



CONTRACTOR PUMPS & GENERATORS

BUILT FOR WORK

Electric Submersible Pumps • Engine Driven Pumps • Generators • Accessories



www.tsurumipump.com

TSURUMI PUMP Electric Submersible Pumps

LB Series • HS Series Features

Long-life by design

1 TOP DISCHARGE, FLOW THRU DESIGN

2 MULTI-DIRECTIONAL DISCHARGE CONNECTOR: Can be configured for horizontal or vertical discharge. Providing for a more stable installation.

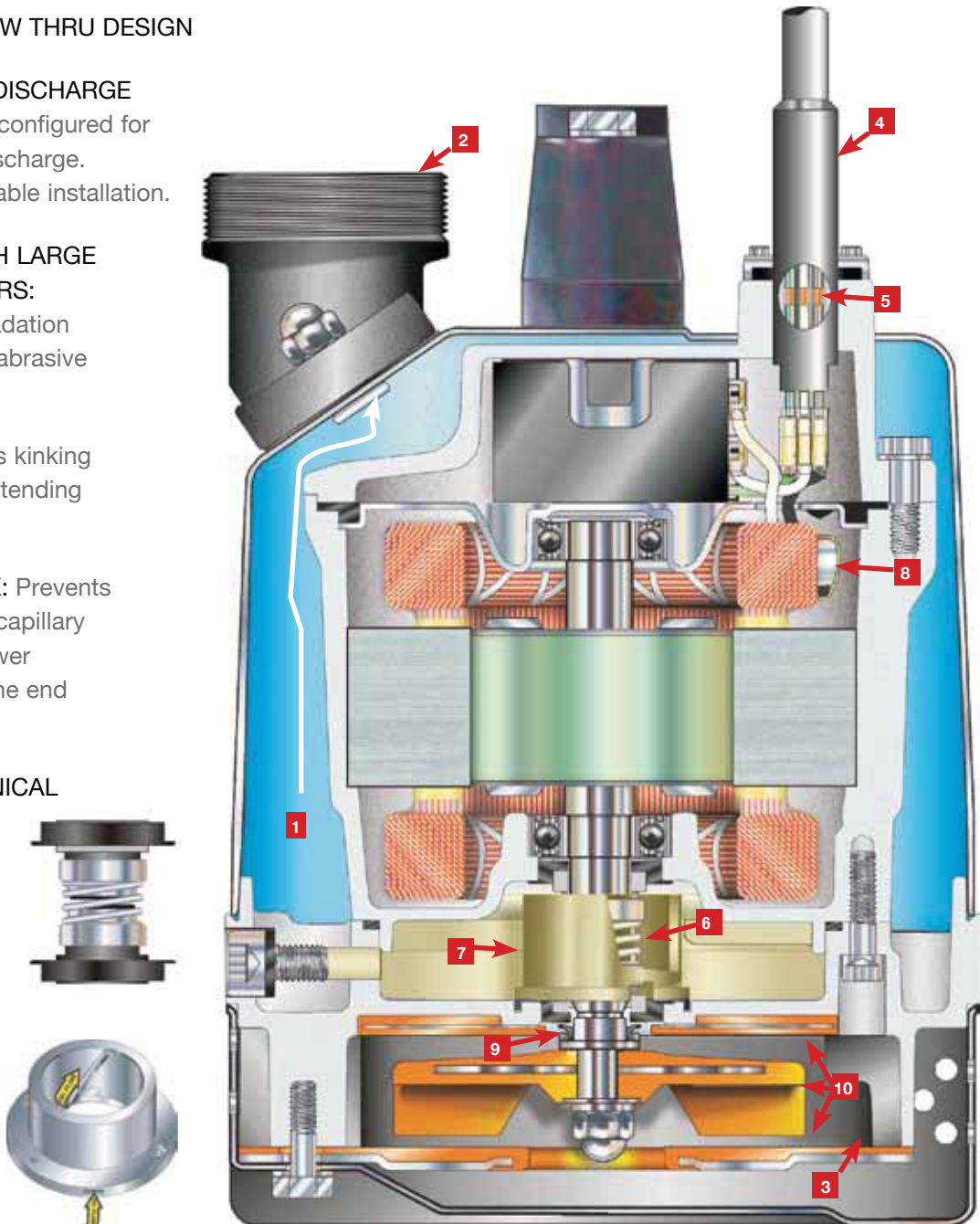
3 RUBBER CASING WITH LARGE ROUNDED CUT-WATERS: Resists wear and degradation of performance due to abrasive particles.

4 CABLE BOOT: Prevents kinking at cable entrance by extending bending radius.

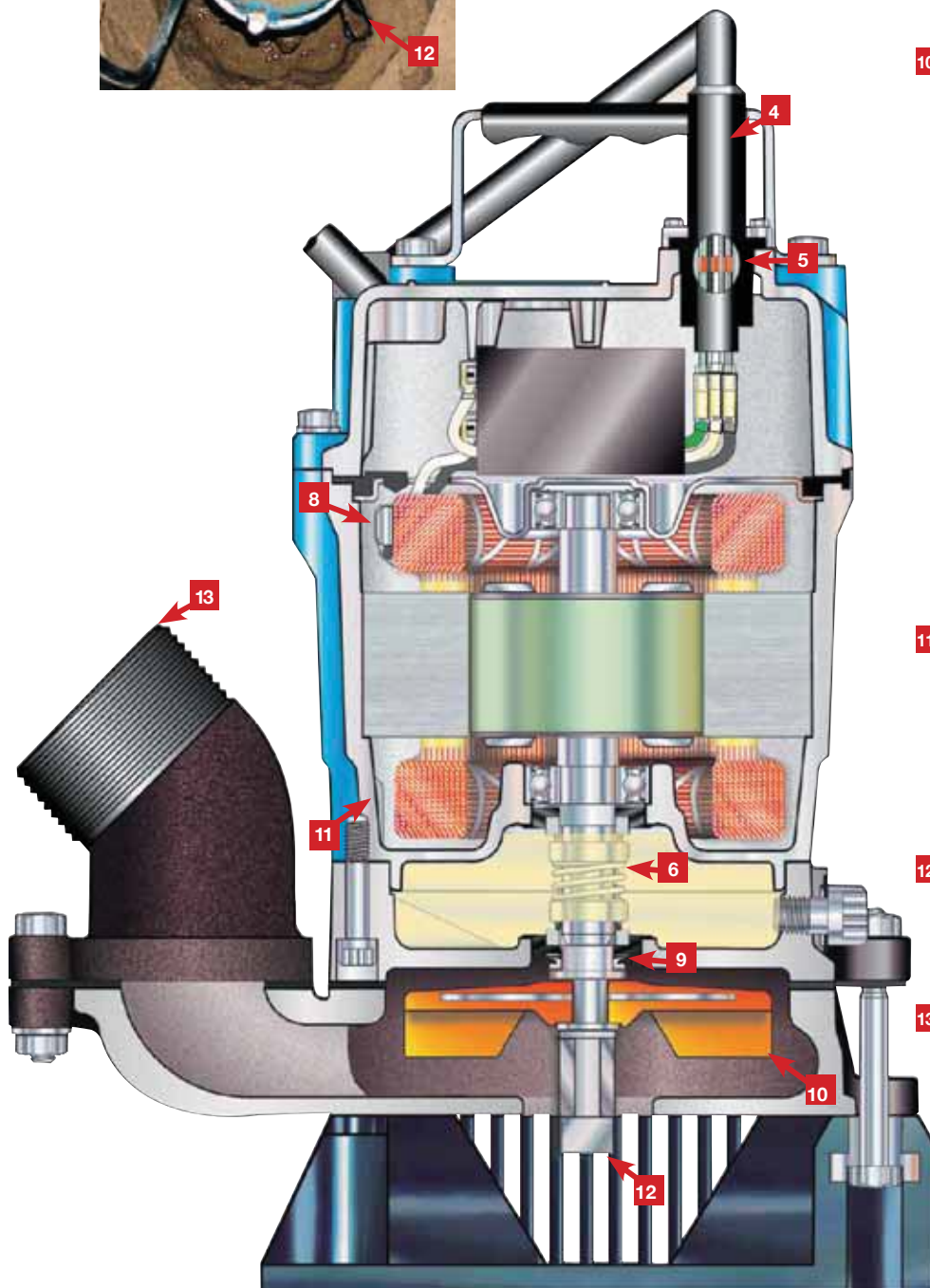
5 ANTI-WICKING BLOCK: Prevents water incursion due to capillary wicking, should the power cable be damaged or the end submerged.

6 DUAL INSIDE MECHANICAL SEAL WITH SILICON CARBIDE FACES: Provides longer operational life of any seal available.

7 OIL LIFTER: Provides lubrication of the seal faces down to 1/3 of normal oil level and extends seal life by ten times—uses no additional power.



Featured Model LB-480



8 MINIATURE THERMAL MOTOR PROTECTOR: Protects against overheating & run-dry.

9 V-RING SEAL PROTECTOR: Protects mechanical seal from abrasive particles.

10 URETHANE, SEMI-VORTEX IMPELLER & WEAR PLATES: Resists wear by abrasive particles and does not depend on close tolerances to maintain pump performance.



Tsurumi Impeller
polished, not worn by
abrasive material.



Competitor Impeller
is effectively worn out.

11 COPPER WINDINGS WITH CLASS E INSULATION

HS Features

12 AGITATOR: Suspends sand and mud, allowing for sediment removal from sumps or basins.

13 45° ANGLED DISCHARGE CONNECTOR: Provides for a more stable installation for either vertical or horizontal discharge hose.

Featured Model HS2.4S

(Not all features available on every Tsurumi submersible pump.)

Electric Submersible Pumps

GROUP PERFORMANCE RANGE

Reliable and cost-effective pumps

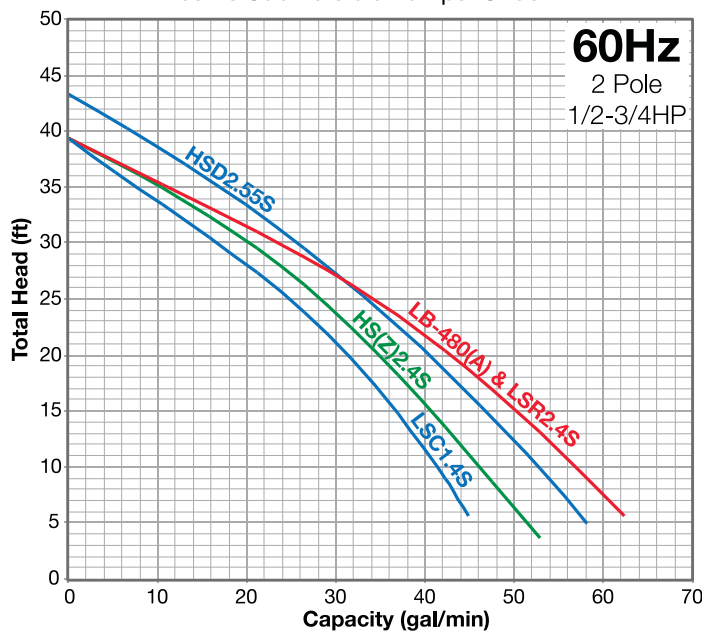
enable Tsurumi to remain an industry leader in the rental and construction markets. Our customers know that while many pumps may look the same, only Tsurumi incorporates the most durable components into the final manufactured product.



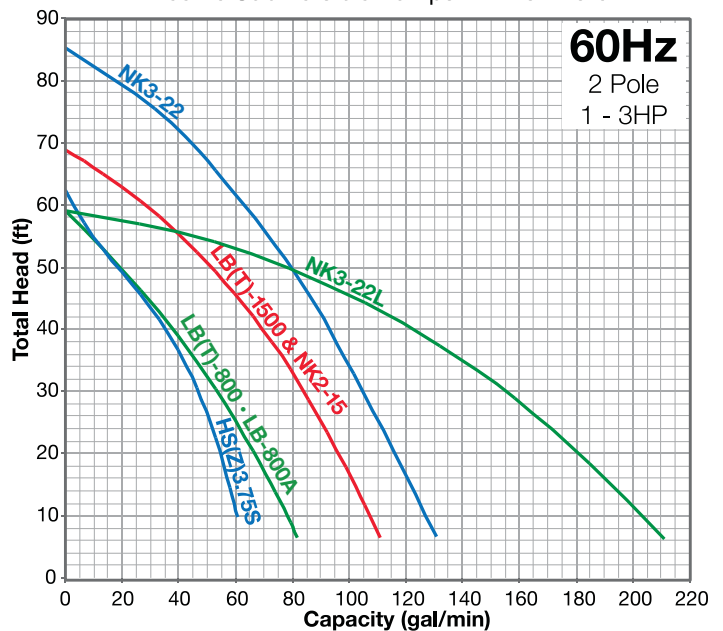
GROUP PERFORMANCE RANGE

ELECTRIC SUBMERSIBLE PUMPS: SINGLE PHASE & THREE PHASE

Electric Submersible Pumps: Under 1HP



Electric Submersible Pumps: 1HP or more



LB-480 • LB-480A DEWATERING PUMPS

LB-480 Slimline design pump fits into 8" pipes. Powerful pumps built with durable materials in an easy handling design. Top discharge provides maximum motor cooling efficiency allowing continuous duty operation at low water levels and extended dry-run capability.

LB-480A Automatic Submersible Pump performs like the non-automatic version in every aspect of construction site usage requiring a tough and durable pump.



LB-480

LB-480 Features

- Urethane, Semi Vortex Impeller and Wear Plates for maximum durability and maintaining pump performance
- Dual Inside Mechanical Seal With SiC faces provides longer operational life
- Oil Lifter provides lubrication of the seal faces (Patented)
- V-Ring Seal design protects mechanical seal from abrasive particles

Optional Accessories - See page 28-30

- TS-301 Float Switch for automatic operation
- Discharge hoses
- Quick connect fittings



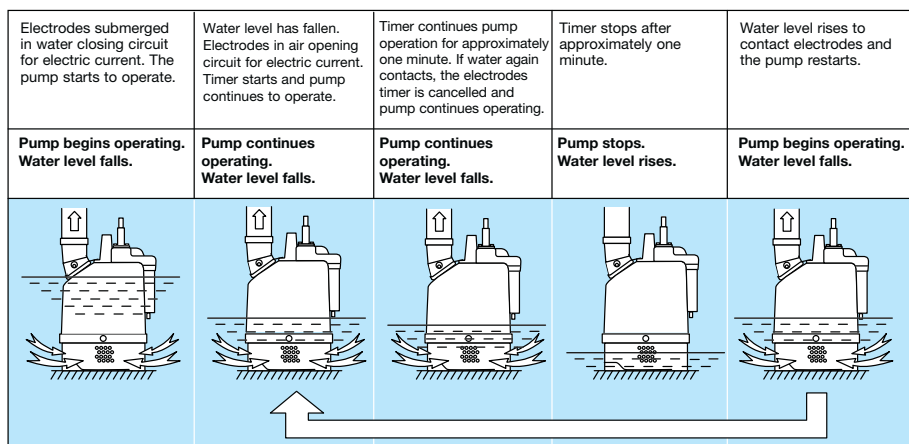
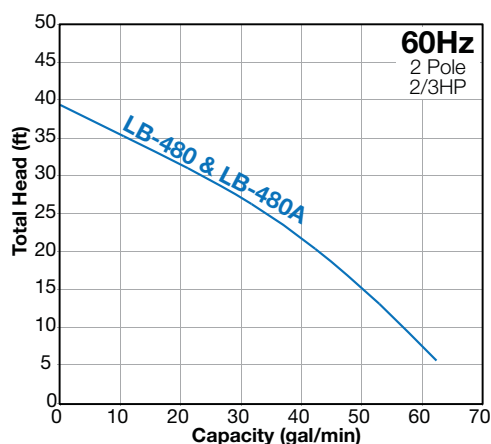
LB-480A

LB-480A Features

- No control panel or float switches required
- Performs like the non-automatic pump with no special float installation required
- Requires very small space to operate - only 8 3/4" diameter

Technical Features of Automatic (A) Water Level Sensor

- Sensitive electrodes detect water to start pump operation even when foreign materials are present
- Internal 60-second timer eliminates frequent on/off operation in rough water to extend motor life
- Relay sensor completely molded in resin and covered by rubber case for protection against rough handling
- Jobsite tested for more than 30,000 on-off cycles without failure or damage



Certified by Intertek Testing Service to UL and CSA standards for submersible construction pumps.

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Continuous Running Water Level (inch)	Shipping Weight (lbs.)
					Diameter	Heights		
LB-480	2/3	Single	2	32	7 11/16	11 1/4	2	28
LB-480A	2/3	Single	2	32	8 3/4	11 1/4	4 1/2*	29

*Pump Starting Water Level

LB(T)-800 • LB-800A DEWATERING PUMPS



LB-800 • LBT-800 Slimline design pumps fits into 8" pipes. Powerful pump built with durable materials in an easy handling design. Top discharge provides maximum motor cooling efficiency allowing continuous duty operation at low levels and extended dry-run capability.

LB-800 (Single Phase) • LBT-800 (Three Phase) Features

- Designed to fit an 8" pipe
- Up to 59' shut off head
- Available in 230V single-phase for lower amperage draw and longer cable extensions
- Dual Inside Mechanical Seal With SiC faces provides longer operational life
- Oil Lifter provides lubrication of the seal faces (Patented)
- LB-800 (Single Phase) and LBT-800 (Three Phase) are available

Optional Accessories - See page 28-30

- Float Switch for automatic operation TS-302 for 115V, TS-303 for 230V
- Discharge hoses • Quick connect fittings



Dewatering pump LB-800A features Relay Unit (Level Sensor) which incorporates low voltage, stainless steel probes, epoxy and rubber encapsulated timing relay, that turns the unit off when water is not present. It saves energy and extends the life of the motor and bearings!

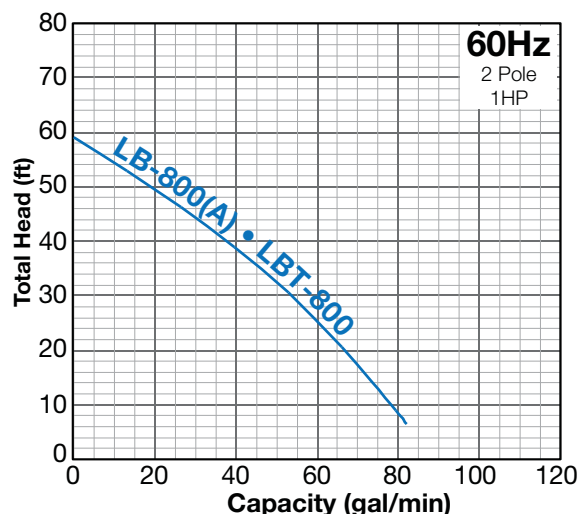
LB-800A (Single Phase) pump

Features

- Up to 59' shut off head
- Dual Inside Mechanical Seal With SiC faces provides longer operational life
- Oil Lifter provides lubrication of the seal faces (Patented)

Technical Features of Automatic (A) Water Level Sensor

- Sensitive electrodes detect water to start pump operation even when foreign materials are present
- Internal 60-second timer eliminates frequent on/off operation in rough water to extend motor life
- Automatic water level sensor completely molded in resin and covered by rubber case for protection against rough handling.
- Jobsite tested for more than 30,000 on-off cycles without failure or damage



LB-800 • LBT-800

Certified by Intertek Testing Service to UL and CSA standards for submersible construction pumps.

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Continuous Running Water Level (inch)	Shipping Weight (lbs.)
					Diameter	Heights		
LB-800	1	Single	2	50	7 9/16	13 7/16	2	37
LBT-800	1	Three	2	50	7 9/16	13 7/16	2	36

LB-800A

Certified by Intertek Testing Service to UL and CSA standards for submersible construction pumps.

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Pump Starting Water Level (inch)	Shipping Weight (lbs.)
					Diameter	Heights		
LB-800A	1	Single	2	50	8 3/4	13 7/16	6 3/4	38

LB-1500 • LBT-1500 DEWATERING PUMP

LB-1500 • LBT-1500 Slimline design pumps fit into 8" pipes. Powerful pump built with durable materials in an easy handling design. Top discharge provides maximum motor cooling efficiency allowing continuous duty operation at low levels and extended dry-run capability.

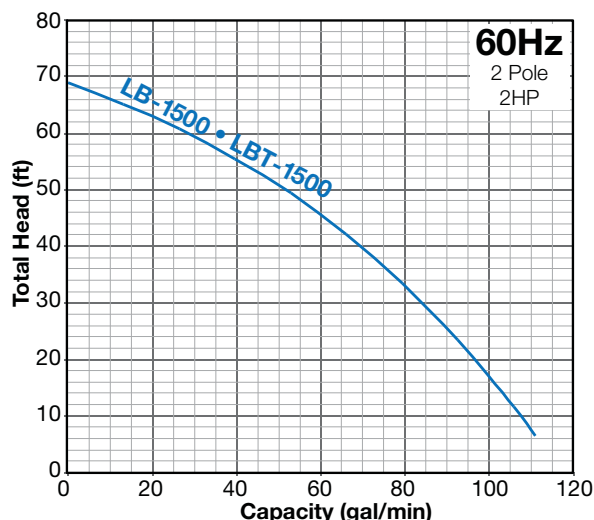


LB-1500 (Single Phase) • LBT-1500 (Three Phase) Features

- Circle Thermal Motor Protector: Protects against, overheating over amperage & run-dry
- Anti-Wicking Block: Prevents water incursion due to capillary wicking, should the power cable be damaged or the end submerged
- Oil Lifter: Lubricates the seal faces down to 1/3 of normal oil level and extends seal life by ten times using no additional power
- Dual inside mechanical seals with silicon carbide faces, (both top and bottom) running in an oil filled chamber provides for the most durable seal design available
- High Chrome Iron Semi-Open Impeller resists wear from abrasive particles
- Synthetic Rubber Pump Casting: For wear resistance and easy maintenance
- V-Ring System: Protects the shaft seals

Optional Accessories - See page 28-30

- Float switch TS-304
- Discharge hoses
- Quick connect fittings
- Control panel
- 2" discharge



Certified by Intertek Testing Service to UL and CSA standards for submersible construction pumps.

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Continuous Running Water Level (inch)	Shipping Weight (lbs.)
					Diameter	Heights		
LB-1500	2	Single	3 (2)*	50	7 3/8	23 5/16	3 1/8	85
LBT-1500	2	Three	3 (2)*	50	7 3/8	23 5/16	3 1/8	85

*2" is optional

HS • HSZ TRASH PUMP



HS TRASH PUMP

Durable trash pumps in two sizes—a 1HP 3-inch discharge and a 1/2HP 2-inch discharge. Both designed to pump water containing sand, solids and debris with minimal wear and clogging.

HSZ AUTOMATIC TRASH PUMP

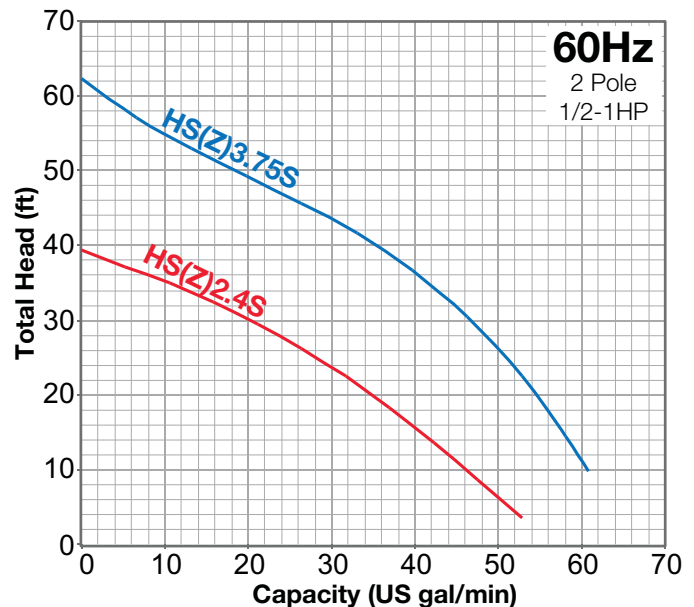
Float operated automatic operated version.

HS • HSZ TRASH PUMP Features

- Built-in shaft mounted agitator suspends solids
- Urethane Semi Vortex Impeller for maximum durability and pump performance
- Dual Inside Mechanical Seal With SiC faces provides longest operational life
- Oil Lifter provides lubrication of the seal faces (Patented)
- V-Ring Seal design protects mechanical seal from abrasive particles

Optional Accessories - See page 28-30

- Vertical discharge coupling
- 2-inch NPT coupling available for HS(Z)3.75S
- Residue Kit (HS-RK) is available for HS2.4S / HSZ2.4S
- Discharge hoses • Quick connect fittings

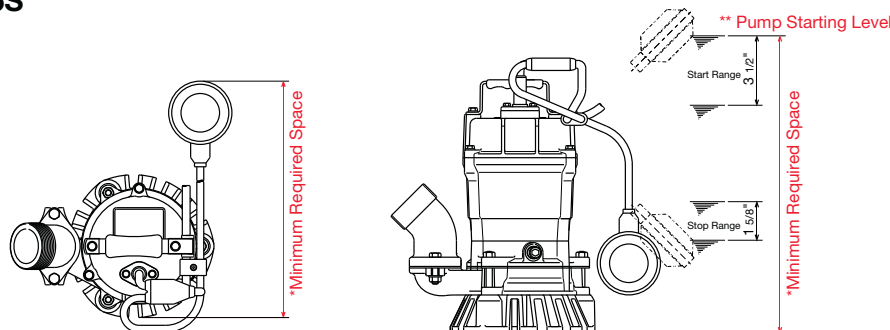


HS2.4S / 3.75S

Certified by Intertek Testing Service to UL and CSA standards for submersible construction pumps.

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Continuous Running Water Level (inch)	Shipping Weight (lbs.)
					Diameter	Heights		
HS2.4S	1/2	Single	2	20	10 1/16	12 15/16	3 1/2	30
HS3.75S	1	Single	3	32	12 7/16	15 5/16	3 1/2	50

HSZ2.4S / 3.75S



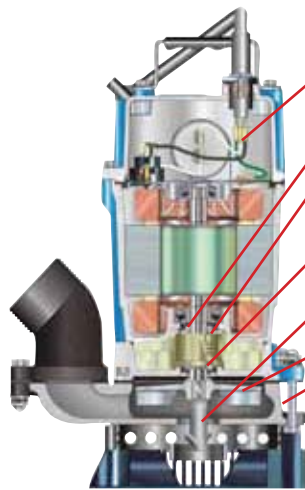
Certified by Intertek Testing Service to UL and CSA standards for submersible construction pumps.

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Pump Starting Water Level (inch)	Shipping Weight (lbs.)
					*Diameter	*Heights		
HSZ2.4S	1/2	Single	2	20	13 1/2	15 1/8	15 1/8	30
HSZ3.75S	1	Single	3	32	13 1/2	17 1/2	17 1/2	50

*Minimum Required Space

HSD SERIES SAND PUMP

EXTREME DUTY TRASH PUMP: Pumps water containing sand, solids and debris with minimal wear and clogging.

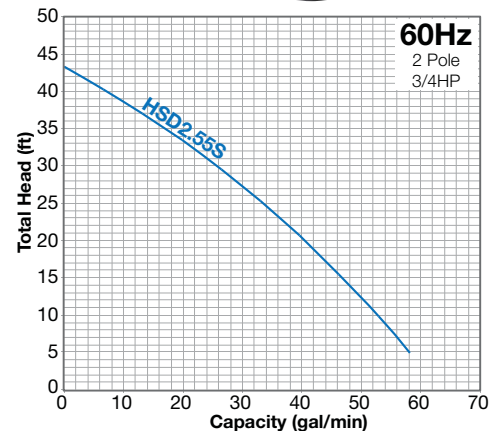


HSD Series Features

- Anti-wicking block prevents water incursion
- Oil Lifter extends seal life by ten times
- Dual Inside Mechanical Seal with silicon carbide faces provides longer operational life of any seal available
- V-Ring Seal design protects mechanical seal from abrasive particles
- Built-in larger shaft mounted agitator suspends solids & eliminates clogging
- High Chromium Iron impeller
- Ductile iron pump casing
- 3/4 HP motor; larger than HS2.4S
- Easy pump end disassembly by removing only 3 nuts

Optional Accessories - See page 28-30

- Float switch • Straight discharge
- Discharge hoses • Quick connect fittings



Certified by Intertek Testing Service to UL and CSA standards for submersible construction pumps.

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Continuous Running Water Level (inch)	Shipping Weight (lbs.)
					Diameter	Heights		
HSD2.55S	3/4	Single	2	32	10 3/8	15 3/8	4 1/8	39

NK HEAVY DUTY HIGH HEAD PUMP

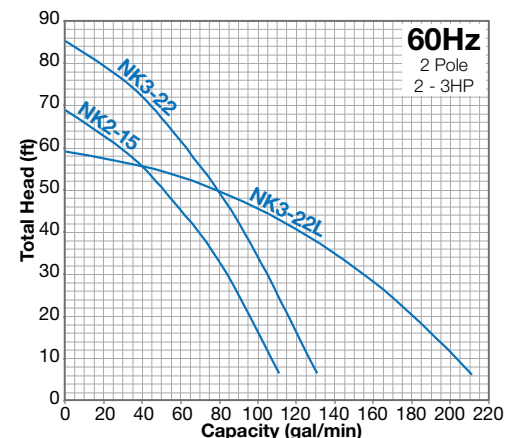
Heavy duty, single phase high head pumps capable of handling abrasive materials with minimal wear.

NK2-15 • NK3-22/3-22L Features

- **Terminal board for voltage reconnect allows for change from 110V to 220V (NK2-15 only)**
- **NK2-15 • NK3-22:** Semi Vortex Impeller and Synthetic Rubber Wear Plates for maximum durability and maintaining pump performance
- **NK3-22L:** Semi-Open Impeller
- Dual Inside Mechanical Seal With SiC faces provides longer operational life
- Oil Lifter provides lubrication of the seal faces (Patent)
- V-Ring Seal design protects mechanical seal from abrasive particles

Optional Accessories - See page 28-30

- TS-303 & TS-304 Float Switch for automatic operation
- Sand kit • 2" NPT coupling • Control panel
- Discharge hoses • Quick connect fittings



Certified by Intertek Testing Service to UL and CSA standards for submersible construction pumps.

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Continuous Running Water Level (inch)	Shipping Weight (lbs.)
					Diameter	Heights		
NK2-15	2	Single	3	32	9 7/16	24 1/2	3 1/4	80
NK3-22	3	Single	3	32	9 7/16	24 1/2	3 1/4	81
NK3-22L	3	Single	3	32	9 1/4	26 1/2	4 3/4	90

LSR GROUND DRAINAGE PUMP

Pump holds suction for drainage to 0.4 inch water level.

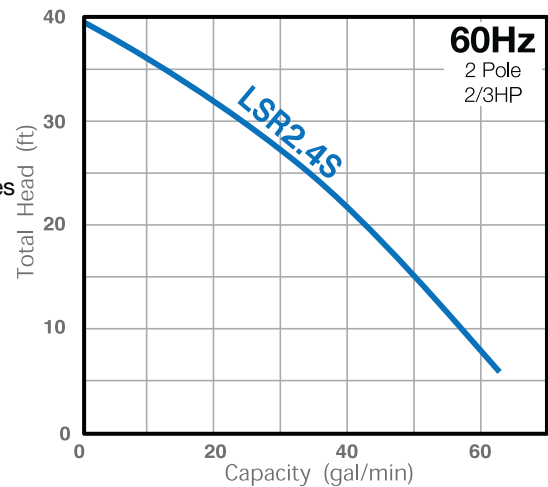


LSR2.4S Features

- Urethane, Semi Vortex Impeller and Wear Plates for maximum durability and maintaining pump performance
- Dual Inside Mechanical Seal With SiC faces provides longer operational life
- Oil Lifter provides lubrication of the seal faces (Patented)
- V-Ring Seal design protects mechanical seal from abrasive particles

Optional Accessories - See page 28-30

- SLS-LSR32 Float Switch for automatic operation
- Discharge hoses
- Quick connect fittings



Certified by Intertek Testing Service to UL and CSA standards for submersible construction pumps.

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Continuous Running Water Level (inch)	Shipping Weight (lbs.)
					Diameter	Heights		
LSR2.4S	2/3	Single	2	32	8 1/4	11 3/8	0.2	30

LSC GROUND DRAINAGE PUMP

Original residue dewatering pump; able to pump down to the floor, even the smallest puddle can be pumped dry. LSC drainage pump is the best for complete drainage of flat surfaces where a sump is not available.

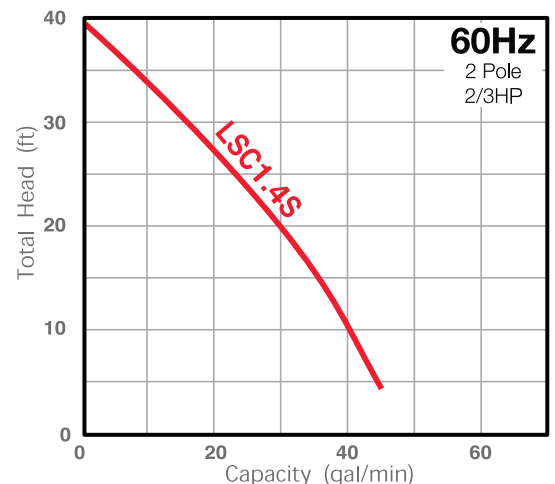


LSC1.4S Features

- Prime pump through discharge outlet for start up at any water level
- Internal check valve holds prime and prohibits back flow through pump when stopped
- Urethane, Semi Vortex Impeller and Wear Plates for maximum durability and maintaining pump performance
- Dual Inside Mechanical Seal With SiC faces provides longer operational life
- Oil Lifter provides lubrication of the seal faces (Patented)
- V-Ring Seal design protects mechanical seal from abrasive particles

Optional Accessories - See page 28-30

- SLS-LSC20 Float Switch • 2" Discharge
- Discharge hoses • Quick connect fittings



Certified by Intertek Testing Service to UL and CSA standards for submersible construction pumps.

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Continuous Running Water Level (inch)	Shipping Weight (lbs.)
					Diameter	Heights		
LSC1.4S	2/3	Single	3/4	20	7 11/16	12 7/16	0.04	31

Electric Submersible Pumps

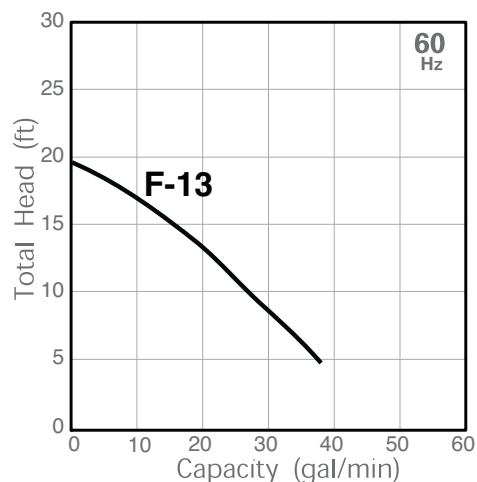
F-13 UTILITY PUMP



Oil free economical submersible pumps for clean surface water application. With built-in check-valve for houses, yards and gardens. Available ready to plug-in, with built-in level control, 1 1/4" or 3/4" NPT discharge.

F-13 Features

- Completely oil free air filled motor protected by 3 oil seals
- Built-in thermal motor protector
- Incorporates a check valve built into the discharge
- Pump can be operated either manual or automatic
- 1-1/4" NPT discharge with garden hose adaptor (3/4")
- Easy grip handle design
- 1 year warranty



Model	Max. Capacity (GPM)	Max. Head (ft)	Discharge Size (in) - Internal Thread	Nominal HP	RPM	Rated Current at 115V (amps)	Standard Cable Length (ft)	Shipping Weight (lbs.)
F-13	38	19	1 1/4 or 3/4	1/4	3450	4.2	10	11

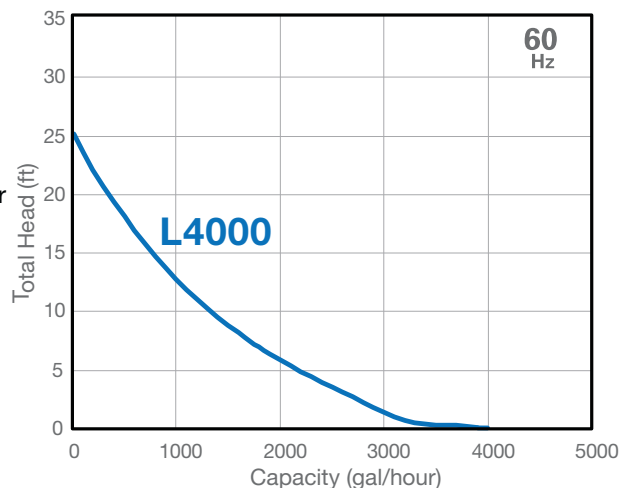
L4000 SERIES DC PUMP

Designed to meet and exceed the tough demands of commercial and recreational duty.



L4000 Features

- 1 1/2" and 2" Discharge Ports
- Liquid Cooled Motor
- Universal Mounting Base
- Double-Ball Bearing 12 Pole Motor
- Mechanical Shaft Seal
- Salt Water Tough
- 1 year warranty



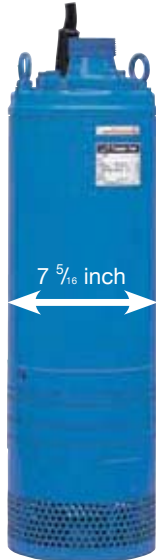
Model	Max. Capacity (GPH)	Max. Head (ft.)	Body Material	Discharge Size (in.) & Parts Material	Impeller	Shaft Seal	Voltage (V)	Standard Cable Length (ft.)	Shipping Weight (lbs.)
L-4000	4000	25	High Impact ABS Thermo-Plastic	1-1/2 & 2 Polypropylene	Glass/Nylon Composite	Mechanical (Carbon/Ceramic)	12	6	5.4

Electric Submersible Pumps

LH • LHW THREE PHASE SLIMLINE PUMP

Fits in an 8 inch pipe!

Tsurumi introduces an ultra-slim pump with very high head that fits inside an 8 inch pipe. Ideal for deep-well pre-dewatering.



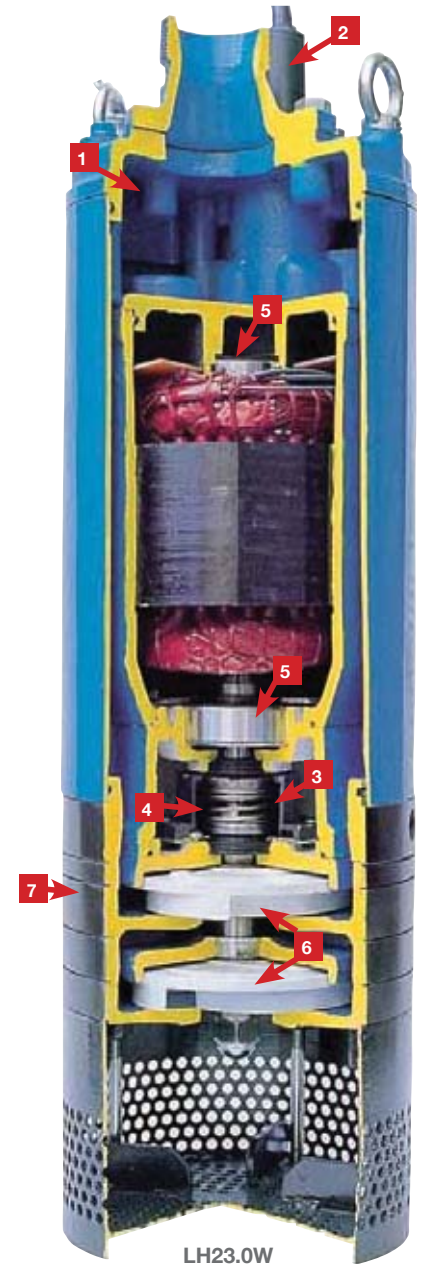
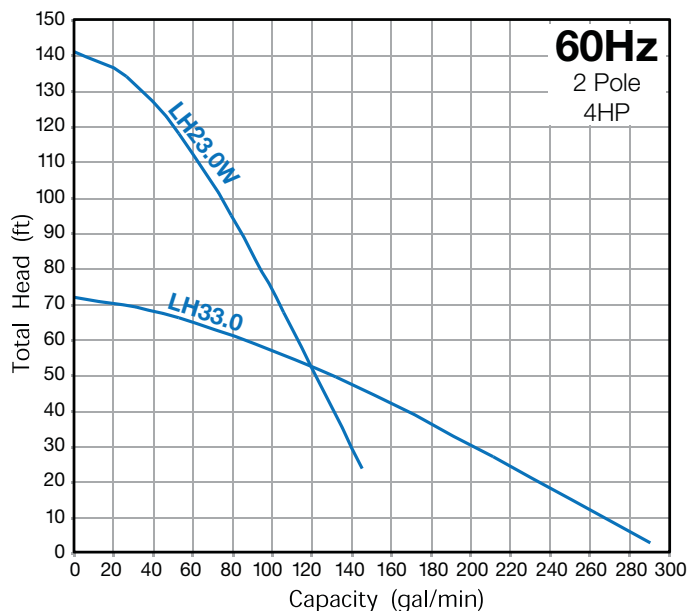
LH23.0W



LH33.0

LH • LHW Slimline Features

- 1** Circle Thermal Motor Protector: Protects against, overheating over amperage & run-dry
- 2** Anti-Wicking Block: Prevents water incursion due to capillary wicking, should the power cable be damaged or the end submerged
- 3** Oil Lifter (Patented): Lubrication of the seal faces down to 1/3 of normal oil level and extends seal life by ten times—uses no additional power
- 4** Dual Inside Mechanical Seal with Silicon Carbide Faces: Provides longer operational life of any seal available
- 5** Ball Bearings: Permanently Lubricated, Double Shielded, Single Row, Deep Groove, High Temperature C3 Ball Bearings, Rated B-10=60,000 Hrs.
- 6** High Chrome Iron Semi-Open Impeller: Resists wear from abrasive particles.
- 7** Ductile Iron Casing: Resists wear and reduction of performance due to abrasive particles.



LH23.0W

Certified by Intertek Testing Service to UL and CSA standards for submersible construction pumps.

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Continuous Running Water Level (inch)	Shipping Weight (lbs.)
					Diameter	Heights		
LH23.0W	4	Three	2	65	7 5/16	24 13/16	7 7/8	121
LH33.0	4	Three	3	65	7 5/16	25 3/8	5 7/8	113

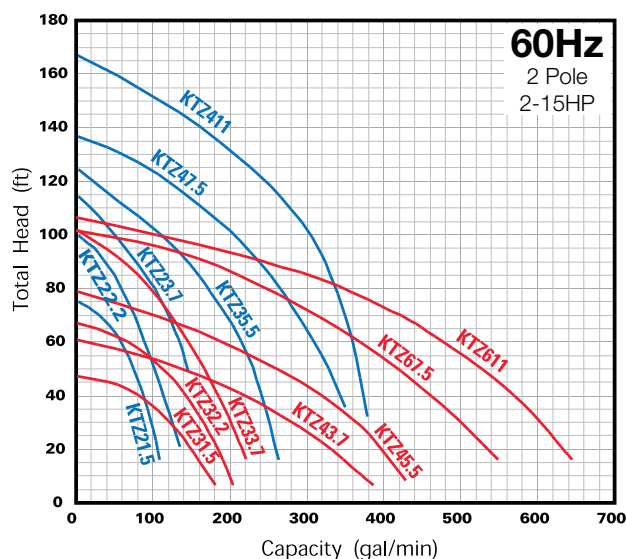
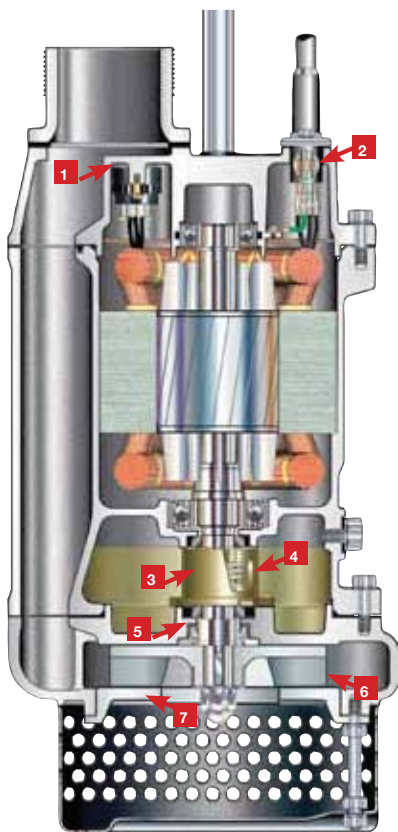
Electric Submersible Pumps

KTZ THREE PHASE DEWATERING PUMPS

Designed to withstand the most demanding conditions found in the construction, aggregate and mining markets. Tsurumi KTZ Series dewatering pump easily converts between high head and high volume performance with a simple change of impeller and wear plate. Wide range of sizes for any job.

KTZ Series Features

- 1 Circle Thermal Motor Protector protects against, overheating over amperage & run-dry
- 2 Anti-Wicking Block prevents water incursion due to capillary wicking, should the power cable be damaged or the end submerged
- 3 Oil Lifter: Lubrication of the seal faces down to 1/3 of normal oil level and extends seal life by ten times—uses no additional power
- 4 Dual Inside Mechanical Seal with Silicon Carbide Faces provides longer operational life of any seal available
- 5 Lip Seal Protector protects mechanical seal from abrasive particles
- 6 High Chrome Iron Semi-Open Impeller resists wear by abrasive particles
- 7 Field Adjustable/Replaceable, Ductile Iron Wear Plate resists wear by abrasive particles, and is easily adjusted to maintain pump performance



Certified by Intertek Testing Service to UL and CSA standards for submersible construction pumps.

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Continuous Running Water Level (inch)	Shipping Weight (lbs.)
					Diameter	Heights		
KTZ21.5	2	Three	2	50	9 1/4	25 1/2	4 3/4	78
KTZ31.5	2	Three	3	50	9 1/4	25 1/2	4 3/4	78
KTZ22.2	3	Three	2	50	9 1/4	26 5/16	4 3/4	107
KTZ32.2	3	Three	3	50	9 1/4	26 5/16	4 3/4	107
KTZ23.7	5	Three	2	50	11 1/8	26 1/4	5 7/8	170
KTZ33.7	5	Three	3	50	11 1/8	26 5/8	5 7/8	167
KTZ43.7	5	Three	4	50	11 1/8	27 1/16	5 7/8	168
KTZ35.5	7 1/2	Three	3	50	12 1/16	28 3/8	5 7/8	211
KTZ45.5	7 1/2	Three	4	50	12 1/16	28 3/4	5 7/8	203
KTZ47.5	10	Three	4	50	13	31 13/16	7 1/2	279
KTZ67.5	10	Three	4 (6)*	50	13 (14 9/16)*	31 13/16 (31 7/8)*	7 1/2	300
KTZ411	15	Three	4	50	14 3/4	32 15/16	7 1/2	349
KTZ611	15	Three	4 (6)*	50	14 3/4	32 15/16 (33 11/16)*	7 1/2	357

*6" Discharge Bore for KTZ67.5 & KTZ611 is optional

TSURUMI PUMP Engine Powered Pumps

TSURUMI Engine Powered Pumps are constructed for maximum durability in a compact, easy handling design. Utilizing superior features and materials, Tsurumi provides an affordable, high value pump line designed to withstand your tough dewatering applications.

High chrome impeller, cast iron volute casing with stainless steel wear plate provides **increased durability and decreased maintenance** (Trash pumps only).

Silicon Carbide mechanical seal **provides longer life in this class**. Silicon Carbide's high uniform hardness and high density makes it an extremely abrasion resistant material.

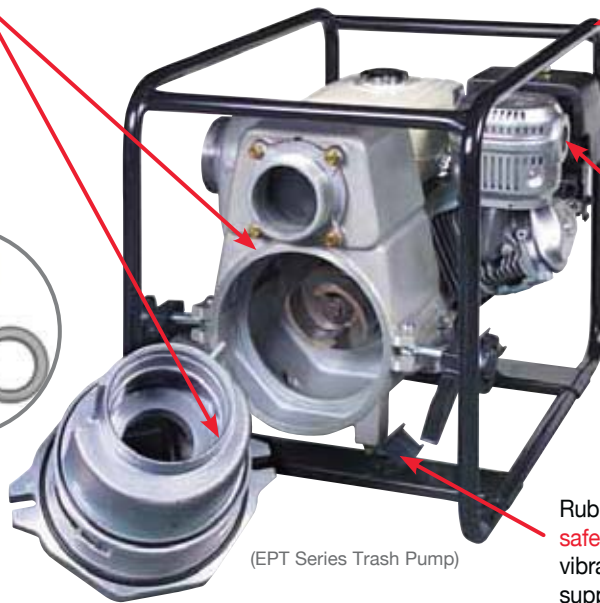


Oil Alert System **automatically shuts the engine down** if the oil level falls below the safe operating level.



Durable Rolled-Steel frame provides for a safe, stable platform, **protects pump/engine during operation** and transport, and allows for easy handling.

Heavy-duty Honda gas engine **delivers high power** from a compact, reliable design.



(EPT Series Trash Pump)

Rubber Vibration Isolators **ensure safe and stable operation**, reduce vibration of structural parts and support the pump casing to reduce hose or pipe strain.

TE SERIES GAS ENGINE CENTRIFUGAL PUMPS



TE3-50HA
2" Centrifugal Pump
Powered by Honda



TE3-80HA
3" Centrifugal Pump
Powered by Honda



TE2-100HA
4" Centrifugal Pump
Powered by Honda



TE2-25H
1" Compact Centrifugal Pump
Powered by Honda

EPT SERIES GAS ENGINE TRASH PUMPS



EPT3-50HA
2" Trash Pump
Powered by Honda



EPT3-80HA
3" Trash Pump
Powered by Honda



EPT3-100HA
4" Trash Pump
Powered by Honda

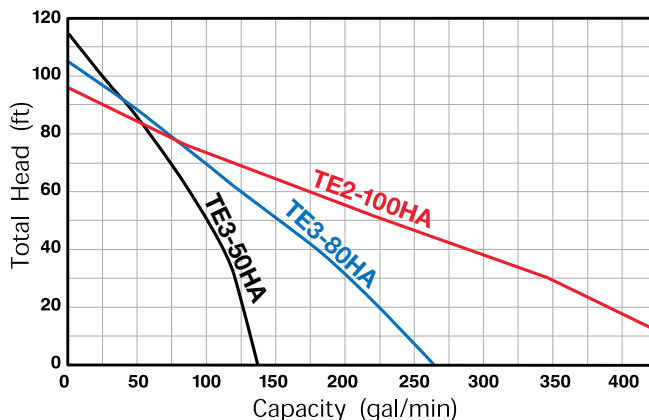
TE SERIES CENTRIFUGAL PUMP

Powerful, Lightweight Pumps

TE2/TE3-HA Gas Engine Centrifugal Pumps Powered by heavy-duty, powerful **Honda GX series gas engines**



- Heavy-duty Honda gas engine with oil sensor and Silicon Carbide mechanical seal provides longer life in this class
- Cast Iron impeller and volute casing
- Durable Rolled-Steel frame provides pump/engine with maximum protection, perfect ease of handling or transport, and safe operation
- Rubber mounts on the pump and the frame
- Both 2" and 3" models are light enough for Ground shipment
- Hose Kit / hoses / hose accessories are available: See page 28-31 for more details



Model	Discharge / Suction Size	Engine	Max. Output (hp/rpm)	Dimensions (inches)			Shipping Weight (lbs.)
				Length	Width	Height	
TE3-50HA	2" NPT Coupling	Honda GX120	4.0 / 3600	18 1/2	14 5/8	17 1/8	55
TE3-80HA	3" NPT Coupling	Honda GX160	5.5 / 3600	20 1/2	16 1/2	18 1/8	64
TE2-100HA	4" NPT Coupling	Honda GX240	8.0 / 3600	25	18	23 1/2	109

TE2-25H CENTRIFUGAL PUMPS

TSURUMI PUMP Model TE2-25HA is ideal for general dewatering, irrigation and all-purpose cleaning and wash down applications. Easy starting and quiet running is assured with its four stroke Honda GX25 engine. Built to be lightweight yet durable.

TE2-25H Centrifugal Pump

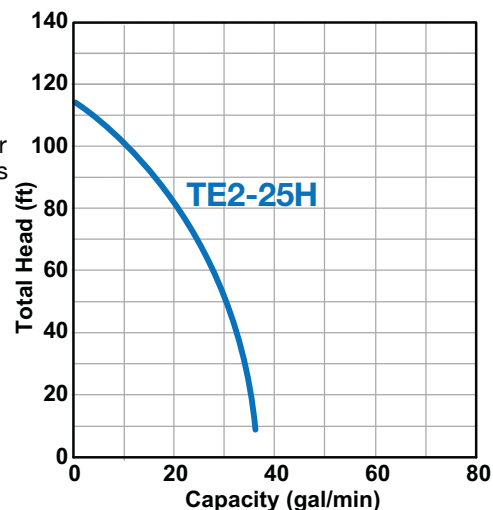
Powered by Honda



- Heavy-duty Honda gas engine with oil sensor and Silicon Carbide mechanical seal provides longer life in it's class
- Cast Iron impeller and volute casing
- Durable Rolled-Steel handle for ease of handling
- Suction strainer included

Optional Accessories - See page 28-31

- 1" Mill hose
- 1" Suction hose NPT



Model	Suction Size	Engine	Max. Output (hp/rpm)	Dimensions (inches)			Shipping Weight (lbs.)
				Length	Width	Height	
TE2-25H	1" NPSH Coupling	Honda GX25	1.1 / 2220	9	14	13	12

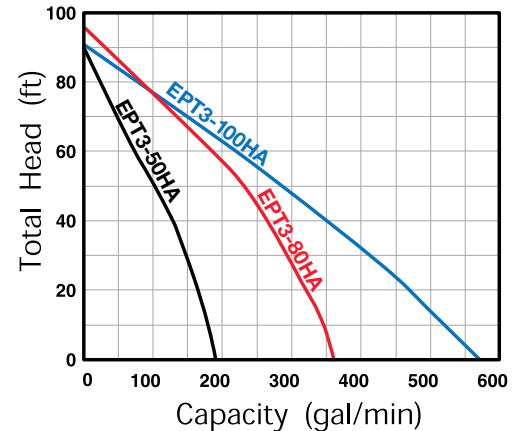
EPT3 SERIES ENGINE TRASH PUMPS

Tsurumi trash pumps are designed with oversized pump casing, and a cleanout door which can be removed from the pump casing without having to remove the suction hose.

EPT3-HA Gas Engine Trash Pumps Powered by heavy-duty, powerful **Honda GX series gas engines**



- Heavy-duty Honda gas engine with oil sensor delivers high power from a compact, reliable design. Silicon Carbide mechanical seal provides longer life in this class
- High Chrome impeller, Cast Iron volute casing plus Stainless Steel wear plate promise increased durability and decreased maintenance
- Pump/engine set mounted to cage frame on Rubber Vibration Cushions to buffer stress and wear
- Durable Rolled-Steel frame provides pump/engine with maximum protection, perfect ease of handling or transport and safe operation
- Galvanized Steel hose couplings promise longer thread life
- Carrying Handle/Wheel Kit and Lifting Bail for easy transportation available with all trash pumps as an optional accessory
- Hose kit / hoses / hose accessories are available: See page 28-31 for more details



Model	Discharge / Suction Size	Engine	Max. Output (hp/rpm)	Dimensions (inches)			Shipping Weight (lbs.)
				Length	Width	Height	
EPT3-50HA	2" NPT Coupling	Honda GX160	5.5 / 3600	23 1/4	18 1/4	17 3/8	82
EPT3-80HA	3" NPT Coupling	Honda GX240	8.0 / 3600	27 1/2	20 1/8	25 5/8	136
EPT3-100HA	4" NPT Coupling	Honda GX340	11.0 / 3600	30 1/8	20 1/8	26	160

THP HIGH PRESSURE PUMP

High Pressure and high performance: A pump for sprinkling, irrigation and fire protection.

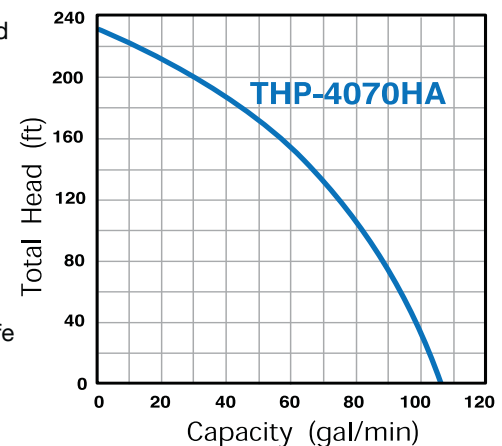
THP4070-HA Features



- Heavy-duty Honda gas engine with oil sensor and Silicon Carbide mechanical seal provides longer life in this class
- Maximum pressure of 100 PSI for high pressure applications
- Versatile 3-way discharge allows pump to run up to three discharge lines simultaneously
- Two 1" couplings and one 1 1/2" coupling
- High head, closed impeller and cast iron volute casing deliver high performance and long wear life

Optional Accessories - See page 28-31

- 1" or 1.5" Lexan nozzle
- 1" or 1.5" Mill hose
- 1" or 1.5" Suction hose



Model	Discharge Size	Suction Size	Engine	Max. Output (hp/rpm)	Dimensions (inches)			Shipping Weight (lbs.)
					Length	Width	Height	
THP-4070HA	1" x 2, 1.5" x 1 NPSH Coupling	1.5" NPSH Coupling	Honda GX160	5.5 / 3600	21	16	18	62

TD5 / TDE5 DIAPHRAGM PUMP

Powerful Sand, Mud and Sludge Handling Pumps

Capable of continuous dry operation for seepage dewatering. Handles sand, mud and sludge. Both HONDA GX120 engine driven (TD5 Series) and electric motor (TDE5 Series) diaphragm pumps are available.



Gas Engine: **TD5**



Electric Motor: **TDE5**



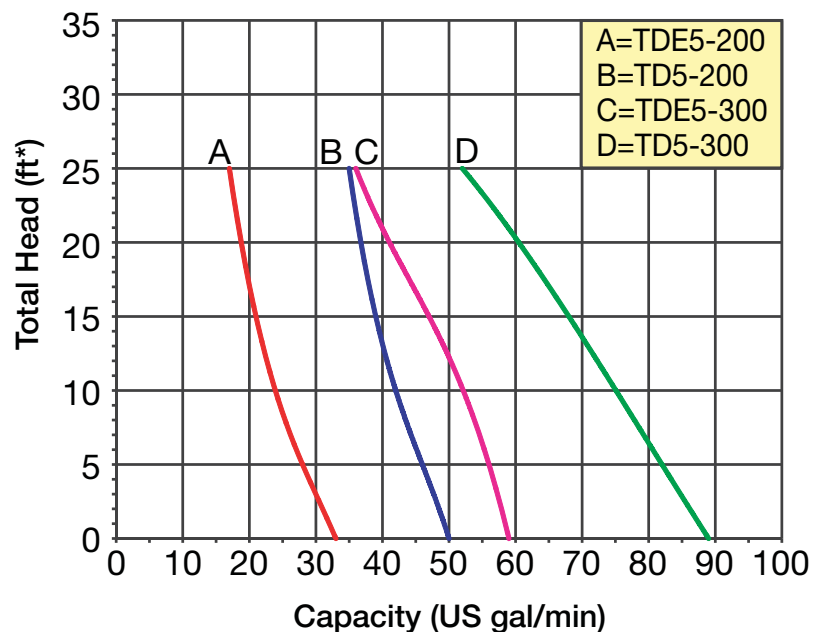
90° Rotatable base
on both models

TD5 / TDE5 Diaphragm Pumps Features *powered by Honda*

- Sand cast aluminum construction for portability and durability
- Thermoplastic rubber diaphragm
- 2" or 3" NPT suction and discharge size
- 1-5/8" diameter solids handling capability
- Modular component design permits easy maintenance and cleanout
- Gas engine model: Honda GX120 (TD5)
- Electric motor model (TDE5)
- Delivers up to 88 GPM (TD5-300) / 59 GPM (TDE5-300)
- Maximum temperature 180°F

Optional Accessories - See page 28-31

- Suction hose kits
- Discharge hose kits



(*) Convert to psi, divide by 2.31 Liquid - Water specific gravity 1.0

Model	Discharge / Suction Size (inches)	Engine	Max. Output (hp/rpm)	Dimensions (inches)			Shipping Weight (lbs.)
				Length	Width	Height	
TD5-200	2" NPT Coupling	Honda GX120	4 / 3600	43	20	23	160
TD5-300	3" NPT Coupling	Honda GX120	4 / 3600	43	26	23	175
TDE5-200	2" NPT Coupling	N/A	4 / 1725	44	20	23	165
TDE5-300	3" NPT Coupling	N/A	4 / 1725	44	26	23	185

Engine Powered Pumps

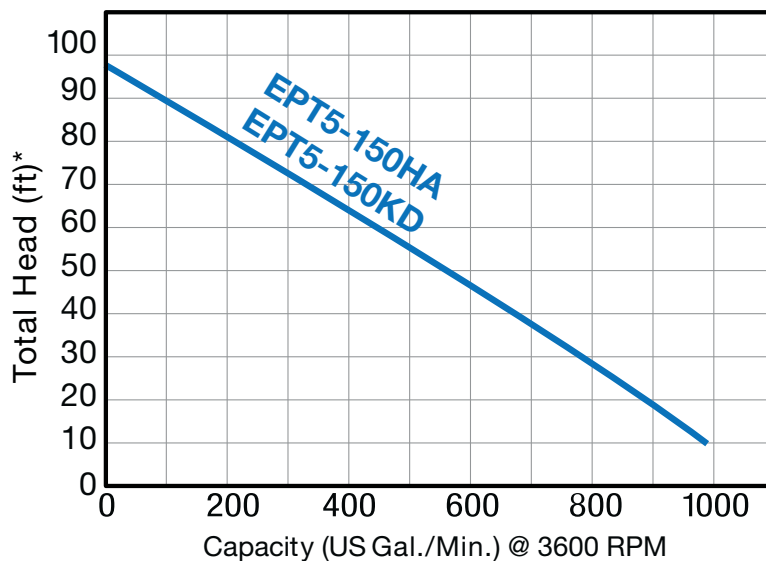
EPT5 SERIES GAS / DIESEL TRASH PUMP

Industrial Duty 6" Trash Pump: Powered by Honda gas engine / Koehler diesel engine



EPT5-150HA (Gas Engine) / EPT5-150YD (Diesel Engine) Trash Pump Features

- Cast Aluminum Casing and Adapter
- Cast Iron Wear Plate, Volute and Manifold
- Stainless Steel Impeller
- Silicon Carbide Mechanical Seal and Buna O-Rings and Flapper / Check Valve
- 6" NPT Port Size
- Self Priming to 20ft
- Available with Honda GX670 Gas Engine or Yanmar 3TNM72 Diesel Engine (Final Tier 4)
- Solids Handling to 3" Diameter
- Unique Slide Mechanism permits complete service of pump without removing hoses or removing pump components from trailer (Patented)
- Includes Seal Wash Feature for extended seal life
- 12 VDC Electric Start; Digital Tachometer / hourmeter included
- D.O.T. Approved Trailer - See your state and local codes for registration



* Convert to PSI , divide by 2.31 • Liquid-Water specific gravity 1.0

Model	Discharge Suction Size (inches)	Engine Type	Engine	Max. Output (hp/rpm)	Dimensions (inches)			Shipping Weight (lbs.)
					Length	Width	Height	
ETP5-150HA	6" NPT Coupling	Unleaded Gasoline	Honda GX670	24.0 / 3600	99	48	60	1125
EPT5-150KD	6" NPT Coupling	Diesel	Koehler KDW1003	23.4 / 3600	99	48	60	1250

Engine Powered Pumps

EPT2-100/150 HEAVY DUTY TRASH PUMP

Trailer Mounted Trash Pumps for Tough Jobs

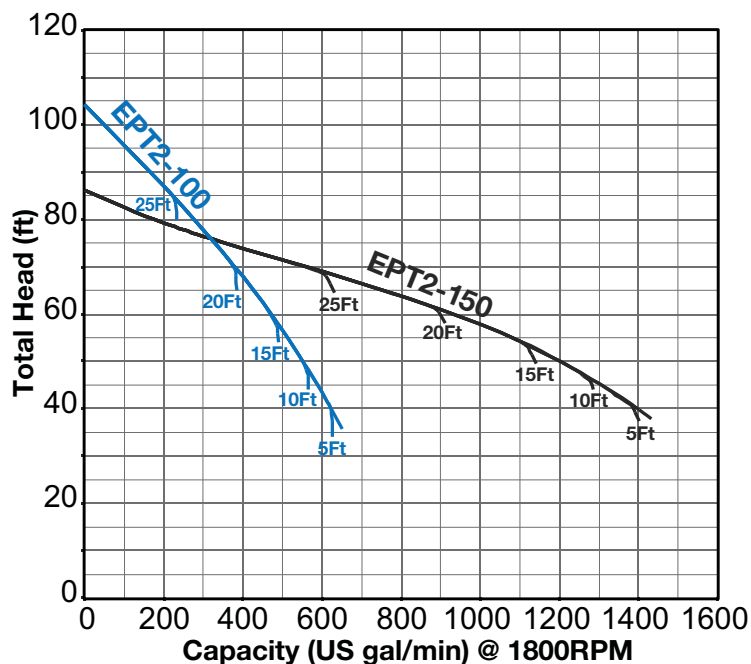
Dewatering to sewage, clean water to 3-inch solids—our trash pumps do it all.



EPT2-100 / EPT2-150 Diesel Trash Pump

Features *Engine may vary - Consult Factory*

- Heavy-duty diesel engine with electric start
- Pass 3" solids (EPT2-150) or 2" solids (EPT2-100) with non-clog, wear resistant ductile iron impeller on 304 stainless steel shaft sleeve
- Oil and abrasion resistant, rubber-lined front and rear wear plates
- Long-life grease lubricated tungsten carbide mechanical seals (optional oil lubricated seals available)
- Heavy-duty DOT road trailer with 15" 6-ply tires and 2" pintle hitch



Model	Discharge / Suction Size	Engine	Max. Output (hp/rpm)	Dimensions (inches)			Shipping Weight (lbs.)
				Length	Width	Height	
EPT2-100	4" NPT Coupling	Consult Factory	Consult Factory / 1800	116 1/2	72 1/2	77	Consult Factory
EPT2-150	6" NPT Coupling	Consult Factory	Consult Factory / 1800	126 1/2	72 1/2	77	Consult Factory

Engine Powered Pumps

EPT4-150 HEAVY DUTY TRASH PUMP

Heavy Duty Prime Assisted & Sound Attenuated Priming Assisted Trash Pump



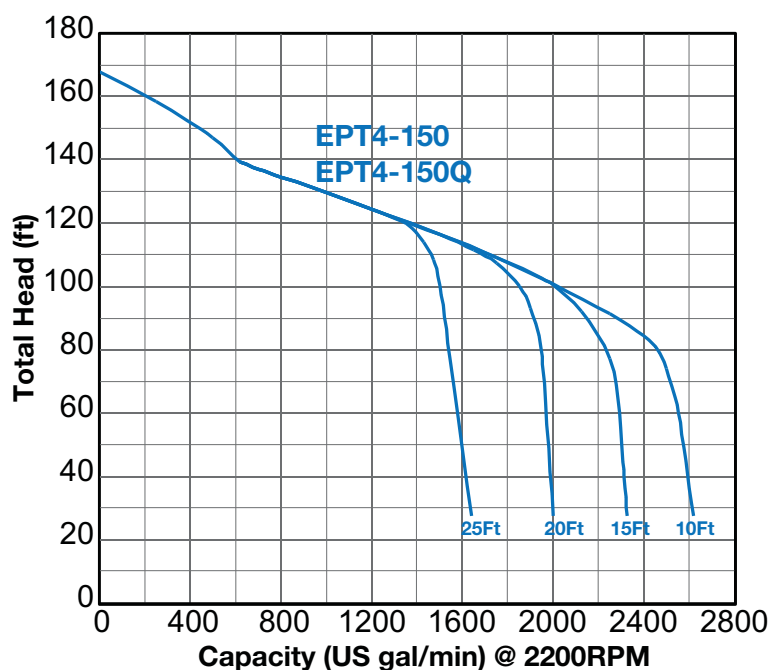
Priming Assisted: **EPT4-150**



Sound Attenuated Priming Assisted: **EPT4-150Q**

EPT4-150 / EPT4-150Q Features

- Vacuum assisted pump that primes and re-primers by use of a compressor running high pressure air across a venturi which creates a vacuum
- Heavy-duty engine: Consult factory for more details
- With electric start and 60 gallon fuel tank for a runtime at full of load of 24 hours
- Passes 3" 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
- DOT Trailer
- LOFA auto start control panel with 50' floats assembly



Also available in 4", 8", and 12" versions. Please consult Factory.

Model	Discharge / Suction Size (inches)	Engine	Max. Output (hp/rpm)	Dimensions (inches)			Shipping Weight (lbs.)
				Length	Width	Height	
EPT4-150	6" ANSI Flange	Consult Factory	Consult Factory / 2200	136 1/2	67	67 7/8	Consult Factory
EPT4-150Q	6" ANSI Flange	Consult Factory	Consult Factory / 2200	161 1/2	76 1/8	79 13/16	Consult Factory

Electric Submersible Pumps Specifications

LB Series • HS Series

		LB-480 2" Dewatering Pump	LB-480A 2" Automatic Dewatering Pump	LB-800 2" Slimline Pump	LB-800A 2" Automatic Slimline Pump	LB-1500 3" Slimline Pump	HS2.4S 2" Sand/Solids Trash Pump	HSZ2.4S 2" Automatic Trash Pump	HS3.75S 2" Sand/Solids Trash Pump	HSZ3.75S 3" Automatic Trash Pump	HSD2.55S 2" Extreme Durable Sand Pump
FLUID	Max. Capacity (GPM)	62.4		82		111	53		61		58
	Max. Head (ft.)	39.5		59		69	39		62		43
	Solid Diameter (in.)	0.236					0.276				
PUMP	Impeller	Semi-Vortex				Semi-Open	Semi-Vortex				
	Impeller Material	Urethane Rubber				High Chrome	Urethane Rubber				High Chrome
	Casing Material	Ethylene Propylene Rubber		Butadiene Rubber & Natural Rubber		Butadiene Rubber, Natural Rubber & Steel	Gray Iron Casing				Ductile Iron Casing
	Wear Plate Material	Urethane Rubber				Natural Rubber	Integral Part of Casting				
	Shaft Seal - Type / Material	Double Inside Mechanical Seal with Silicon Carbide faces on lower seals and Carbon Ceramic Faces on upper seals									
	Seal Lubricant - Type	SAE 10W/20W or Turbine Oil (ISO VG32)									
	Seal Lubricant Amount (ounces)	5.2		5.2		12.5	5.4		5.4		5.4
	Seal Protection	V-Ring and Oil Lifter (Oil Lifter is patented by Tsurumi Pump)									
	Discharge Connection	2" MNPT Coupling				3" MNPT Coupling (2" is optional)	2" MNPT Coupling		3" MNPT Coupling		2" MNPT Coupling
	MOTOR	Motor Output (HP)	2/3		1		2	1/2		1	
Phase		Single Phase									
Voltage (V)		115 or 220		115 or 230			115 or 220		115 or 230		
Amperage - Rated Current		5.9 (115V)	3.0 (220V)	10.5 (115V)	5.2 (230V)	26.2 (115V) 13.2 (230V)	5.2 (110V)	2.7 (220V)	9.7 (115V)	4.9 (230V)	7.3 (115V) 3.7 (230V)
Amperage - Starting Current		12.4 (115V)	5.9 (220V)	20.6 (115V)	12.6 (230V)	112 (115V) 56 (230V)	12.4 (110V)	5.9 (220V)	29.7 (115V)	18.5 (230V)	19.0 (115V) 12.6 (230V)
Type		Continuous Duty, Air Filled, 3600 RPM, 60Hz									
Bearings		Double shielded, Permanently lubricated, High-temp C3 with B-10 life of 60,000 hours									
Insulation Class		E				B	E				
Motor Protection (Built-in)		Miniature Protector		Circle Thermal Protector			Miniature Protector		Circle Thermal Protector		
Plug Configuration (Nema)		5-15P (115V) No Plug (220V)		5-15P (115V) No Plug (230V)		No Plug	5-15P (110V) No Plug (220V)		5-15P (115V) No Plug (230V)		
Cable - # of Conductors x AWG		3C x 16AWG		3C x 14AWG		3C x 12AWG (110V) 3C x 14AWG (230V)	3C x 16AWG		3C x 14AWG		3C x 16AWG
Standard Cable Length (ft)		32		50		50	20		32		32
Max. Cable Length (ft)		110 (115V)	420 (220V)	100 (115V)	400 (230V)	70 (115V) 160 (230V)	120 (115V)	460 (220V)	100 (115V)	430 (230V)	90 (115V) 350 (230V)
Recommended Generator Capacity (watts)		2700		4600		8400	2400		3700		2900
Optional Float Switch		TS-301	N/A	TS-302 (115V) TS-303 (230V)	N/A	TS-303 (230V Operation only)	TS-301 (110V)	N/A	TS-302	N/A	TS-301
DIMENSION	Diameter (inches)	7 3/8	8 3/4	7 9/16	8 3/4	7 3/8	10 1/16	13 1/2	12 7/16	13 1/2	10 3/8
	Height (inches)	11 1/4	11 1/4	13 7/16	13 7/16	23 5/16	12 15/16	15 1/8	15 5/16	17 1/2	15 3/8
	Continuous Running Water Level (in.)	2	4 1/2 (Pump Starting Water Level)	2	6 3/4 (Pump Starting Water Level)	3 1/8	3 1/2	15 1/8 (Pump Starting Water Level)	3 1/2	17 1/2 (Pump Starting Water Level)	4 1/8
	Shipping Weight (lbs.)	28	29	37	38	85	30	30	50	50	39

Electric Submersible Pumps Specifications

LSR Series • LSC Series • NK Series • LBT Series • LH Series

		LSR2.4S 2" Ground Level Pump	LSC1.4S 1" Floor Level Pump	NK2-15 3" Heavy Duty High Head	NK3-22 3" Heavy Duty High Head	NK3-22L 3" Heavy Duty High Flow	LBT-800 2" 3-Phase Slimline Pump	LBT-1500 3" 3-Phase Slimline Pump	LH23.0W 2" 3-Phase Slimline Pump	LH33.0 3" 3-Phase Slimline Pump	
FLUID	Max. Capacity (GPM)	62.4	45	111	130	211	82	111	145	291	
	Max. Head (ft.)	39.5	39	69	85	59	59	69	141	72	
	Solid Diameter (in.)	0.236		0.334			0.236				
PUMP	Impeller	Semi-Vortex				Semi-Open	Semi-Vortex	Semi-Open	Closed		
	Impeller Material	Urethane Rubber		Ductile Iron Casing		High Chrome	Urethane Rubber	High Chrome	High Chrome		
	Casing Material	Ethylene Propylene Rubber				Cast Iron	Natural Rubber		Ductile Cast Iron		
	Wear Plate Material	Urethane Rubber		Integral Part of Casting		Ductile Iron Casting	Natural Rubber		Integral Part of Casting		
	Shaft Seal - Type / Material	Double Inside Mechanical Seal with Silicon Carbide									
	Seal Lubricant - Type	SAE 10W/20W or Turbine Oil (ISO VG32)									
	Seal Lubricant Amount (ounces)	5.1	5.2	9.1			5.2	12.5	13.8		
	Seal Protection	V-Ring and Oil Lifter (Oil Lifter is patented by Tsurumi Pump)							Oil Lifter (Patented by Tsurumi)		
	Discharge Connection	2" MNPT Coupling	3/4" MNPS Coupling	3" MNPT Coupling			2" MNPT Coupling	3" MNPT Coupling (2" is optional)	2" MNPT Coupling	3" MNPT Coupling	
MOTOR	Motor Output (HP)	2/3		2	3		1	2	4		
	Phase	Single Phase					Three Phase				
	Voltage (V)	115 or 220		110 or 220	220		208-230 / 460 / 575		208-230 / 460 / 575		
	Amperage - Rated Current	5.9 / 3.0		23.0 / 11.5		13	3.6-3.7 / 1.7 / 1.4		7.2-8.0 / 4.0 / 3.0	12.3-12.0 / 6.0 / 4.7	
	Amperage - Starting Current	12.4 / 5.9		141 / 70		70	15.4 / 7.0 / 7.9		65-71 / 36 / 27	87-97 / 49 / 35	
	Type	Continuous Duty, Air Filled, 3600 RPM, 60Hz									
	Bearings	Double Shielded, Permanently Lubricated									
	Insulation Class	E		B			E		F		
	Motor Protection (Built-in)	Miniature Protector		Circle Thermal Protector							
	Plug Configuration (Nema)	5-15P		No Plug							
	Cable - # of Conductors x AWG	3C x 16AWG		3C x 12AWG	3C x 14AWG		4C x 16AWG		4C x 14AWG		
	Standard Cable Length (ft)	32	20	32	32		50		65		
	Max. Cable Length (ft)	110 (115V)	420 (220V)	75 (110V) 300 (220V)	150		380 (230V) 1800 (460V) 2730 (575V)	190 (230V) 760 (460V) 1270 (575V)	180 (208-230V) 810 (460V) 1300 (575V)		
	Recommended Generator Capacity (watts)	2700		7200	10000		3600	7400	14200		
	Optional Float Switch	SLS-LSR32	SLS-LSC20	TS-304 (115V) TS-303 (220V)	TS-303		Control Panel				
DIMENSION	Diameter (inches)	8 1/4	7 11/16	9 7/16	9 7/16	9 1/4	7 9/16	7 3/8	7 5/16	7 5/16	
	Height (inches)	11 3/8	12 7/16	24 1/2	24 1/2	26 1/2	13 7/16	23 5/16	24 13/16	25 3/8	
	Continuous Running Water Level (in.)	0.20	0.04	3 1/4	3/14	4 3/4	2	3 1/8	7 7/8	5 7/8	
	Shipping Weight (lbs.)	28	29	80	78	84	35	85	121	113	

Electric Submersible Pumps Specifications

KTZ Series

		KTZ21.5	KTZ31.5	KTZ22.2	KTZ32.2	KTZ23.7	KTZ33.7	KTZ43.7	KTZ35.5	KTZ45.5	KTZ47.5	KTZ67.5	KTZ411	KTZ611		
		Wear Resistant Pumps														
FLUID	Max. Capacity (GPM)	106	180	132	203	143	219	386	260	428	349	549	377	645		
	Max. Head (ft.)	75	47	100	67	115	102	61	125	79	137	102	167	107		
	Solid Diameter (in.)	0.334										0.472	0.787	0.472	0.787	
PUMP	Impeller	Semi-Open														
	Impeller Material	High Chrome														
	Casing Material	Cast Iron														
	Wear Plate Material	Ductile Cast Iron														
	Shaft Seal - Type / Material	Double Inside Mechanical Seal with Silicon Carbide														
	Seal Lubricant - Type	SAE 10W/20W or Turbine Oil (ISO VG32)														
	Seal Lubricant Amount (ounces)	25.0		25.0		40.6			37.2		25.7		25.7			
	Seal Protection	Lip Seal and Oil Lifter (Oil Lifter is patented by Tsurumi Pump)														
	Discharge Connection	2" MNPT Coupling	3" MNPT Coupling	2" MNPT Coupling	3" MNPT Coupling	2" MNPT Coupling	3" MNPT Coupling	4" MNPT Coupling	3" MNPT Coupling	4" MNPT Coupling	4" MNPT Coupling	4" MNPT Coupling (6" Optional)	4" MNPT Coupling	4" MNPT Coupling (6" Optional)		
MOTOR	Motor Output (HP)	2		3		5			7.5		10		15			
	Phase	Three Phase														
	Voltage (V)	208-230 / 460 / 575														
	Amperage - Rated Current	6.2-6.0 / 3.1 / 2.3			9.4-9.0 / 4.5 / 3.5			15.0-13.6 / 6.8 / 5.3			21.0-19.7 / 10.0 / 7.9		29.8-27.3 / 13.3 / 10.4		39.8-37.4 / 18.6 / 14.9	
	Amperage - Starting Current	42-48 / 24 / 18			67-74 / 37 / 27			107-117 / 59 / 43			153-167 / 84 / 63		208-228 / 114 / 82		272-299 / 150 / 119	
	Type	Continuous Duty, Air Filled, 3600 RPM, 60Hz														
	Bearings	Double Shielded, Permanently Lubricated														
	Insulation Class	F														
	Motor Protection (Built-in)	Circle Thermal Protector														
	Plug Configuration (Nema)	No Plug														
	Cable - # of Conductors x AWG	4C x 16AWG					4C x 14AWG			4C x 12AWG		4C x 10AWG		4C x 8AWG		
	Standard Cable Length (ft)	50														
	Max. Cable Length (ft)	220 (230V) 980 (460V) 1660 (575V)			140 (230V) 680 (460V) 1090 (575V)			140 (230V) 720 (460V) 1150 (575V)			180 (230V) 850 (460V) 1350 (575V)		200 (230V) 1010 (460V) 1610 (575V)		220 (230V) 1050 (460V) 690 (575V)	
	Recommended Generator Capacity (watts)	8800			12400			19100			27600		38300		53700	
	Optional Float Switch	N/A														
DIMENSION	Diameter (inches)	9 1/4		9 1/4		11 1/8			12 1/16		13	13	14 3/4			
	Height (inches)	25 1/2		26 5/16		26 1/4	26 5/8	27 1/16	28 3/8	28 3/4	31 13/16		32 5/16			
	Continuous Running Water Level (in.)	4/3/4		4 3/4		5 7/8			5 7/8		7 1/2		7 1/2			
	Shipping Weight (lbs.)	77	75	79	77	137			167	170	225		293	295		

Engine Powered Pumps Specifications

TE2-25HA • TE3-50HA - 80HA • TE2-100HA

EPT3-50HA - 100HA • THP-4070HA

		TE2-25H 1" Dewatering Pump	TE3-50HA 2" Dewatering Pump	TE3-80HA 3" Dewatering Pump	TE2-100HA 4" Dewatering Pump	EPT3-50HA 2" Trash Pump	EPT3-80HA 3" Trash Pump	EPT3-100HA 4" Trash Pump	THP-4070HA High Pressure Pump
FLUID	Max. Capacity (GPM)	34	137	264	476	185	357	569	100
	Max. Capacity (GPH)	2040	8220	15840	28560	11100	21420	34140	6000
	Max. Head (ft.)	115	105	105	92	92	92	95	230
	Max. Solid Diameter (in.)	0.197	0.217			0.787	1.22		0.197
	PUMP	Impeller Type	Semi-Open						
Impeller Material		Cast Iron				High Chrome Iron Casting			Aluminum
Volute Casting Material		Cast Iron							
Water Plate Material		Integral Part of Volute				Stainless Steel			Integral Part of Volute
Pump Casing Material		Die Cast Aluminum				Cast Aluminum			
Shaft Seal - Type / Material		Silicon Carbide Mechanical Seal							
Seal Lubricant - Type		Water							
Discharge Connection		1" NPSH Coupling	2" NPT Coupling	3" NPT Coupling	4" NPT Coupling	2" NPT Coupling	3" NPT Coupling	4" NPT Coupling	1"x2, 1.5"x1 NPSH Coupling
Suction Connection		1" NPSH Coupling	2" NPT Coupling	3" NPT Coupling	4" NPT Coupling	2" NPT Coupling	3" NPT Coupling	4" NPT Coupling	1.5" NPSH Coupling
ENGINE	Brand	Honda							
	Model	GX-25	GX-120	GX-160	GX-240	GX-160	GX-240	GX-360	GX-160
	Type	Air-Cooled, 4-Cycle Cylinder with Oil Sensor							
	Output (HP)	1.1	4	5.5	8	5.5	8	11	5.5
	RPM	2220	3600	3600	3600	3600	3600	3600	3600
	Fuel	Unleaded Gasoline							
	Fuel Tank Capacity (US Gallon)	0.15	0.66	0.95	1.59	0.95	1.6	1.7	0.95
	Continuous Run Time Per Tank (hr.)	1.21	3.0	3.3	3.2	3.3	3.2	2.6	3.3
	Starting Method	Recoil Starter							
DIMENSION	Length (inches)	9	18 1/2	20 1/2	25	23 1/4	27 1/2	30 1/8	21
	Width (inches)	14	14 5/8	16 1/2	18	18 1/4	20 1/8	20 1/8	16
	Height (inches)	13	17 1/8	18 1/8	23 1/2	17 3/8	25 5/8	26	18
	Shipping Weight (lbs.)	12	55	64	109	82	136	160	62

Engine Powered Pumps Specifications

TD5-200/300 • TDE5-200/300 • EPT5-150HA/150KD EPT2-100/150 • EPT4-150/150Q

		TD5-200 2" Diaphragm Pump	TD5-300 3" Diaphragm Pump	TDE5-200 2" Electric Diaphragm Pump	TDE5-300 3" Electric Diaphragm Pump	EPT5-150HA 6" Trash Pump	EPT5-150KD 6" Trash Pump	EPT2-100 4" Heavy Duty Trash Pump	EPT2-150 6" Heavy Duty Trash Pump	EPT4-150 6" Heavy Duty Trash Pump	EPT4-150Q 6" Heavy Duty Trash Pump
FLUID	Max. Capacity (GPM)	50	88	33	59	1000	1000	680	1430	2400	2400
	Max. Capacity (GPH)	3000	5280	1980	3540	60000	60000	40800	85800	144000	144000
	Max. Head (ft.)	25	25	25	25	98	98	104	104	160	160
	Max. Solid Diameter (in.)	1 1/2	1 5/8	1 1/2	1 5/8	3		2	3	3	
PUMP	Impeller Type	Diaphragm				Semi-Open				Fully Enclosed	
	Impeller (Diaphragm) Material	TPE				Stainless Steel		Ductile Iron		Cast Iron	
	Volute Casting Material	N/A				Cast Iron					
	Water Plate Material	N/A				Cast Iron		Rubber Lined Cast Iron			
	Pump Casing Material	Sand Cast Aluminum				Aluminum		Cast Iron			
	Shaft Seal - Type / Material	N/A				Silicon Carbide / Buna		Tungsten Carbide / Viton & 304 Stainless Steel		Tungsten Carbide Silicon Carbide	
	Seal Lubricant - Type	N/A				Water		Grease		Oil	
	Discharge Connection	2" NPT Coupling	3" NPT Coupling	2" NPT Coupling	3" NPT Coupling	6" NPT Coupling	6" NPT Coupling	4" NPT Coupling	6" NPT Coupling	6" ANSI Flange	
	Suction Connection	2" NPT Coupling	3" NPT Coupling	2" NPT Coupling	3" NPT Coupling	6" NPT Coupling	6" NPT Coupling	4" NPT Coupling	6" NPT Coupling	6" ANSI Flange	
	ENGINE	Brand	Honda		N/A		Honda	Koehler	Consult Factory	Consult Factory	Consult Factory
Model		GX-120		N/A		GX-670	KDW1003	Consult Factory	Consult Factory	Consult Factory	
Type		Air-Cooled, 4-Cycle Cylinder with Oil Sensor		N/A		Air-Cooled V-Twin w/ Oil Sensor	Liquid Cooled, 4-Cycle, 3 Cylinder w/ Tach, Hour meter / Oil Sensor	Water Cooled 4-Cycle Tier 4 Diesel		Liquid Cooled, 4-Cycle Four Cylinder w/ Temperature Oil / Sensor	
Output (HP)		4				22.0	23.4	Consult Factory	Consult Factory	Consult Factory	
RPM		3600		1725		3600		1800		2200	
Fuel		Unleaded Gasoline		Electric Motor (115V)		Unleaded Gasoline	Diesel				
Fuel Tank Capacity (US Gallon)		0.5		N/A		20		Consult Factory	Consult Factory	60	130
Continuous Run Time Per Tank (hr.)		2		N/A		12		24+	24+	24+	30+
Starting Method		Recoil Starter		Electric Motor		12V Electric Start, Battery not included		Electric, 12V (Battery Included)			
DIMENSION		Length (inches)	43	43	44	44	99	99	116 1/2	126 1/2	136 1/2
	Width (inches)	20	26	20	26	48	48	72 1/2	72 1/2	67	76 1/8
	Height (inches)	23	23	23	23	60	60	77	77	67 7/8	79 13/16
	Shipping Weight (lbs.)	160	175	165	185	1125	1250	Consult Factory	Consult Factory	Consult Factory	Consult Factory

TSURUMI PUMP Portable Generators

TSURUMI TPG4 Series Generators are designed to withstand the severe conditions of construction jobsites or industrial applications, especially where extra durability and dependable, stable power are required. Ideal to supply the power to Tsurumi's single-phase submersible pumps and all your electrical power tools such as drills, saws, lighting and heaters.

TPG4 Series Generators Features *powered by Honda*

- High Capacity Fuel Tank with Fuel Gauge for extended run time.
- Large, Silent Muffler with USDA qualified spark arrestor to greatly reduce noise.

Optional Accessories - See page 29 & 31

- PGWK-200X Wheel Kit & PGLB-1X Lifting Bail

Powered by **Honda OHV engine** for efficient fuel and oil construction with oil alert system to shut off motor if oil fails below safe operating level.

Large Air Filter for **superior emission control**.

Automatic Idle Control reduces fuel consumption, noise, and engine wear.

Auto Idle Control Switch on Control Panel. (Not available on TPG4-3000HDX)

Rubber Vibration Pads isolate generator / engine set for **maximum protection and noise reduction**.



TPG4 SERIES GENERATORS SPECIFICATIONS

See Page 29 & 31 for Generator Accessories



	TPG4-3000HDX	TPG4-4500HDX
Max. / Rated Output (watts)	2600 / 2200	4500 / 3600
Max. / Rated Current (120V / 240V)	23.3 / 18.3	37.5/30, 18.7/15
Voltage (V) (60Hz)	120	120 / 240
AC Outlet Replacement	1-NEMA 5-20R Duplex (20A, 12A, W/GFCI)	2-NEMA 5-20A Duplex (20A, 12A, W/GFCI) 1-NEMA L5-30R (30A, 120V, Twist Lock) 1-NEMA L14-30R (30A, 120/240V, Twist Lock)
Engine Model	GX160T2	GX240T2
Maximum HP	5.5 (3600RPM)	8.0 (3600RPM)
Displacement	163 (10inch ³)	242 (15inch ³)
Fuel Tank Capacity (gallon)	4.2	6.6
Running Time (Rated load)	12.1	12.5
Starting System	Recoil	Recoil
Noise Level (Rated Load)	64dB	68dB
Shipping Size (LxWxH)(inches)	24.4 x 19.5 x 20.5	27.6 x 23.4 x 22.6
Shipping Weight (lbs.)	110	161

	TPG4-6000HDX	TPG4-7000HDX TPG4-7000HDXE
Max. / Rated Output (watts)	5500 / 4800	6800 / 6000
Max. / Rated Current (120V / 240V)	45.8/40, 22.9/20	56.7/50, 28.3/25
Voltage (V) (60Hz)	120 / 240	120 / 240
AC Outlet Replacement	2-NEMA 5-20A Duplex (20A, 12A, W/GFCI) 1-NEMA L5-30R (30A, 120V, Twist Lock) 1-NEMA L14-30R (30A, 120/240V, Twist Lock)	
Engine Model	GX340T2	GX390T2
Maximum HP	11.0 (3600RPM)	13.0 (3600RPM)
Displacement	337 (21inch ³)	389 (24inch ³)
Fuel Tank Capacity (gallon)	6.6	6.6
Running Time (Rated load)	8.5	7.6
Starting System	Recoil	Recoil (HDX), Electric (HDXE)
Noise Level (Rated Load)	72dB	78dB
Shipping Size (LxWxH)(inches)	27.6 x 23.4 x 22.6	27.6 x 23.4 x 22.6
Shipping Weight (lbs.)	183	192(HDX), 199(HDXE)

TSURUMI PUMP Pump Accessories

Automatic Float Switch Model: TS-301/302/303/304, SLS-LSR32, SLS-LSC20



TS-Series (TS-301/302/303/304)

Piggy-back float switches allow fast & easy installation of Tsurumi submersible pumps for automated operation.

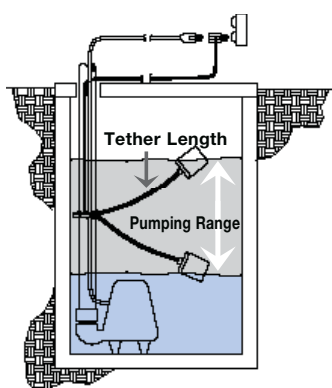


SLS-LSC20 / SLS-LSR32

The surface level switch is used to automate a utility/floor sucking pump. Set the Surface Level Switch on the floor and plug the power cord from the pump into the piggyback plug on the switch. Plug the piggy-back plug into a standard 120 VAC wall outlet (the unit will also work on GFI outlets).

Tether Length (in.)	Pumping Range (in.)
3.5	7
6	10
10	16
14	22
18	28
22	33
24	36

Note: Due to cable weight, pumping range above horizontal is NOT equal to pumping range below horizontal. As tether length increases, so does the variance of the pumping range. Pumping ranges are based on testing in non-turbulent conditions. Actual conditions may vary. Use these values as a guide.



Automatic Float Switch

Pump Float Switch Model	Maximum Pump Running Current	Maximum Pump Starting Current	Required Nema Plug Configuration	For Pump Model(s)	Cord Length (ft.)
TS-301	13 amps / 120 VAC, 60Hz	85 amp / 120 VAC, 60Hz	5-15P	HS2.4S (110V) HSD2.55S (115V) LB-480 (110V)	30
TS-302	15 amp / 120 VAC, 60Hz	85 amp / 120 VAC, 60Hz	5-15P	HS3.75S (115V) LB-800 (115V)	30
TS-303	15 amp / 250 VAC, 60Hz	85 amp / 250 VAC, 60Hz	6-15P	HS2.4S (220V) HS3.75S (230V) LB-480 (220V) LB-800 (230V) LB-1500 (230V) NK2-15 (220V) NK3-22 (220V) NK3-22L (220V)	30
TS-304	25 amp / 120 or 230 VAC, 60Hz	140 amp / 250 VAC, 60Hz	Hardwire to breaker box	NK2-15 (115V)	30
SLS-LSR32	13 amps / 120 VAC, 60Hz	85 amp / 120 VAC, 60Hz	5-15P	LSR2.4S	32
SLS-LSC20	13 amps / 120 VAC, 60Hz	85 amp / 120 VAC, 60Hz	5-15P	LSC1.4S	20

Hoses See Pump Accessories Guide (Page 30-31) to find more details

Hose Kit



Hose Kit with NPT



Hose Kit with Quick Connect

Discharge Hose



NPT



Quick Connect

Suction Hose



NPT



Quick Connect

Other Hoses



Mill Hose



Suction Hose

Hose Accessories



Hose Nozzle



Quick Connect 'A'



Quick Connect 'F'

Sand Kit Model: K15-SK / K22-SK

The Sand Kit can be added to the NK Series to suspend sand and prevent sand lock.



Residue Kit Model: HS-RK

Available for the HS2.4S, the Residue Kit allows pumping of residual water down to 0.4 inches.



Wheel Kit & Lifting Bail



Wheel Kit PGWK-200X
for TPG4 Series Generator &
Gas Engine Pumps



Lifting Bail
PGLB-1X

PGWK-200X Wheel kit for TPG4 generators & TE/EPT/THP engine pumps

PGLB-1X Lifting bail for all TPG4 generators & TE/EPT/THP engine pumps*

**excluding TPG4-3000HDX*

Heavy-duty and easy to install our wheel kits, and lifting bails fit all of Tsurumi Generators.

Control Panels



**For NK, KTZ, LH, and LHW Series
MANUAL CONTROL PANEL INCLUDES:**

- Manual Simplex Operation
- Nema 4X, Lockable Fiberglass Enclosure
- IEC Contactor
- Hand/Off Selector Switch
- UL Listed
- Cable Grips In Control Panel

AUTOMATIC CONTROL PANEL INCLUDES:

- Automatic or Manual Simplex Operation
- Nema 4X, Lockable Fiberglass Enclosure
- IEC Rated Magnetic Contactor
- Hand/Off Auto Selector Switch
- UL Listed
- Includes (2) 20 Ft. Mechanical Float Switches
- Cable Grips In Control Panel

Inverter Panels are available for LHW and KTZ series Single Phase operation







TSURUMI PUMP Pump Accessories

Pump Accessories Guide - Electric Submersible Pumps

Electric Submersible Pumps

	Float Switch	Sand Kit	Residue Kit	2" Straight Discharge	3" Straight Discharge
MODEL		Sand Kit ONLY 			
LB-480	TS-301				
LB-480A					
LB-800	TS-302				
LB-800A					
LB-1500	TS-303 (220V Only)			032-351-11	
HS2.4S	TS-301		HS-RK	032-214-11	
HSZ2.4S			HS-RK	032-214-11	
HS3.75S	TS-302			032-158-16	032-160-11
HSZ3.75S				032-158-16	032-160-11
HSD2.55S	TS-301			032-214-11	
NK2-15	TS-304 (115V) / TS-303 (220V)	K15-SK			
NK3-22	TS-303	K22-SK			
NK3-22L	TS-303	K22-SK			
LSR2.4S	SLS-LSR32				
LSC1.4S	SLS-LSC20			032-426-18	

Electric Submersible Pumps (continued)

	2" Discharge Hose NPT	2" Discharge Hose Quick Connect	2" Quick Disconnect 'A'	3" Discharge Hose NPT	3" Discharge Hose Quick Connect	3" Quick Disconnect 'A'
MODEL	XXHS2D 	XHD2QC50 	G200-A-AL 	XXHS3D 	XHD3QD50 	G300-A-AL 
LB-480	X	X	X			
LB-480A	X	X	X			
LB-800	X	X	X			
LB-800A	X	X	X			
LB-1500*	X	X	X	X	X	X
HS2.4S	X	X	X			
HSZ2.4S	X	X	X			
HS3.75S				X	X	X
HSZ3.75S				X	X	X
HSD2.55S	X	X	X			
NK2-15				X	X	X
NK3-22				X	X	X
NK3-22L				X	X	X
LSR2.4S	X	X	X			
LSC1.4S						













* Standard discharge size is 2". 3" is optional.

Pump Accessories Guide - Engine Driven Pumps & Generators













Engine Driven Pumps: Discharge Size 1" and 1 1/2"

	Wheel Kit	Lifting Bail	1" Mill Hose	1" Suction Hose NPT	1.5" Mill Hose	1.5" Suction Hose NPT	1" Lexan Nozzle	1.5" Lexan Nozzle
MODEL	PGWK-200X Wheel kit ONLY 	PGLB-1X Lifting Bail ONLY 	XHM1N50 	XHS1N20 	XHM15N50 	XHS15N20 	XHLN1N20 	XHLN15N20 
TE2-25H			X	X				
THP-4070HA	X	X	X		X	X	X	X



Engine Driven Pumps: Discharge Size 2", 3", and 4"

	Strainer	Wheel Kit	Lifting Bail	2" Hose Kit NPT	2" Hose Kit Quick	2" Dis. Hose NPT 50'	2" Dis. Hose Quick 50'	2" Suc. Hose NPT 20'	2" Suc. Hose Quick 20'	2" Quick Disconnect 'A'	3" Hose Kit NPT	3" Hose kit Quick
MODEL		PGWK-200X Wheel kit ONLY 	PGLB-1X Lifting Bail ONLY 	XHK2RNPT 	XHK2RQC 	XXHS2D 	XHD2QC50 	XXHS2S 	XHS2QC20 	G200-A-AL 	XHK3RNPT 	XHK3RQC 
TE3-50HA	Z047	X	X	X	X	X	X	X	X	X		
TE3-80HA	Z048	X	X								X	X
TE2-100HA	Z055	X	X									
EPT3-50HA	Z049	X	X	X	X	X	X	X	X	X		
EPT3-80HA	Z050	X	X								X	X
EPT3-100HA	Z051	X	X									
TD(E)5-200	Included			X	X	X	X	X	X	X		
TD(E)5-300	Included										X	X

Engine Driven Pumps: Discharge Size 2", 3", and 4" (Continued)

	3" Dis. Hose NPT 50'	3" Dis. Hose Quick 50'	3" Suc. Hose NPT 20'	3" Suc. Hose Quick 20'	3" Quick Disconnect 'A'	4" Hose Kit NPT	4" Hose kit Quick	4" Dis. Hose NPT 50'	4" Dis. Hose Quick 50'	4" Suc. Hose NPT 20'	4" Suc. Hose Quick 20'	4" Quick Disconnect 'A'
MODEL	XXHS3D 	XHD3QC50 	XXHS3S 	XHS3QC20 	G300-A-AL 	XHK4RNPT 	XHK4RQC 	XXHS4D 	XHD4QC50 	XXHS4S 	XHS4QC20 	G400-A-AL 
TE3-50HA												
TE3-80HA	X	X	X	X	X							
TE2-100HA						X	X	X	X	X	X	X
EPT3-50HA												
EPT3-80HA	X	X	X	X	X							
EPT3-100HA						X	X	X	X	X	X	X
TD(E)5-200												
TD(E)5-300	X	X	X	X	X							

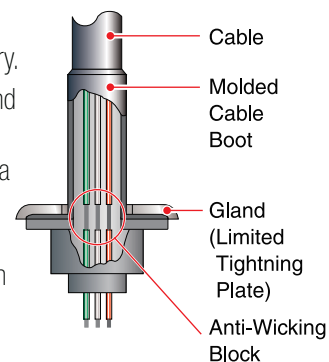
Portable Generators

	Wheel Kit	Lifting Bail
MODEL	PGWK-200X  Wheel kit ONLY	PGLB-1X  Lifting Bail ONLY
TPG4-3000HDX	X	
TPG4-4500HDX	X	X
TPG4-6000HDX	X	X
TPG4-7000HDX	X	X
TPG4-7000HDXE	X	X

TSURUMI PUMP **SUPERIOR DESIGN & TECHNOLOGY**

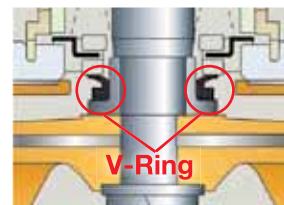
Anti-Wicking Cable Entrance: Maximum protection against water incursion through the cable entry.

- Molded Cable Boot or Cable Protection Tube - extends cable bending radius, prevents abrading, and reduces fatigue.
- Cable Gland - provides 360 degree compression of cable boot, protection tube or cable bush for a water tight fit.
- Anti-Wicking Block - window cuts on conductor insulation expose strands to molded rubber or epoxy to prove water wicking through the strands and entering the motor providing protection even if the cable insulation is cut.



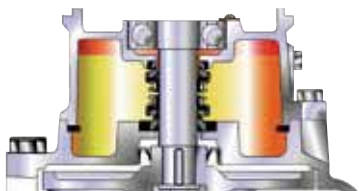
Circle Thermal Protector (CTP) - for pumps with 1-10HP: 3-Pole protector connects to each winding of the motor and reacts to excessive heat and amperage. Automatic reset at safe temperature to restart the motor. No motor protection circuit required in starter or control panel.

V-Ring: V-Ring is mounted at the top of the impeller and is brought in close contact to the bottom of the mechanical seal by the internal pressure of the pump casing. This V-Ring acts as a dust seal to prevent fine abrasive particles in the pumping fluid from reaching the mechanical seal.



High-Performance Motor:

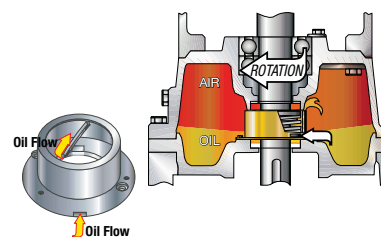
Dry type, squirrel-cage, induction motor, housed in a watertight casing, conforms to either insulation class B or E, or F. In both of these classes, all standard pumps can be used in ambient temperature up to 104°F (40°C).



Dual Inside, Silicon Carbide Mechanical Seals:

Isolation of mechanical seals in an oil chamber provides a clean, non-corrosive and abrasion free lubricating environment to prevent spring failure due to corrosion or abrasion and bottom seal failure due to loss of cooling during dry-run conditions.

Oil Lifter (Patented): Tsurumi's exclusive Oil Lifter encloses the mechanical seal and uses the centrifugal force generated by the rotating shaft and seal to pump oil to the upper seal faces. Upper and lower seal faces are positively lubricated even when extremely low oil levels exist, as experienced after long periods of extended operation.



TSURUMI PUMP



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