



TSURUMI PUMP®

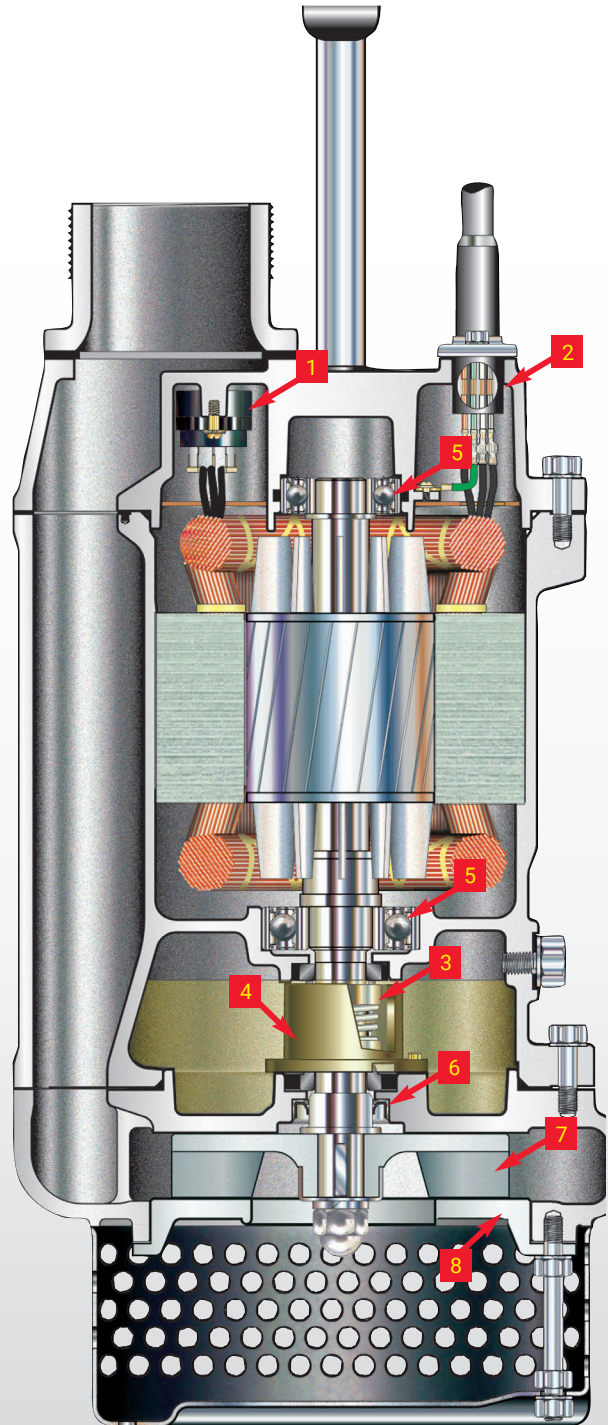
BUILT FOR WORK®

THREE PHASE CONTRACTOR PUMPS



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

- 1 Motor Protector:**
Thermal protector integral to the motor, directly cuts the motor circuit if excessive heat builds up.
- 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 / Ductile Iron Impeller:**
Resists wear by abrasive particles.
- 8 Field Adjustable / Replaceable 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.

KTZ(E) SERIES | High volume, extra durable pump available in variety of sizes



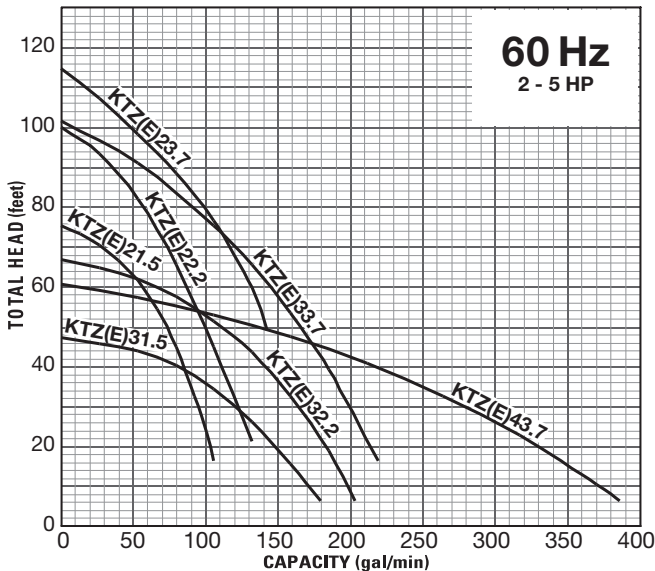
Material

- 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 Sheath

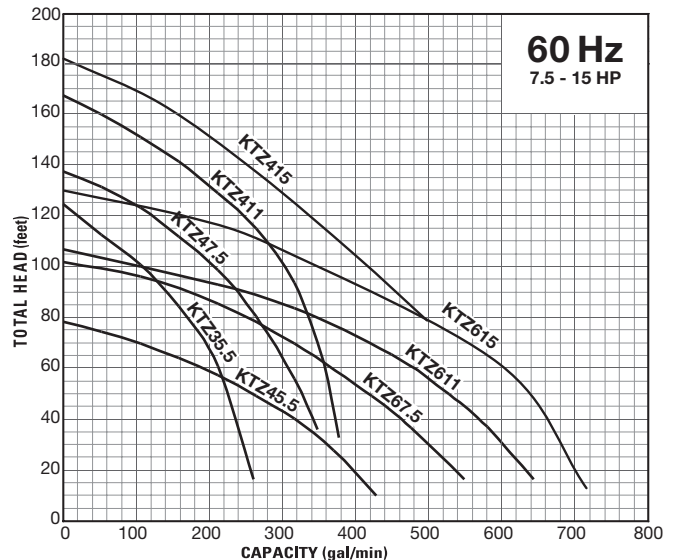
Features

- 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
- Oil Lifter
- Internal Thermal Motor Protection
- Automatic Operation on KTZE Series

Group Performance Curves: KTZE 2 - 5 HP

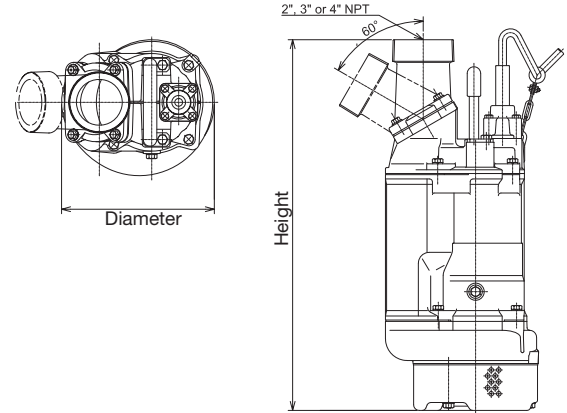


Group Performance Curves: KTZ 7.5 - 15 HP



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	Discharge Size (inch)	DIMENSION		Max. Solids Dia. (inch)	Continuous Running Water Level (in.)	Pump Weight (lbs.)
	Output (HP)	Rated Current (A)						Diameter	Height			
		208V	230V	460V	575V							
KTZ21.5	2	6.2	6.0	3.1	2.3	3600	2	9 1/4	25 1/2	0.334	4 3/4	77
KTZ31.5	2	6.2	6.0	3.1	2.3	3600	3	9 1/4	25 1/2	0.334	4 3/4	75
KTZ22.2	3	9.4	9.0	4.5	3.5	3600	2	9 1/4	26 5/16	0.334	4 3/4	79
KTZ32.2	3	9.4	9.0	4.5	3.5	3600	3	9 1/4	26 5/16	0.334	4 3/4	77
KTZ23.7	5	15	13.6	6.8	5.3	3600	2	11 1/8	26 1/4	0.334	5 7/8	137
KTZ33.7	5	15	13.6	6.8	5.3	3600	3	11 1/8	26 5/8	0.334	5 7/8	137
KTZ43.7	5	15	13.6	6.8	5.3	3600	4	11 1/8	27 1/16	0.334	5 7/8	137
KTZ35.5	7.5	21	19.7	10	7.9	3600	3	12 1/16	28 3/8	0.334	5 7/8	167
KTZ45.5	7.5	21	19.7	10	7.9	3600	4	12 1/16	28 3/4	0.334	5 7/8	170
KTZ47.5	10	29.8	27.3	13.3	10.4	3600	4	13	31 7/8	0.472	7 1/2	229
KTZ67.5	10	29.8	27.3	13.3	10.4	3600	4 (6)*	13 (14 7/16)*	31 7/8	0.787	7 1/2	222 (227)*
KTZ411	15	39.8	37.4	18.6	14.9	3600	4	14 3/4	32 15/16	0.472	7 1/2	293
KTZ415	20	—	—	24.4	—	3600	4 (6)*	14 3/4	33 11/16	0.472	7 1/2	315
KTZ611	15	39.8	37.4	18.6	14.9	3600	4 (6)*	14 3/4	32 15/16 (33 11/16)*	0.787	7 1/2	293
KTZ615	20	—	—	24.4	—	3600	4 (6)*	14 3/4	36 7/16	0.787	7 1/2	322

(*) 6inch is optional

MODEL	MOTOR SPECIFICATIONS					RPM	Discharge Size (inch)	DIMENSION		Max. Solids Dia. (inch)	Pump Starting Water Level (in.)	Pump Weight (lbs.)
	Output (HP)	Rated Current (A)						Diameter	Height			
		208V	220V	460V	575V							
KTZE21.5	2	6.2	6.0	3.1	2.3	3600	2	9 1/4	28 11/16	0.334	13 5/8*	88
KTZE31.5	2	6.2	6.0	3.1	2.3	3600	3	9 1/4	28 11/16	0.334	13 5/8*	86
KTZE22.2	3	9.4	9.0	4.5	3.5	3600	2	9 1/4	29 7/16	0.334	14*	93
KTZE32.2	3	9.4	9.0	4.5	3.5	3600	3	9 1/4	29 7/16	0.334	14*	90
KTZE23.7	5	15	13.8	6.8	5.3	3600	2	11 1/8	29 7/16	0.334	17 1/8*	163
KTZE33.7	5	15	13.8	6.8	5.3	3600	3	11 1/8	29 13/16	0.334	17 1/8*	163
KTZE43.7	5	15	13.8	6.8	5.3	3600	4	11 1/8	30 3/16	0.334	17 1/8*	163

LH / LHW SERIES | Extreme high pressure pumping at high volumes



LH33.0

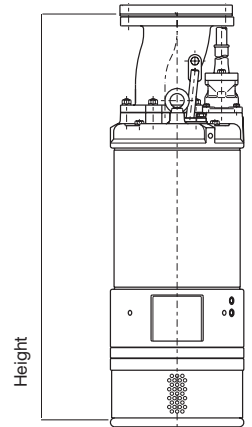
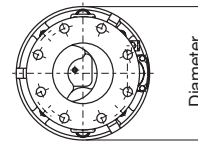
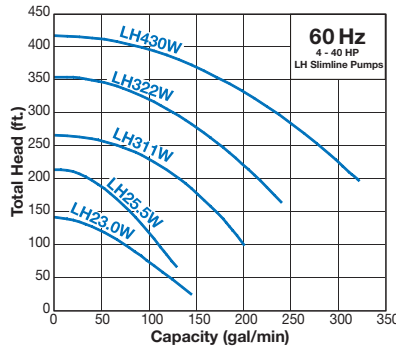
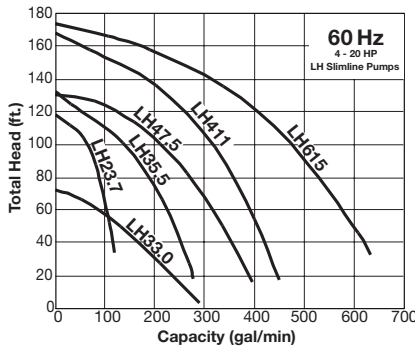
Material

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

Features

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

Group Performance Curves: LH / LHW Series Pumps



LH Series handles medium to high flows at higher heads, yet its top discharge flow-through design allows for low water level operation for extended periods. Constructed with a high chromium semi-open impeller and adjustable wear rings, our LH pumps provide increased wear resistance whether used for construction site drainage, or commercial/industrial mine dewatering, or effluent transfer.

LH-W series achieves extremely high head pressure. Our dual enclosed impellers are just one of many features engineered into these durable pumps which can help solve long distance water transfer needs.

: Slimline Pumps - Pump diameter less than 15"

MODEL	MOTOR SPECIFICATIONS						Discharge Size (inch)	DIMENSION		Max. Solids Dia. (inch)	Continuous Running Water Level (in.)	Pump Weight (lbs.)
	Output (HP)	Rated Current (A)				RPM		Diameter	Height			
		208V	230V	460V	575V							
LH23.0W	4	12.3	12	6.0	4.7	3600	2	7 5/16	24 13/16	0.236	7 7/8	101
LH33.0	4	12.3	12	6.0	4.7	3600	3	7 5/16	25 3/8	0.236	5 7/8	93

LB • LBT | Portable slimline dewatering pump



LB-480



LB(T)-1500



LB(T)-800

Material

Model	LB-480 / LB(T)-800	LB(T)-1500
Impeller:	Semi-Vortex	Semi-Open
Impeller Materials:	Urethane Rubber	High Chrome Cast Iron
Volute Casing Materials:	LB-480 - Ethylene Propylene Rubber LB(T)-800 - Butadiene Rubber & Natural Rubber LB(T)-1500 - Butadiene Rubber, Natural Rubber & Steel	
Wear Plate Materials:	LB-480 & LB(T)-800 - Urethane Propylene Rubber LB(T)-1500 - Butadiene Rubber & Natural Rubber	
Shaft Seal:	Double inside mechanical seal with silicone carbide	

Features

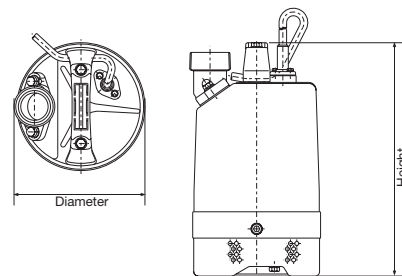
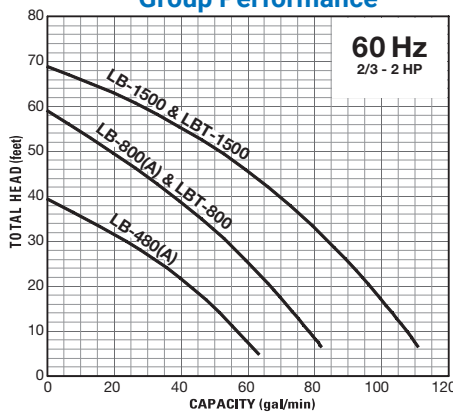
All Models:

- Built with durable yet light weight materials
- Built-in Motor Protector
- Double Inside Mechanical Seal with Silicon Carbide faces
- Oil Lifter provides lubrication of the seal faces
- Single-phase is available in automatic operation

LB(T)-1500 only:

- High Chrome Iron Semi-Open Impeller
- Synthetic Rubber Pump Casing
- Optional 2" discharge available

Group Performance



MODEL	MOTOR SPECIFICATIONS								Discharge Size (inch)	DIMENSION		Max. Solids Dia. (inch)	Continuous Running Water Level (in.)	Pump Weight (lbs.)	
	Motor Output (HP)	Phase	Rated Current (A)							RPM	Diameter (in.)				Height (in.)
			Single phase		Three phase										
115V	230V	208V	230V	460V	575V										
LB-480	2/3	Single	5.9	3	—	—	—	—	3600	2	7 11/16	11 1/4	0.236	2	28
LB-800	1	Single	10.5	5.2	—	—	—	—	3600	2	7 9/16	13 7/16	0.236	2	38
LBT-800	1	Three	—	—	3.6	3.7	1.7	1.4	3600	2	7 9/16	13 7/16	0.236	2	38
LB-1500	2	Single	26.2	13.2	—	—	—	—	3600	3	7 3/8	23 5/16	0.236	3 1/8	88
LBT-1500	2	Three	—	—	7.2	8.0	4.0	3.0	3600	3	7 3/8	23 5/16	0.236	3 1/8	88

FOR SPECIAL PUMPING | FLOTATION MODULES

FLOTATION MODULES: TFM

■ The Concept

The pump flotation modules have been developed to provide a light-weight and cost-effective alternative to the traditional steel pontoon.

■ Installation

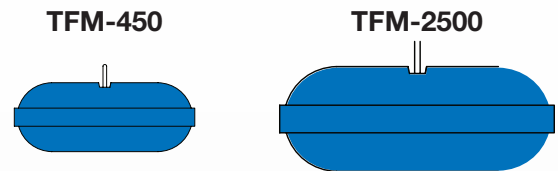
The pump and integral module can be simply installed by use of a central lifting attachment. Once in the water, the module can be towed by boat, if required, and secured in position by anchor or guide ropes. The float module remains visible above the water surface for easy recovery.

■ Applications

- Mine dewatering
- Tailing dams
- Underground dams
- Sewage treatment
- Aeration ponds
- Floating foundation displays
- Construction site dewatering

■ Design Features

- Compact and lightweight
- Easily mounted to pumps on site
- Lifting points for easy installation
- Easy to transport as an integral unit
- Foam filled to prevent sinking



	TFM-450	TFM-2500
Float dimensions (inches - approximate)	39 x 39 x 18	71 x 71 x 30
Pump mounting bracket	Stainless steel	Galvanized steel
Weight (approximate) including brackets	150lbs. to 172lbs.	567lbs. to 661lbs.
Maximum Pump Weight	450lbs.	2500lbs.

TSURUMI PUMP® ACCESSORIES

CONTROL PANELS - Automatic / Manual, VFD & Soft Start 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

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



■ VFD and Soft Start Control Panels

- Constant Pressure
- Constant Level
- Pace FLOW
- UL Listed
- Field Adjustable Overload Protection

Available Options Include:

- Line Reactor
- Load Reactor
- Seal Leak Protection
- Lightning Protection
- Ground-Ground Check Protection
- Elapsed Time meter
- Mechanical Floats
- Liquid Level Probes
- SCADA monitoring



 **TSURUMI PUMP**®
BUILT FOR WORK®

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