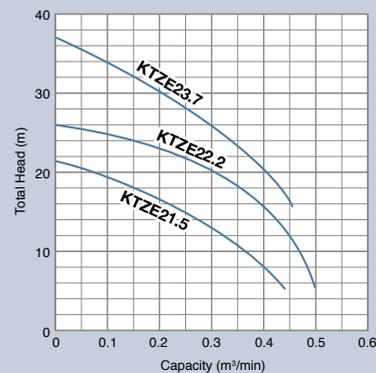
The KTZE-series is an automatic model of the KTZ-series. An innovative electrode type relay unit built into the pump automatically starts and stops the pump to eliminate dry-running. This mechanism greatly reduces power consumption and extends operating life!

### Registration of Design

Tsurumi has registered the design of the KTZ-series in major countries. Design rights are granted under the laws of each country.

### Electrode Control Device

Consisting of an electric probe and relay unit, this enables automatic operation, reduces power consumption and extends operating life.



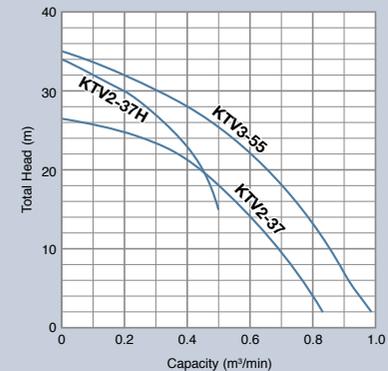
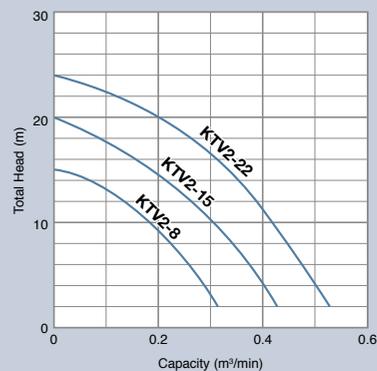
TECHNICAL DATA	KTZE21.5	KTZE22.2	KTZE23.7	
Discharge Bore	mm	50		
Motor Output	kW	1.5	2.2	3.7
Phase		Three		
Starting Method		Direct on Line		
Motor Protection		Circle Thermal		
Impeller		Semi-open made of high-chromium iron		
Voltage	V	400		
Current	A	3.5	5	7.7
Weight	kg	39	41	69
Cable Length	m	8		
L x W x H	mm	235 x 216 x 628	235 x 216 x 648	283 x 252 x 755

TECHNICAL DATA	KTZE31.5	KTZE32.2	KTZE33.7	KTZE43.7	
Discharge Bore	mm	80		100	
Motor Output	kW	1.5	2.2	3.7	
Phase		Three			
Starting Method		Direct on Line			
Motor Protection		Circle Thermal			
Impeller		Semi-open made of high-chromium iron			
Voltage	V	400			
Current	A	3.5	5	7.7	
Weight	kg	38	40	69	
Cable Length	m	8			
L x W x H	mm	235 x 216 x 628	235 x 216 x 648	283 x 252 x 755	283 x 252 x 770

# KTV

11-12

The KTV-series is a submersible three-phase portable drainage pump. Though it is a three-phase unit, the pump is designed to weigh lighter for portability, yet it can be used for pumping liquid found in ordinary construction and foundation works. The top-discharge, side-flow design assures efficient motor cooling even when it operates with its motor exposed to air. The slim design allows the pump to be placed in a confined space.



TECHNICAL DATA		KTV2-8	KTV2-15	KTV2-22
Discharge Bore	mm	50	50(80)	
Motor Output	kW	0.75	1.5	2.2
Phase		Three		
Starting Method		Direct on Line		
Motor Protection		Circle Thermal		
Impeller		Vortex made of urethane rubber	Vortex made of ductile iron	
Voltage	V	400		
Current	A	1.8	3.3	4.3
Weight	kg	11.5	21	23
Cable Length	m	5	8	
L x W x H	mm	200 x 200 x 369	240 x 240 x 396	240 x 240 x 416

TECHNICAL DATA		KTV2-37H	KTV2-37	KTV3-55
Discharge Bore	mm	50	80(100)	
Motor Output	kW	3.7		5.5
Phase		Three		
Starting Method		Direct on Line		
Motor Protection		Circle Thermal		
Impeller		Vortex made of ductile iron		
Voltage	V	400		
Current	A	7.4	11	
Weight	kg	36	47	
Cable Length	m	8		
L x W x H	mm	285 x 285 x 510		300 x 300 x 545

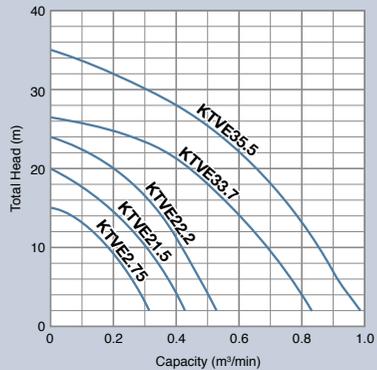
Three-phase

Portable

Automatic\*

# KTVE

The KTVE-series is an automatic model of the KTV-series. An innovative electrode type relay unit built into the pump automatically starts and stops the pump to eliminate dry-running. This mechanism greatly reduces power consumption and extends operating life!

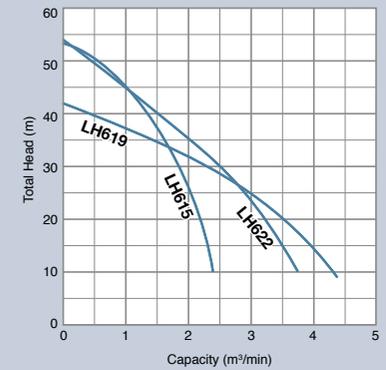
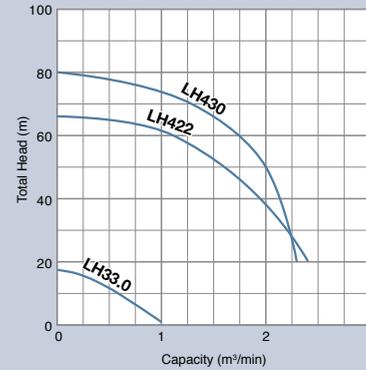


THOSE THAT  
KNOW QUALITY,  
KNOW TSURUMI.

TECHNICAL DATA		KTVE2.75	KTVE21.5	KTVE22.2	KTVE33.7	KTVE35.5
Discharge Bore	mm	50	50(80)		80(100)	
Motor Output	kW	0.75	1.5	2.2	3.7	5.5
Phase		Three				
Starting Method		Direct on Line				
Motor Protection		Circle Thermal				
Impeller		Vortex made of urethane rubber	Vortex made of ductile iron			
Voltage	V	400				
Current	A	1.8	3.3	4.3	7.4	11
Weight	kg	12.7	21.5	24.5	39.5	52
Cable Length	m	5	8			
L x W x H	mm	200 x 200 x 417	240 x 240 x 426		285 x 285 x 585	300 x 300 x 620

The LH-series is a submersible three-phase cast iron high head drainage pump. Being the pump cylindrical and slim, it can be installed in a well casing for deep well dewatering. The center flange construction assures a stable installation even if it is fixed by the discharge pipe. The top-discharge, flow-thru design provides maximum motor cooling efficiency allowing continuous operation at low water levels and extended dry-run capability. The pump incorporates seal pressure relief ports that prevent the pumping pressure from applying to the shaft seal.\*

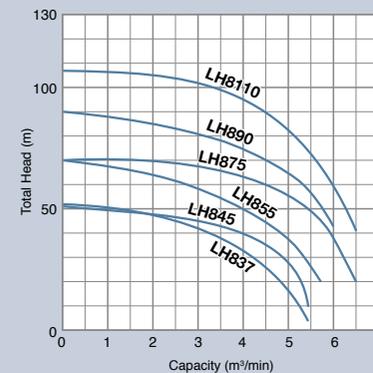
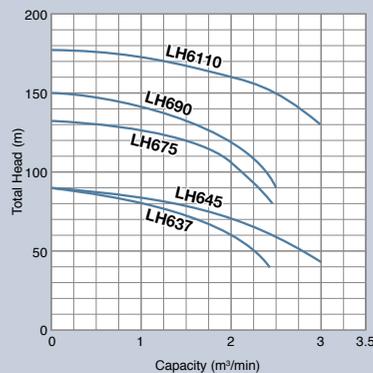
\* excluding LH33.0



TECHNICAL DATA		LH33.0	LH422	LH430
Discharge Bore	mm	80	100	
Motor Output	kW	3	22	30
Phase		Three		
Starting Method		Direct on Line		Star-Delta
Motor Protection		Circle Thermal		Miniature Thermal
Impeller		Semi-open made of high-chromium iron	Closed made of high-chromium iron	
Voltage	V	400		
Current	A	6.5	40.5	55
Weight	kg	42	350	355
Cable Length	m	20	10	
L x W x H	mm	185 x 185 x 645	420 x 420 x 1352	

TECHNICAL DATA		LH615	LH619	LH622
Discharge Bore	mm	150		
Motor Output	kW	15	19	22
Phase		Three		
Starting Method		Direct on Line		
Motor Protection		Circle Thermal		
Impeller		Closed made of high-chromium iron		
Voltage	V	400		
Current	A	27.5	36	40.5
Weight	kg	213	350	360
Cable Length	m	10		
L x W x H	mm	330 x 330 x 1014	420 x 420 x 1423	

The LH-series is a submersible three-phase cast iron high head drainage pump. Being the pump cylindrical and slim, it can be installed in a well casing for deep well dewatering. The center flange construction assures a stable installation even if it is fixed by the discharge pipe. The top-discharge, flow-thru design provides maximum motor cooling efficiency allowing continuous operation at low water levels and extended dry-run capability. The pump incorporates seal pressure relief ports that prevent the pumping pressure from applying to the shaft seal.



TECHNICAL DATA	LH637	LH645	LH675	LH690	LH6110
Discharge Bore	mm 150				
Motor Output	kW 37	45	75	90	110
Phase	Three				
Starting Method	Star-Delta				
Motor Protection	Miniature Thermal				
Impeller	Closed made of high-chromium iron				
Voltage	V 400				
Current	A 67	81	130	166	205
Weight	kg 495	510	865	1100	1200
Cable Length	m 10			20	
L x W x H	mm 530 x 530 x 1448		563 x 563 x 1716		592 x 592 x 1787

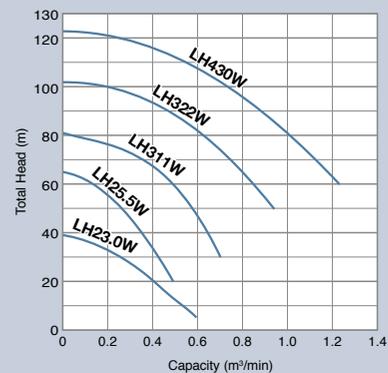
TECHNICAL DATA	LH837	LH845	LH855	LH875	LH890	LH8110
Discharge Bore	mm 200					
Motor Output	kW 37	45	55	75	90	110
Phase	Three					
Starting Method	Star-Delta					
Motor Protection	Miniature Thermal					
Impeller	Closed made of high-chromium iron					
Voltage	V 400					
Current	A 67	81	100	130	166	205
Weight	kg 495	510	810	865	1150	1250
Cable Length	m 10				20	
L x W x H	mm 530 x 530 x 1448		563 x 563 x 1716		592 x 592 x 1787	

# LH-W

19-20

The LH-W-series is a submersible three-phase cast iron extra high head drainage pump having dual impellers. Being the pump cylindrical and slim, it can be installed in a well casing for deep well dewatering. The center flange construction assures a stable installation even if it is fixed by the discharge pipe. The pump incorporates seal pressure relief ports that prevent the pumping pressure from applying to the shaft seal.\*

\* excluding LH23.0W



TECHNICAL DATA	LH23.0W	LH25.5W	LH311W	LH322W
Discharge Bore mm	50		80	
Motor Output kW	3	5.5	11	22
Phase	Three			
Starting Method	Direct on Line			
Motor Protection	Circle Thermal			
Impeller	Dual semi-open	Dual closed made of high-chromium iron		
Voltage V	400			
Current A	6.5	11	22	39
Weight kg	46	80	130	304
Cable Length m	20			
L x W x H mm	185 x 185 x 630	254 x 254 x 750	270 x 270 x 1024	330 x 330 x 1235

TECHNICAL DATA	LH430W	LH4110W
Discharge Bore mm	100	
Motor Output kW	30	110
Phase	Three	
Starting Method	Star-Delta	
Motor Protection	Miniature Thermal	
Impeller	Dual closed made of high-chromium iron	Dual back-to-back closed made of high-chromium iron
Voltage V	400	
Current A	53	209
Weight kg	324	1270
Cable Length m	20	
L x W x H mm	365 x 365 x 1375	616 x 616 x 1825

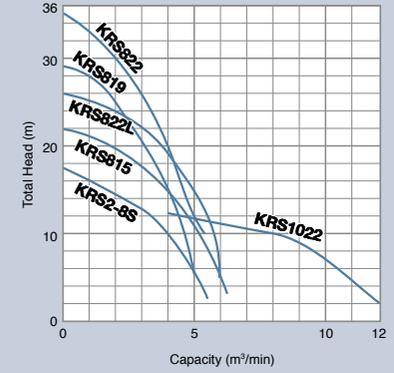
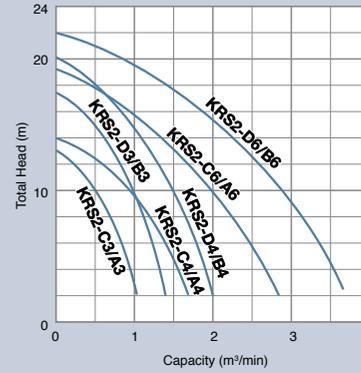
# KRS

The KRS-series is a submersible three-phase cast iron drainage pump driven by a 4-pole motor. The cast iron body, combined with the low speed motor, presents high durability for use in the most demanding conditions. The top-discharge, side-flow design assures efficient motor cooling even if the pump runs with its motor exposed to air.\*

\* Model KRS1022 is a top-discharge, flow-thru design. It provides maximum motor cooling efficiency allowing continuous operation at low water levels and extended dry-run capability.



KRS1022

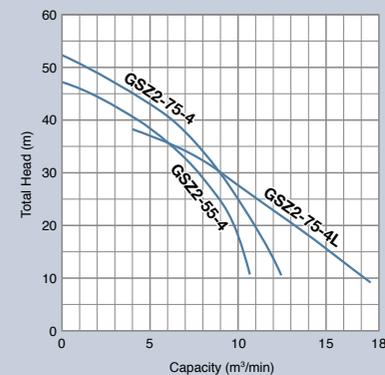
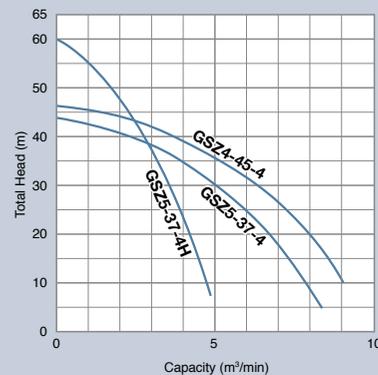


TECHNICAL DATA	KRS2-C3/A3	KRS2-D3/B3	KRS2-C4/A4	KRS2-D4/B4	KRS2-C6/A6	KRS2-D6/B6
Discharge Bore mm	80		100		150	
Motor Output kW	2.2	3.7		5.5	7.5	11
Phase	Three					
Starting Method	Direct on Line					
Motor Protection	Circle Thermal					
Impeller	Semi-open made of ductile iron					
Voltage V	400					
Current A	5.1	8		12.1	15	22
Weight kg	72	91	88	98	130	158
Cable Length m	8					
L x W x H mm	340 x 315 x 620	365 x 350 x 705	350 x 320 x 720	365 x 350 x 710	415 x 373 x 767	434 x 407 x 813

TECHNICAL DATA	KRS2-8S	KRS815	KRS819	KRS822	KRS822L	KRS1022
Discharge Bore mm	200					250
Motor Output kW	11	15	18.5	22		
Phase	Three					
Starting Method	Direct on Line					
Motor Protection	Circle Thermal					
Impeller	Semi-open made of ductile iron					Closed
Voltage V	400					
Current A	22	31.9	35.5	44.6		45.7
Weight kg	174	240	360	380		390
Cable Length m	8			10		
L x W x H mm	473 x 409 x 933	481 x 440 x 1069		576 x 530 x 1241		525 x 525 x 1419

# GSZ-4

The GSZ-4-series is a submersible three-phase cast iron high volume drainage pump driven by a 4-pole motor. The side-discharge, spiral design allows smoother passage of the sucked solid matters. The motor is cooled by a water jacket allows the pump to operate at low water levels for extended period of time without the fear of overheating. The pump incorporates seal pressure relief ports that prevent the pumping pressure from applying to the shaft seal.

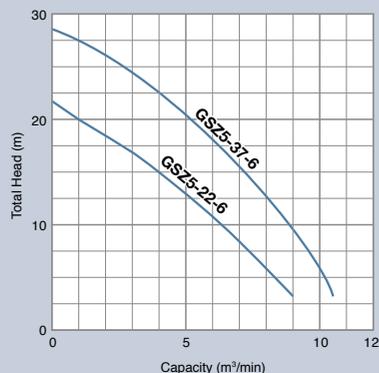


TECHNICAL DATA		GSZ5-37-4H	GSZ5-37-4	GSZ4-45-4
Discharge Bore	mm	150	200	
Motor Output	kW	37		45
Phase		Three		
Starting Method		Star-Delta		
Motor Protection		Miniature Thermal		
Impeller		Closed made of cast 304 stainless steel	Closed made of high-chromium iron	
Voltage	V	400		
Current	A	76		87
Weight	kg	595	566	583
Cable Length	m	10		
L x W x H	mm	900 x 700 x 1553	915 x 660 x 1583	915 x 660 x 1591

TECHNICAL DATA		GSZ2-55-4	GSZ2-75-4	GSZ2-75-4L
Discharge Bore	mm	250		
Motor Output	kW	55	75	
Phase		Three		
Starting Method		Star-Delta		
Motor Protection		Miniature Thermal		
Impeller		Closed made of high-chromium iron	Closed made of cast 304 stainless steel	
Voltage	V	400		
Current	A	108	152	
Weight	kg	1091	1141	1200
Cable Length	m	10		
L x W x H	mm	1050 x 708 x 1927		1050 x 739 x 1972

# GSZ-6

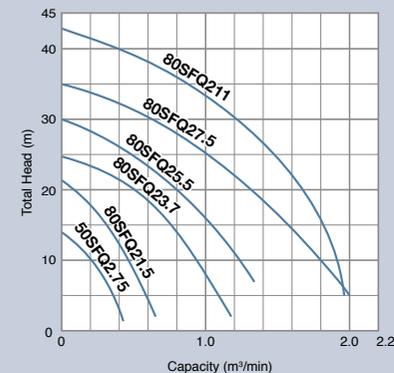
The GSZ-6-series is a submersible three-phase high power drainage pump driven by a 6-pole motor. In combination with abrasion-resistant wear parts, the very low speed motor ensures extremely long wear life. The side-discharge, spiral design allows smoother passage of the sucked solid matters. The motor is cooled by a water jacket allows the pump to operate at low water levels for extended period of time without the fear of overheating. The pump incorporates seal pressure relief ports that prevent the pumping pressure from applying to the shaft seal.



# SFQ

25-26

The SFQ-series is a submersible cast stainless steel high head corrosion-resistant pump designed for handling aggressive and corrosive liquid. The all wetted parts are made of 316 stainless steel, the pumps can withstand the most demanding conditions found in construction, aggregate and mining applications. The side-discharge, spiral design allows smoother passage of the sucked solid matters. The pump with 5.5kW and above motor incorporates seal pressure relief ports that prevent the pumping pressure from applying to the shaft seal.



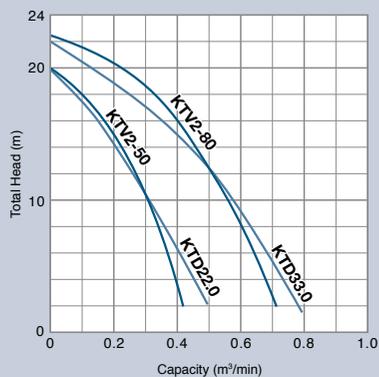
TECHNICAL DATA	GSZ5-22-6	GSZ5-37-6
Discharge Bore mm	200	
Motor Output kW	22	37
Phase	Three	
Starting Method	Direct on Line	Star-Delta
Motor Protection	Miniature Thermal	
Impeller	Semi-open made of high-chromium iron	
Voltage V	400	
Current A	47	79
Weight kg	685	796
Cable Length m	10	
L x W x H mm	965 x 720 x 1360	1047 x 804 x 1421

TECHNICAL DATA	50SFQ2.75	80SFQ21.5	80SFQ23.7	80SFQ25.5	80SFQ27.5	80SFQ211
Discharge Bore mm	50	80				
Motor Output kW	0.75	1.5	3.7	5.5	7.5	11
Phase	Three					
Starting Method	Direct on Line					Star-Delta
Motor Protection	Circle Thermal					Miniature Thermal
Impeller	Semi-open made of cast 316 stainless steel					
Voltage V	400					
Current A	2	3.8	7.3	11.3	14.3	21
Weight kg	22	36	52	124	123	143
Cable Length m	6			8		
L x W x H mm	252 x 196 x 398	329 x 221 x 484	359 x 257 x 542	635 x 360 x 844		635 x 360 x 892

# KTD·KTV

The KTD-series is a submersible three-phase cast iron heavy-duty slurry pump. It is equipped with an agitator that suspends solids to assist in pumping sediments. The pump parts such as the impeller and the suction cover are made of wear-resistant materials.

The KTV-series of slurry-handling type is a submersible three-phase portable slurry pump. Though the pump is a three-phase unit, it is designed to weigh lighter for portability, yet it can be used for pumping slurry. The top-discharge, side-flow design assures efficient motor cooling even if the pump runs with its motor exposed to air.



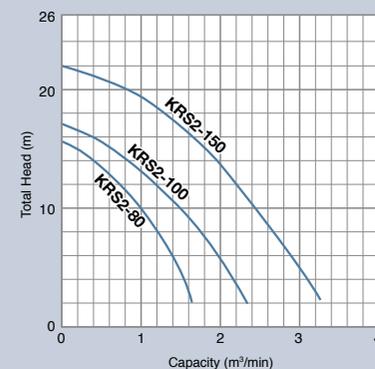
KTD KTV

TECHNICAL DATA	KTD22.0	KTD33.0	KTV2-50	KTV2-80
Discharge Bore mm	50	80	50(80)	80(100)
Motor Output kW	2	3	2	3
Phase	Three			
Starting Method	Direct on Line			
Motor Protection	Circle Thermal			
Impeller	Semi-open made of high-chromium iron		Vortex made of high-chromium iron	
Voltage V	400			
Current A	4.5	6.5	3.8	6.1
Weight kg	38	65	25	38
Cable Length m	8			
L x W x H mm	235 x 221 x 550	297 x 266 x 644	250 x 250 x 450	295 x 295 x 550

# KRS

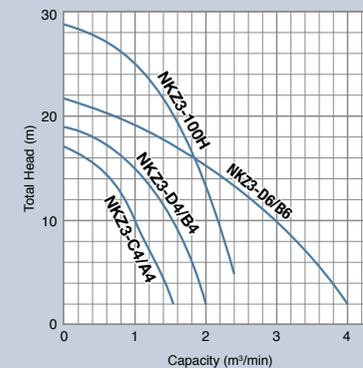
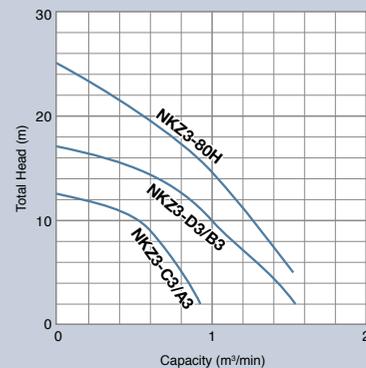
27-28

The KRS-series of slurry-handling type is a submersible three-phase cast iron heavy-duty slurry pump driven by a 4-pole motor. It is equipped with a high-chromium iron agitator that suspends solids to assist in pumping sediments. The other wear parts such as the impeller and the suction plate are also made of high-chromium cast iron for extra durability. The top-discharge, side-flow design assures efficient motor cooling even if the pump runs with its motor exposed to air.



TECHNICAL DATA	KRS2-80	KRS2-100	KRS2-150
Discharge Bore mm	80	100	150
Motor Output kW	4	6	9
Phase	Three		
Starting Method	Direct on Line		
Motor Protection	Circle Thermal		
Impeller	Semi-open made of high-chromium iron		
Voltage V	400		
Current A	9.5	13	18.5
Weight kg	105	143	170
Cable Length m	8		
L x W x H mm	349 x 326 x 800	415 x 374 x 835	433 x 407 x 898

The NKZ-series is a submersible three-phase cast iron slurry pump driven by a 4-pole motor. It is equipped with an agitator that assists smooth suction of settled matters. The side-discharge, spiral design allows smoother passage of the sucked solid matters. The motor is cooled by a water jacket that assures efficient motor cooling even when it operates with its motor exposed to air.

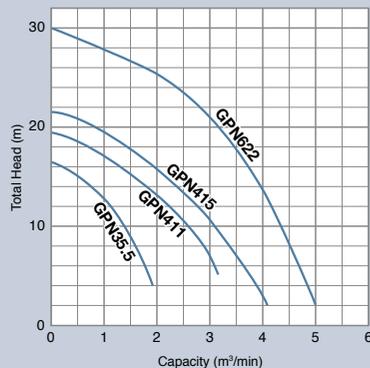


TECHNICAL DATA	NKZ3-C3/A3	NKZ3-D3/B3	NKZ3-80H
Discharge Bore mm	80		
Motor Output kW	2.2	3.7	5.5
Phase	Three		
Starting Method	Direct on Line		
Motor Protection	Circle Thermal		
Impeller	Semi-open made of ductile iron		Semi-open made of high-chromium iron
Voltage V	400		
Current A	5.1	8	12.1
Weight kg	91	100	132
Cable Length m	8		
L x W x H mm	466 x 368 x 664	466 x 368 x 709	491 x 400 x 753

TECHNICAL DATA	NKZ3-C4/A4	NKZ3-D4/B4	NKZ3-100H	NKZ3-D6/B6
Discharge Bore mm	100			150
Motor Output kW	3.7	5.5	11	
Phase	Three			
Starting Method	Direct on Line			
Motor Protection	Circle Thermal			
Impeller	Semi-open made of ductile iron	Semi-open made of high-chromium iron	Semi-open made of ductile iron	
Voltage V	400			
Current A	8	12.1	22	22
Weight kg	97	115	196	192
Cable Length m	8			
L x W x H mm	466 x 368 x 709	482 x 382 x 714	546 x 413 x 840	618 x 449 x 797

# GPN

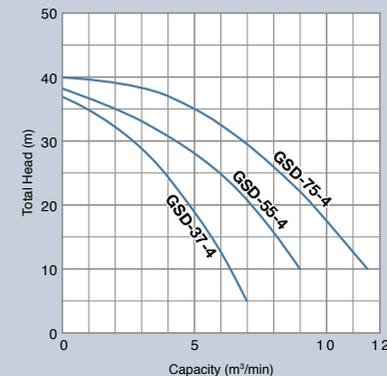
The GPN-series is a submersible three-phase, heavy-duty slurry pump incorporating an agitator to suspend solids enabling the pump to handle high concentration slurries. Being equipped with high-chromium cast iron wear parts, the pump delivers outstanding durability. The side-discharge, spiral design allows smoother passage of the sucked solid matters. The motor is cooled by a water jacket allows the pump to operate at low water levels for extended period of time without the fear of overheating.



# GSD

31-32

The GSD-series is a submersible three-phase high volume slurry pump incorporating an agitator to suspend solids enabling the pump to handle high concentration slurries. Being equipped with high-chromium cast iron wear parts, the pump delivers outstanding durability. The side-discharge, spiral design allows smoother passage of the sucked solid matters. The motor is cooled by a water jacket allows the pump to operate at low water levels for extended period of time without the fear of overheating. The pump incorporates seal pressure relief ports that prevent the pumping pressure from applying to the shaft seal.



TECHNICAL DATA	GPN35.5	GPN411	GPN415	GPN622
Discharge Bore mm	80	100		150
Motor Output kW	5.5	11	15	22
Phase	Three			
Starting Method	Direct on Line			
Motor Protection	Circle Thermal			Miniature Thermal
Impeller	Semi-open made of high-chromium iron			
Voltage V	400			
Current A	12.1	22	28.5	42.5
Weight kg	145	217	220	415
Cable Length m	8		10	
L x W x H mm	487 x 390 x 796	617 x 452 x 879		725 x 572 x 1102

TECHNICAL DATA	GSD-37-4	GSD-55-4	GSD-75-4
Discharge Bore mm	200	250	
Motor Output kW	37	55	75
Phase	Three		
Starting Method	Star-Delta		
Motor Protection	Miniature Thermal		
Impeller	Closed made of high-chromium iron		
Voltage V	400		
Current A	76	108	152
Weight kg	685	1100	1215
Cable Length m	10		
L x W x H mm	915 x 660 x 1583	1050 x 708 x 1927	

# Options

## Seawater-resistant version

Pumps can be combined with a seawater-resistant kit that adds a "galvanic anode" and "seawater-resistant special cast iron impeller," and enables about two years of service\*.

\* The service period depends on operating conditions.

## High voltage version

Pumps can be fabricated to 690V or 1000V ratings that are often required for mining applications. The pumps meet mining safety standards as they come with shielded cables and motors with built-in diodes for ground-fault checks.

## High temperature liquid version

Pumps are applicable to high temperature liquids of up to 90°C. Pumps of the standard specification can discharge liquids of up to 40°C.

## Corrosion-resistant version

Pumps can be fabricated with all fluid-contacting parts made of 316 stainless steel, including the impeller, pump casing, motor frame, outer cover, strainer stand, and flange.

For applicable models and details, contact your dealer.

## Recommended Generator Sizes

### Single-phase

Model	Motor Output (kW)	50Hz	60Hz	Model	Motor Output (kW)	50Hz	60Hz
		230V	220V			230V	220V
		AC Max. Output at starting (kVA)					
LB-480(A)	0.48	1.6	1.5	HS(Z)2.4S	0.4	1.6	1.5
LB-800(A)	0.75	2.4	2.8	HS(Z)3.75S	0.75	3.4	4.0
LB-1500	1.5	12	9.1	HSD2.55S	0.55	2.5	2.6
NK2-15	1.5	11	12	HSR2.4S	0.4	1.6	1.5
NK3-22	2.2	12	12	LSC1.4S	0.48	1.6	1.5
NK3-22L	2.2	12	12	LSP1.4S	0.48	1.6	1.5

### Three-phase

Model	Motor Output (kW)	50Hz	60Hz	Model	Motor Output (kW)	50Hz	60Hz
		400V	380V			400V	380V
		AC Max. Output at starting (kVA)					
KTZ(E)21.5 / 31.5	1.5	7.6	6.9	KRS2-C3 / A3	2.2	11	11
KTZ(E)22.2 / 32.2	2.2	12	11	KRS2-D3 / B3	3.7	17	17
KTZ(E)23.7 / 33.7 / 43.7	3.7	20	17	KRS2-C4 / A4	3.7	17	17
KTZ35.5 / 45.5	5.5	29	24	KRS2-D4 / B4	5.5	30	28
KTZ47.5 / 67.5	7.5	41	33	KRS2-C6 / A6	7.5	32	34
KTZ411 / 611	11	53	43	KRS2-D6 / B6	11	54	49
KTV2-8	0.75	3.7	3.9	KRS2-8S	11	54	49
KTV2-15	1.5	6.6	8.0	KRS815	15	72	60
KTV2-22	2.2	10	11	KRS819	19	86	68
KTV2-37(H)	3.7	17	20	KRS822(L)	22	109	83
KTV3-55	5.5	23	24	KRS1022	22	89	72
KTVE2.75	0.75	3.7	3.9	GSZ5-37-4(H)	37	*177	*143
KTVE21.5	1.5	6.6	8.0	GSZ4-45-4	45	*215	*171
KTVE22.2	2.2	10	11	GSZ2-55-4	55	*381	*416
KTVE33.7	3.7	17	20	GSZ2-75-4(L)	75	*381	*416
KTVE35.5	5.5	23	24	GSZ5-22-6	22	111	87
LH33.0	3	16	14	GSZ5-37-6	37	*170	*135
LH615	15	59	55	KTD22.0	2	12	11
LH619	19	87	83	KTD33.0	3	20	17
LH422 / 622	22	100	94	KTV2-50	2	10	11
LH430	30	135	125	KTV2-80	3	17	20
LH637 / 837	37	*159	*142	KRS2-80	4	30	28
LH645 / 845	45	*208	*184	KRS2-100	6	32	34
LH855	55	*272	*214	KRS2-150	9	54	49
LH675 / 875	75	*350	*276	NKZ3-C3 / A3	2.2	11	11
LH690 / 890	90	*381	*294	NKZ3-D3 / B3	3.7	17	17
LH6110 / 8110	110	*473	*485	NKZ3-C4 / A4	3.7	17	17
LH23.0W	3	16	14	NKZ3-80H	5.5	30	28
LH25.5W	5.5	23	22	NKZ3-D4 / B4	5.5	30	28
LH311W	11	47	45	NKZ3-100H	11	54	49
LH322W	22	100	94	NKZ3-D6 / B6	11	54	49
LH430W	30	135	125	GPN35.5	5.5	30	28
LH4110W	110	*473	*485	GPN411	11	54	49
50SFQ2.75	0.75	4.0	4.7	GPN415	15	54	49
80SFQ21.5	1.5	12	11	GPN622	22	100	82
80SFQ23.7	3.7	20	17	GSD-37-4	37	*177	*143
80SFQ25.5	5.5	29	24	GSD-55-4	55	*381	*416
80SFQ27.5	7.5	41	33	GSD-75-4	75	*381	*416
80SFQ211	11	*55	*45				

\*In the case of Star-Delta starting, divide them by 1.5.

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