



CONTRACTOR / MINING PUMPS
BUILT FOR WORK

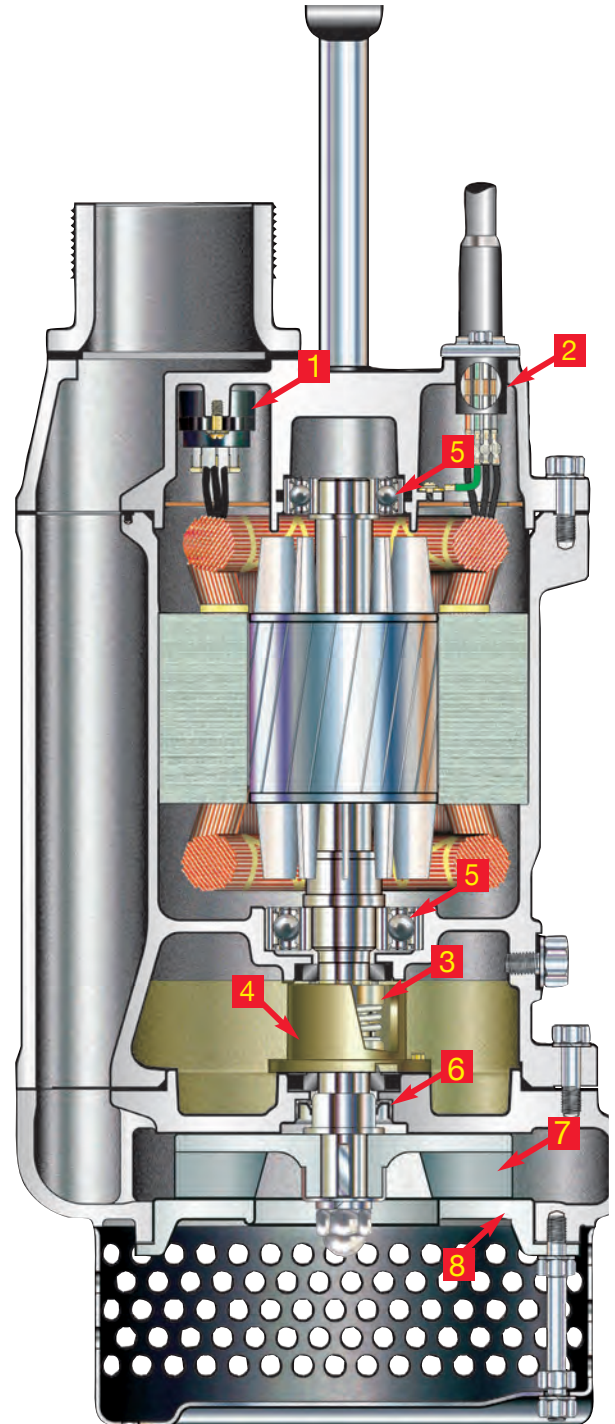
Dewatering Pumps • Agitator Pumps • Accessories



www.technosub.net

Rugged Tsurumi pumps are loaded top to bottom with features to withstand your toughest dewatering applications.

- 1 Motor Protector:**
Protects against overheating and run-dry.
- 2 Anti-Wicking Block:**
Prevents water incursion due to capillary wicking should the power cable be damaged or the end submerged.
- 3 Double Inside Mechanical Seal with Silicon Carbide Faces:**
Provides the longest operational life of any available seal.
- 4 Oil Lifter:**
Lubrication of the seal faces down to 1/3 of normal oil level and greatly extends the seal life - uses no additional power.
- 5 Ball Bearings:**
Permanently lubricated, double-shielded, single row deep groove, high temperature C3 Ball bearings, Rated B-10 = 60,000 Hours.
- 6 Lip Seal Protector:**
Protects mechanical seal from abrasive particles.
- 7 High Chrome Iron (Optional) Impeller:**
Resists wear by abrasive particles.
- 8 Field Adjustable / Replaceable, Ductile Iron Suction Cover:**
Resists wear by abrasive particles, and is easily adjusted to maintain pump performance.



The cutaway view above is a KTZ series pump. This pump illustrates the common design features used in Tsurumi dewatering pumps. Other series may differ in shape and structure.



Tsurumi Three-Phase Dewatering Pumps

KTZ(E) Series



High head and high volume dewatering. Semi-open High Chrome Impeller.

Easy conversion between high head and high volume models in each motor size.

KTZE pumps with built-in electrode for automatic operation without a control panel.

2, 3, 4 and 6 inch discharge sizes
2, 3, 5, 7.5, 10, and 15 horsepower

LHW Series



Extra high head pumping.

Dual staged, Closed High Chrome Impeller.

Pressure relief ports protect mechanical seal from excessive pressure and water hammer.

2, 3, and 4 inch discharge sizes
4, 7.5, 15, 30, and 40 horsepower

LH Series



Medium to high volume at high heads.

Closed High Chrome Impeller.

Easy conversion between high head and high volume models in each motor size.

4, 6, and 8 inch discharge sizes
4, 20, 30, 35, 40, 50, 60, 75, 100, 120, and 150 horsepower

KTV(E) Series



Portable job-site dewatering.

Semi-vortex Urethane Rubber or Ductile Iron Impellers.

KTVE pumps with built-in electrode for automatic operation without a control panel.

2 and 3 inch discharge sizes
1, 2, 3, 5, and 7.5 horsepower

KRS Series



High volume dewatering.

Semi-open Ductile Iron and High Chrome Impellers.

1800 RPM motors reduce impeller wear.

3, 4, 6, 8, 10, 12, and 14 inch discharge sizes
3, 5, 7.5, 10, 15, 20, 25, 30, 40, and 50 horsepower

GSZ Series



High volume dewatering and slurry pumping.

Closed High Chrome and Stainless Steel Impeller.

1800 RPM and 1200 RPM motors reduce impeller wear.

6, 8, and 10 inch discharge sizes
30, 50, 60, 75, and 100 horsepower

Agitator Pumps



Heavy duty slurry pumping.

Abrasive resistant.

Single phase and three phase solutions.

2 - 10 inch discharge sizes
1/2 - 100 horsepower.

SFQ Series



Corrosive liquid dewatering.

Semi-open Stainless Steel Impeller.

All parts in contact with the liquid are 316 Stainless Steel.

All elastomers are Viton.

2, 3 and 4 inch discharge sizes
1, 2, 5, 7.5, 10 and 15 horsepower.

SQ Series



Portable corrosive liquid dewatering.

Semi-open Stainless Steel Impeller.

All parts in contact with the liquid are 304 Stainless Steel.

2 inch discharge sizes
1/2 and 1 horsepower

LB/LBT Series



8" Minimum casing dewatering.

Semi-Vortex Impeller.

Allows for jobsite dewatering utilizing smaller generators and smaller casings.

2 and 3 inch discharge sizes
1/2, 1 and 2 horsepower

KTZ(E)

High head and high volume dewatering and self-contained automatic operation



Field conversions from high volume to high head are quick and easy: simply change the impeller, suction cover, and discharge connection.



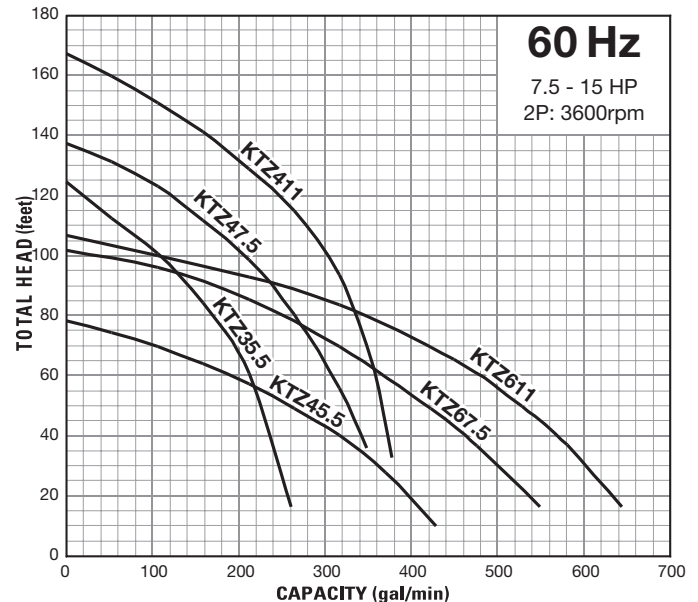
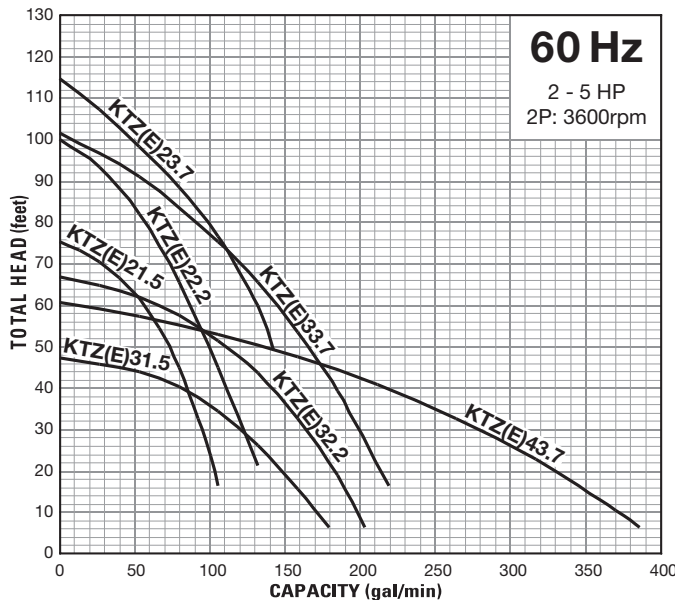
Built-in Automatic Operation KTZE:

Allows a 3-phase pump to operate automatically in a smaller casing or sump where traditional float switches don't fit.

Material

Impeller:	High Chrome Iron
Casing:	Cast Iron
Mechanical Seal:	Silicon Carbide
Motor Frame:	Cast Iron
Shaft:	420 Stainless Steel
Fasteners:	304 Stainless Steel
Cable:	PVC, Chloroprene Rubber

Performance Curves



KTZ(E) pumps convert quickly and easily between high head and high volume!

Features

- High Pressure Capability
- Easily converted between high pressure and high volume configurations
- High Pressure Rated Mechanical Seals
- Rugged Iron Construction
- Anti-Wicking Cable Entrance
- Dual Silicon Carbide Mechanical Seals
- Tsurumi's Patented Oil Lifter
- Internal Thermal Motor Protection
- Automatic Operation on KTZE Series



The **KTZ series** is designed with high-chrome impellers to withstand the most demanding conditions, including highly abrasive liquids found in construction, aggregate and mining applications. Versatility is increased as each pump model has the capability of being easily converted between high head and high volume performance with a simple change of impeller and wear plate. Dual high-pressure silicon carbide mechanical seals are isolated in the oil chamber to protect the seal faces from abrasion and corrosion. Tsurumi incorporates Pressure Relief Ports on the 10HP and 15HP models, exposing the mechanical seal only to the pressure developed by the sump submergence level. This has virtually eliminated the premature wear and failure of mechanical seals in higher pressure applications.

The **KTZE series** offers the same features as the KTZ series with the added benefit of an integrally mounted electrode probe for turning the pump on and off automatically. Unnecessary dry-run is prevented to save energy and reduce wear without the need for auto control panels and cumbersome float assemblies. The pump installs and handles like a standard pump yet operates automatically by simply connecting to a manual control panel.

MODEL	MOTOR SPECIFICATIONS					RPM	PUMP SPECIFICATIONS			DIMENSIONS		Continuous Running Water Level (in.)	Pump Weight (lbs.)
	Motor Output (HP)	Rated Current (A)					Discharge Size (in.)	Maximum Capacity (GPM)	Maximum Head (ft.)	Dimension (in.)			
		208V	230V	460V	575V					Diameter	Height		
KTZ21.5	2	6.2*	6.0	3.1	2.3	3400	2	106	75	9 1/4	25 1/2	4 3/4	77
KTZ31.5	2	6.2*	6.0	3.1	2.3	3400	2	180	47	9 1/4	25 1/2	4 3/4	75
KTZ22.2	3	9.4*	9.0	4.5	3.5	3410	2	132	100	9 1/4	26 5/16	4 3/4	79
KTZ32.2	3	9.4*	9.0	4.5	3.5	3410	2	203	67	9 1/4	26 5/16	4 3/4	77
KTZ23.7	5	15.0*	13.6	6.8	5.3	3410	3	143	115	11 1/8	26 1/4	5 7/8	137
KTZ33.7	5	15.0*	13.6	6.8	5.3	3410	3	219	102	11 1/8	26 5/8	5 7/8	137
KTZ43.7	5	15.0*	13.6	6.8	5.3	3410	4	386	61	11 1/8	27 1/16	5 7/8	137
KTZ35.5	7.5	21.0*	19.7	10.0	7.9	3545	3	260	125	12 1/16	28 3/8	5 7/8	167
KTZ45.5	7.5	21.0*	19.7	10.0	7.9	3545	4	428	79	12 1/16	28 3/8	5 7/8	170
KTZ47.5	10	29.8*	27.3	13.3	10.4	3545	4	349	137	13	31 13/16	7 1/2	225
KTZ67.5	10	29.8*	27.3	13.3	10.4	3545	4 (6)*	549	102	13 (14 9/16)*	31 13/16 (31 7/8)*	7 1/2	225 (222)*
KTZ411	15	39.8*	37.4	18.6	14.9	3520	4	377	167	14 3/4	32 15/16	7 1/2	295
KTZ611	15	39.8*	37.4	18.6	14.9	3520	4 (6)*	645	107	14 3/4	32 15/16 (33 11/16)*	7 1/2	295

* 208 & 230V same motor

(*) 6 inch is optional

MODEL	MOTOR SPECIFICATIONS					RPM	PUMP SPECIFICATIONS			DIMENSIONS		Continuous Running Water Level (in.)	Pump Weight (lbs.)
	Motor Output (HP)	Rated Current (A)					Discharge Size (in.)	Maximum Capacity (GPM)	Maximum Head (ft.)	Dimension (in.)			
		208V	220V	460V	575V					Diameter	Height		
KTZE21.5	2	6.2*	6.0	3.1	2.3	3400	2	106	75	9 1/4	28 11/16	13 5/8*	81
KTZE31.5	2	6.2*	6.0	3.1	2.3	3400	2	180	47	9 1/4	28 11/16	13 5/8*	79
KTZE22.2	3	9.4*	9.0	4.5	3.5	3410	2	132	100	9 1/4	29 7/16	14*	88
KTZE32.2	3	9.4*	9.0	4.5	3.5	3410	2	203	67	9 1/4	29 7/16	14*	86
KTZE23.7	5	15.0*	13.8	6.8	5.3	3410	3	143	115	11 1/8	29 7/16	17 1/8*	163
KTZE33.7	5	15.0*	13.8	6.8	5.3	3410	3	219	102	11 1/8	29 13/16	17 1/8*	163
KTZE43.7	5	15.0*	13.8	6.8	5.3	3410	4	386	61	11 1/8	30 3/16	17 1/8*	163

* : 208 & 220V same motor

* Pump Starting Water Level

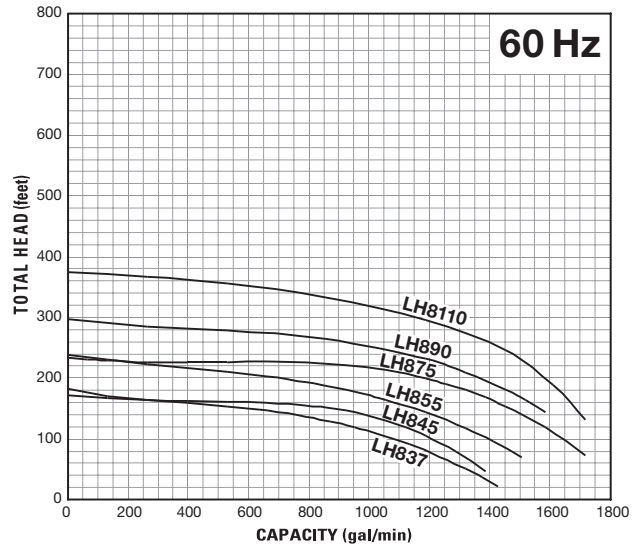
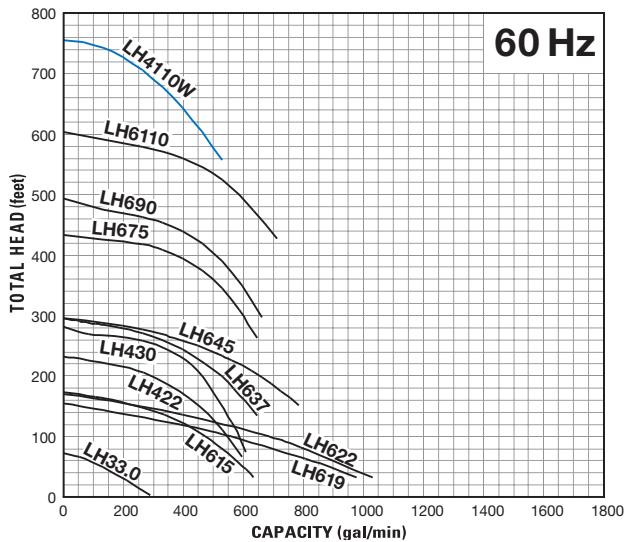
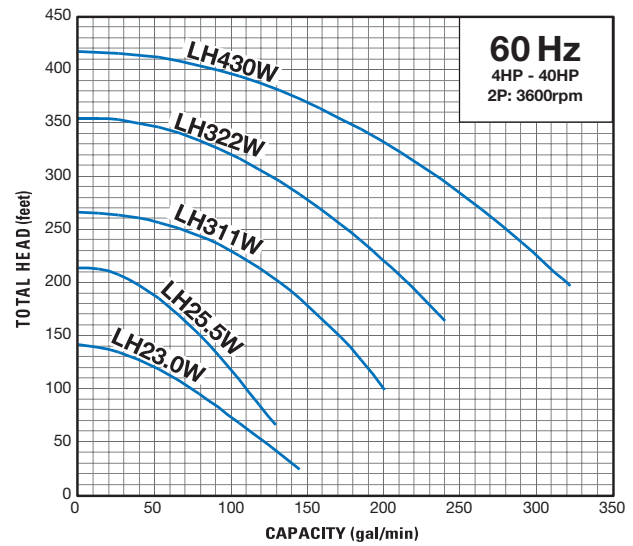


Slimline: LH33.0
- fits into 8" diameter pipes

Material

Impeller:	High Chrome Cast Iron
Casing:	Ductile Cast Iron
Mechanical Seal:	Silicon Carbide
Motor Frame:	Cast Iron
Shaft:	420 Stainless Steel
Fasteners:	304 Stainless Steel
Cable:	Chloroprene Sheath

Performance Curves



LH and LH-W pumps reach heights the competition only dreams of!

Features

- High Pressure Capabilities
- High Pressure Rated Mechanical Seals
- Seal Pressure Relief Ports
- Rugged Iron Construction
- Anti-Wicking Cable Entrance
- Dual Silicon Carbide Mechanical Seals
- Tsurumi's Patented Oil Lifter
- Internal Thermal Motor Protection

The **LH-W series** offers extremely high heads by utilizing dual staged, closed high chrome impellers. The **LH series** handles medium to high flows at higher heads. The durable construction of these pumps make them ideally suited for dewatering of mines and quarries, deep well pumping and any high head or long distance water transfer application.

Dual mechanical seals are isolated in the oil chamber protecting the seal faces from abrasive liquids. High pressure seals, capable of operating depths of 164 ft., are used on all LH-W series pumps and on LH series pumps from 20 to 60 HP. Additional seal protection is provided by Tsurumi's exclusive Seal Pressure Relief Ports. The Pressure Relief Ports provide a flow path above the pump casing to allow a release for water to flow from the pump and away from the shaft. The mechanical seal remains isolated in an oil chamber above this flow path and is protected from any excessive pumping pressure or water hammer that may cause premature wear or failure of mechanical seals in high head pumping applications. Isolating the mechanical seals also protects against wear from abrasive materials in the pumping liquid.



LH/W SERIES

	MODEL	MOTOR SPECIFICATIONS				RPM	PUMP SPECIFICATIONS			DIMENSIONS				
		Motor Output (HP)	Rated Current (A)				Discharge Size (in.)	Maximum Capacity (GPM)	Maximum Head (ft.)	Dimension (in.)		Continuous Running Water Level (in.)	Pump Weight (lbs.)	
			208V	230V	460V					575V	Diameter			Height
LH/W SERIES	LH23.0W	4	12.3*	12.0	6.0	4.7	3430	2	145	140	7 5/16	24 13/16	7 7/8	101
	LH25.5W	7.5	22	19.2	9.6	7.7	3385	2	129	213	9 5/8	29 1/2	6 3/4	176
	LH311W	15	42	37	18.5	14.5	3465	3	201	266	10 5/8	40 5/16	7 7/8	287
	LH322W	30	—	—	35.5	28.0	3490	3	240	354	13	48 5/8	11 3/4	670
	LH430W	40	—	—	48.0	38.5	3475	4	322	417	14 3/8	54 1/8	11 3/4	714
LH4110W	150	—	—	181	145	3570	4	528	755	24 1/2	71 7/8	15 3/4	2800	

* : 208 & 230V same motor

	MODEL	MOTOR SPECIFICATIONS				RPM	PUMP SPECIFICATIONS			DIMENSIONS				
		Motor Output (HP)	Rated Current (A)				Discharge Size (in.)	Maximum Capacity (GPM)	Maximum Head (ft.)	Dimension (in.)		Continuous Running Water Level (in.)	Pump Weight (lbs.)	
			208V	230V	460V					575V	Diameter			Height
LH SERIES	LH33.0	4	12.3*	12.0	6.0	4.7	3430	3	290	73	7 5/16	25 3/8	5 7/8	93
	LH615	20	53.0	48.0	24.0	19.0	3465	6	634	173	13	39 15/16	17 1/4	470
	LH619	25	—	—	31	25	3490	6	845	131	16 9/16	56	10 5/8	770
	LH422	30	—	—	36	28.5	3490	4	528	230	16 9/16	53 1/4	9 7/8	770
	LH622	30	—	—	36	28.5	3490	6	845	164	16 9/16	56	10 5/8	790
	LH430	40	—	—	51	38.5	3475	4	573	123	16 9/16	53 1/4	9 7/8	780
	LH637	50	—	—	58	46	3525	6	647	294	20 7/8	57	7 1/8	1090
	LH837	50	—	—	58	46	3525	8	1413	171	20 7/8	58 9/16	7 1/8	1090
	LH645	60	—	—	67	53	3530	6	779	295	20 7/8	57	7 1/8	1120
	LH845	60	—	—	67	53	3530	8	1387	177	20 7/8	58 9/16	7 1/8	1120
	LH855	75	—	—	87	70	3530	8	1506	236	21 5/8	67 9/16	7 7/8	1810
	LH675	100	—	—	113	91	3530	6	647	433	21 5/8	66	7 7/8	1910
	LH875	100	—	—	113	91	3530	8	1717	230	21 5/8	67 9/16	7 7/8	1910
	LH690	120	—	—	137	110	3500	6	660	492	23 5/16	70 3/8	7 7/8	2420
	LH890	120	—	—	137	110	3500	8	1585	295	23 5/16	70 3/8	7 7/8	2530
	LH6110	150	—	—	180	136	3530	6	713	604	23 5/16	74 5/16	7 7/8	2850
LH8110	150	—	—	180	136	3530	8	1717	374	23 5/16	74 5/16	7 7/8	2960	

* : 208 & 230V same motor

KTV(E)

Lightweight, compact, durable and self-contained automatic operation



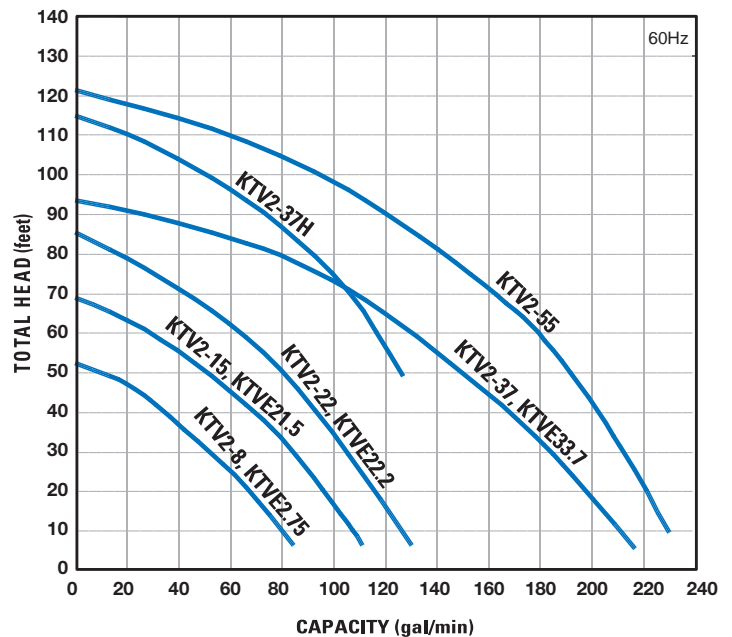
Built-in Automatic Operation KTV(E):

Allows a three phase pump to operate automatically in a smaller casing or sump where traditional float switches don't fit.

Material

Impeller:	Abrasion Resistant / Urethane Lined
Casing:	Aluminum
Mechanical Seal:	Silicon Carbide
Motor Frame:	Aluminum Alloy
Shaft:	403 / 420 Stainless Steel
Fasteners:	304 Stainless Steel
Cable:	PVC Sheath, Chloroprene Sheath

Performance Curves



KTV(E) pumps are easily portable and highly resistant to wear!

Features

- Lightweight, Compact Size
- Long Life and Low Maintenance
- Simple Construction for Easy Repair
- Anti-Wicking Cable Entrance
- Dual Silicon Carbide Mechanical Seals
- Tsurumi's Patented Oil Lifter
- Internal Thermal Motor Protection
- Automatic Operation on KTVE Series



The **KTV series** was developed with a die cast aluminum body and elastomer pump end to reduce weight and allow easy handling. The semi-vortex impeller allows for maximum particle passage size while offering increased parts life. In addition, the need for impeller efficiency adjustments has been completely eliminated.

The **KTVE series** offers the same features as the KTV series with the added benefit of an integrally mounted electrode probe for turning the pump on and off automatically. Unnecessary dry-run is prevented to save energy and reduce wear without the need for auto control panels and cumbersome float assemblies. The pump installs and handles like a standard pump yet operates automatically by simply connecting to a manual control panel.

MODEL	MOTOR SPECIFICATIONS					RPM	PUMP SPECIFICATIONS			DIMENSIONS		Continuous Running Water Level (in.)	Pump Weight (lbs.)
	Motor Output (HP)	Rated Current (A)					Discharge Size (in.)	Maximum Capacity (GPM)	Maximum Head (ft.)	Dimension (in.)			
		208V	230V	460V	575V					Diameter	Height		
KTV SERIES KTV2-8	1	3.4*	3.2	1.6	1.3	3320	2	85	53	7 7/8	14 1/2	2 1/2	25
KTV2-15	2	6.0	5.4	2.7	2.1	3440	2	111	69	9 7/16	15 9/16	3 1/8	46
KTV2-22	3	8.2	7.4	3.7	2.9	3440	2	130	85	9 7/16	16 3/8	3 1/8	51
KTV2-37H	5	14.2	12.6	6.3	5.0	3450	2	127	115	11 1/4	20 1/16	3 1/2	79
KTV2-37	5	14.2	12.6	6.3	5.0	3450	3	217	94	11 1/4	20 1/16	3 1/2	79
KTV2-55	7.5	21.5	19.0	9.5	7.5	3435	3	230	121	11 13/16	21 7/16	3 1/2	104

* : 208 & 230V same motor

MODEL	MOTOR SPECIFICATIONS					RPM	PUMP SPECIFICATIONS			DIMENSIONS		Continuous Running Water Level (in.)	Pump Weight (lbs.)
	Motor Output (HP)	Rated Current (A)					Discharge Size (in.)	Maximum Capacity (GPM)	Maximum Head (ft.)	Dimension (in.)			
		208V	230V	460V	575V					Diameter	Height		
KTVE SERIES KTVE2.75	1	3.4*1	3.2*2	1.7	1.3	3320	2	85	53	7 7/8	16 7/16	*9 1/4	28
KTVE21.5	2	6.0	5.4	2.7	2.1	3440	2	111	69	9 7/16	16 3/4	*10 1/2	48
KTVE22.2	3	8.2	7.4	3.7	2.9	3440	2	130	85	9 7/16	16 3/4	*10 1/2	55
KTVE33.7	5	14.2	12.6	6.3	5.0	3450	3	217	94	11 1/4	23 1/16	*12 7/8	88

*1 208 & 220V same motor *2 220V

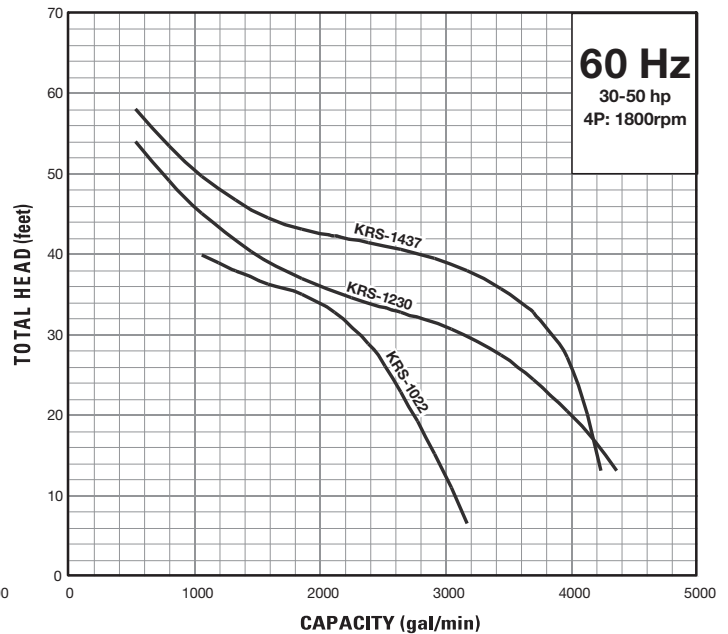
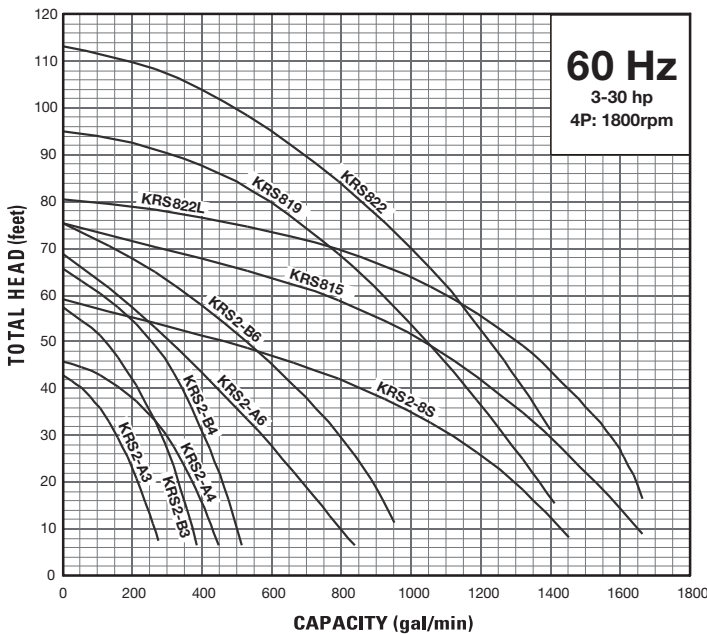
* Pump Starting Water Level



Material

Impeller:	Ductile or High Chrome
Casing:	Cast Iron
Mechanical Seal:	Silicon Carbide
Motor Frame:	Cast Iron
Shaft:	420 Stainless Steel
Fasteners:	304 Stainless Steel
Cable:	Chloroprene Sheath

Performance Curves



KRS pumps provide high volume performance and extended pump life!

Features

- High Pump Volume
- 4 Pole, 1800 RPM Motors •
6 Pole, 1200 RPM Motors
- Lower Impeller Tip Speeds for Longer Life
- Rugged Iron Construction
- Anti-Wicking Cable Entrance
- Dual Silicon Carbide Mechanical Seals
- Tsurumi's Patented Oil Lifter
- Internal Thermal Motor Protection



The **KRS series** offers longer wear life on parts due to the slower impeller tip speed provided by 4-pole, 1800 RPM / 6-pole, 1200 RPM motors. Reducing impeller speed by half will extend your parts wear life by at least 2 to 3 times.

The iron construction of the KRS series extends the life of the pump. To prevent premature wear and failure from abrasive materials, Tsurumi's dual inside mechanical seals are completely isolated in an oil chamber with an extra lip seal to protect mechanical seals from the pumped liquid.

The KRS series exemplifies Tsurumi's design for multi-purpose pumps to fit a wide variety of applications due to their simple construction, superb durability and high efficiency.

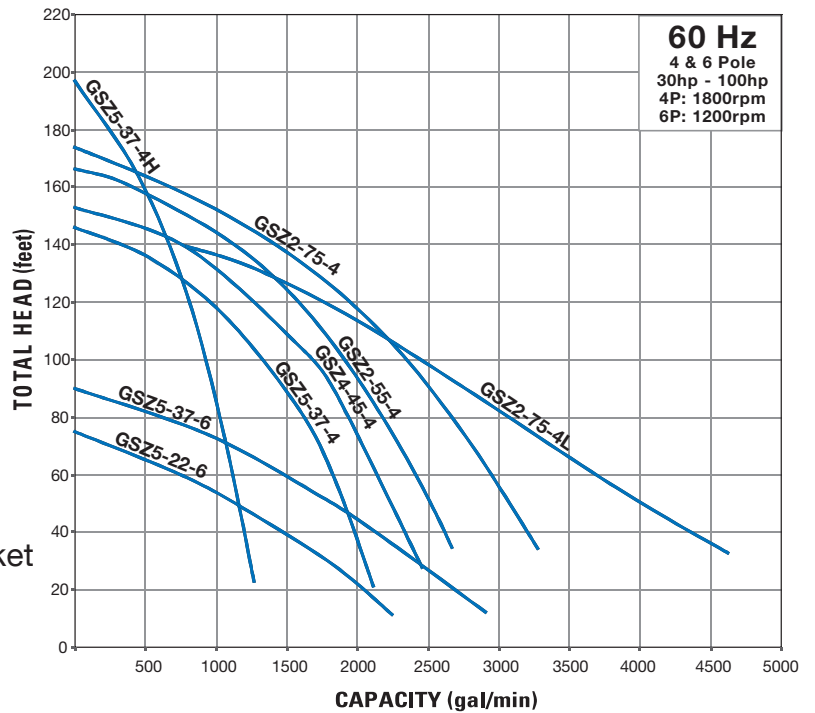
KRS SERIES

MODEL	MOTOR SPECIFICATIONS					PUMP SPECIFICATIONS				DIMENSIONS			
	Motor Output (HP)	Rated Current (A)				RPM	Discharge Size (in.)	Maximum Capacity (GPM)	Maximum Head (ft.)	Dimension (in.)		Continuous Running Water Level (in.)	Pump Weight (lbs.)
		208V	230V	460V	575V					Diameter	Height		
KRS2-A3	3	9.4*	8.6	4.3	3.4	1700	3	276	43	13 3/8	23 5/8	5 3/4	159
KRS2-B3	5	15.0*	13.8	6.9	5.5	1690	3	383	57	13 3/4	26 15/16	6 1/8	196
KRS2-A4	5	15.0*	13.8	6.9	5.5	1690	4	450	46	13 3/4	26 15/16	6 1/8	194
KRS2-B4	7.5	21.4*	19.6	9.8	7.6	1720	4	515	65	13 3/4	26 9/16	6 1/8	209
KRS2-A6	10	29.0*	26.0	13.0	10.5	1730	6	819	69	16 5/16	27 13/16	6 7/8	286
KRS2-B6	15	42.0*	39.0	19.5	14.5	1735	6	936	75	16 5/16	29 5/8	6 7/8	330
KRS2-8S	15	42.0*	39.0	19.5	14.5	1735	8	1453	59	18 9/16	33 3/8	11 3/4	383
KRS815	20	57.9*	55.7	27.9	22.2	1735	8	1664	76	18 15/16	38 9/16	10 7/8	530
KRS819	25	—	—	33.0	26.4	1750	8	1413	95	22 11/16	45 5/16	13 5/8	790
KRS822	30	—	—	38.5	30.8	1745	8	1400	113	22 11/16	45 5/16	13 5/8	840
KRS822L	30	—	—	38.5	30.8	1745	8	1664	80	22 11/16	45 5/16	13 5/8	840
KRS1022	30	—	—	39.6	31.5	1730	10	3170	40	20 5/8	49 1/8	17 3/4	860
KRS1230	40	—	—	53.0	43.0	1165	12	4359	54	26 3/8	55 1/4	18 7/8	1540
KRS1437	50	—	—	65.0	52.0	1165	14	4227	58	26 3/8	55 1/4	18 7/8	1650

* : 208 & 230V same motor



Performance Curves



Material

- Impeller: High Chrome or Stainless Steel
- Casing: Cast Iron
- Mechanical Seal: Silicon Carbide
- Motor Frame: Cast Iron / Cooling Jacket
- Shaft: 420 Stainless Steel
- Fasteners: 304 Stainless Steel
- Cable: Chloroprene Rubber

GSZ dewatering pumps are designed to last in aggressive dewatering applications!

Features

- High Pumping Volume
- 4 Pole, 1800 RPM Motors
6 Pole, 1200 RPM Motors
- Lower Impeller Tip Speeds for Longer Life
- Rugged Iron Construction
- Anti-Wicking Cable Entrance
- Dual Silicon Carbide Mechanical Seals
- Tsurumi's Patented Oil Lifter
- Internal Thermal Motor Protection



The **GSZ series** is one of the most formidable high volume submersible dewatering pumps available. Reducing impeller speed by half will extend your parts wear life by at least 2-3 times. With impeller materials of High Chrome and Stainless Steel, the GSZ series tackles the most aggressive dewatering applications. The side discharge design allows a smooth passage of abrasive materials.

Tsurumi's exclusive Seal Pressure Relief Ports further protect the mechanical seals on the 4-pole, 1800 RPM models by providing a flow path above the pump casing to allow a release of water to flow from the pump and away from the shaft. The mechanical seals remain isolated in the oil chamber above this flow path and are protected from any excessive pumping pressure or water hammer that may cause premature wear or failure of the mechanical seals in high pressure applications.

Extended operation at low water levels is made possible by utilizing a water jacket that surrounds the motor housing. A portion of the water is allowed to flow completely around the motor on its way to the side discharge. Air lock is prevented by an air-release valve at the top of the water jacket to allow air in the pump casing and water jacket to be displaced by water when the pump begins operation.

MODEL	MOTOR SPECIFICATIONS					PUMP SPECIFICATIONS				DIMENSIONS			
	Motor Output (HP)	Rated Current (A)				RPM	Discharge Size (in.)	Maximum Capacity (GPM)	Maximum Head (ft.)	Dimension (in.)		Continuous Running Water Level (in.)	Pump Weight (lbs.)
		208V	230V	460V	575V					Diameter	Height		
GSZ5-22-6	30	—	—	41	33	1160	8	2113	79	38	53 9/16	13 3/4	1670
GSZ5-37-4H	50	—	—	63	49.5	1750	6	1268	197	35 7/16	61 1/8	17 3/8	1380
GSZ5-37-4	50	—	—	63	49.5	1750	8	2113	143	36	62 5/16	18 7/8	1330
GSZ5-37-6	50	—	—	64	52	1160	8	2906	90	41 1/4	55 15/16	14 5/8	1590
GSZ4-45-4	60	—	—	76	63	1745	8	2457	153	36	62 5/8	18 1/8	1370
GSZ-55-4	75	—	—	97	76	1775	10	2668	166	41 5/16	75 7/8	20 1/8	2430
GSZ-75-4	100	—	—	128	101	1775	10	3276	174	41 5/16	75 7/8	20 1/8	2680
GSZ-75-4L	100	—	—	128	101	1775	*10	4623	139	41 5/16	77 5/8	28 3/4	2730

* With 1ft ANSI Flange

Agitator Pumps

Available in:
HS, HSD, NK, KTV, KTD,
KRS, GPN & GSD Series



Tsurumi's agitator pumps are ideal for quarry and gravel pit drainage. Abrasive resistant three-phase and single-phase pumps are available with either cast iron or synthetic rubber casings, and come complete with high chrome agitators, impellers, and suction covers.

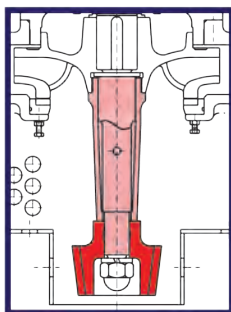
NEW Agitator Pump

GSD High-powered heavy-duty slurry pump that delivers strong agitation, high head and high volume discharge

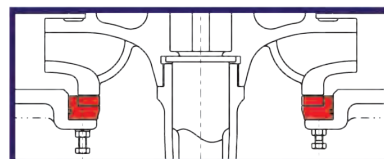


The GSD Series pump is a heavy-duty slurry pump that delivers high head and high volume discharge. It is designed and built for continuous operation under the rough conditions often found at mega-construction sites and mines.

The GSD Series is a submersible three-phase high power, high head and high volume heavy-duty slurry pump driven by a 4-pole motor. It is equipped with a high-chromium cast iron agitator that assists smooth suction of the settled matters. The pump parts such as the impeller and the suction cover are made of wear-resistant materials. 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. The pump incorporates seal pressure relief ports that prevent the pumping pressure from applying to the shaft seal.



Agitator



Suction Plate

Agitator

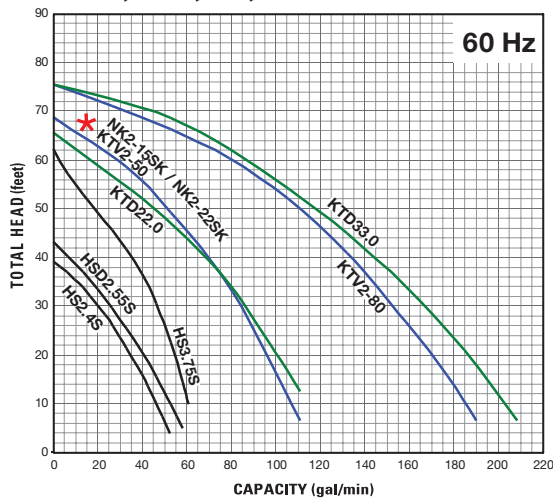
The agitator mounted on the motor shaft-end facilitates efficient suction of the settled slurry, sand, or mud.

Suction Plate

Field adjustable components on the GPN622 and GSD series allow for quick and easy adjustment of impeller to suction plate/ring so that dropped performance can be restored.

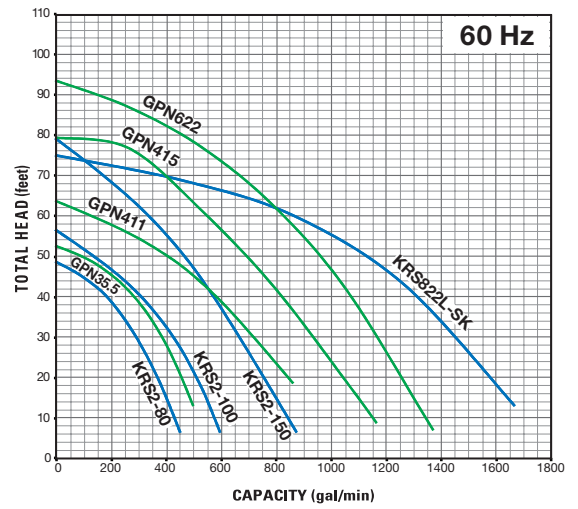
Performance Curves

HS, HSD, NK, KTV and KTD Series

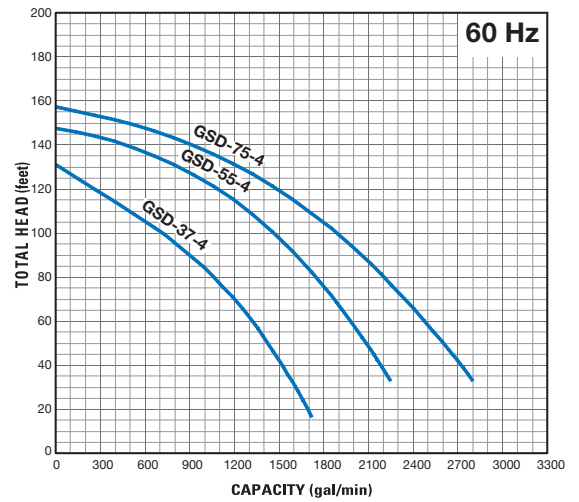


	Standard	High Torque	
Single Phase	NK2-15SK 2HP (1.5kW)	NK2-22SK 3HP (2.2kW)	High Torque models further suitable for heavy duty application.
Three Phase		KTV2-50 2.7HP (2.0kW)	

KRS and GPN Series



GSD Series



MODEL	MOTOR SPECIFICATIONS								PUMP SPECIFICATIONS			DIMENSIONS				
	Motor Output (HP)	Phase	Rated Current (A)						RPM	Discharge Size (in.)	Maximum Capacity (GPM)	Maximum Head (ft.)	Dimension (in.)		Continuous Running Water Level (in.)	Pump Weight (lbs.)
			Single phase		Three phase								Diameter	Height		
	115V	230V	208V	230V	460V	575V										
HS2.4S	1/2	Single	5.2	2.7	—	—	—	—	3320	2	53	39	10 1/16	12 15/16	3 1/2	25
HS3.75S	1	Single	9.7	4.9	—	—	—	—	3411	3	61	62	12 7/16	15 5/16	3 1/2	43
HSD2.55S	3/4	Single	7.3	3.7	—	—	—	—	3390	2	58	43	10 3/8	15 3/8	4 1/8	34
NK2-15SK	2	Single	23.0*1	11.5*1	—	—	—	—	3440	3	111	69	9 13/16	26	4 3/4	71
NK3-22SK	3	Single	—	13	—	—	—	—	3465	3	111	69	9 13/16	26	4 3/4	71
GPN35.5	2.7	Three	—	—	7	6.4	3.2	2.6	3440	2	111	69	9 13/16	17 7/8	4 3/4	55
KTV2-50	5.4	Three	—	—	11.6	10.6	5.3	4.2	3450	3	190	75	11 5/8	21 5/8	5 1/8	84
KTD22-0	2.7	Three	—	—	8.7*2	8.2	4.1	3.3	3410	2	111	66	9 1/4	23 3/16	5 1/2	86
KTD33-0	4	Three	—	—	12.0*2	11.4	5.9	4.5	3410	3	209	75	11 11/16	25 3/4	6 1/4	145
KRS2-80	6	Three	—	—	18.0*2	16.5	8.5	6.6	1720	3	449	49	13 3/4	30 3/16	9 7/8	231
KRS2-100	8	Three	—	—	25.0*2	23	11.5	9.2	1730	4	594	56	16 3/8	29 11/16	9 7/8	315
KRS2-150	12	Three	—	—	36.0*2	33	16.5	13.2	1735	6	872	79	16 3/8	31 15/16	9 7/8	357
KRS822L-SK	30	Three	—	—	—	—	38.5	30.8	1745	8	1664	75	22 11/16	46 5/8	13	840
GPN35.5	7.5	Three	—	—	21.1	20.0*3	9.8	7.6	1720	3	497	52	19 3/16	30 9/16	10 5/8	319
GPN411	15	Three	—	—	42.0	39.0*3	19.5	14.5	1735	4	859	64	24 5/16	33 7/8	11 5/8	478
GPN415	22	Three	—	—	55.0	52.0*3	24.0	20.0	1735	4	1162	79	24 5/16	33 7/8	11 5/8	485
GPN622	30	Three	—	—	—	—	36.5	29.5	1750	6	1368	94	28 9/16	43 3/8	11 3/4	910
GSD-37-4	50	Three	—	—	—	—	63	49.5	1740	8	1717	131	36	62 5/16	18 7/8	1290
GSD-55-4	75	Three	—	—	—	—	97	76	1775	10	2245	148	41 5/16	75 7/8	20 1/8	2440
GSD-75-4	100	Three	—	—	—	—	128	101	1775	10	2800	157	41 5/16	75 7/8	20 1/8	2690

*1 : Dual Voltage *2 : 208 & 230V same motor *3 : 220V (same motor 208 & 220V)

SFQ/SQ

Stainless Steel pumps



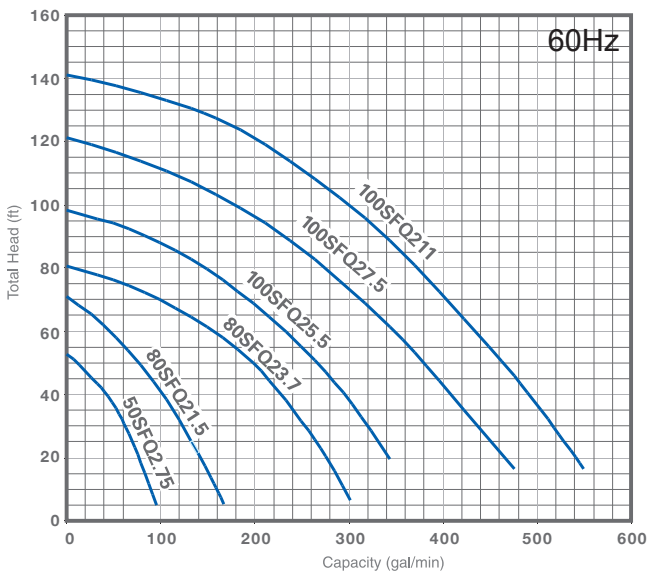
SFQ



Material

Impeller:	316 Stainless Steel
Casing:	316 Stainless Steel
Mechanical Seal:	Silicon Carbide
Motor Frame:	316 Stainless Steel
Shaft:	316 Stainless Steel
Fasteners:	316 Stainless Steel
Cable:	PVC Sheath, Chloroprene Sheath

Performance Curves



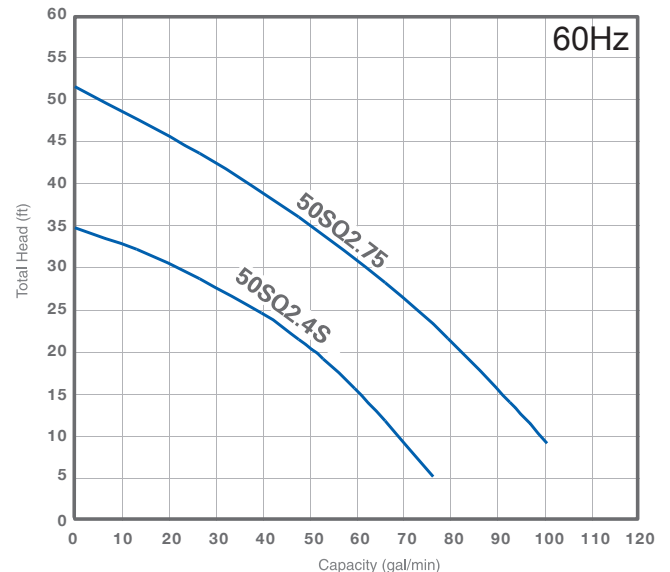
SQ



Material

Impeller:	304 Stainless Steel
Casing:	304 Stainless Steel
Mechanical Seal:	Silicon Carbide
Motor Frame:	304 Stainless Steel
Shaft:	304 Stainless Steel
Fasteners:	304 Stainless Steel
Cable:	PVC Sheath, Chloroprene Sheath

Performance Curves



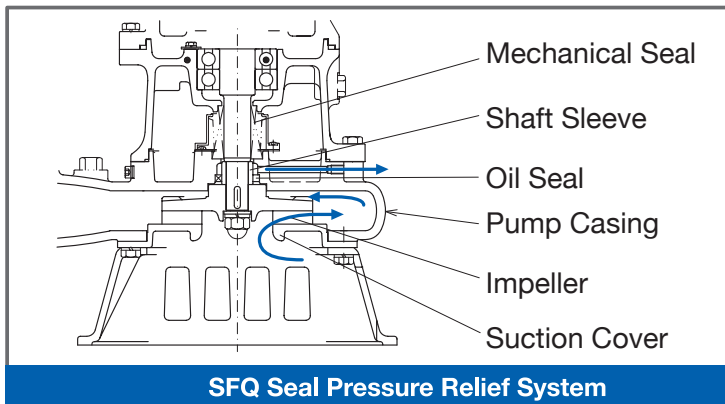
Stainless steel pumps are rust free and corrosive resistant!

Features: SFQ Series

- All wetted components are 316 Stainless Steel
- Viton elastomers
- Dual inside mechanical seals with Silicon Carbide faces, operate in an oil filled chamber and are protected by an exclusionary lip seal, providing the most durable seal available.
- Optional 316 SS Guide rail system is available for models from 7.5 - 15hp.
- Built in motor protector senses excess heat and amperage draw built up in the motor.
- Seal pressure relief system features an independent chamber separate from the oil casing in which the mechanical seal is housed. (From 7.5 - 15hp)

Features: SQ Series

- All components including motor frame are made of SS 304 Stainless Steel.
- Non-toxic white mineral oil is used as the lubricant.
- The flow-through design and heat resistant Silicon Carbide Mechanical Seals assist in cooling in the event of run-dry situations.
- Built in motor protector senses excess heat and amperage draw built up in the motor.
- Semi-vortex, stainless steel impeller passes solids and stringy material without clogging and increases wear resistance when pumping abrasive particles.



MODEL	Motor Output (HP)	Phase	MOTOR SPECIFICATIONS						RPM	PUMP SPECIFICATIONS			DIMENSIONS			
			Rated Current (A)							Discharge Size (in.)	Maximum Capacity (GPM)	Maximum Head (ft.)	Dimension (in.)		Continuous Running Water Level (in.)	Pump Weight (lbs.)
			Single phase		Three phase								Diameter	Height		
115V	230V	208V	230V	460V	575V	2	3	4	25 3/8	33 1/4	27 1/8	27 1/8	28			
50SFQ2.75	1	Three	—	—	3.5*	3.1	1.6	1.4	3430	2	95	53	9 15/16	15 5/8	11 6/8	49
80SFQ21.5	2	Three	—	—	6.9*	6.7	3.4	2.7	3450	3	165	71	12 15/16	19 1/16	16 3/8	79
80SFQ23.7	5	Three	—	—	13.8*	12.8	6.4	5	3410	3	301	81	14 1/8	21 5/16	19 1/2	115
100SFQ25.5	7.5	Three	—	—	19.3*	18.2	9.4	7.4	3545	4	343	98	25 3/8	33 1/4	27 1/8	278
100SFQ27.5	10	Three	—	—	26.0*	24.4	12.2	9.6	3545	4	476	122	25 3/8	33 1/4	27 1/8	276
100SFQ211	15	Three	—	—	37.0*	35.2	17.6	13.9	3525	4	550	141	25 3/8	35 1/8	28	320

* : 208 & 230V same motor

MODEL	Motor Output (HP)	Phase	MOTOR SPECIFICATIONS						RPM	PUMP SPECIFICATIONS			DIMENSIONS			
			Rated Current (A)							Discharge Size (in.)	Maximum Capacity (GPM)	Maximum Head (ft.)	Dimension (in.)		Continuous Running Water Level (in.)	Pump Weight (lbs.)
			Single phase		Three phase								Diameter	Height		
115V	230V	208V	230V	460V	575V	2	2	100	51	7 1/16	15 1/8 <td>2 3/8</td> <td>33</td>	2 3/8	33			
50SQ2.4S	1/2	Single	6.5	—	—	—	—	6.5	3376	2	76	35	7 1/16	14 5/16	2 3/8	28
50SQ2.75	1	Three	—	—	3.5*	3.4	1.6	—	3349	2	100	51	7 1/16	15 1/8	2 3/8	33

* : 208 & 220V same motor

LB/LBT

Portable slimline dewatering pump

Fits in **8-inch Pipe!**

LBT SERIES



Material

Impeller Type:	Semi-Vortex (LB-480/LB(T)-800) Semi-Open (LB(T)-1500)
Impeller Material:	Urethane Rubber (LB-480/LB(T)-800) High Chrome (LB(T)-1500)
Volute Casing Material:	Ethylene Propylene Rubber (LB-480) Butadiene Rubber and Natural Rubber (LB(T)-800/1500)
Wear Plate Material:	Urethane Rubber (LB-480/LB(T)-800) Butadiene Rubber and Natural Rubber (LB(T)-1500)
Shaft Seal:	Double inside mechanical seal with Silicone Carbide (All three series)

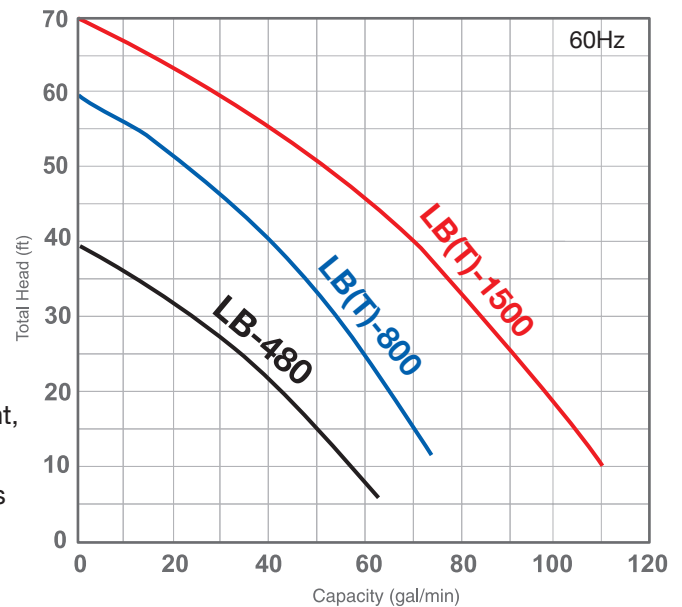
Features: LB-480, LB-800/LBT-800

- Built with durable materials and light weight for easy handling.
- Motor protector protects against overheating, over-current, and run-dry conditions.
- Double Inside Mechanical Seal with Silicon Carbide faces provides the longest operational life.
- Oil Lifter provides lubrication of the seal faces.
- Single-phase is available in automatic operation.

Features: LB-1500/LBT-1500

- Motor protector protects against overheating, over-current, and run-dry conditions.
- Double Inside Mechanical Seal with Silicon Carbide faces provide the longest operational life.
- Oil Lifter provides lubrication of the seal faces.
- High Chrome Iron Semi-Open Impeller resists wear from abrasive particles.
- Synthetic Rubber Pump Casing provides wear resistance and easy maintenance.
- Optional 2 inch discharge available for LB(T)-1500 series.

Performance Curves



MODEL	MOTOR SPECIFICATIONS								PUMP SPECIFICATIONS			DIMENSIONS				
	Motor Output (HP)	Phase	Rated Current (A)						RPM	Discharge Size (in.)	Maximum Capacity (GPM)	Maximum Head (ft.)	Dimension (in.)		Continuous Running Water Level (in.)	Pump Weight (lbs.)
			Single phase		Three phase								Diameter	Height		
LB-480	1/2	Single	5.9	3	—	—	—	—	3525	2	62.4	39.5	7 11/16	11 1/4	2	21
LB-800	1	Single	10.5	5.2	—	—	—	—	3316	2	82	59	7 9/16	13 7/16	2	29
LBT-800	1	Three	—	—	3.6*	3.7	1.7	1.4	3404	2	82	59	7 9/16	13 7/16	2	28
LB-1500	2	Single	26.2	13.2	—	—	—	—	3480	3	111	69	7 3/8	23 5/16	3 1/8	72
LBT-1500	2	Three	—	—	7.2*	8	4	2.9	3515	3	111	69	7 3/8	23 5/16	3 1/8	70

* : 208 & 230V same motor

EPT4

Heavy Duty Prime Assisted Trash Pump



EPT4-150DPJD: Priming assisted



EPT4-150DPQJD: Sound attenuated priming assisted



EPT4-150DPSJD: Skid mount priming assisted

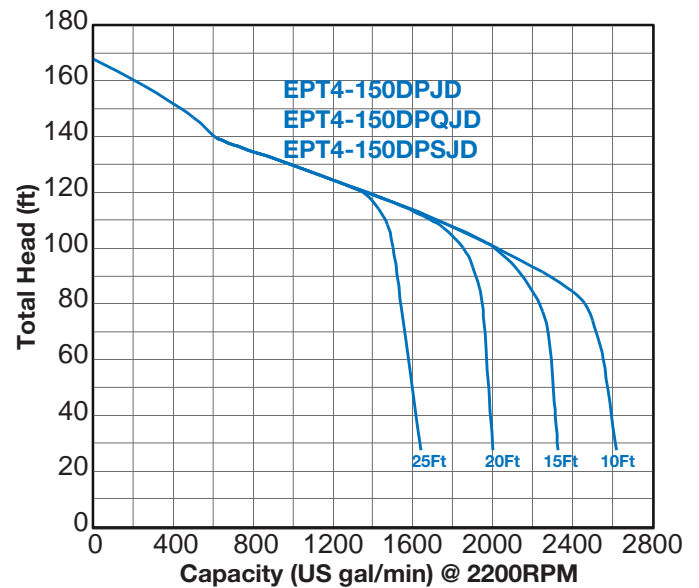
Material

Impeller Type:	Fully Enclosed
Impeller Material:	Cast Iron
Volute Casing Material:	Cast Iron
Wear Plate / Ring Material:	Cast Iron
Pump Casing Material:	Cast Iron
Shaft Seal:	Tungsten Carbide Silicone Carbide

EPT4-150DP(Q)(S)JD Features

- Prime assisted pump utilizes venturi system for priming.
- John Deere diesel engine, and water cooled.
- Passes 3 inch spherical solids.
- Mechanical seal is tungsten and silicon carbide seal faces, viton elastomers, 303 stainless steel hardware and spring. Seal system designed for dry running.
- Heavy duty road trailer.
- EPT4-150DPQJD: Capable of quiet operation.

Performance Curve



EPT4 SERIES

Model	PUMP SPECIFICATIONS				ENGINE SPECIFICATIONS				DIMENSIONS			
	Discharge Size (inch)	Maximum Capacity (gpm)	Maximum Head (feet)	Engine *	Output (hp)	Fuel	Fuel Tank Capacity (gal)	Starting Method	Length (inch)	Width (inch)	Height (inch)	Weight (lbs.)
EPT4-150DPJD Standard				John Deere	74	Diesel	60		136 1/2	67	67 7/8	3360
EPT4-150DPQJD Sound Attenuated	6	2400	160	4045TF290			130	Electric, 12V	161 1/2	76 1/8	79 13/16	4800
EPT4-150DPSJD Skid Mount							120		100	42	49 1/2	2900

* Engine manufacturer and model may vary based on availability.

Tsurumi Pump Accessories

CONTROL PANELS

Automatic Control Panels

- UL Listed Nema 4X Fiberglass Enclosure
- HOA Selector Switch
- IEC Rated Magnetic Contactor
- Field Adjustable Overload Protection
- Includes (2) 50" Mechanical Floats



Manual Control Panels

- UL Listed
- Hand/Off Lockable Selector Switch
- IEC Rated Magnetic Contactor
- Field Adjustable Overload Protection
- Nema 4X Fiberglass Enclosure



MOISTURE DETECTOR



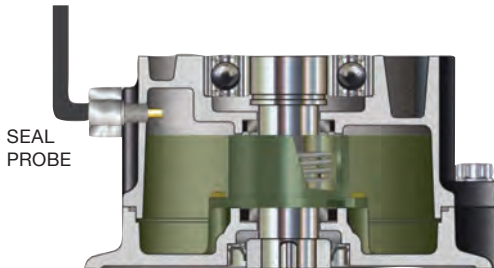
The **TSMF SEAL MOISTURE PROBE** is designed to detect moisture in the mechanical seal chamber, alerting customers of potential motor failure. The **TSMF SEAL MOISTURE PROBE** can be field installed on new or existing Tsurumi pump models and connected to the control panel for the appropriate alarm or notification.

Principle of Operation:

Sensor is installed through the oil port and directly into the mechanical seal chamber which contains an electrically non-conductive oil. The presence of water changes the chamber fluid mixture to a conductive condition and therefore completes the circuit which will result in a leakage indication on the control panel.

Electrical Specification

Sensor Type:	Conductive
Suggested Seal Fail Relay Voltage:	24VAC
Required Wiring:	Single wire in separate sensor cable to be connected to seal leak relay in control panel by customer.



 **TSURUMI PUMP**
Technosub

INDUSTRIAL PUMPS
DEWATERING SOLUTIONS

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