TSURUMI PUMP
STRONGER FOR LONGER

CONSTRUCTION & MINING

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Tsurumi Manufacturing Co., Ltd.

Tsurumi Manufacturing Co., Ltd. was founded in Osaka, JAPAN 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 having the capacity of 1,000,000 unit a year.
Also, other cutting-edge plants in Yonago(Japan), Taiwan, China, Korea and Vietnam that are capable of mass-producing products. All plants work together to form a highly efficient production system.

Global Network

Tsurumi introduced its overseas strategy in the 1960s. Our technical capabilities gained recognition first in Asia in the 1970s and then in the United States and Europe in the 1980s. 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

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Belgium
Tsurumi BELGIUM

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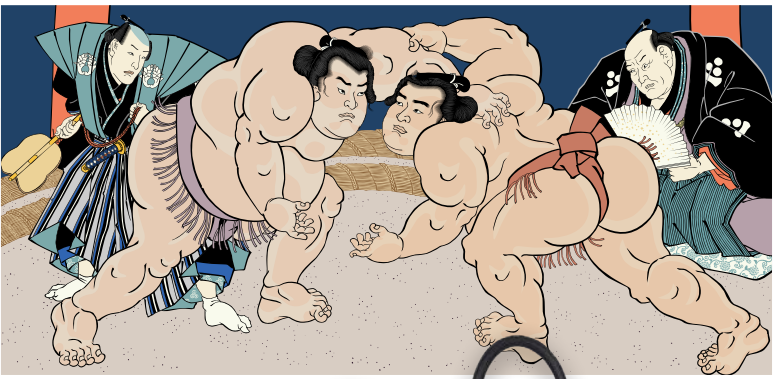
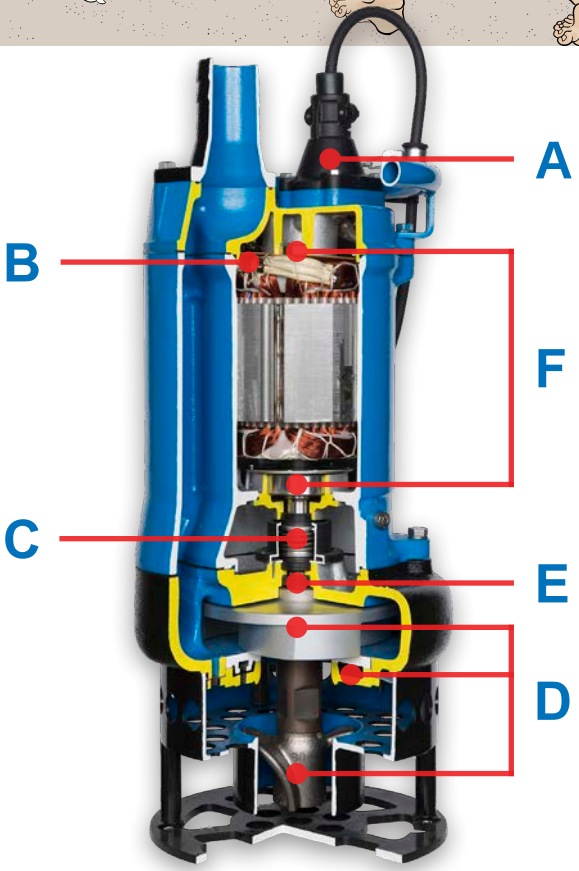
Table of Contents

Tsurumi Features

LEARN MORE
Unique Features

WHAT MAKES TSURUMI PUMP STRONGER FOR LONGER





A. Anti-Wicking Cable Entry

Anti Wicking Cable Entry which protects and encapsulates all wire connections within a rubber mould or epoxy potting system. This system negates the risk of water incursion into the motor caused by capillary wicking preventing damage occurring when the pump in submerged.

Small sized pumps: Rubber Mould system
Medium and Large sized pumps: Epoxy Potting system

B. Built-in Thermal Motor Protector

Built-in motor protection device is equipped across the full range, adopting either a Circle Thermal Protector (CTP) or a Miniature Thermal Protector (MTP) depending on the specific model required. This protects the motor against dry-running & overheating.
This built in snap action device provides the first line of defense against motor damage.

C. Dual Inside Mechanical Seal with Silicon Carbide Faces

Following many years of Tsurumi research & development including rigorous testing, the Dual Inside Mechanical Seal with Silicon Carbide face design has proven to be the most durable and effective method, providing 5x higher corrosion, wear and heat resistance than tungsten carbide options.
Both upper & lower seals are isolated in the oil chamber where a clean, non-corrosive and abrasion-free lubricating environment is maintained.

D. Wear Resistant Material

Conditions found within many industries such as construction and mining require pumps to be very hard wearing and durable. Tsurumi use only premium grade components and materials such as high-chrome cast iron impellers as standard in models designed for such applications.
Being highly resistant against the harmful effects of abrasive particles, it significantly reduces wear and increases the life-time of the pump, whilst ensuring optimum performance and reliability, reducing whole life cost of ownership.

E. Shaft Sleeve / Lip Seal (Oil Seal / V-ring)

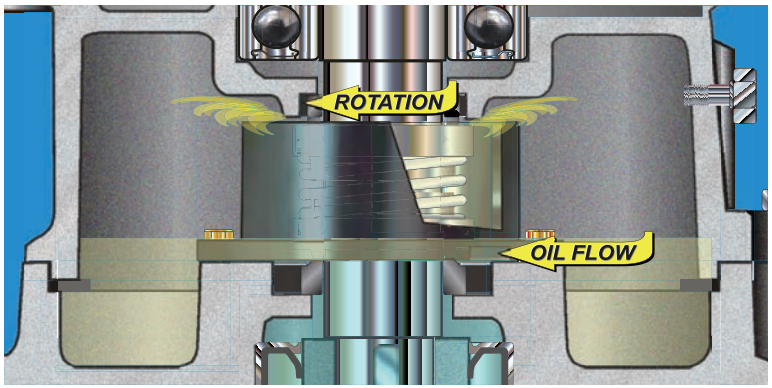
Shaft Sleeve provide a better countermeasure against wear caused by high pressure generated in the casing and improve the maintainability.
Lip seal used as a “Dust Seal” protects the mechanical seal from abrasive particles.

F. Long Lasting Bearings

Industry leading double shielded bearings with B-10 life rating of 60,000 hours. Permanently lubricated ensuring to withstand high temperatures, providing a long-lasting and reliable performance.

Oil Lifter (Designed by Tsurumi)

The Oil Lifter is a Tsurumi developed innovative device that is positioned around the mechanical seal which provides perfect lubrication to upper seal faces even if the lubricant reduces to as low as 1/3 of the rated volume, extending the lifespan of the Mechanical Seal. The combination of dual inside mechanical seal structure and oil lifter technology prevents seal damage from dry-run conditions.
Even if the pump is orientated horizontally, seal faces remain lubricated, prolonging the pump life and ensuring maximum performance while being used at any angle.



Benefits of Oil Lifter

- Simple construction & No extra energy is required
- Creates lubrication with a reduced volume of oil, even with 1/3 of the rated volume
- Possible to extend the intervals of inspection and replacement of oil twice as long as the current device. (example of the inspection cycle: from 3,000 hours to 6,000 hours*)
- Life expectancy of the mechanical seal is more than twice of what it was

Effect given by Oil Lifter

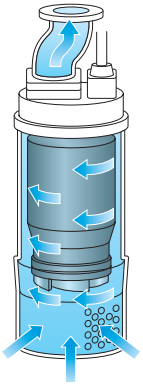
	WITHOUT Oil Lifter	WITH Oil Lifter
Inspection of Oil	Every 3000 hours	Every 6000 hours
Replacement of Oil	Every 6000 hours	Every 9000 hours
Replacement of Mechanical Seal	Every 1 year	Every 2 years

* Wastewater pump with a 4-pole motor

Discharge Types of Tsurumi Pump

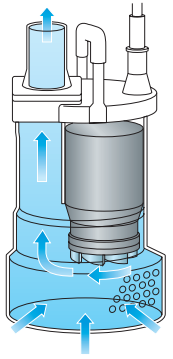
Flow-Thru Design

The pumped liquid is allowed to flow around the motor, thus cooling the motor on its way to the top discharge. This design feature produces a high cooling effect in operation at low water levels. It also allows the overall diameter of the pump to be reduced for installation in tightly confined spaces.



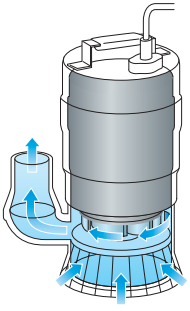
Side Flow Design

Cast as an integral part of the motor frame, the side discharge channel allows liquid to cool the motor as it flows past the inner motor frame. This design feature permits the unit to operate at low water levels for extended periods of time, and allows the overall diameter of the pump to be reduced for installation in confined spaces.



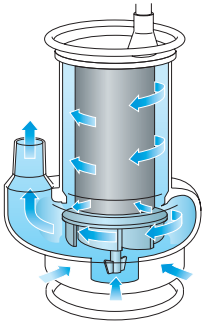
Spiral Design

The pump has a spiral pump casing that facilitates smoother passage of solid matters like mud and soil contained in the pumped liquid. It is a simple and practical design that facilitates inspection and repair work.



Spiral Design with Water Jacket

The pump has a spiral pump casing that facilitates smoother passage of solid matters like mud and soil contained in the pumped liquid. The pump is equipped with a water jacket, around the motor frame. A portion of the pumped liquid is allowed to flow into the water jacket to cool the motor. This design feature permits the unit to operate at low water levels for extended periods of time.

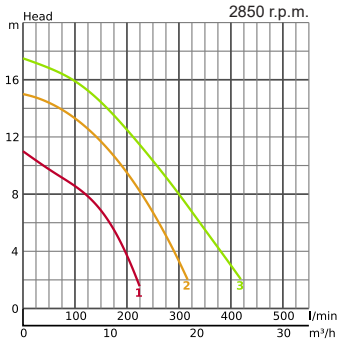


Single-phase | Flow-thru | (Automatic)

LB / LBA / LB-A

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 dryrunning. This mechanism greatly reduces power consumption and extends operating life.



LB LB-A LBA

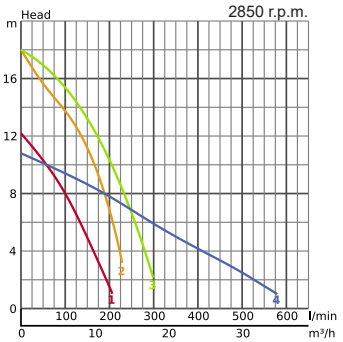
TECHNICAL DATA		1 LB(A)-480 LB-480A	2 LB(A)-800 LB-800A	3 LB-1500
Discharge Bore	mm	50		
Motor Output	kW	0.48	0.75	1.5
Phase		Single		
Starting Method		Capacitor Run		Capacitor Start
Motor Protection		Miniature Thermal	Circle Thermal	
Impeller		Semi-Vortex | Urethane Rubber (LB-1500: High-Chromium Iron)		
Solid Passage	mm	6		
Voltage	V	230		
Current	A	2.9	4.5	15.4
Weight	kg	10.4 (10.7) | 11	13.1 (13.4) | 13.7	33
Cable Length	m	10		20
L x W x H	mm	195 x 187 x 353 223 x 187 x 353	192 x 187 x 408 223 x 187 x 408	187 x 187 x 593

Single-phase | Spiral | (Automatic)

HS / HSA

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.

A single float switch can be easily mounted on the HS (=HSA) for the automatic operation, reduces power consumption and extends operating life.



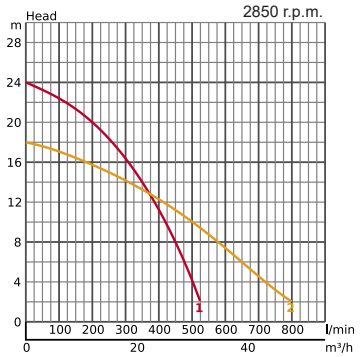
HS HSA

TECHNICAL DATA		1 HS(A)2.4S	2 HS(A)2.75S	3 HS3.75S 4 HS3.75SL
Discharge Bore	mm	50		80
Motor Output	kW	0.4	0.75	
Phase		Single		
Starting Method		Capacitor Run		
Motor Protection		Miniature Thermal	Circle Thermal	
Impeller		Semi-Vortex | Urethane Rubber		
Solid Passage	mm	7		
Voltage	V	230		
Current	A	2.6	4.8	
Weight	kg	11.3 (11.6)	19.0 (19.3)	19.6 | 21.6
Cable Length	m	10		
L x W x H	mm	264 x 184 x 358	290 x 184 x 424	316 x 184 x 424 316 x 184 x 455

NK

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.

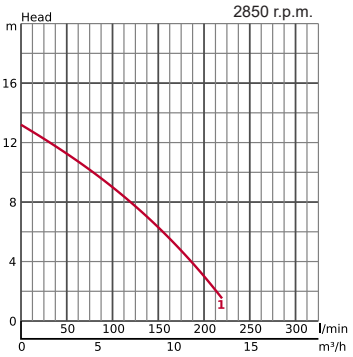


TECHNICAL DATA		1 NK4-22	2 NK3-22L
Discharge Bore	mm	50	80
Motor Output	kW	2.2	
Phase		Single	
Starting Method		Capacitor Start + Capacitor Run	
Motor Protection		Circle Thermal	
Impeller		Semi-Vortex | Ductile Iron	Semi-Open | High-Chrome
Solid Passage	mm	8.5	
Voltage	V	230	
Current	A	14.6	14.5
Weight	kg	29	40
Cable Length	m	20	
L x W x H	mm	240 x 240 x 614	236 x 216 x 719

HSD / HSDA

HSD-series is suitable for sand and slurry use. An incorporated impeller and agitator are made of high-chronium cast iron. The agitator installed on the motor shaft extension forcibly agitates the fluid for easy and efficient transmission of sludge and slurry.

A single float switch can be easily mounted on the HSD (=HSDA) for the automatic operation, reduces power consumption and extends operating life.



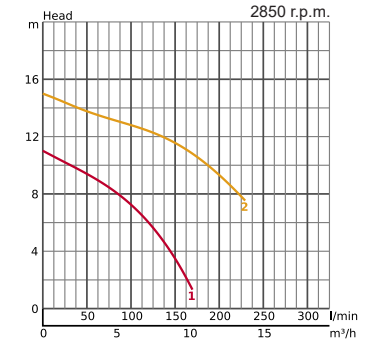
HSD HSDA

TECHNICAL DATA		1 HSD(A)2.55S
Discharge Bore	mm	50
Motor Output	kW	0.55
Phase		Single
Starting Method		Capacitor Run
Motor Protection		Circle Thermal
Impeller		Semi-Vortex | High-Chromium Iron
Solid Passage	mm	9
Voltage	V	230
Current	A	3.4
Weight	kg	14 (14.3)
Cable Length	m	10
L x W x H	mm	264 x 186 x 421

LSC(E)

LSC-series is a submersible single-phase portable residue drainage pump. The pump can start pumping if there is water with its level of 1mm or more and can continue pumping. Due to the major components are made of aluminum alloy and synthetic rubber, it is light-weight and easy to carry. The LSC prevents reverse flow of the sucked water when the pump stops its operation.

The LSCE is an automatic pump with an innovative electrode type relay unit built into the pump.



* Curve shows the pump performance while operating in a hanging condition without any restriction to the suction.

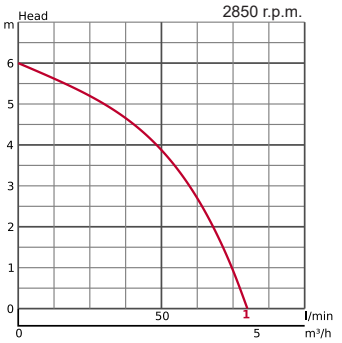
LSC LSCE

TECHNICAL DATA		1 LSC(E)1.4S	2 LSC(E)2.75S
Discharge Bore	mm	25	50
Motor Output	kW	0.4	0.75
Phase		Single	
Starting Method		Capacitor Run	
Motor Protection		Miniature Thermal	Circle Thermal
Impeller		Semi-Vortex | Urethane Rubber	
Solid Passage	mm	---	
Voltage	V	230	
Current	A	2.9	4.5
Weight	kg	12 (12.6)	15.2 (15.8)
Cable Length	m	10	
L x W x H	mm	196(227) x 196 x 383	197(227) x 196 x 438

FAMILY

FAMILY-series is a submersible single-phase portable drainage pumps. In addition to the 25mm hose coupling, it also comes with an easy-to-attach 15mm hose coupling as a standard accessory.

Moreover, it can be used as a residue pump and drain water to 1mm in depth by attaching the optional residue adapter to the pump casing.

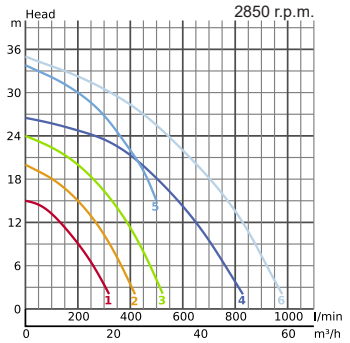


Residue Adaptor

TECHNICAL DATA		1 FAMILY-12
Discharge Bore	mm	15 / 25
Motor Output	kW	0.1
Phase		Single
Starting Method		Capacitor Run
Motor Protection		Miniature Thermal
Impeller		Semi-Vortex | Glass-fibre Reinforced Resin
Solid Passage	mm	---
Voltage	V	230
Current	A	1.3
Weight	kg	3.4
Cable Length	m	10
L x W x H	mm	157 x 157 x 256

KTV / KTVE

KTV-series is a submersible three-phase portable drainage pump. The pump body is made of die-casted aluminium alloy, which is extremely advantageous in terms of portability. The sleeves that protect the pump casing, oil casing and water passages are made of synthetic rubber as a consideration against wear. The top discharge, side flow design assures efficient motor cooling even when it operates with its motor exposed in air. The slim design allows the pump to be placed to a confined space.



KTV

KTVE

KTVE-series is an automatic version of 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.

Electrode Control Device

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

TECHNICAL DATA		1 KTV2.75 KTVE2.75	2 KTV2-15 KTVE21.5	3 KTV2-22 KTVE22.2
Discharge Bore	mm	50		
Motor Output	kW	0.75	1.5	2.2
Phase		Three		
Starting Method		Direct-On-Line		
Motor Protection		Circle Thermal		
Impeller		Semi-Vortex | Ductile Iron (KTV2.75: Urethane Rubber)		
Solid Passage	mm	8.5		
Voltage	V	400		
Current	A	2.2	3.3	4.3
Weight	kg	12.5 | 13.3	21 | 22	23 | 25
Cable Length	m	20		
L x W x H	mm	200 x 200 x 411 200 x 200 x 459	240 x 240 x 398 240 x 240 x 456	240 x 240 x 418 240 x 240 x 456

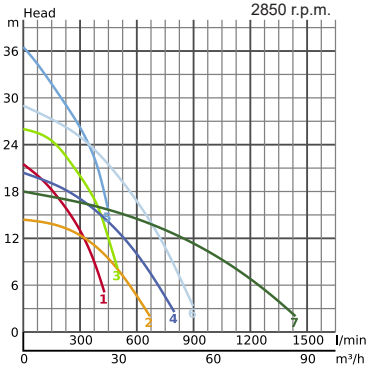
TECHNICAL DATA		4 KTV2-37 KTVE33.7	5 KTV2-37H	6 KTV3-55 KTVE35.5
Discharge Bore	mm	80	50	80
Motor Output	kW	3.7		5.5
Phase		Three		
Starting Method		Direct-On-Line		
Motor Protection		Circle Thermal		
Impeller		Semi-Vortex | Ductile Iron		
Solid Passage	mm	8.5		
Voltage	V	400		
Current	A	7.4		11
Weight	kg	36 | 40	36	47 | 52
Cable Length	m	20		
L x W x H	mm	285 x 285 x 556 285 x 285 x 635	285 x 285 x 550	300 x 300 x 595 300 x 300 x 670

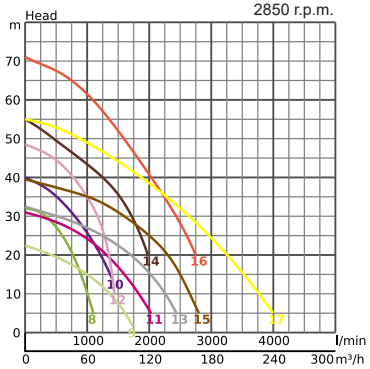
KTZ

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		1 KTZ21.5 2 KTZ31.5	3 KTZ22.2 4 KTZ32.2	5 KTZ23.7 6 KTZ33.7	7 KTZ43.7
Discharge Bore	mm	50 | 80	50 | 80	50 | 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 | High-Chromium Iron			
Solid Passage	mm	8.5			
Voltage	V	400			
Current	A	3.6	5.3	8	
Weight	kg	35	36	62	
Cable Length	m	20			
L x W x H	mm	235x216x648	235x216x668	283x252x667 283x252x677	283x252x687

TECHNICAL DATA		8 KTZ35.5 9 KTZ45.5	10 KTZ47.5 11 KTZ67.5	12 KTZ411 13 KTZ611	14 KTZ415 15 KTZ615	16 KTZ422 17 KTZ622
Discharge Bore	mm	80 | 100	100 | 150	100 | 150	100 | 150	100 | 150
Motor Output	kW	5.5	7.5	11	15	22
Phase		Three				
Starting Method		Direct-On-Line				
Motor Protection		Circle Thermal				Miniature Thermal
Impeller		Semi-Open | High-Chromium Iron				
Solid Passage	mm	8.5	12 | 20	12 | 20	12 | 20	8.5 | 12
Voltage	V	400				
Current	A	11.4	15.1	22	28.3	37.6
Weight	kg	77	104	133	147	296
Cable Length	m	20				
L x W x H	mm	306x258x721 306x258x731	330x314x809 369x314x810	374x350x864 374x350x884	374x350x906 374x350x926	485x413x1172 485x413x1192

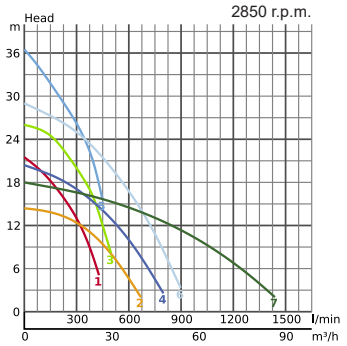
KTZE

How Electrode Works

KTZE-series is an automatic version of 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.

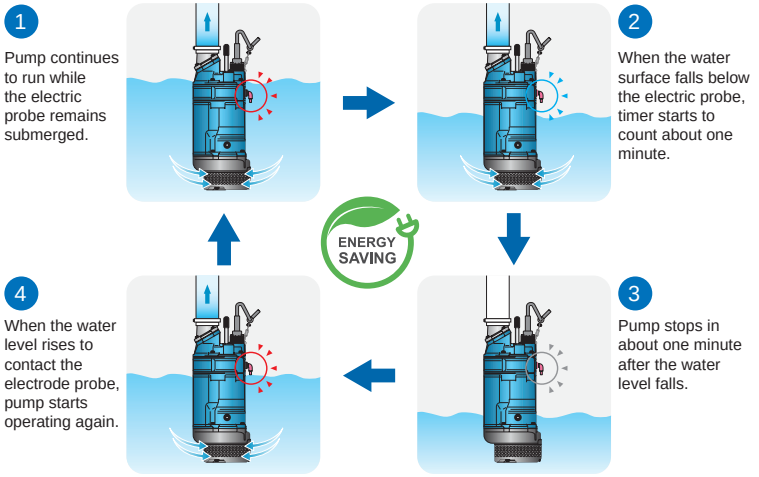
Electrode Control Device

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



How Electrode Sensor works?

Contributing to reduction of power consumption, prevention of dry-running and extension of operating life.



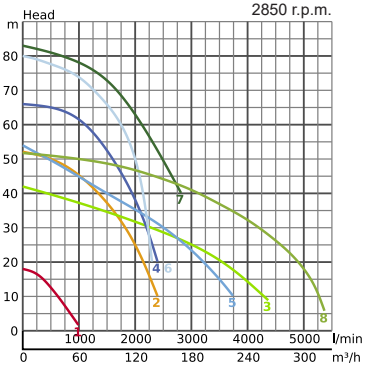
TECHNICAL DATA		1 KTZE21.5	2 KTZE31.5	3 KTZE22.2
Discharge Bore	mm	50	80	50
Motor Output	kW	1.5		2.2
Phase		Three		
Starting Method		Direct-On-Line		
Motor Protection		Circle Thermal		
Impeller		Semi-Open | High-Chromium Iron		
Solid Passage	mm	8.5		
Voltage	V	400		
Current	A	3.6		5.3
Weight	kg	40		42
Cable Length	m	20		
L x W x H	mm	235 x 216 x 728		235 x 216 x 748

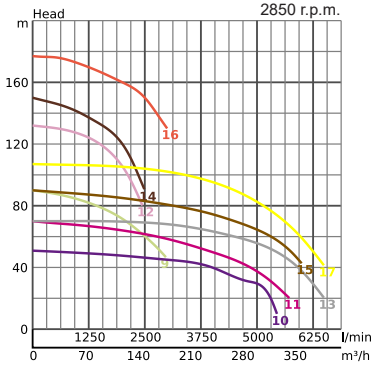
TECHNICAL DATA		4 KTZE32.2	5 KTZE23.7	6 KTZE33.7	7 KTZE43.7
Discharge Bore	mm	80	50	80	100
Motor Output	kW	2.2	3.7		
Phase		Three			
Starting Method		Direct-On-Line			
Motor Protection		Circle Thermal			
Impeller		Semi-Open | High-Chromium Iron			
Solid Passage	mm	8.5			
Voltage	V	400			
Current	A	5.3	8		
Weight	kg	42	71		
Cable Length	m	20			
L x W x H	mm	235 x 216 x 748	283 x 252 x 747	283 x 252 x 757	283 x 252 x 767

LH

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		1 LH33.0	2 LH615	3 LH619	4 LH422
Discharge Bore	mm	80	150		100
Motor Output	kW	3	15	19	22
Phase		Three			
Starting Method		Direct-On-Line			
Motor Protection		Circle Thermal			
Impeller		Closed Impeller | High-Chromium Iron			
Solid Passage	mm	6	8.5	12	6
Voltage	V	400			
Current	A	6.5	27.5	36	40.5
Weight	kg	42	213	350	350
Cable Length	m	20			
L x W x H	mm	185x185x645	330x330x1014	420x420x1423	420x420x1352

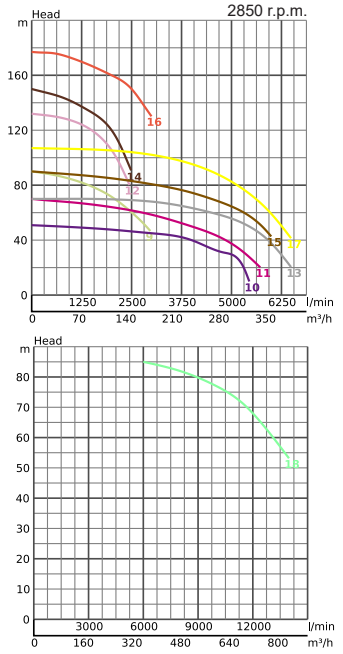
TECHNICAL DATA		5 LH622	6 LH430	7 LH637	8 LH837
Discharge Bore	mm	150	100	150	200
Motor Output	kW	22	30	37	
Phase		Three			
Starting Method		D.O.L.	Star-Delta		
Motor Protection		Circle Thermal	Miniature Thermal		
Impeller		Closed Impeller | High-Chromium Iron			
Solid Passage	mm	12	6	6	20
Voltage	V	400			
Current	A	40.5	55	67	
Weight	kg	360	355	495	495
Cable Length	m	20			
L x W x H	mm	420x420x1423	420x420x1352	530x530x1448	530x530x1488

LH

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.

LH12185D is equipped with a Double-Suction Impeller which assures the performance in high volume and high head applications.



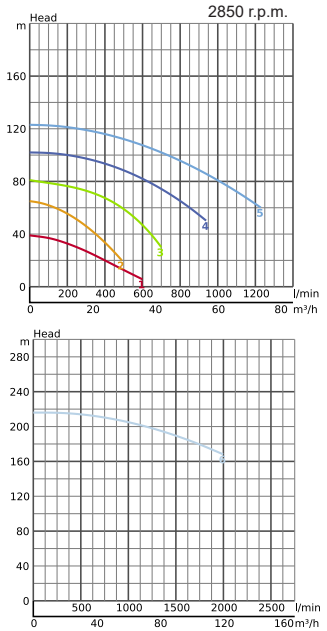
TECHNICAL DATA		9 LH645	10 LH845	11 LH855	12 LH675	13 LH875
Discharge Bore	mm	150	200		150	200
Motor Output	kW	45		55	75	
Phase		Three				
Starting Method		Star-Delta				
Motor Protection		Miniature Thermal				
Impeller		Closed Impeller High-Chromium Iron				
Solid Passage	mm	6	20		8	20
Voltage	V	400				
Current	A	81		100	130	
Weight	kg	510	510	820	865	865
Cable Length	m	20				
L x W x H	mm	530x530x1448	530x530x1488	563x550x1716	563x550x1716	563x550x1716

TECHNICAL DATA		14 LH690	15 LH890	16 LH6110	17 LH8110	18 LH12185D
Discharge Bore	mm	150	200	150	200	300
Motor Output	kW	90		110		185
Phase		Three				
Starting Method		Star-Delta				
Motor Protection		Miniature Thermal				
Impeller		Closed Impeller High-Chromium Iron				Double Suction
Solid Passage	mm	10	20	10	20	20
Voltage	V	400				
Current	A	166		209		310
Weight	kg	1100	1150	1210	1210	1950
Cable Length	m	20				
L x W x H	mm	592x592x1787	592x592x1787	616x592x1887	616x592x1887	773x773x2008

LH-W

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		1 LH23.0W	2 LH25.5W	3 LH311W
Discharge Bore	mm	50		80
Motor Output	kW	3	5.5	11
Phase		Three		
Starting Method		Direct-On-Line		
Motor Protection		Circle Thermal		
Impeller		Semi-Open High-Chrome	Closed Impeller High-Chromium Iron	
Solid Passage	mm	6		8.5
Voltage	V	400		
Current	A	6.5	11	22
Weight	kg	46	80	130
Cable Length	m	20		
L x W x H	mm	185 x 185 x 630	254 x 254 x 750	270 x 270 x 1040

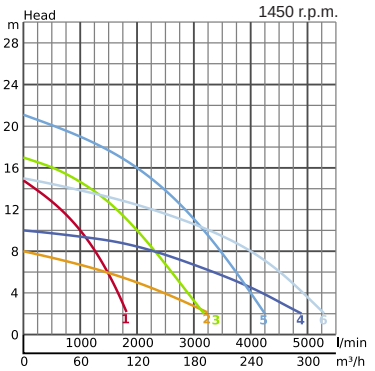
TECHNICAL DATA		4 LH322W	5 LH430W	6 LH4110W
Discharge Bore	mm	80	100	
Motor Output	kW	22	30	110
Phase		Three		
Starting Method		Direct-On-Line	Star-Delta	
Motor Protection		Circle-Thermal	Miniature Thermal	
Impeller		Closed Impeller High-Chromium Iron		
Solid Passage	mm	8.5		8
Voltage	V	400		
Current	A	39	53	209
Weight	kg	304	324	1270
Cable Length	m	20		
L x W x H	mm	330 x 330 x 1235	365 x 365 x 1410	616 x 592 x 1825

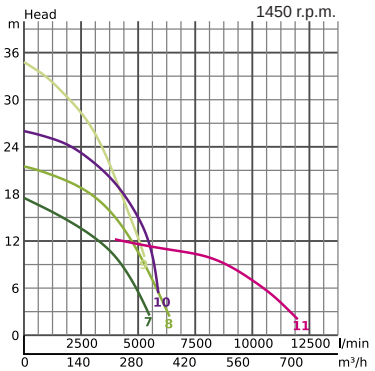
KRS

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		1 KRS43.0 2 KRS63.0	3 KRS65.5 4 KRS85.5	5 KRS69.0 6 KRS89.0
Discharge Bore	mm	100 | 150	150 | 200	150 | 200
Motor Output	kW	3	5.5	9
Phase		Three		
Starting Method		Direct-On-Line		
Motor Protection		Circle Thermal		
Impeller		Semi-Open | Ductile Iron		
Solid Passage	mm	12 | 15	20	20 | 30
Voltage	V	400		
Current	A	6.7	12.1	19.5
Weight	kg	95 | 101	123 | 135	173 | 177
Cable Length	m	20		
L x W x H	mm	380 x 347 x 746 386 x 365 x 889	428 x 370 x 825 449 x 413 x 976	490 x 424 x 872 473 x 408 x 993

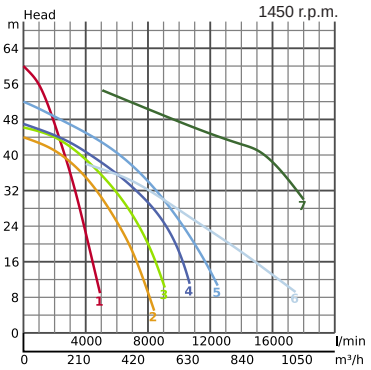
TECHNICAL DATA		7 KRS811	8 KRS815	9 KRS822	10 KRS822L	11 KRS1022
Discharge Bore	mm	200				250
Motor Output	kW	11	15	22		
Phase		Three				
Starting Method		Direct-On-Line				
Motor Protection		Circle Thermal				
Impeller		Semi-Open | Ductile Iron				Closed Ductile Iron
Solid Passage	mm	30	25			
Voltage	V	400				
Current	A	22.5	31.9	44.6		45.7
Weight	kg	179	240	380		390
Cable Length	m	20				
L x W x H	mm	473x409x993	481x440x1069	576x530x1241		525x524x1419

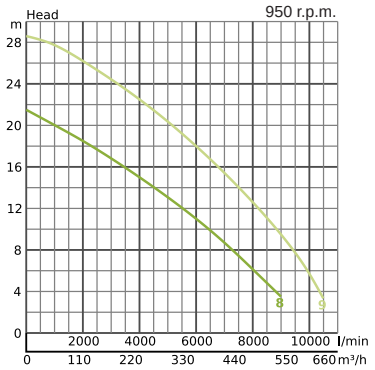
GSZ

GSZ series is a submersible three-phase cast iron high volume drainage pump driven by a 4-pole & 6-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. (excluding GSZ-6)

GSZ-4

GSZ-6



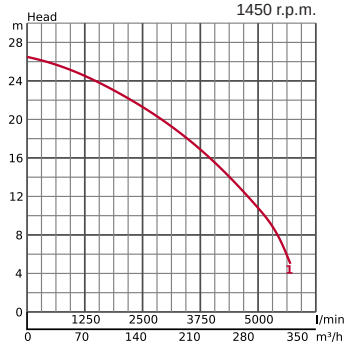


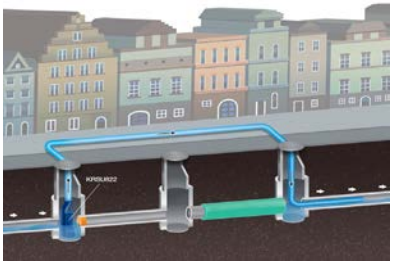
TECHNICAL DATA		1 GSZ5-37-4H	2 GSZ5-37-4	3 GSZ4-45-4	4 GSZ2-55-4
Discharge Bore	mm	150	200		250
Motor Output	kW	37		45	55
Phase		Three			
Starting Method		Star-Delta			
Motor Protection		Miniature Thermal			
Impeller		Closed St-St Casting	Closed Impeller | High-Chromium Iron		
Solid Passage	mm	10	25		
Voltage	V	400			
Current	A	74		87	123
Weight	kg	595	566	583	1140
Cable Length	m	20			
L x W x H	mm	900 x 700 x1545	915 x 660 x1575	915 x 660 x1583	1050x708x1927

TECHNICAL DATA		5 GSZ2 75-4	6 GSZ2 75-4L	7 GSZ 10150	8 GSZ5 22-6	9 GSZ5 37-6
Discharge Bore	mm	250			200	
Motor Output	kW	75		150	22	37
Phase		Three				
Starting Method		Star-Delta			D.O.L.	Star-Delta
Motor Protection		Miniature Thermal				
Impeller		Closed St-St Cast	Closed High-Chrome		Semi-Open High-Chrome	
Solid Passage	mm	25			50	
Voltage	V	400				
Current	A	146		285	47	74
Weight	kg	1140	1200	1650	685	796
Cable Length	m	20				
L x W x H	mm	1050x708x1927	1050x739x1972	1218x860x2455	965x720x1377	1047x804x1413

KRSU

KRSU822 is a submersible three-phase cast iron pump designed specifically for temporal bypassing drainage in sewer construction work. With max. head of 26.5 m, capacity of 342 m3/h, and space-saving design of 546 mm diameter, this pump plays an active role in drainage in the deep confined space of a manhole. Also, with semi-vortex impeller, it provides large solid passage of 56 mm which prevents clogging of foreign matter. The top discharge, side flow design assures efficient motor cooling even when operating with the motor exposed to air.

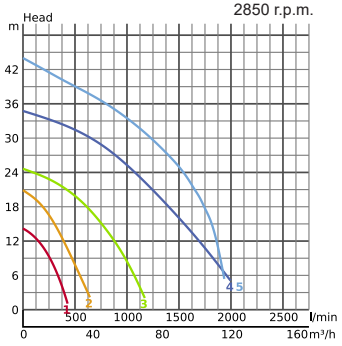




TECHNICAL DATA		1 KRSU822
Discharge Bore	mm	200
Motor Output	kW	22
Phase		Three
Starting Method		Direct-On-Line
Motor Protection		Circle Thermal
Impeller		Semi-Vortex | Grey Cast Iron
Solid Passage	mm	56
Voltage	V	400
Current	A	44.6
Weight	kg	417
Cable Length	m	20
L x W x H	mm	546 x 500 x 1486

SFQ

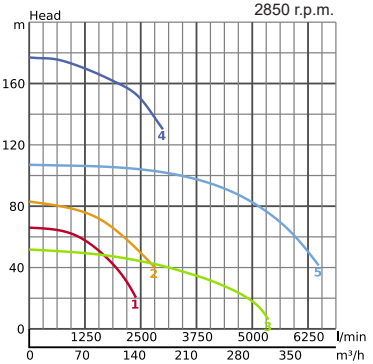
SFQ-series is a submersible stainless steel corrosion-resistant pump designed for handling aggressive and corrosive liquid. All wetted parts are made of 316 stainless steel casting, the pumps can withstand the most demanding conditions found in construction, aggregate and mining applications.
Side-discharge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

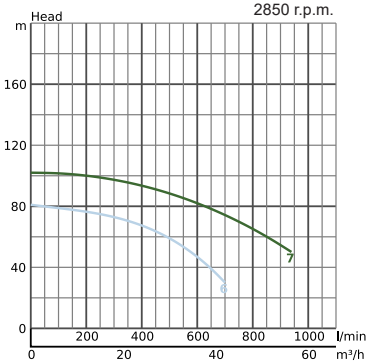


TECHNICAL DATA		1 50SFQ2.75	2 80SFQ21.5	3 80SFQ23.7	4 80SFQ27.5	5 80SFQ211
Discharge Bore	mm	50	80			
Motor Output	kW	0.75	1.5	3.7	7.5	11
Phase		Three				
Starting Method		Direct-On-Line				Star-Delta
Motor Protection		Circle Thermal				Miniature Thermal
Impeller		Semi-Open | 316 Stainless Steel Casting				
Solid Passage	mm	6		15	23	
Voltage	V	400				
Current	A	2.1	4.1	6.8	14.3	21
Weight	kg	22	36	52	128	148
Cable Length	m	10				
L x W x H	mm	252x196x398	329x221x484	359x257x542	635x360x844	635x360x892

LH-14 / LH-W-14

LH-14/LH-W-14 series is a submersible stainless steel casting high head corrosion-resistant pump designed for handling aggressive and corrosive liquids. The all wetted parts are made of 316 stainless steel, enables it to withstand demanding conditions found in construction, aggregate and mining applications. 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. Furthermore, to endure even extended operation at low water level, these pumps feature flow-thru design that forcibly cools down the motor.
The LH-14 series has a single impeller, and the LH-W-14 series has dual impellers.





TECHNICAL DATA		1 LH422-14	2 LH637-14	3 LH837-14	4 LH6110-14	5 LH8110-14
Discharge Bore	mm	100	150	200	150	200
Motor Output	kW	22	37		110	
Phase		Three				
Starting Method		D.O.L.	Star-Delta			
Motor Protection		Miniature Thermal				
Impeller		Closed Impeller | 316 Stainless Steel Casting				
Solid Passage	mm	6		20	10	20
Voltage	V	400				
Current	A	42	71		200	
Weight	kg	(370)	(540)	(540)	(1350)	(1400)
Cable Length	m	20				
L x W x H	mm	420x420x1352	530x530x1448	530x530x1488	592x592x1887	592x592x1887

TECHNICAL DATA		6 LH311W-14	7 LH322W-14
Discharge Bore	mm	80	80
Motor Output	kW	11	22
Phase		Three	
Starting Method		Direct-On-Line	
Motor Protection		Miniature Thermal	
Impeller		Closed Impeller | 316 Stainless Steel Casting	
Solid Passage	mm	8.5	
Voltage	V	400	
Current	A	21.5	42
Weight	kg	(320)	(340)
Cable Length	m	20	
L x W x H	mm	330 x 330 x 1184	330 x 330 x 1275

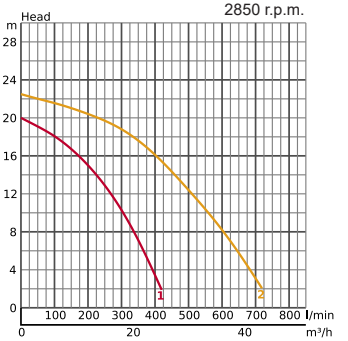
AGITATOR PUMPS

Agitator Pump
VIDEO

Three-phase | Side Flow | Agitator | Light-weight

KTV2

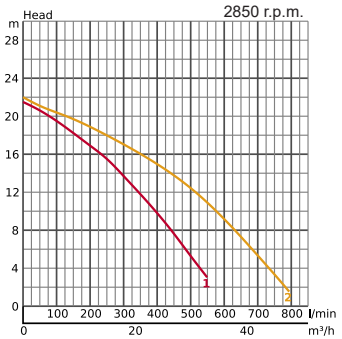
KTV2-series of slurry-handling type is a submersible three-phase portable slurry pump. Though the pump is a three-phase unit, it is designed to weigh lighter for portability, yet it can be used for pumping slurry.
The top-discharge, side-flow design assures efficient motor cooling even if the pump runs with its motor exposed to air.



TECHNICAL DATA		1 KTV2-50	2 KTV2-80
Discharge Bore	mm	50	80
Motor Output	kW	2	3
Phase		Three	
Starting Method		Direct-On-Line	
Motor Protection		Circle Thermal	
Impeller		Semi-Vortex | High-Chromium Iron	
Solid Passage	mm	8.5	
Voltage	V	400	
Current	A	3.8	6.1
Weight	kg	25	38
Cable Length	m	20	
L x W x H	mm	250 x 250 x 456	295 x 295 x 600

KTD

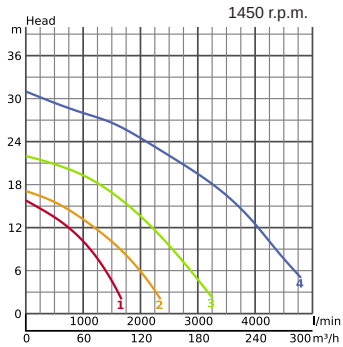
KTD-series is a submersible three-phase cast iron heavy-duty slurry pump. It is equipped with an agitator that suspends solids to assist in pumping sediments.
The pump parts such as the impeller and the suction cover are made of wear-resistant materials.



TECHNICAL DATA		1 KTD22.2 (KTD22.0)	2 KTD33.7 (KTD33.0)
Discharge Bore	mm	50	80
Motor Output	kW	2.2	3.7
Phase		Three	
Starting Method		Direct-On-Line	
Motor Protection		Circle Thermal	
Impeller		Semi-Open | High-Chromium Iron	
Solid Passage	mm	10	
Voltage	V	400	
Current	A	5.3	8
Weight	kg	38	65
Cable Length	m	20	
L x W x H	mm	235 x 221 x 589	297 x 266 x 694

KRD (KRS2)

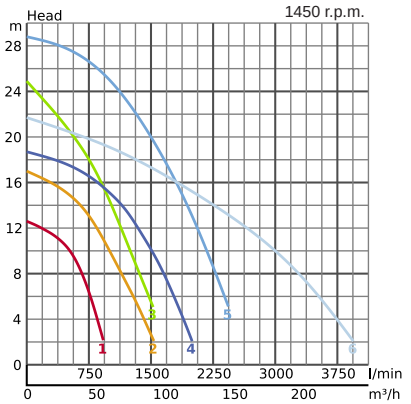
KRD-series is a submersible three-phase cast iron heavy duty slurry pump driven by a 4-pole motor. It is equipped with a high-chromium iron agitator that suspends solids to assist in pumping sediments. The other wear parts such as the impeller and the suction plate are also made of high-chromium cast 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		1 KRD35.5 (KRS2-80)	2 KRD47.5 (KRS2-100)	3 KRD611 (KRS2-150)	4 KRS-200
Discharge Bore	mm	80	100	150	200
Motor Output	kW	5.5	7.5	11	18
Phase		Three			
Starting Method		Direct-On-Line			
Motor Protection		Circle Thermal			
Impeller		Semi-Open | High-Chromium Iron			
Solid Passage	mm	30			
Voltage	V	400			
Current	A	12.1	15	22.5	35
Weight	kg	107	154	175	395
Cable Length	m	20			
L x W x H	mm	351 x 326 x 838	418 x 379 x 936	436 x 407 x 961	576 x 530 x1181

NKZ

NKZ-series is a 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.

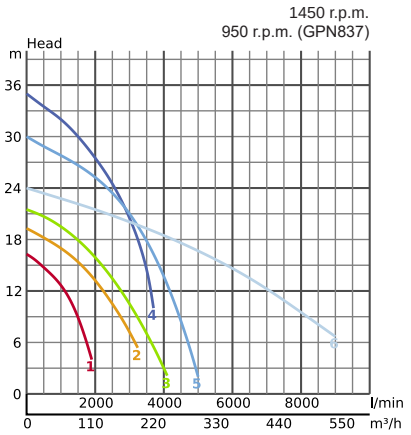


TECHNICAL DATA		1 NKZ3-C3	2 NKZ3-D3	3 NKZ35.5 (NKZ3-80H)
Discharge Bore	mm	80		
Motor Output	kW	2.2	3.7	5.5
Phase		Three		
Starting Method		Direct-On-Line		
Motor Protection		Circle Thermal		
Impeller		Semi-Open | Ductile Iron		Semi-Open High-Chrome
Solid Passage	mm	30		20
Voltage	V	400		
Current	A	5.1	8	12.1
Weight	kg	91	100	146
Cable Length	m	20		
L x W x H	mm	466 x 368 x 664	466 x 368 x 709	491 x 400 x 798

TECHNICAL DATA		4 NKZ45.5	5 NKZ411 (NKZ3-100H)	6 NKZ611
Discharge Bore	mm	100		150
Motor Output	kW	5.5	11	
Phase		Three		
Starting Method		Direct-On-Line		
Motor Protection		Circle Thermal		
Impeller		Semi-Open Ductile Iron	Semi-Open High-Chrome	Semi-Open Ductile Iron
Solid Passage	mm	30	20	30
Voltage	V	400		
Current	A	12.1	22.5	
Weight	kg	129	217	210
Cable Length	m	20		
L x W x H	mm	482 x 382 x 759	546 x 413 x 885	618 x 449 x 842

GPN

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.
Shaft made of Chromium Molybdenum Steel has the superior performance against the impact given at the instant of sucking hard foreign matters.
Impeller gap of 22 - 37kW can be easily adjusted with the bolts of suction plate.

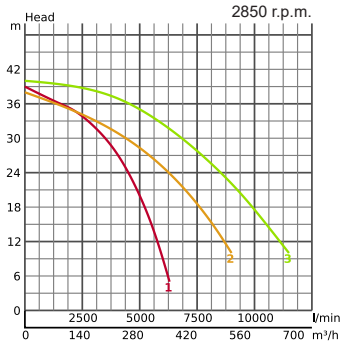


TECHNICAL DATA		1 GPN35.5	2 GPN411	3 GPN415
Discharge Bore	mm	80	100	
Motor Output	kW	5.5	11	15
Phase		Three		
Starting Method		Direct-On-Line		
Motor Protection		Circle Thermal		
Impeller		Semi-Open | High-Chromium Iron		
Solid Passage	mm	30		
Voltage	V	400		
Current	A	12.1	22.5	27
Weight	kg	160	239	242
Cable Length	m	20		
L x W x H	mm	487 x 390 x 841	617 x 452 x 924	

TECHNICAL DATA		4 GPN422	5 GPN622	6 GPN837
Discharge Bore	mm	100	150	200
Motor Output	kW	22		37
Phase		Three		
Starting Method		Direct-On-Line		Star-Delta
Motor Protection		Miniature Thermal		
Impeller		Semi-Open | High-Chromium Iron		
Solid Passage	mm	30		46
Voltage	V	400		
Current	A	42.5		74
Weight	kg	410	415	815
Cable Length	m	20		
L x W x H	mm	725 x 572 x 1102		1015 x 749 x 1576

GSD

GSD-series is a high-powered heavy-duty slurry pump that delivers high head and high volume discharge. It is designed and built for continuous operation under the tough conitions. It is equipped with a high-chromium cast iron agitator to ensure smooth sediment intake and employs a mouth ring and impeller of same material to provide extra durability. The motor is cooled by a water jacket that keeps the motor cool during extended operation at low water level.

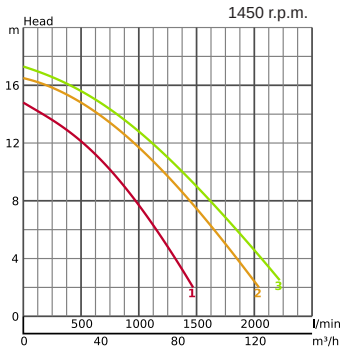


TECHNICAL DATA		1 GSD-37-4	2 GSD-55-4	3 GSD-75-4
Discharge Bore	mm	200	250	
Motor Output	kW	37	55	75
Phase		Three		
Starting Method		Star-Delta		
Motor Protection		Miniature Thermal		
Impeller		Closed Impeller | High-Chromium Iron		
Solid Passage	mm	25		
Voltage	V	400		
Current	A	74	123	146
Weight	kg	685	1220	
Cable Length	m	20		
L x W x H	mm	915 x 660 x 1575	1050 x 708 x 1927	

KRDX

KRDX-series is a three-phase heavy-duty explosion-proof slurry pump. It is equipped with a high-chromium cast iron agitator that assists the smooth suction of the settled material. Among other parts subject to wear, impellers and suction plates are made of high-chromium cast iron, with the pump casing and motor frame made of ductile cast iron, which provides excellent wear resistance.

IECEx and ATEX Ex approved



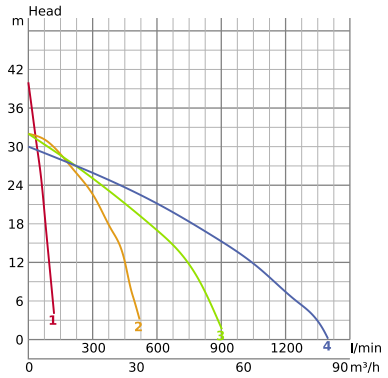
TECHNICAL DATA		1 KRDX33.7	2 KRDX45.5	3 KRDX47.5
Discharge Bore	mm	80	100	
Motor Output	kW	3.7	5.5	7.5
Phase		Three		
Starting Method		Direct-On-Line		
Motor Protection		Miniature Thermal		
Impeller		Semi-Open | High-Chromium Iron		
Solid Passage	mm	21	28	33
Voltage	V	500		
Current	A	6.4	9.4	12.1
Weight	kg	155	175	186
Cable Length	m	20		
L x W x H	mm	415 x 369 x 829	446 x 416 x 838	446 x 416 x 868

TE-H(A)

TE-H(A) are self-priming, centrifugal pumps manufactured by Tsurumi and powered by Honda 4-stroke, recoil start, petrol engines.

TEM-25H model feature engine with a rotary slinger lubrication device, to prevent damage from inadequate lubrication during use at an angle. Both models have easy-carry handles and rubber feet on the base stand, for engine noise and vibration absorption. Capable of high heads, they are good for irrigation and dust suppression, but with being light and compact they are also useful for general drainage, transfer and flood defence. They will pump clean and dirty water.

TET2-50HA, TE4-80HA and TE2-100HA have the Oil Alert engine protection system fitted to prevent damage from inadequate lubrication during use with low oil, or while at an angle. All models have easy-carry frames and rubber feet, for engine noise and vibration absorption. Capable of pumping large volumes of clean and dirty water they are good for site drainage, land drainage, transfer and flood defence. To assist manual handling of the model TE2-100HA, a two wheeled site trolley is available as an optional extra.



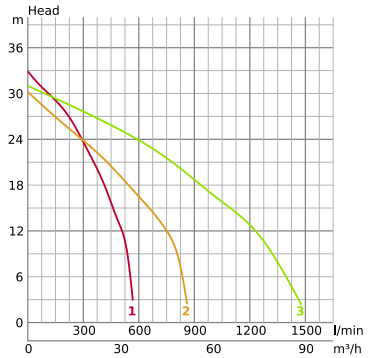
TECHNICAL DATA		1 TEM-25H	2 TET2-50HA
Inlet x Outlet	mm	25 x 25	50 x 50
Engine		GX25	GX120
Engine Power	kW	0.7	2.4
Fuel Type		Petrol	Petrol
Fuel Tank	L	0.53	2.0
Oil Alert		No	Yes
Max. Capacity	l/min	120	520
Max. Head	m	40	32
Solid Passage	mm	5	5
Weight	kg	5.5	23

TECHNICAL DATA		3 TET4-80HA	4 TE2-100HA
Inlet x Outlet	mm	80 x 80	100 x 100
Engine		GX160	GX240
Engine Power	kW	3.6	5.9
Fuel Type		Petrol	Petrol
Fuel Tank	L	3.1	5.3
Oil Alert		Yes	Yes
Max. Capacity	l/min	1000	1400
Max. Head	m	32	30
Solid Passage	mm	7	7
Weight	kg	30	47

TE-YD

TE3-YD are self-priming, centrifugal pumps manufactured by Tsurumi and powered by Yanmar, recoil start, diesel engines.

All models have rubber mounts for engine vibration control and have easy-carry frames, but a two wheeled trolley is available as an optional extra. Capable of pumping large volumes of clean and dirty water they are good for site drainage, land drainage, transfer and flood defence.




TE-YD


TEF / TEW

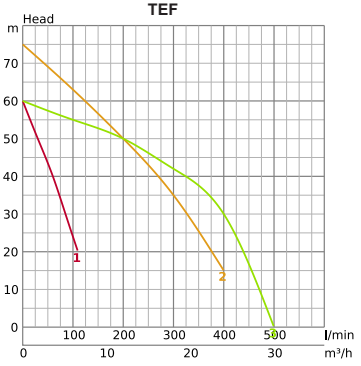
TECHNICAL DATA		1 TE3-50YDV	2 TE3-80YDV	3 TE3-100YDV
Inlet x Outlet	mm	50 x 50	80 x 80	100 x 100
Engine		Yanmar L70		
Engine Power	kW	4.8		
Fuel Type		Diesel		
Fuel Tank	L	3.3		
Oil Alert		No		
Max. Capacity	l/min	550	900	1300
Max. Head	m	32	28	27
Solid Passage	mm	5	7	7
Weight	kg	53	54	66

TEF / TEW

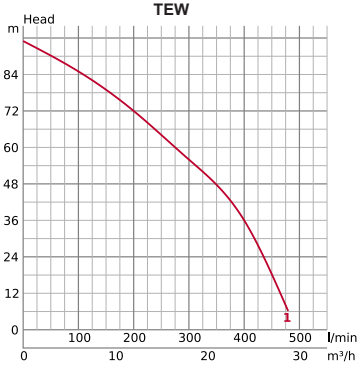
TEF and TEW2 are self-priming centrifugal, high-head pumps manufactured by Tsurumi and powered by Honda 4-stroke petrol engines.

Designed for high pressure pumping of clean water for use in irrigation, dust suppression and firefighting.
TEF-50/TEW-50 models feature three outlets (1x1½" and 2x1") to enable two or three people to use the pump at the same time. Two outlets have a blanking cap to maximise pressure and conserve water when not in use.
All models have rubber feet, or mounts, for engine noise and vibration absorption.
Engines have the Oil Alert protection system fitted to prevent damage from inadequate lubrication during use with low oil, or while at an angle.
TEF-50/TEW-50 have easy carry steel frames, while the TEF-25HA has a carry handle and base frame.

TEF



TEW

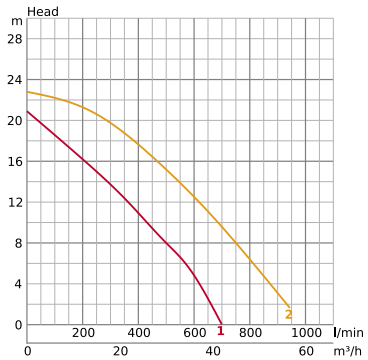


TECHNICAL DATA		1 TEF-25HA	2 TEF-50HA	3 TEF4-50YD	1 TEW2-50HA
Inlet x Outlet	mm	25 x 25	50 x 25/25/40		
Engine		GXH50	GX160	Yanmar L70	GX270
Engine Power	kW	1.6	3.6	4.8	6.3
Fuel Type		Petrol	Petrol	Diesel	Petrol
Fuel Tank	L	0.77	3.1	3.3	5.3
Oil Alert		Yes	Yes	No	Yes
Max. Capacity	l/min	110	400	500	480
Max. Head	m	60	75	60	95
Solid Passage	mm	-	-	-	-
Weight	kg	11	28	56	52

TDS

TDS are self-priming, centrifugal Semi-Trash pumps, with tool access pump casing, manufactured by Tsurumi and powered by Honda 4-stroke, recoil start, petrol engines.

They have the Oil Alert engine protection system fitted to prevent damage from inadequate lubrication during use with low oil, or while at an angle. All models have easy-carry frames, rubber feet (for engine noise and vibration absorption) and elongated bolts for pump chamber access. Capable of pumping clean and dirty water, with suspended solids, they are good for site drainage, land drainage, liquid waste removal, sewage and flood defence.

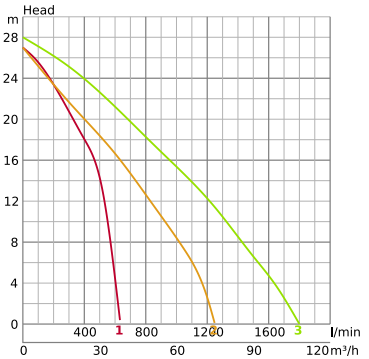


TECHNICAL DATA		1 TDS2-50HA	2 TDS2-80HA
Inlet x Outlet	mm	50 x 50	80 x 80
Engine		GX120	GX160
Engine Power	kW	2.4	3.6
Fuel Type		Petrol	
Fuel Tank	L	2.0	3.1
Oil Alert		Yes	
Max. Capacity	l/min	700	1000
Max. Head	m	23	23
Solid Passage	mm	20	20
Weight	kg	25	28

TED

TED are self-priming, centrifugal Full-Trash pumps, manufactured by Tsurumi and powered by Honda 4-stroke, recoil start, petrol engines.

They have the Oil Alert engine protection system fitted to prevent damage from inadequate lubrication during use with low oil, or while at an angle. All models have easy-carry frames, rubber feet (for engine noise and vibration absorption) and wing nuts for easy chamber access. Capable of pumping large volumes of water that contains sand, silt and suspended large solids, they are good for site drainage, land drainage, liquid waste removal, sewage and flood defence. A two wheeled trolley is also available as an optional extra.

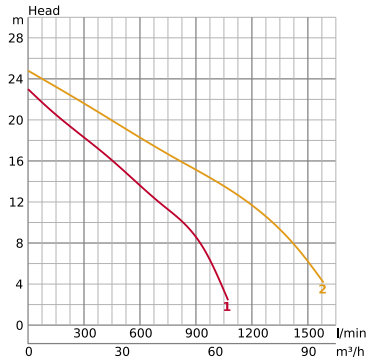


TECHNICAL DATA		1 TED2-50HA	2 TED2-80HA	3 TED2-100HA
Inlet x Outlet	mm	50 x 50	80 x 80	100 x 100
Engine		GX160	GX240	GX340
Engine Power	kW	3.6	5.9	8.0
Fuel Type		Petrol		
Fuel Tank	L	3.1	5.3	6.1
Oil Alert		Yes		
Max. Capacity	l/min	700	1250	1800
Max. Head	m	27	27	28
Solid Passage	mm	20	31	28
Weight	kg	38.5	55	63

EPT

EPT are self-priming, centrifugal Full-Trash pumps, manufactured by Tsurumi and powered by Yanmar diesel (L70), recoil or electric start, engines.

Both models have easy-carry frames and rubber feet, for engine noise and vibration absorption. Capable of pumping large volumes of water that contains sand, silt and suspended large solids, they are good for site drainage, land drainage, liquid waste removal, sewage and flood defence. The EPT3-100YDVE is electric start (with battery holder, but not battery) to ensure quick and effortless starting.

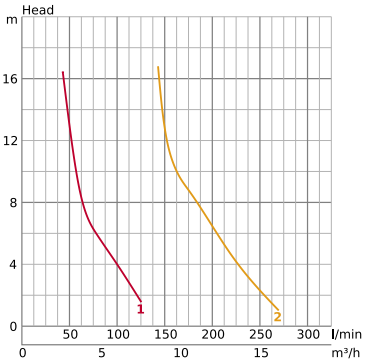


TECHNICAL DATA		1 EPT3-80YDV	2 EPT3-100YDVE
Inlet x Outlet	mm	80 x 80	100 x 100
Engine		Yanmar L70	Yanmar L100
Engine Power	kW	4.8	6.8
Fuel Type		Diesel	
Fuel Tank	L	3.3	5.4
Oil Alert		No	
Max. Capacity	l/min	1150	1700
Max. Head	m	25	25
Solid Passage	mm	31	31
Weight	kg	74	102

TD

TD are diaphragm pumps manufactured by Tsurumi and powered by Honda 4-stroke, recoil start, petrol engines. Priming is automatic and indefinite dry running is possible.

They have the Oil Alert engine protection system fitted to prevent damage from inadequate lubrication during use with low oil, or at an angle, and have easy-carry frames. Both models have rubber mounts, for engine noise and vibration absorption. Capable of pumping water containing sand, silt and suspended large solids, they are good for site drainage, land drainage, liquid waste removal, sewage and flood defence. They are widely used by contractors, utilities and regularly found on hire fleets. Optional extras are two wheeled site trolleys and quick release cam coupling kits, with heavy duty hose clamps.



TECHNICAL DATA		1 TD-200HA	2 TD-300HA
Inlet x Outlet	mm	50 x 50	80 x 80
Engine		GX120	GX160
Engine Power	kW	2.4	3.6
Fuel Type		Petrol	
Fuel Tank	L	2.0	3.1
Oil Alert		Yes	
Max. Capacity	l/min	120	240
Max. Head	m	15	15
Solid Passage	mm	25	31
Weight	kg	38	45

Optional Accessories

LEARN MORE
Visit our YouTube Channel

Motor Protection Plug

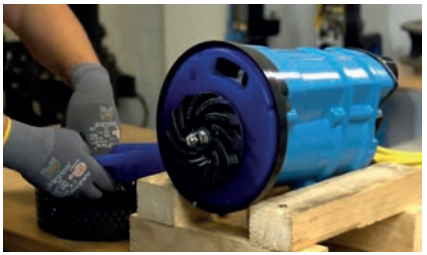
IP44 plugs can be adjusted on the rated current of the pump and thus offers the easiest way of an external over-amperage protection. Plugs for 3ph have built-in phase inverter to detect the wrong rotation.

HS2.4S Residual Kit

HS2.4S can be converted to a residual type pump by replacing the strainer stand. Enable to pump the water level down to 5mm.

KTV Wear Parts for Highly Abrasive Applications

For tough appliacations e.g. tunneling/mining, the medium is highly abrasive that the standard wear parts can be worn out quickly and needs to be replaced frequently. As an option, Tsurumi offers KTV wear parts such as pump casing and wear plates, made of polyurethan and hardened fixing plate. Compared to the standard material of nitrile rubber, the polyurethan wear parts lasts at least three times longer.

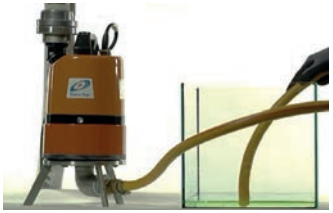


VIDEO
How to install

(Left) Field test in highly abrasive application. Parts are worn out and need to be replaced.
(Right) Field test of polyurethan pump casing after 5 months operation. Almost no wear.

LSC Suction Adaptor

When the water in area is inaccessible, the LSC pump with suction extension pipe might be the solution as the hose connected to the suction adapter may reach to the water.



Electrode Extensions

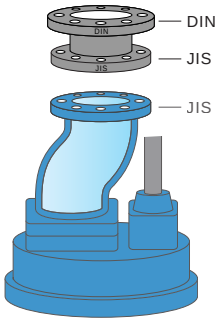
By attaching the electrode extension springs to the electrode sensors, the lowest operation level (pump starting water level) can be adjusted freely.

Booster Adaptor

Adaptor to connect the pumps in tandem for in-line installations. By connecting several pumps in tandem, this will achieve higher delivery head which is often required in tunneling and mining applications.

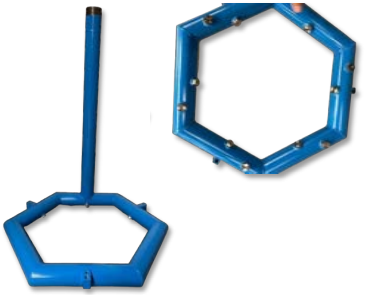
Flange Adaptor

Adaptor to convert the discharge flange connection from Japanese standard (JIS) to European standard (DIN).



Jetting System

For the medium with high concentration of dry matters, jetting system with jet nozzles helps to dliute and mix the dry matters in order to achieve a smooth pump operation in tough circumstances.



Optional Accessories

Seawater Resistant Kit

Tsurumi's standard pumps can be combined with a seawater-resistant kit (optional) that adds a "galvanic anode" and "seawater-resistant special cast iron impeller," and enables about two years of service (service period depends on operating conditions.).
After long years of research, **Tsurumi developed an exclusive "Seawater-Resistant Special Cast Iron Impeller"** suited to protect the shaft against corrosion by seawater.
[Available for KTZ 3.7kW & 11kW | KRS 15kW & 22kW]

Motor Shaft Corrosion Test (in seawater / 1 year)

304 stainless steel cast impeller was mounted on 403 stainless steel shaft.
(Shaft was heavily corroded)

Seawater-resistant special cast iron impeller was mounted on 403 stainless steel shaft.
(Shaft was protected against corrosion)

Impeller Corrosion Test (in seawater / 1 year)

High-Chromium Cast Iron

Seawater-Resistant Special Cast Iron

The amount of corrosive wear in the special cast iron impeller is approx. one tenth of that of conventional cast iron impeller.

TSURUMI CONNECT

SMART MONITORING & CONTROLLING

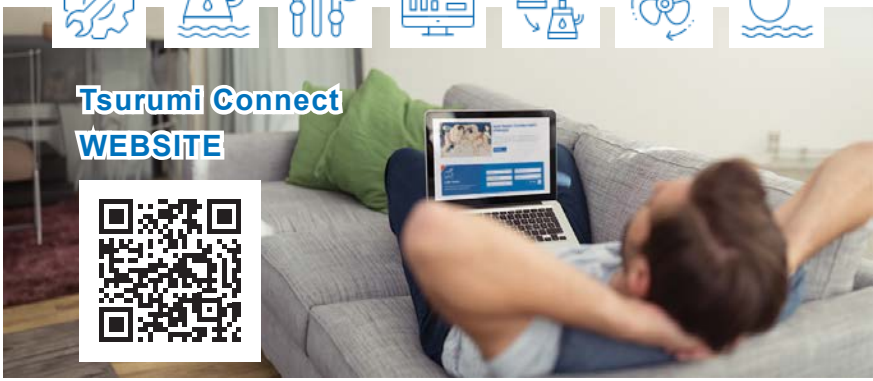
GIVE YOURSELF MORE PIECE OF MIND WITH TSURUMI CONNECT

Tsurumi's reliable pumps have been already proving the peace of mind to the users.

Tsurumi Connect Box is designed to monitor and control Tsurumi submersible pumps and different appliances. It monitors, collects, and acts to the various data such as current, flow, water level and other data from internal/external sensors to automize your operations.

Increase the security for all connected pumps and extend the lifetime even more.

HOW DOES TSURUMI CONNECT WORK ?

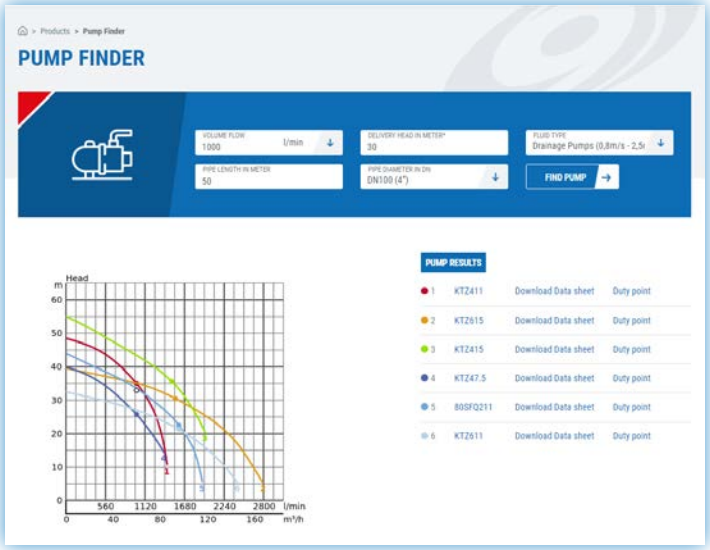


www.tsurumi-connect.eu

PUMP FINDER

Find your Perfect Pump with PUMP FINDER

Finding the right pump for your specific needs can be challenging.
That's why we've developed the PUMP FINDER tool on our website, designed to simplify your search and ensure you get the perfect pump every time.



Why choose the PUMP FINDER ?

- **User-Friendly Interface :**
Our intuitive tool allows you to input key parameters such as flow, delivery head, fluid type, pipe length and diameter. With just a few clicks, you'll receive tailored recommendations that match your requirements.

- **Comprehensive Database :**
Access a vast selection of Tsurumi pump models, including options for dewatering, sewage, and more. Whether you're working on a construction site, in tunneling, or mining, the PUMP FINDER has you covered.

- **Accurate Results :**
Pump Finder provides precise matches based on your input, ensuring you get the most efficient and effective pump for your project.

- **Detailed Information :**
Each recommended pump comes with full technical datasheets, including the specified duty point, so you can make informed decisions with confidence.

Recommended Generator Sizes

Single-phase

Model	Motor Output (kW)	230V / 50Hz AC Max. Output at Starting (kVA)
LB-480(A)	0.48	1.6
LB-800(A)	0.75	3.4
LB-1500	1.5	12
HS2.4S	2.4	1.6
HS2.75S / 3.75S(L)	0.75	3.4

Model	Motor Output (kW)	230V / 50Hz AC Max. Output at Starting (kVA)
NK4-22 / NK3-22L	2.2	12
HSD2.55S	0.55	2.5
LSC(E)1.4S	0.48	1.6
LSC(E)2.75S	0.75	3.4
FAMILY-12	0.1	0.53

Three-phase

Model	Motor Output (kW)	400V / 50Hz AC Max. Output at Starting (kVA)
KTZ(E)21.5 / 31.5	1.5	7.6
KTZ(E)22.2 / 32.2	2.2	12
KTZ(E)23.7 / 33.7 / 43.7	3.7	20
KTZ35.5 / 45.5	5.5	29
KTZ47.5 / 67.5	7.5	41
KTZ411 / 611	11	53
KTZ415 / 615	15	59
KTZ422 / 622	22	97
KTV2.75 / KTVE2.75	0.75	3.2
KTV2-15 / KTVE21.5	1.5	6.6
KTV2-22 / KTVE22.2	2.2	10
KTV2-37(H) / KTVE33.7	3.7	17
KTV3-55 / KTVE35.5	5.5	23
LH615	15	59
LH619	19	87
LH422 / 622	22	100
LH430	30	*135
LH637 / 837	37	*159
LH645 / 845	45	*208
LH855	55	*272
LH675 / 875	75	*350
LH690 / 890	90	*381
LH6110 / 8110	110	*473
LH23.0W	3	16
LH33.0	3	16
LH25.5W	5.5	23
LH311W	11	47
LH322W	22	100
LH430W	30	*135
LH4110W	110	*473

Model	Motor Output (kW)	400V / 50Hz AC Max. Output at Starting (kVA)
KRS43.0 / 63.0	3	15
KRS65.5 / 85.5	5.5	29
KRS69.0 / 89.0	9	45
KRS815	15	72
KRS822(L)	22	109
KRS1022	22	89
KRSU822	22	109
GSZ2-75-4(L)	75	*381
50SFQ2.75	0.75	4
80SFQ21.5	1.5	12
80SFQ23.7	3.7	20
80SFQ27.5	7.5	41
80SFQ211	11	*55
KTV2-50	2	10
KTV2-80	3	17
KTD22.2 (KTD22.0)	2.2	12
KTD33.7 (KTD33.0)	3.7	20
KRD35.5 (KRS2-80)	5.5	30
KRD47.5 (KRS2-100)	7.5	32
KRD611 (KRS2-150)	11	54
KRS-200	18	109
NKZ3-C3	2.2	11
NKZ3-D3	3.7	17
NKZ35.5 (NKZ3-80H)	5.5	30
NKZ411 (NKZ3-100H)	11	54
GPN35.5	5.5	30
GPN411 / GPN415	11	54
GPN422 / 622	22	100
GPN837	37	*170
GSD-55-4	55	*381

* In case of Star-Delta starting, devide them by 1.5

Memo