



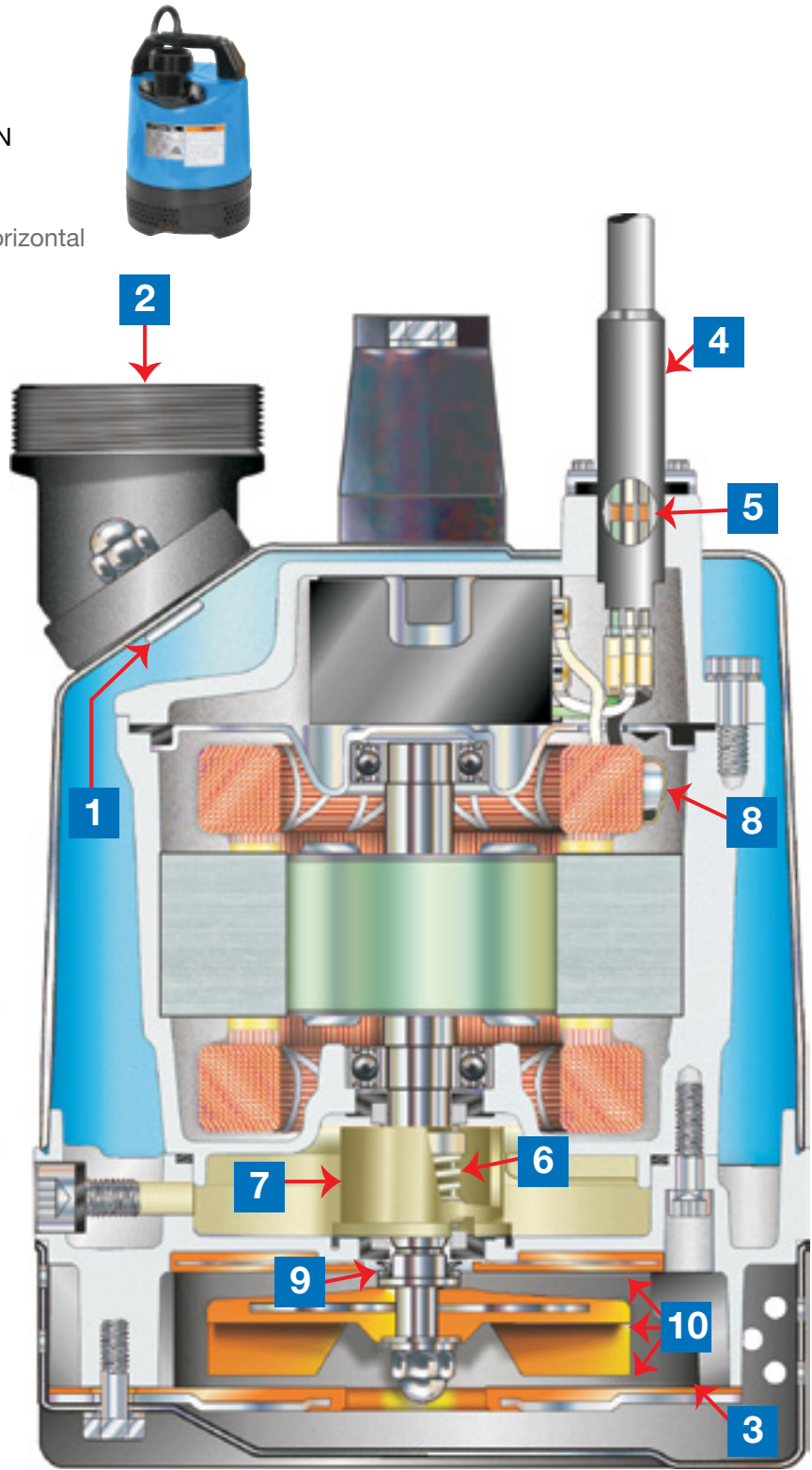
 **TSURUMI PUMP**™  
**BUILT FOR WORK**®  
CONTRACTOR PUMPS | ENGINE PUMPS | GENERATORS



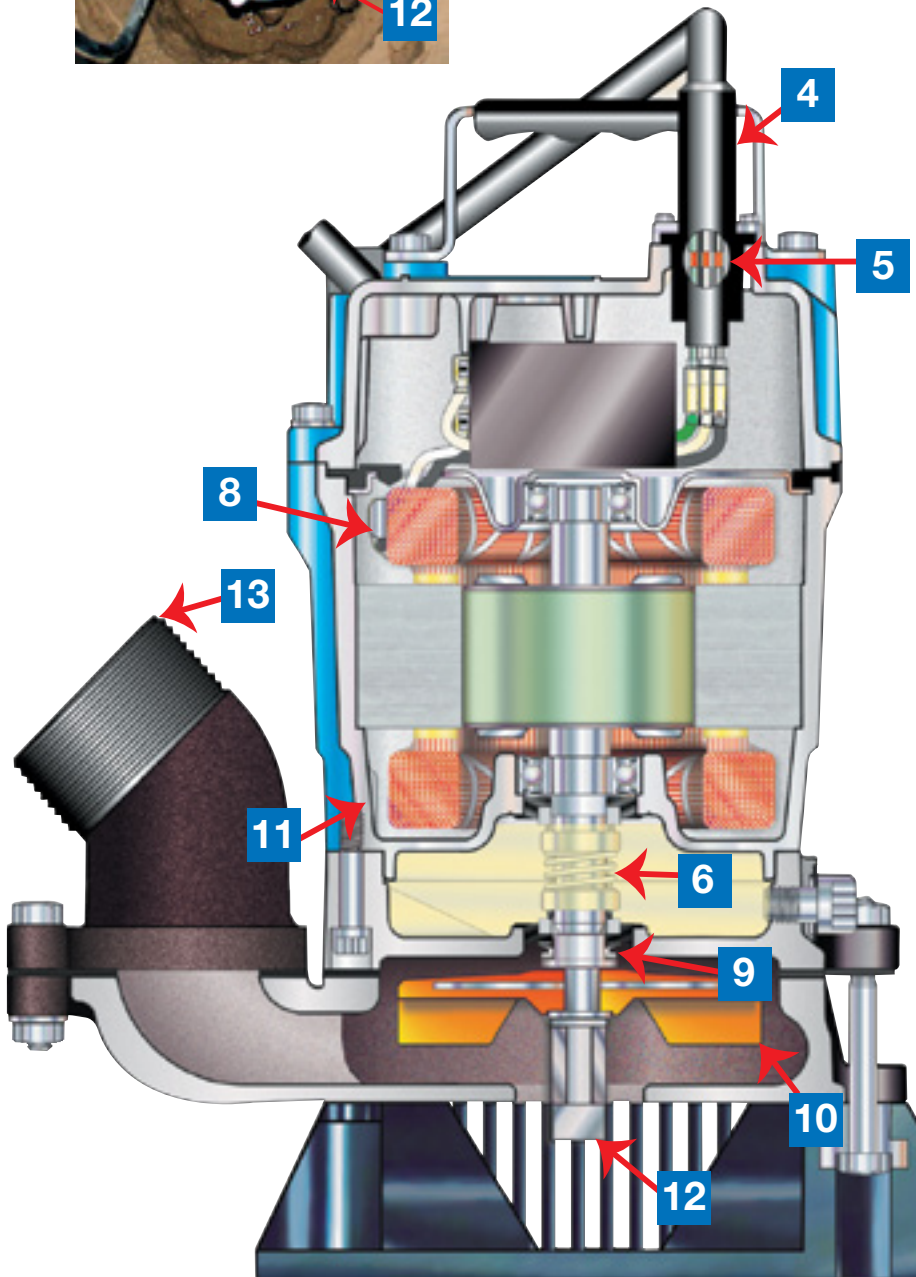
## ELECTRIC SUBMERSIBLE PUMPS - Long Life by Design

### LB Features

- 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



Featured Model HS2.4S

(Not all features available on every Tsurumi submersible pump)

**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.

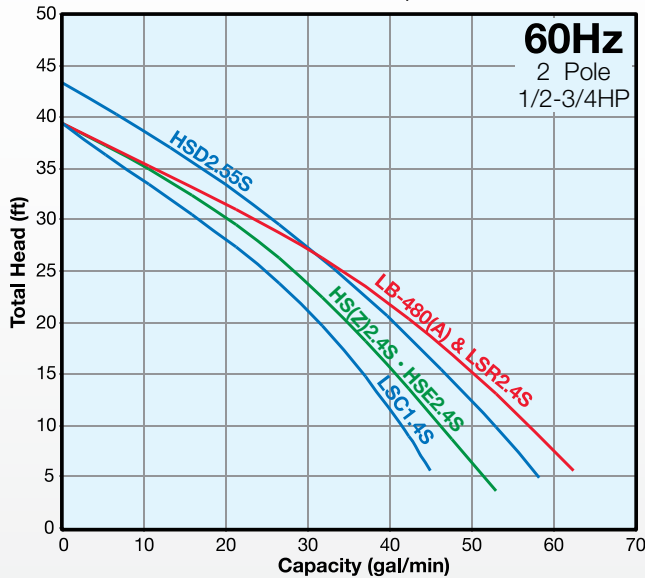
**13** 45° ANGLED DISCHARGE CONNECTOR: Provides for a more stable installation for either vertical or horizontal discharge hose.

## GROUP PERFORMANCE RANGE

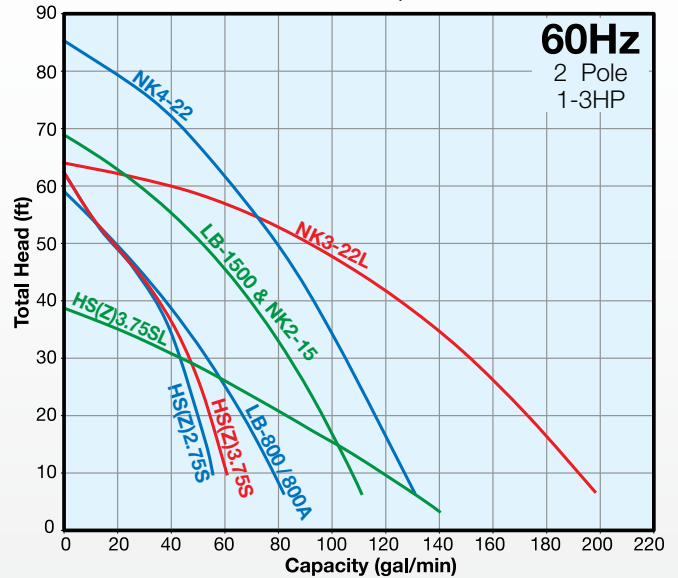
**Reliable and cost-effective pumps** enable Tsurumi to remain an industry leader in the rental and construction markets. Our customers know that while many pumps may look the same, only Tsurumi incorporates the most durable components into the final manufactured product.

### GROUP PERFORMANCE RANGE ELECTRIC SUBMERSIBLE PUMPS

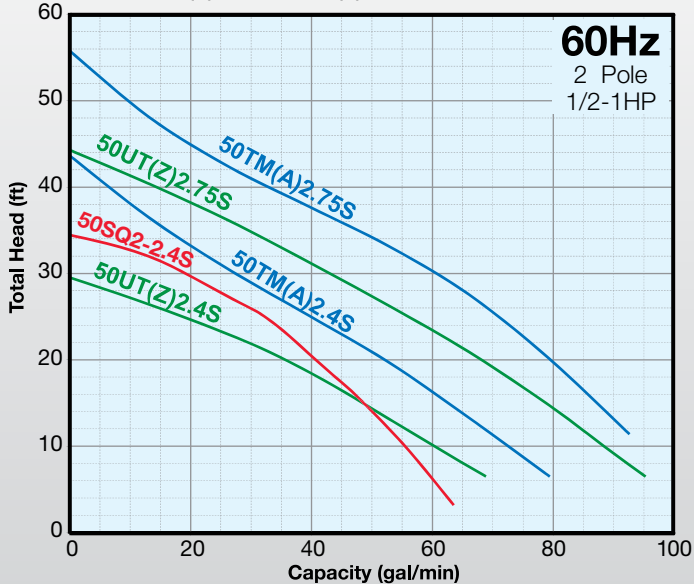
Electric Submersible Pumps: Under 1HP



Electric Submersible Pumps: 1HP or more



TM(A) Series • UT(Z) Series • 50SQ2-2.4S



**ENGINE DRIVEN PUMPS CENTRIFUGAL PUMP • TRASH PUMP • TRAILER MOUNTED**

**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).

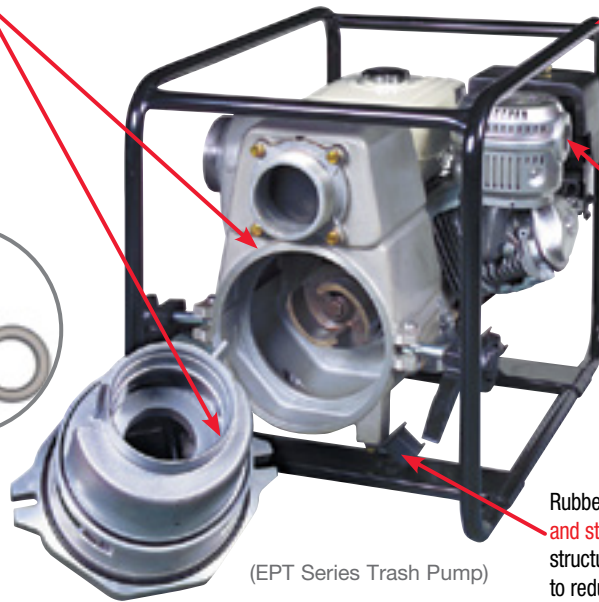
Durable Rolled-Steel frame provides for a safe, stable platform, **protects pump/engine during operation** and transport, and allows for easy handling.

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

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



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



(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

**THP HIGH PRESSURE PUMP**



**THP-4070HA**  
1" / 1.5" High Pressure Pump  
Powered by Honda

## TE SERIES - GAS ENGINE CENTRIFUGAL PUMP

Tsurumi TE Series centrifugal pumps are powerful & lightweight pumps powered by heavy-duty **Honda GX** engine. Available in 1", 2", 3" and 4" NPT coupling suction sizes.



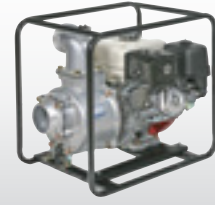
TE2-25H



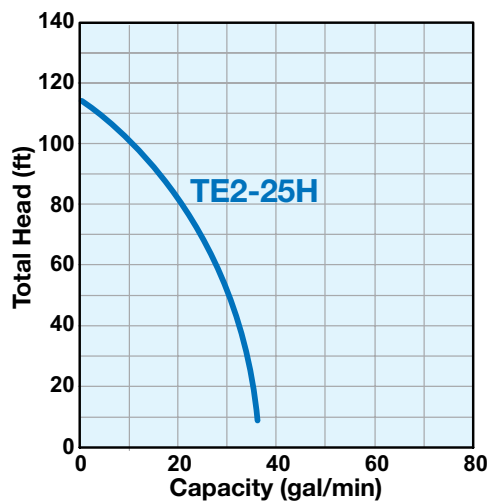
TE3-50HA



TE3-80HA



TE2-100HA



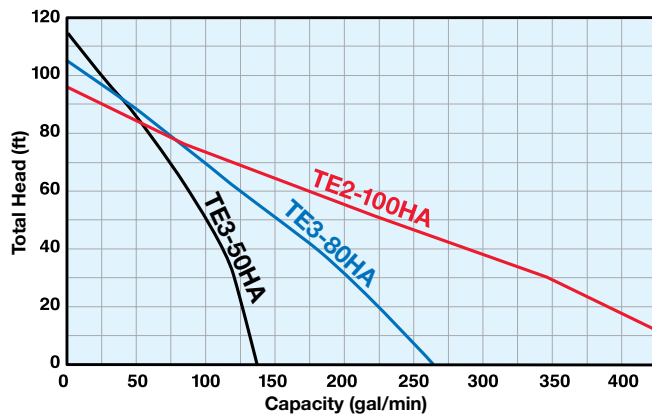
### TE Series Features

- Heavy-duty Honda gas engine with oil sensor and Silicon Carbide mechanical seal provides longer life
- 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
- Suction strainer included (TE2-25H)
- 1", 2" and 3" models are light enough for parcel shipment

Optional Accessories - See page 24-27

TE2-25H: 1" Mill Hose, 1" Suction Hose NPT

TE3-50HA / -80HA / TE2-100HA: Hose Kit, Hoses & Hose accessories, Wheel Kit



Model	Discharge / 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
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

## SPECIFICATIONS - ENGINE PUMPS: TE • EPT • THP

		TE2-25H	TE3-50HA	TE3-80HA	TE2-100HA	EPT3-50HA	EPT3-80HA	EPT3-100HA	THP-4070HA	
		1" Dewatering Pump	2" Dewatering Pump	3" Dewatering Pump	4" Dewatering Pump	2" Trash Pump	3" Trash Pump	4" Trash Pump	High Pressure Pump	
<b>FLUID</b>	Max. Capacity (GPM)	34	137	264	476	185	357	569	100	
	Max. Capacity (GPH)	2040	8200	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	
<b>PUMP</b>	Impeller Type	Semi-Open							Closed	
	Impeller Material	Cast Iron				High Chrome Casting			Aluminum	
	Volute Casing Material	Cast Iron								
	Wear 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"x2, 1.5"x1 NPSH Coupling	
	<b>ENGINE</b>	Brand	Honda							
Model		GX-25	GX-120	GX-160	GX-240	GX-160	GX-240	GX-340	GX-160	
Type		Air-Cooled, 4-Cylinder with Oil Sensor								
Output (HP)		1.1	4	5.5	8	5.5	8	11	5.5	
RPM		2220	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	3.3	3.2	3.3	3.2	2.6	3.3	
Starting Method	Recoil Starter									
<b>DIMENSION</b>	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	

**PUMP ACCESSORIES** for Electric Submersible Pumps, Engine Pumps & Portable Generators

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

See Page 26-27 for more details



**TS-301 • TS-302 • TS-303 • TS-304**

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

TS-301 • TS-302 .... NEMA 5-15P plug; 30'  
TS-303 ..... NEMA 6-15P plug; 30'



**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).



**Hoses**

See Page 26-27 for more details

**Hose Kit**



Hose Kit with NPT



Hose Kit with Quick Connect

**Discharge Hose**



NPT



Quick Connect

**Other Hoses**



Mill Hose



Suction Hose

**Suction Hose**



NPT



Quick Connect

**Hose Accessories**



Hose Nozzle



Quick Connect 'A'



Quick Connect 'F'



**PUMP ACCESSORIES** for Electric Submersible Pumps, Engine Pumps & Portable Generators

**Sand Kit**

**Model: K15-SK / K22-SK**

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



K15-SK  
for NK2-15



K22-SK  
for NK4-22

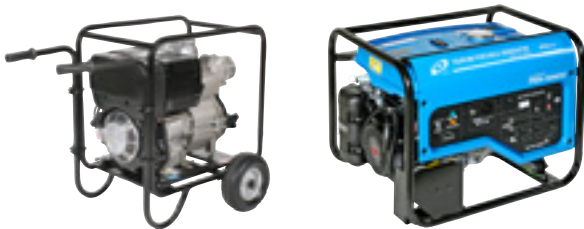
**Residue Kit**

**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

Heavy-duty and easy to install our wheel kits, and lifting bails fit Tsurumi engine pumps & generators.

**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

## PUMP ACCESSORIES GUIDE for Electric Submersible Pumps

### Electric Submersible Pumps

	Float Switch	Sand Kit	Residue Kit	2" Straight Discharge	3" Straight Discharge
<b>MODEL</b>					
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	
HSE2.4S			HS-RK	032-214-11	
HS2.75S	TS-302				032-160-11
HSZ2.75S					032-160-11
HS3.75S	TS-302			032-158-16	032-160-11
HSZ3.75S				032-158-16	032-160-11
HS3.75SL	TS-302			032-158-16	032-160-11
HSZ3.75SL				032-158-16	032-160-11
HSD2.55S	TS-301			032-214-11	
NK2-15	TS-304 (115V)/TS-303 (220V)	K15-SK			
NK4-22	TS-303	K22-SK			
NK3-22L	TS-303				
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'
<b>MODEL</b>						
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			
HSE2.4S	X	X	X			
HS2.75S	X	X	X			
HSZ2.75S	X	X	X			
HS3.75S				X	X	X
HSZ3.75S				X	X	X
HS3.75SL				X	X	X
HSZ3.75SL				X	X	X
HSD2.55S	X	X	X			
NK2-15				X	X	X
NK4-22				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 for Engine Pumps & Portable 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
<b>MODEL</b>	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
<b>MODEL</b>		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)6-200	Included			X	X	X	X	X	X	X		
TD(E)6-300	Included										X	X

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

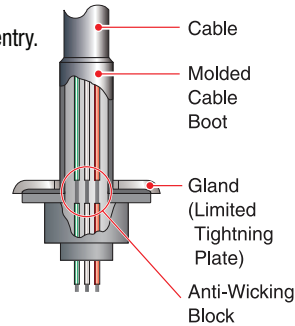
	3" Dis. Hose NPT 50'	3" Dis. Hose Quick 50'	3" Suc. Hose NPT 20'	3" Suc. Hose Quick 20'	3" Quick Disconnect 'A'	4" Hose Kit NPT	4" Hose kit Quick	4" Dis. Hose NPT 50'	4" Dis. Hose Quick 50'	4" Suc. Hose NPT 20'	4" Suc. Hose Quick 20'	4" Quick Disconnect 'A'
<b>MODEL</b>	XXHS3D 	XHD3QC50 	XXHS3S 	XHS3QC20 	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)6-200												
TD(E)6-300	X	X	X	X	X							

## Portable Generators

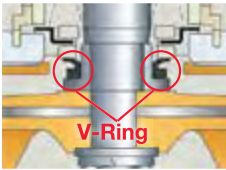
	Wheel Kit	Lifting Bail
<b>MODEL</b>	PGWK-200X Wheel kit ONLY 	PGLB-1X Lifting Bail ONLY 
TPG4-3000HDX	X	
TPG4-4500HDX	X	X
TPG4-6000HDX	X	X
TPG4-7000HDX	X	X
TPG4-7000HDXE	X	X

**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.



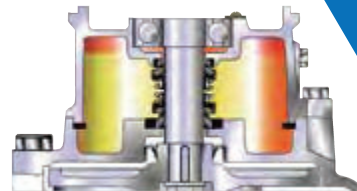
**V-Ring:** V-Ring is mounted at the top of the impeller and is brought in close contact to the bottom of the mechanical seal by the internal pressure of the pump casing. This V-Ring acts as a dust seal to prevent fine abrasive particles in the pumping fluid from reaching the mechanical seal.



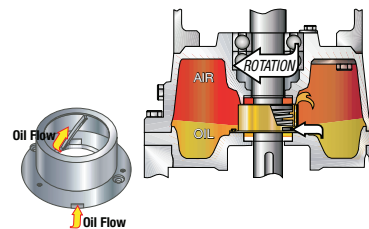
**High-Performance Motor:** Dry type, squirrel-cage, induction motor, housed in a watertight casing, conforms to either insulation class B or E, or F. In both of these classes, all standard pumps can be used in ambient temperature up to 104°F (40°C).

**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:** Tsurumi's 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®

## BUILT FOR WORK®

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