



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

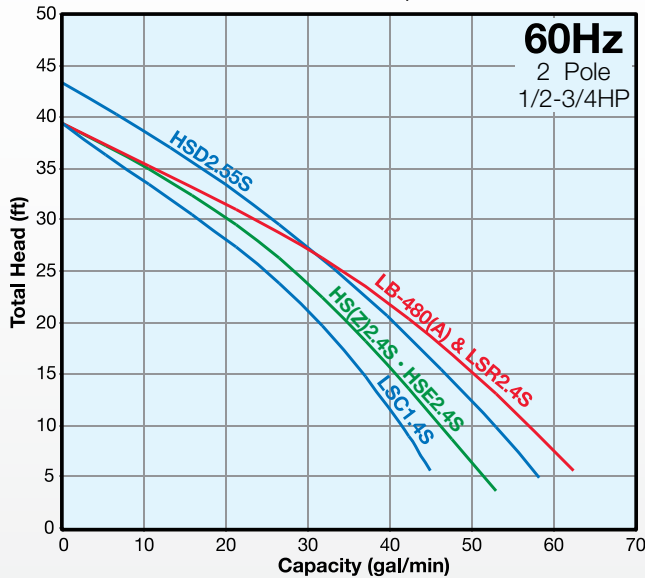


GROUP PERFORMANCE RANGE

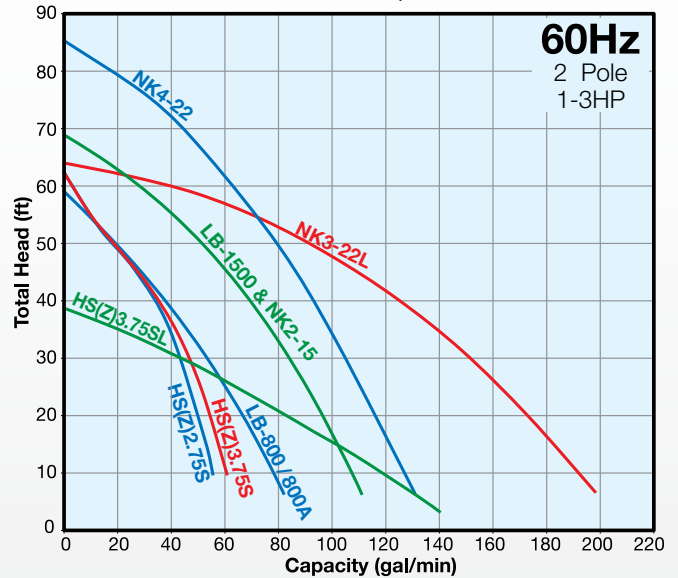
Reliable and cost-effective pumps enable Tsurumi to remain an industry leader in the rental and construction markets. Our customers know that while many pumps may look the same, only Tsurumi incorporates the most durable components into the final manufactured product.

GROUP PERFORMANCE RANGE ELECTRIC SUBMERSIBLE PUMPS

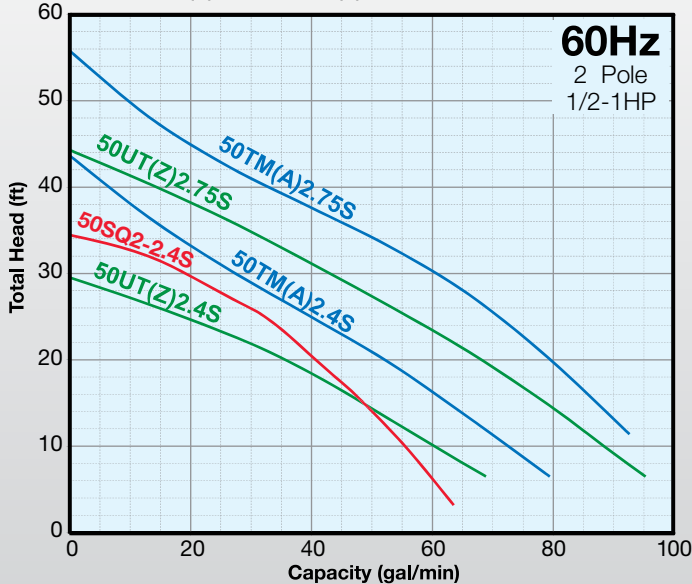
Electric Submersible Pumps: Under 1HP



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.

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

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

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

(EPT Series Trash Pump)

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

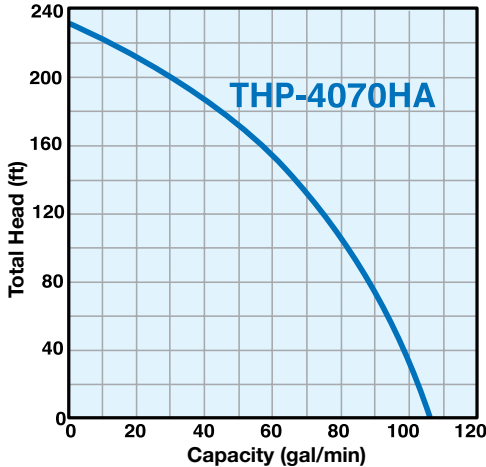
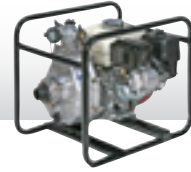
THP HIGH PRESSURE PUMP



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

THP - GAS ENGINE HIGH PRESSURE PUMP

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



THP Series Features

- Heavy-duty Honda gas engine with oil sensor and Silicon Carbide mechanical seal provides longer life
- 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

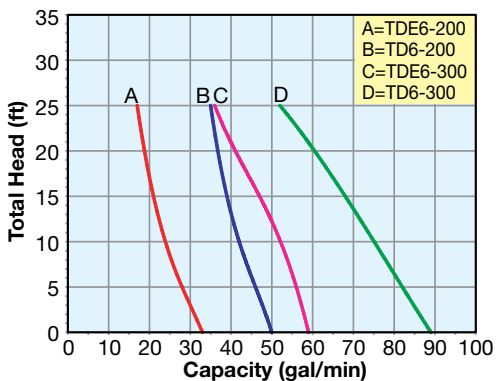
Optional Accessories - See page 24-27

- 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

TD6 DIAPHRAGM PUMP - GAS & ELECTRIC

Capable of continuous dry operation for seepage dewatering. Handles sand, mud and sludge. Both HONDA GX120 engine driven (TD6 Series) and electric motor (TDE6 Series) diaphragm pumps are available.



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

TD6 / TDE6 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 (TD6) / Electric motor model (TDE6)
- Delivers up to 88 GPM (TD6-300) / 59 GPM (TDE6-300)
- 90° Rotatable base on all models
- Maximum temperature 180°F

Optional Accessories - See page 24-27

- Suction hose kits
- Discharge hose kits

Model	Discharge / Suction Size (inches)	Engine	Max. Output (hp/rpm)	Dimensions (inches)			Shipping Weight (lbs.)
				Length	Width	Height	
TD6-200	2" NPT Coupling	Honda GX120	4 / 3600	43	20	23	160
TD6-300	3" NPT Coupling	Honda GX120	4 / 3600	43	26	23	175
TDE6-200	2" NPT Coupling	N/A	4 / 1725	44	20	23	165
TDE6-300	3" NPT Coupling	N/A	4 / 1725	44	26	23	185

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	
FLUID	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	
PUMP	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	
	ENGINE	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									
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	

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

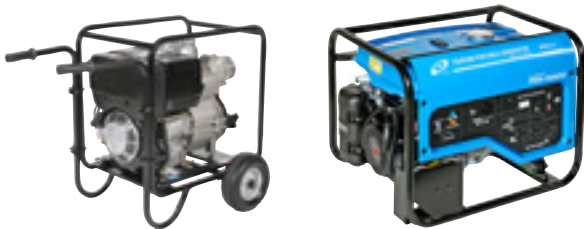
Residue Kit

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
MODEL					
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'
MODEL						
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
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)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)

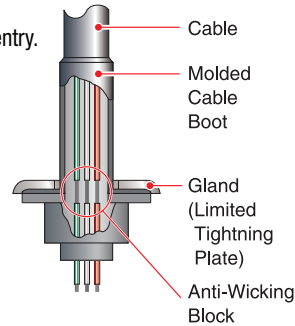
	3" Dis. Hose NPT 50'	3" Dis. Hose Quick 50'	3" Suc. Hose NPT 20'	3" Suc. Hose Quick 20'	3" Quick Disconnect 'A'	4" Hose Kit NPT	4" Hose kit Quick	4" Dis. Hose NPT 50'	4" Dis. Hose Quick 50'	4" Suc. Hose NPT 20'	4" Suc. Hose Quick 20'	4" Quick Disconnect 'A'
MODEL	XXHS3D 	XHD3QC50 	XXHS3S 	XHS3QC20 	G300-A-AL 	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)6-200												
TD(E)6-300	X	X	X	X	X							

Portable Generators

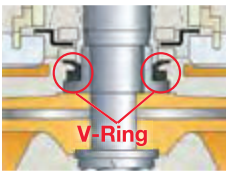
	Wheel Kit	Lifting Bail
MODEL	PGWK-200X Wheel kit ONLY 	PGLB-1X Lifting Bail ONLY 
TPG4-3000HDX	X	
TPG4-4500HDX	X	X
TPG4-6000HDX	X	X
TPG4-7000HDX	X	X
TPG4-7000HDXE	X	X

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.



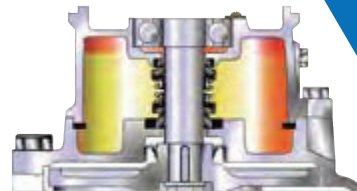
V-Ring: V-Ring is mounted at the top of the impeller and is brought in close contact to the bottom of the mechanical seal by the internal pressure of the pump casing. This V-Ring acts as a dust seal to prevent fine abrasive particles in the pumping fluid from reaching the mechanical seal.



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.

