CONTRACTOR PUMPS & GENERATORS

BUILT FOR WORK

Electric Submersible Pumps • Engine Driven Pumps • Generators • Accessories

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

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

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

COPPER WINDINGS WITH CLASS E INSULATION: Operates at lower temperatures, extending insulation and bearing life.

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

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.)
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.
**Electric Submersible Pumps**

**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 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 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.**

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Output (HP)</th>
<th>Phase</th>
<th>Discharge Bore (inch)</th>
<th>Cable Length (ft)</th>
<th>Dimension (inch)</th>
<th>Continuous Running Water Level (inch)</th>
<th>Shipping Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB-480</td>
<td>2/3</td>
<td>Single</td>
<td>2</td>
<td>32</td>
<td>7 11/16</td>
<td>2</td>
<td>28</td>
</tr>
<tr>
<td>LB-480A</td>
<td>2/3</td>
<td>Single</td>
<td>2</td>
<td>32</td>
<td>8 3/4</td>
<td>11 1/4</td>
<td>29</td>
</tr>
</tbody>
</table>

*Pump Starting Water Level
Electric Submersible Pumps

**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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Output (HP)</th>
<th>Phase</th>
<th>Discharge Bore (inch)</th>
<th>Cable Length (ft)</th>
<th>Dimension (inch)</th>
<th>Continuous Running Water Level (inch)</th>
<th>Shipping Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB-800</td>
<td>1 Single</td>
<td>2</td>
<td>9/16</td>
<td>13</td>
<td>2</td>
<td>37</td>
<td></td>
</tr>
<tr>
<td>LBT-800</td>
<td>1 Three</td>
<td>2</td>
<td>9/16</td>
<td>13</td>
<td>2</td>
<td>36</td>
<td></td>
</tr>
</tbody>
</table>

**LB-800A**

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Output (HP)</th>
<th>Phase</th>
<th>Discharge Bore (inch)</th>
<th>Cable Length (ft)</th>
<th>Dimension (inch)</th>
<th>Pump Starting Water Level (inch)</th>
<th>Shipping Weight (lbs.)</th>
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</thead>
<tbody>
<tr>
<td>LB-800A</td>
<td>1 Single</td>
<td>2</td>
<td>3/4</td>
<td>13</td>
<td>6</td>
<td>3/4</td>
<td>38</td>
</tr>
</tbody>
</table>
Electric Submersible Pumps

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 Iron Semi-Open Impeller: 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

See Page 28-31 for Pump Accessories

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Output (HP)</th>
<th>Phase</th>
<th>Discharge Bore (inch)</th>
<th>Cable Length (ft)</th>
<th>Dimension (inch)</th>
<th>Continuous Running Water Level (inch)</th>
<th>Shipping Weight (lbs.)</th>
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</thead>
<tbody>
<tr>
<td>LB-1500</td>
<td>2</td>
<td>Single</td>
<td>3 (2)&quot;</td>
<td>50</td>
<td>7 3/8</td>
<td>3 1/8</td>
<td>85</td>
</tr>
<tr>
<td>LBT-1500</td>
<td>2</td>
<td>Three</td>
<td>3 (2)&quot;</td>
<td>50</td>
<td>7 3/8</td>
<td>3 1/8</td>
<td>85</td>
</tr>
</tbody>
</table>

*2" is optional
**HS / HSZ / HSE TRASH PUMP**

**HS / HSZ / HSE Series TRASH PUMPS** 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. HS2.4S / 3.75S are manual trash pumps, and HSZ2.4S / 3.75S are automatic trash pumps with integrated float switches. HSE2.4S is an automated version of the HS2.4S activated by an automatic water level sensor.

**HS • HSZ • HSE 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

**Technical Features of Automatic (E) Water Level Sensor** (not for use in distilled or deionized water)
- 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

**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

### Characteristics of HS Series

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Output (HP)</th>
<th>Phase</th>
<th>Discharge Bore (inch)</th>
<th>Cable Length (ft)</th>
<th>Dimension (inch)</th>
<th>Continuous Running Water Level (inch)</th>
<th>Shipping Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS2.4S</td>
<td>1/2</td>
<td>Single</td>
<td>2</td>
<td>20</td>
<td>10 1/16</td>
<td>15 1/16</td>
<td>3 1/2</td>
</tr>
<tr>
<td>HS3.75S</td>
<td>1</td>
<td>Single</td>
<td>3</td>
<td>32</td>
<td>12 7/16</td>
<td>15 5/16</td>
<td>3 1/2</td>
</tr>
</tbody>
</table>

### Characteristics of HSZ Series

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Output (HP)</th>
<th>Phase</th>
<th>Discharge Bore (inch)</th>
<th>Cable Length (ft)</th>
<th>Dimension (inch)</th>
<th>Pump Starting Water Level (inch)</th>
<th>Shipping Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS2.4S</td>
<td>1/2</td>
<td>Single</td>
<td>2</td>
<td>20</td>
<td>13 1/2</td>
<td>15 1/8</td>
<td>15 1/8</td>
</tr>
<tr>
<td>HS3.75S</td>
<td>1</td>
<td>Single</td>
<td>3</td>
<td>32</td>
<td>13 1/2</td>
<td>17 1/2</td>
<td>17 1/2</td>
</tr>
</tbody>
</table>

### Characteristics of HSE Series

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Output (HP)</th>
<th>Phase</th>
<th>Discharge Bore (inch)</th>
<th>Cable Length (ft)</th>
<th>Dimension (inch)</th>
<th>Pump Starting Water Level (inch)</th>
<th>Shipping Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSE2.4S</td>
<td>1/2</td>
<td>Single</td>
<td>2</td>
<td>20</td>
<td>10 1/16</td>
<td>14 1/8</td>
<td>6 1/2</td>
</tr>
</tbody>
</table>

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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

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Output (HP)</th>
<th>Phase</th>
<th>Discharge Bore (inch)</th>
<th>Cable Length (ft)</th>
<th>Dimension (inch)</th>
<th>Continuous Running Water Level (inch)</th>
<th>Shipping Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSD2.55S</td>
<td>3/4</td>
<td>Single</td>
<td>2</td>
<td>32</td>
<td>10 3/8</td>
<td>15 3/8</td>
<td>4 1/8</td>
</tr>
</tbody>
</table>

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

NK HEAVY DUTY HIGH HEAD PUMP

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

**NK2-15 • NK4-22/3-22L Features**
- Terminal board for voltage reconnect allows for change from 110V to 220V (NK2-15 only)
- **NK2-15 • NK4-22**: 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
- Discharge hoses • Quick connect fittings

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Output (HP)</th>
<th>Phase</th>
<th>Discharge Bore (inch)</th>
<th>Cable Length (ft)</th>
<th>Dimension (inch)</th>
<th>Continuous Running Water Level (inch)</th>
<th>Shipping Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NK2-15</td>
<td>2</td>
<td>Single</td>
<td>3</td>
<td>32</td>
<td>9 7/16</td>
<td>24 1/2</td>
<td>3 1/4</td>
</tr>
<tr>
<td>NK4-22</td>
<td>3</td>
<td>Single</td>
<td>3</td>
<td>32</td>
<td>9 9/16</td>
<td>24 3/16</td>
<td>3 1/4</td>
</tr>
<tr>
<td>NK3-22L</td>
<td>3</td>
<td>Single</td>
<td>3</td>
<td>32</td>
<td>9 1/4</td>
<td>26 1/2</td>
<td>4 3/4</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Output (HP)</th>
<th>Phase</th>
<th>Discharge Bore (inch)</th>
<th>Cable Length (ft)</th>
<th>Diameter (inch)</th>
<th>Height (inch)</th>
<th>Continuous Running Water Level (inch)</th>
<th>Shipping Weight (lbs.)</th>
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</thead>
<tbody>
<tr>
<td>LSR2.4S</td>
<td>2/3</td>
<td>Single</td>
<td>2</td>
<td>32</td>
<td>8 1/4</td>
<td>11 3/8</td>
<td>0.2</td>
<td>30</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Output (HP)</th>
<th>Phase</th>
<th>Discharge Bore (inch)</th>
<th>Cable Length (ft)</th>
<th>Diameter (inch)</th>
<th>Height (inch)</th>
<th>Continuous Running Water Level (inch)</th>
<th>Shipping Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSC1.4S</td>
<td>2/3</td>
<td>Single</td>
<td>3/4</td>
<td>20</td>
<td>7 11/16</td>
<td>12 7/16</td>
<td>0.04</td>
<td>31</td>
</tr>
</tbody>
</table>
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

**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 (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

**Model** | **Max. Capacity (GPM)** | **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 Composite | 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.

**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.

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Output (HP)</th>
<th>Phase</th>
<th>Discharge Bore (inch)</th>
<th>Cable Length (ft)</th>
<th>Diameter (inch)</th>
<th>Continuous Running Water Level (inch)</th>
<th>Shipping Weight (lbs.)</th>
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</thead>
<tbody>
<tr>
<td>LH23.0W</td>
<td>4</td>
<td>Three</td>
<td>2</td>
<td>65</td>
<td>7 5/16</td>
<td>24 13/16</td>
<td>7 7/8</td>
</tr>
<tr>
<td>LH33.0</td>
<td>4</td>
<td>Three</td>
<td>3</td>
<td>65</td>
<td>7 5/16</td>
<td>25 3/8</td>
<td>5 7/8</td>
</tr>
</tbody>
</table>

www.tsurumicanada.com
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

---

**Motor Output Discharge Bore Cable Length Shipping Weight**

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Output (HP)</th>
<th>Phase</th>
<th>Discharge Bore (inch)</th>
<th>Cable Length (ft)</th>
<th>Diameter (inch)</th>
<th>Heights (ft)</th>
<th>Water Level (inch)</th>
<th>Shipping Weight (lbs.)</th>
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<tbody>
<tr>
<td>KTZ21.5</td>
<td>2</td>
<td>Three</td>
<td>2</td>
<td>50</td>
<td>9 1/4</td>
<td>25 1/2</td>
<td>4 3/4</td>
<td>78</td>
</tr>
<tr>
<td>KTZ31.5</td>
<td>2</td>
<td>Three</td>
<td>3</td>
<td>50</td>
<td>9 1/4</td>
<td>25 1/2</td>
<td>4 3/4</td>
<td>78</td>
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<tr>
<td>KTZ22.2</td>
<td>3</td>
<td>Three</td>
<td>2</td>
<td>50</td>
<td>9 1/4</td>
<td>26 5/16</td>
<td>4 3/4</td>
<td>107</td>
</tr>
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<td>KTZ32.2</td>
<td>3</td>
<td>Three</td>
<td>3</td>
<td>50</td>
<td>9 1/4</td>
<td>26 5/16</td>
<td>4 3/4</td>
<td>107</td>
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<td>KTZ23.7</td>
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<td>2</td>
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<td>11 1/8</td>
<td>26 1/4</td>
<td>5 7/8</td>
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<tr>
<td>KTZ33.7</td>
<td>5</td>
<td>Three</td>
<td>3</td>
<td>50</td>
<td>11 1/8</td>
<td>26 5/8</td>
<td>5 7/8</td>
<td>167</td>
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<td>Three</td>
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<td>50</td>
<td>11 1/8</td>
<td>27 1/16</td>
<td>5 7/8</td>
<td>168</td>
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<tr>
<td>KTZ35.5</td>
<td>7 1/2</td>
<td>Three</td>
<td>3</td>
<td>50</td>
<td>12 1/16</td>
<td>28 3/8</td>
<td>5 7/8</td>
<td>211</td>
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<td>KTZ45.5</td>
<td>7 1/2</td>
<td>Three</td>
<td>4</td>
<td>50</td>
<td>12 1/16</td>
<td>28 3/4</td>
<td>5 7/8</td>
<td>203</td>
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<td>KTZ47.5</td>
<td>10</td>
<td>Three</td>
<td>4</td>
<td>50</td>
<td>13</td>
<td>31 13/16</td>
<td>7 1/2</td>
<td>279</td>
</tr>
<tr>
<td>KTZ267.5</td>
<td>10</td>
<td>Three</td>
<td>4 (6)*</td>
<td>50</td>
<td>13 (14 9/16)*</td>
<td>31 13/16 (31 7/8)*</td>
<td>7 1/2</td>
<td>300</td>
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<tr>
<td>KTZ411</td>
<td>15</td>
<td>Three</td>
<td>4 (6)*</td>
<td>50</td>
<td>14 3/4</td>
<td>32 15/16</td>
<td>7 1/2</td>
<td>349</td>
</tr>
<tr>
<td>KTZ611</td>
<td>15</td>
<td>Three</td>
<td>4 (6)*</td>
<td>50</td>
<td>14 3/4</td>
<td>32 15/16 (33 11/16)*</td>
<td>7 1/2</td>
<td>357</td>
</tr>
</tbody>
</table>

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

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

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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.

STANDARD TSURUMI FEATURES

**Oil alert system**
- Protects the engine against destruction due to low oil level.

**Silicon Carbide**
- Silicon Carbide’s high, uniform hardness and high density makes it an extremely abrasion resistant material that outwears all other materials by a wide margin. Highly resistant to thermal shock, while exhibiting unlimited corrosion resistance.

**Rolled Steel Cage Frame**
- Provides for a safe, stable platform during operation. Protects pump and engine during operation and transportation. Allows for ease of handling. Wheel kit is available as option.

**Vibration Isolators (Both Front and Rear)**
- Ensures safe and stable operation. Supports pump casing thereby eliminating hose or pipe strain. Reduces vibration of structural parts.

**Competitors may not supply vibration isolators, nor do they support the pump casing.** Without support, the strain from the hose or pipe is transmitted to the casing and mechanical seal housing. Eventually, this will cause failure of the pump casing, failure of the mechanical seal housing or failure of the mechanical seal.

**Oil Alert System**
- Shuts the engine down if the oil level falls below the safe operating level. Protects the engine against destruction due to low oil level.

**Competitors may supply a Carbon/Ceramic seal, that is not suitable for pumping abrasives and is subject to thermal shock, should the pump run dry.**
Engine Powered Pumps

**TE SERIES CENTRIFUGAL PUMP**

**Powerful, Lightweight Pumps**

**TE2/TE3-HA Gas Engine Centrifugal Pumps**

- 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

<table>
<thead>
<tr>
<th>Model</th>
<th>Discharge / Suction Size</th>
<th>Engine</th>
<th>Max. Output (hp/rpm)</th>
<th>Dimensions (inches)</th>
<th>Shipping Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Length</td>
<td>Width</td>
</tr>
<tr>
<td>TE3-50HA</td>
<td>2&quot; NPT Coupling</td>
<td>Honda GX120</td>
<td>4.0 / 3600</td>
<td>18 1/2</td>
<td>14 5/8</td>
</tr>
<tr>
<td>TE3-80HA</td>
<td>3&quot; NPT Coupling</td>
<td>Honda GX160</td>
<td>5.5 / 3600</td>
<td>20 1/2</td>
<td>16 1/2</td>
</tr>
<tr>
<td>TE2-100HA</td>
<td>4&quot; NPT Coupling</td>
<td>Honda GX240</td>
<td>8.0 / 3600</td>
<td>25</td>
<td>18</td>
</tr>
</tbody>
</table>

**TE2-25HA 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.

**TE2-25HA Centrifugal Pump**

- 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

<table>
<thead>
<tr>
<th>Model</th>
<th>Suction Size</th>
<th>Engine</th>
<th>Max. Output (hp/rpm)</th>
<th>Dimensions (inches)</th>
<th>Shipping Weight (lbs.)</th>
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<tr>
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<td></td>
<td>Length</td>
<td>Width</td>
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<tr>
<td>TE2-25HA</td>
<td>1&quot; NPSH Coupling</td>
<td>Honda GX25</td>
<td>1.1 / 2220</td>
<td>9</td>
<td>14</td>
</tr>
</tbody>
</table>
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. The clean our door can be disassembled easily without taking off the suction hose (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.

Galvanized steel hose couplings for longer thread life.

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.

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

TE2-25HA
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

Galvanized steel hose couplings for longer thread life.
Engine Powered Pumps

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Discharge / Suction Size</th>
<th>Engine</th>
<th>Max. Output (hp/rpm)</th>
<th>Dimensions (inches)</th>
<th>Shipping Weight (lbs.)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Length</td>
<td>Width</td>
</tr>
<tr>
<td>EPT3-50HA</td>
<td>2&quot; NPT Coupling</td>
<td>Honda GX160</td>
<td>5.5 / 3600</td>
<td>23 1/4</td>
<td>18 1/4</td>
</tr>
<tr>
<td>EPT3-80HA</td>
<td>3&quot; NPT Coupling</td>
<td>Honda GX240</td>
<td>8.0 / 3600</td>
<td>27 1/2</td>
<td>20 1/8</td>
</tr>
<tr>
<td>EPT3-100HA</td>
<td>4&quot; NPT Coupling</td>
<td>Honda GX340</td>
<td>11.0 / 3600</td>
<td>30 1/8</td>
<td>20 1/8</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Model</th>
<th>Discharge Size</th>
<th>Suction Size</th>
<th>Engine</th>
<th>Max. Output (hp/rpm)</th>
<th>Dimensions (inches)</th>
<th>Shipping Weight (lbs.)</th>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Length</td>
<td>Width</td>
</tr>
<tr>
<td>THP-4070HA</td>
<td>1&quot; x 2, 1.5&quot; x 1</td>
<td>1.5&quot; NPSH Coupling</td>
<td>Honda GX160</td>
<td>5.5 / 3600</td>
<td>21</td>
<td>16</td>
</tr>
</tbody>
</table>
Engine Powered Pumps

See Page 28-31 for Pump Accessories

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.

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

TD5 / TDE5 Diaphragm Pump Features

- 90° Rotatable base on both models

<table>
<thead>
<tr>
<th>Model</th>
<th>Discharge / Suction Size (inches)</th>
<th>Engine (115V)</th>
<th>Max. Output (hp/rpm)</th>
<th>Dimensions (inches)</th>
<th>Shipping Weight (lbs.)</th>
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</thead>
<tbody>
<tr>
<td>TD5-200</td>
<td>2” NPT Coupling</td>
<td>Honda GX120</td>
<td>4 / 3600</td>
<td>43 x 20 x 23</td>
<td>160</td>
</tr>
<tr>
<td>TD5-300</td>
<td>3” NPT Coupling</td>
<td>Honda GX120</td>
<td>4 / 3600</td>
<td>43 x 26 x 23</td>
<td>175</td>
</tr>
<tr>
<td>TDE5-200</td>
<td>2” NPT Coupling</td>
<td>N/A</td>
<td>4 / 1725</td>
<td>44 x 20 x 23</td>
<td>165</td>
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<tr>
<td>TDE5-300</td>
<td>3” NPT Coupling</td>
<td>N/A</td>
<td>4 / 1725</td>
<td>44 x 26 x 23</td>
<td>185</td>
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</tbody>
</table>

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

EPT5 SERIES GAS / DIESEL TRASH PUMP

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

EPT5-150HA (Gas Engine) / EPT5-150YD (Diesel Engine)

Trash Pump Features

- Cast Iron Wear Plate, Volute and Manifold
- Stainless Steel Impeller
- Silicon Carbide Mechanical Seal and Buna O-Rings and Flapper / Check Valve
- 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 pumps without removing hoses or removing pump components from trailer
- 12 VDC Electric Start; Digital Tachometer / hourmeter included

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

- 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

<table>
<thead>
<tr>
<th>Model</th>
<th>Discharge Suction Size (inches)</th>
<th>Engine Type</th>
<th>Engine Type / Max. Output (hp/rpm)</th>
<th>Dimensions (inches)</th>
<th>Shipping Weight (lbs.)</th>
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<tbody>
<tr>
<td>EPT5-150HA</td>
<td>6&quot; NPT Coupling</td>
<td>Unleaded Gasoline</td>
<td>Honda GX670 / 24.0 / 3600</td>
<td>Length 99 Width 48 Height 60</td>
<td>1125</td>
</tr>
<tr>
<td>EPT5-150YD</td>
<td>6&quot; NPT Coupling</td>
<td>Diesel</td>
<td>Yanmar 3TNM72 / 20.8 / 3600</td>
<td>Length 99 Width 48 Height 60</td>
<td>1250</td>
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<table>
<thead>
<tr>
<th>Model</th>
<th>Discharge Suction Size (inches)</th>
<th>Engine Type</th>
<th>Max. Output (hp/rpm)</th>
<th>Dimensions (inches)</th>
<th>Shipping Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPT2-100</td>
<td>4&quot; NPT Coupling</td>
<td>Consult Factory</td>
<td>Consult Factory / 2000</td>
<td>Length 116 1/2 Width 72 1/2 Height 77</td>
<td>Consult Factory</td>
</tr>
<tr>
<td>EPT2-150</td>
<td>6&quot; NPT Coupling</td>
<td>Consult Factory</td>
<td>Consult Factory / 2000</td>
<td>Length 126 1/2 Width 72 1/2 Height 77</td>
<td>Consult Factory</td>
</tr>
</tbody>
</table>
Engine Powered Pumps

EPT4-150 HEAVY DUTY TRASH PUMP

Heavy Duty Prime Assisted & Sound Attenuated Priming Assisted Trash Pump

EPT4-150 / EPT4-150Q Features

- Vacuum assisted pump that primes and re-primes 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 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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Discharge / Suction Size</th>
<th>Engine</th>
<th>Max. Output (hp/rpm)</th>
<th>Dimensions (inches)</th>
<th>Shipping Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPT4-150</td>
<td>6&quot; NPT Coupling</td>
<td>Consult Factory</td>
<td>Consult Factory / 2000</td>
<td>Length 136 1/2, Width 67, Height 67 7/8</td>
<td>Consult Factory</td>
</tr>
<tr>
<td>EPT4-150Q</td>
<td>6&quot; NPT Coupling</td>
<td>Consult Factory</td>
<td>Consult Factory / 2000</td>
<td>Length 161 1/2, Width 76 1/8, Height 79 13/16</td>
<td>Consult Factory</td>
</tr>
</tbody>
</table>

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20
# Electric Submersible Pumps Specifications

## LB Series • HS Series

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Max. Capacity (GPM)</th>
<th>Max. Head (ft.)</th>
<th>Solid Diameter (in.)</th>
<th>Impeller</th>
<th>Impeller Material</th>
<th>Casing Material</th>
<th>Wear Plate Material</th>
<th>Shaft Seal - Type / Material</th>
<th>Seal Protection</th>
<th>Discharge Connection</th>
<th>Motor Output (HP)</th>
<th>Phase</th>
<th>Voltage (V)</th>
<th>Amperage - Rated Current</th>
<th>Amperage - Starting Current</th>
<th>Type</th>
<th>Bearings</th>
<th>Insulation Class</th>
<th>Motor Protection (Built-in)</th>
<th>Plug Configuration (Normal)</th>
<th>Plug - # of Conductors x AWG</th>
<th>Standard Cable Length (ft)</th>
<th>Max. Cable Length (ft)</th>
<th>Recommended Generator Capacity (kW)</th>
<th>Optional Float Switch</th>
<th>Diameter (inches)</th>
<th>Height (inches)</th>
<th>Continuous Running Water Level (in.)</th>
<th>Shipping Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB-480</td>
<td>2&quot; Dewatering Pump</td>
<td>62.4</td>
<td>39.5</td>
<td>0.236</td>
<td>Semi-Vortex</td>
<td>Urethane Rubber</td>
<td>Ethylene Propylene Rubber</td>
<td>Urethane Rubber</td>
<td>V-Ring and Oil Lifter</td>
<td>Double Inside Mechanical Seal with Silicon Carbide faces on lower seals and Carbon Ceramic Faces on upper seals</td>
<td>2&quot; MNPT Coupling</td>
<td>2/3</td>
<td>115 or 220</td>
<td>5.9 (115V)</td>
<td>12.4 (115V)</td>
<td>Continuous Duty, Air Filled, 3600 RPM, 60Hz</td>
<td>Double shielded, Permanently lubricated, High-temp C3 with B-10 life of 60,000 hours</td>
<td>E</td>
<td>Miniature Protector</td>
<td>5-15P (115V)</td>
<td>3C x 16AWG</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LB-480A</td>
<td>2&quot; Automatic Dewatering Pump</td>
<td>82</td>
<td>59</td>
<td>0.384</td>
<td>Semi-Vortex</td>
<td>Urethane Rubber</td>
<td>Ethylene Propylene Rubber</td>
<td>Natural Rubber</td>
<td>V-Ring and Oil Lifter</td>
<td>Double Inside Mechanical Seal with Silicon Carbide faces on lower seals and Carbon Ceramic Faces on upper seals</td>
<td>3&quot; MNPT Coupling</td>
<td>1</td>
<td>115 or 220</td>
<td>5.2 (115V)</td>
<td>20.6 (115V)</td>
<td>Continuous Duty, Air Filled, 3600 RPM, 60Hz</td>
<td>Double shielded, Permanently lubricated, High-temp C3 with B-10 life of 60,000 hours</td>
<td>E</td>
<td>Miniature Protector</td>
<td>5-15P (115V)</td>
<td>3C x 16AWG</td>
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<td></td>
</tr>
<tr>
<td>LB-800</td>
<td>2&quot; Slimline Pump</td>
<td>111</td>
<td>69</td>
<td>0.236</td>
<td>Semi-Vortex</td>
<td>Urethane Rubber</td>
<td>Ethylene Propylene Rubber</td>
<td>Urethane Rubber</td>
<td>V-Ring and Oil Lifter</td>
<td>Double Inside Mechanical Seal with Silicon Carbide faces on lower seals and Carbon Ceramic Faces on upper seals</td>
<td>2&quot; MNPT Coupling</td>
<td>2</td>
<td>115 or 220</td>
<td>5.2 (115V)</td>
<td>12.6 (115V)</td>
<td>Continuous Duty, Air Filled, 3600 RPM, 60Hz</td>
<td>Double shielded, Permanently lubricated, High-temp C3 with B-10 life of 60,000 hours</td>
<td>E</td>
<td>Miniature Protector</td>
<td>5-15P (115V)</td>
<td>3C x 16AWG</td>
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<td></td>
</tr>
<tr>
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<td>2&quot; Automatic Slimline Pump</td>
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<td>39</td>
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<td>56 (115V)</td>
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**Notes:**
- FLUIDMOTOR PUMPS DIMENTION w w w . t s u r u m i c a n a d a . c o m
- All Tsurumi pumps are ETL listed and cETL listed as required.
# Electric Submersible Pumps Specifications

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

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<th>LSR2.4S</th>
<th>LSC1.4S</th>
<th>NK2-15</th>
<th>NK3-22</th>
<th>NK3-22L</th>
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<td>3&quot; MNPT Coupling</td>
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[www.tsurumicanada.com](http://www.tsurumicanada.com)
## KTZ Series

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<td>25.0</td>
<td>40.6</td>
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<td><strong>Seal Protection</strong></td>
<td>Lip Seal and Oil Lifter (Oil Lifter is patented by Tsurumi Pump)</td>
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<td>2” MNPT Coupling</td>
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<td>4” MNPT Coupling</td>
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<td>3</td>
<td>5</td>
<td>7.5</td>
<td>10</td>
<td>15</td>
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<td><strong>Voltage (V)</strong></td>
<td>208-230 / 460 / 575</td>
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<td><strong>Amperage - Rated Current</strong></td>
<td>6.2-6.0 / 3.1 / 2.3</td>
<td>9.4-9.0 / 4.5 / 3.5</td>
<td>15.0-13.6 / 6.8 / 5.3</td>
<td>21.0-19.7 / 10.0 / 7.9</td>
<td>29.8-27.3 / 13.3 / 10.4</td>
<td>39.8-37.4 / 18.6 / 14.9</td>
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<td>67-74 / 37 / 27</td>
<td>107-117 / 59 / 43</td>
<td>153-167 / 84 / 63</td>
<td>208-228 / 114 / 82</td>
<td>272-299 / 150 / 119</td>
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<td><strong>Bearings</strong></td>
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<td><strong>Motor Protection (Built-in)</strong></td>
<td>Circle Thermal Protector</td>
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<tr>
<td><strong>Cable - # of Conductors x AWG</strong></td>
<td>4C x 16AWG</td>
<td>4C x 14AWG</td>
<td>4C x 12AWG</td>
<td>4C x 10AWG</td>
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<tr>
<td><strong>Max. Cable Length (ft.)</strong></td>
<td>220 (230V) 980 (460V) 1660 (575V)</td>
<td>140 (230V) 680 (460V) 1050 (575V)</td>
<td>140 (230V) 720 (460V) 1150 (575V)</td>
<td>180 (230V) 850 (460V) 1350 (575V)</td>
<td>200 (230V) 1010 (460V) 1610 (575V)</td>
<td>220 (230V) 1050 (460V) 690 (575V)</td>
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<td><strong>Recommended Generator Capacity (watts)</strong></td>
<td>8800</td>
<td>12400</td>
<td>19100</td>
<td>27600</td>
<td>38300</td>
<td>53700</td>
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<tr>
<td><strong>Diameter (inches)</strong></td>
<td>9 1/4</td>
<td>9 1/4</td>
<td>11 1/8</td>
<td>12 1/16</td>
<td>13</td>
<td>13</td>
<td>14 3/4</td>
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<td><strong>Height (inches)</strong></td>
<td>25 1/2</td>
<td>26 5/16</td>
<td>26 1/4</td>
<td>26 5/8</td>
<td>27 1/16</td>
<td>28 3/8</td>
<td>28 3/4</td>
<td>31 13/16</td>
<td>32 5/16</td>
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<td><strong>Continuous Running Water Level (in.)</strong></td>
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<td>4 3/4</td>
<td>5 7/8</td>
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<td>7 1/2</td>
<td>7 1/2</td>
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<td>75</td>
<td>79</td>
<td>77</td>
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<td>167</td>
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<td>TE2-25H</td>
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<td>THP-4070HA</td>
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<td><strong>FLUID PUMP</strong></td>
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<td>Max. Capacity (GPM)</td>
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<td>8220</td>
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<td>21420</td>
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<td>Max. Head (ft.)</td>
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<td>96</td>
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<td>High Chrome Iron Casting</td>
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<td>Water Plate Material</td>
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<td>Pump Casing Material</td>
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<td>Shaft Seal - Type / Material</td>
<td>Silicon Carbide Mechanical Seal</td>
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<td>Seal Lubricant - Type</td>
<td>Water</td>
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<tr>
<td>Discharge Connection</td>
<td>1&quot; NPSH Coupling</td>
<td>2&quot; NPT Coupling</td>
<td>3&quot; NPT Coupling</td>
<td>4&quot; NPT Coupling</td>
<td>2&quot; NPT Coupling</td>
<td>3&quot; NPT Coupling</td>
<td>4&quot; NPT Coupling</td>
<td>1&quot;x2, 1.5&quot; x 1 NPSH Coupling</td>
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<td>Suction Connection</td>
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<td>2&quot; NPT Coupling</td>
<td>3&quot; NPT Coupling</td>
<td>4&quot; NPT Coupling</td>
<td>2&quot; NPT Coupling</td>
<td>3&quot; NPT Coupling</td>
<td>4&quot; NPT Coupling</td>
<td>1.5&quot; NPSH Coupling</td>
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<tr>
<td><strong>ENGINE</strong></td>
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<tr>
<td>Type</td>
<td>Air-Cooled, 4-Cycle Cylinder with Oil Sensor</td>
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<td>Output (HP)</td>
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<td>5.5</td>
<td>8</td>
<td>11</td>
<td>5.5</td>
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<td>RPM</td>
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<td>Fuel</td>
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<td>Fuel Tank Capacity US Gallon</td>
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<td>0.66</td>
<td>0.95</td>
<td>1.59</td>
<td>0.95</td>
<td>1.6</td>
<td>1.7</td>
<td>0.95</td>
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<td>Continuous Run Time Per Tank (hr.)</td>
<td>1.21</td>
<td>3.0</td>
<td>3.3</td>
<td>3.2</td>
<td>3.3</td>
<td>3.2</td>
<td>2.6</td>
<td>3.3</td>
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<td>Starting Method</td>
<td>Recoil Starter</td>
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<tr>
<td>Length (inches)</td>
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<td>18 1/2</td>
<td>20 1/2</td>
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<td>23 1/4</td>
<td>27 1/2</td>
<td>30 1/8</td>
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<td>Width (inches)</td>
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<td>16 1/2</td>
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<td>18 1/4</td>
<td>20 1/8</td>
<td>20 1/8</td>
<td>16</td>
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<td>Height (inches)</td>
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<td>17 1/8</td>
<td>18 1/8</td>
<td>23 1/2</td>
<td>17 3/8</td>
<td>25 5/8</td>
<td>26</td>
<td>18</td>
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<td>Shipping Weight (lbs.)</td>
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<td>55</td>
<td>64</td>
<td>109</td>
<td>82</td>
<td>136</td>
<td>160</td>
<td>62</td>
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</table>
# Engine Powered Pumps Specifications

**TD5-200/300 • TDE5-200/300 • EPT5-150HA/150YD**

**EPT2-100/150 • EPT4-150DPJD/DPQJD**

<table>
<thead>
<tr>
<th>Type</th>
<th>2&quot; Diaphragm Pump</th>
<th>3&quot; Diaphragm Pump</th>
<th>2&quot; Electric Diaphragm Pump</th>
<th>3&quot; Electric Diaphragm Pump</th>
<th>6&quot; Trash Pump</th>
<th>6&quot; Trash Pump</th>
<th>6&quot; Heavy Duty Trash Pump</th>
<th>6&quot; Heavy Duty Trash Pump</th>
<th>6&quot; Heavy Duty Trash Pump</th>
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<tbody>
<tr>
<td>Max. Capacity (GPM)</td>
<td>50</td>
<td>88</td>
<td>33</td>
<td>59</td>
<td>100</td>
<td>1000</td>
<td>680</td>
<td>1410</td>
<td>2400</td>
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<tr>
<td>Max. Capacity (GPH)</td>
<td>3000</td>
<td>5280</td>
<td>1980</td>
<td>3540</td>
<td>60000</td>
<td>60000</td>
<td>40800</td>
<td>84600</td>
<td>144000</td>
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<td>25</td>
<td>98</td>
<td>98</td>
<td>104</td>
<td>86</td>
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<tr>
<td>Max. Solid Diameter (in.)</td>
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<td>1 5/8</td>
<td>1 1/2</td>
<td>1 5/8</td>
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<td>2</td>
<td>3</td>
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</tr>
</tbody>
</table>

**Pump**

- **Impeller Type**: Diaphragm, Semi-Open, Fully Enclosed
- **Impeller (Diaphragm)**
- **Material**
- **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, Ductile Iron, Cast Iron
- **Seal Lubricant - Type**: Water, Grease, Oil
- **Discharge Connection**: 2" NPT Coupling, 3" NPT Coupling, 6" NPT Coupling, 4" NPT Coupling, 6" ANSI Flange, 6" ANSI Flange
- **Suction Connection**: 2" NPT Coupling, 3" NPT Coupling, 2" NPT Coupling, 3" NPT Coupling, 6" NPT Coupling, 4" NPT Coupling, 6" NPT Coupling, 6" ANSI Flange, 6" ANSI Flange

**Engine**

- **Brand**: Honda, N/A, Honda, Yanmar
- **Model**: GX-120, N/A, GX-670, 3TNM72
- **Type**: Air-Cooled, 4-Cycle Cylinder with Oil Sensor
- **Output (HP)**: 4, 22.0, 22.8
- **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
- **Continuous Run Time Per Tank (hr.)**: 2, N/A, 12
- **Starting Method**: Recoil Starter, Electric Motor, 12V Electric Start, Battery not included
- **Electric Motor**: Electric, 12V, Battery not included
- **Length (inches)**: 43, 43, 44, 44, 99, 99, 116 1/2, 126 1/2, 136 1/2, 161 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

[www.tsurumicanada.com](http://www.tsurumicanada.com)
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 arrester 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 falls 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**

<table>
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<tr>
<th>Max. / Rated Output (watts)</th>
<th>TPG4-3000HDX</th>
<th>TPG4-4500HDX</th>
</tr>
</thead>
<tbody>
<tr>
<td>2600 / 2200</td>
<td>4500 / 3600</td>
<td></td>
</tr>
<tr>
<td>Max. / Rated Current (120V / 240V)</td>
<td>23.3 / 18.3</td>
<td>37.5 / 30, 18.7 / 15</td>
</tr>
<tr>
<td>Voltage (V) (60Hz)</td>
<td>120</td>
<td>120 / 240</td>
</tr>
<tr>
<td>AC Outlet Replacement</td>
<td>1-NEMA 5-20R Duplex (20A, 12A, W/GFCI)</td>
<td>2-NEMA 5-20R Duplex (20A, 12A, W/GFCI)</td>
</tr>
<tr>
<td></td>
<td>Engine Model</td>
<td>Engine Model</td>
</tr>
<tr>
<td></td>
<td>GX160T2</td>
<td>GX240T2</td>
</tr>
<tr>
<td>Maximum HP</td>
<td>5.5 (3600RPM)</td>
<td>8.0 (3600RPM)</td>
</tr>
<tr>
<td>Displacement</td>
<td>163 (10inch³)</td>
<td>242 (15inch³)</td>
</tr>
<tr>
<td>Fuel Tank Capacity (gallon)</td>
<td>4.2</td>
<td>6.6</td>
</tr>
<tr>
<td>Running Time (Rated load)</td>
<td>12.1</td>
<td>12.5</td>
</tr>
<tr>
<td>Starting System</td>
<td>Recoil</td>
<td>Recoil</td>
</tr>
<tr>
<td>Noise Level (Rated Load)</td>
<td>64dB</td>
<td>68dB</td>
</tr>
<tr>
<td>Shipping Size (LxWxH) (inches)</td>
<td>24.4 x 19.5 x 20.5</td>
<td>27.6 x 23.4 x 22.6</td>
</tr>
<tr>
<td>Shipping Weight (lbs.)</td>
<td>110</td>
<td>161</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Max. / Rated Output (watts)</th>
<th>TPG4-6000HDX</th>
<th>TPG4-7000HDX</th>
<th>TPG4-7000HDXE</th>
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</thead>
<tbody>
<tr>
<td>5500 / 4800</td>
<td>6800 / 6000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. / Rated Current (120V / 240V)</td>
<td>45.8 / 40, 22.9 / 20</td>
<td>56.7 / 50, 28.3 / 25</td>
<td></td>
</tr>
<tr>
<td>Voltage (V) (60Hz)</td>
<td>120 / 240</td>
<td>120 / 240</td>
<td></td>
</tr>
<tr>
<td>AC Outlet Replacement</td>
<td>2-NEMA 5-20A Duplex (20A, 12A, W/GFCI)</td>
<td>1-NEMA L5-30R (30A, 120V, Twist Lock)</td>
<td>1-NEMA L14-30R (30A, 120/240V, Twist Lock)</td>
</tr>
<tr>
<td></td>
<td>Engine Model</td>
<td>Engine Model</td>
<td>Engine Model</td>
</tr>
<tr>
<td></td>
<td>GX340T2</td>
<td>GX390T2</td>
<td></td>
</tr>
<tr>
<td>Maximum HP</td>
<td>11.0 (3600RPM)</td>
<td>13.0 (3600RPM)</td>
<td></td>
</tr>
<tr>
<td>Displacement</td>
<td>337 (21inch³)</td>
<td>389 (24inch³)</td>
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</tr>
<tr>
<td>Fuel Tank Capacity (gallon)</td>
<td>6.6</td>
<td>6.6</td>
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</tr>
<tr>
<td>Running Time (Rated load)</td>
<td>8.5</td>
<td>7.6</td>
<td></td>
</tr>
<tr>
<td>Starting System</td>
<td>Recoil</td>
<td>Recoil (HDX), Electric (HDXE)</td>
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</tr>
<tr>
<td>Noise Level (Rated Load)</td>
<td>72dB</td>
<td>78dB</td>
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</tr>
<tr>
<td>Shipping Size (LxWxH) (inches)</td>
<td>27.6 x 23.4 x 22.6</td>
<td>27.6 x 23.4 x 22.6</td>
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</tr>
<tr>
<td>Shipping Weight (lbs.)</td>
<td>183</td>
<td>192(HDX), 199(HDXE)</td>
<td></td>
</tr>
</tbody>
</table>
## 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).

<table>
<thead>
<tr>
<th>Tether Length (in.)</th>
<th>Pumping Range (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5</td>
<td>7</td>
</tr>
<tr>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td>10</td>
<td>16</td>
</tr>
<tr>
<td>14</td>
<td>22</td>
</tr>
<tr>
<td>18</td>
<td>28</td>
</tr>
<tr>
<td>22</td>
<td>33</td>
</tr>
<tr>
<td>24</td>
<td>36</td>
</tr>
</tbody>
</table>

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.

### Pump Float Switch Model

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

### Electric Submersible Pumps

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Float Switch</th>
<th>Sand Kit</th>
<th>Residue Kit</th>
<th>2&quot; Straight Discharge</th>
<th>3&quot; Straight Discharge</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB-480</td>
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<tr>
<td>LB-480A</td>
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<tr>
<td>LB-800</td>
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</tr>
<tr>
<td>LB-800A</td>
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<td>LB-1500</td>
<td>TS-301</td>
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<td>HS2.4S</td>
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<td>032-351-11</td>
<td>032-214-11</td>
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<td>HSZ2.4S</td>
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<td>HS-RK</td>
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<td>032-214-11</td>
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<tr>
<td>HS3.75S</td>
<td>TS-302</td>
<td>HS-RK</td>
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<td>032-158-16</td>
<td>032-160-11</td>
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<td>032-158-16</td>
<td>032-160-11</td>
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<td>HSD2.55S</td>
<td>TS-301</td>
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<td>032-351-11</td>
<td>032-214-11</td>
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<td>TS-303</td>
<td>K22-SK</td>
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<td>NK3-22L</td>
<td>TS-303</td>
<td>K22-SK</td>
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<td>LSR2.4S</td>
<td>SLS-LSR32</td>
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<tr>
<td>LSC1.4S</td>
<td>SLS-LSC20</td>
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<td>032-426-18</td>
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### Electric Submersible Pumps (continued)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>2&quot; Discharge Hose NPT</th>
<th>2&quot; Quick Disconnect 'A'</th>
<th>3&quot; Discharge Hose NPT</th>
<th>3&quot; Quick Disconnect 'A'</th>
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</thead>
<tbody>
<tr>
<td>LB-480</td>
<td>X</td>
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<td>LB-800</td>
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<tr>
<td>HSZ2.4S</td>
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<td></td>
</tr>
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<td>HS3.75S</td>
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<td>HSZ3.75S</td>
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<td>HSD2.55S</td>
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</tr>
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<td>LSC1.4S</td>
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</table>

* Standard discharge size is 2". 3" is optional.
**Pump Accessories Guide - Portable Generators**

**Portable Generators**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Wheel Kit</th>
<th>Lifting Bail</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPG4-3000HDX</td>
<td>X</td>
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<tr>
<td>TPG4-4500HDX</td>
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<td>TPG4-6000HDX</td>
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<td>TPG4-7000HDX</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>TPG4-7000HDXE</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

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