CONTRACTOR / MINING PUMPS
BUILT FOR WORK
Dewatering Pumps • Agitator Pumps • Accessories

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

1. **Motor Protector:**
   Protects against overheating and run-dry.

2. **Anti-Wicking Block:**
   Prevents water incursion due to capillary wicking should the power cable be damaged or the end submerged.

3. **Double Inside Mechanical Seal with Silicon Carbide Faces:**
   Provides the longest operational life of any available seal.

4. **Oil Lifter:**
   Lubrication of the seal faces down to 1/3 of normal oil level and greatly extends the seal life - uses no additional power.

5. **Ball Bearings:**
   Permanently lubricated, double-shielded, single row deep groove, high temperature C3 Ball bearings, Rated B-10 = 60,000 Hours.

6. **Lip Seal Protector:**
   Protects mechanical seal from abrasive particles.

7. **High Chrome Iron (Optional) Impeller:**
   Resists wear by abrasive particles.

8. **Field Adjustable / Replaceable, Ductile Iron Suction Cover:**
   Resists wear by abrasive particles, and is easily adjusted to maintain pump performance.

The cutaway view above is a KTZ series pump. This pump illustrates the common design features used in Tsurumi dewatering pumps. Other series may differ in shape and structure.
Tsurumi Three-Phase Dewatering Pumps

**KTZ(E) Series**
- High head and high volume dewatering.
- Semi-open High Chrome Impeller.
- Easy conversion between high head and high volume models in each motor size.
- KTZE pumps with built-in electrode for automatic operation without a control panel.
- 2, 3, 4 and 6 inch discharge sizes
- 2, 3, 5, 7.5, 10, and 15 horsepower

**LHW Series**
- Extra high head pumping.
- Dual staged, Closed High Chrome Impeller.
- Pressure relief ports protect mechanical seal from excessive pressure and water hammer.
- 2, 3, and 4 inch discharge sizes
- 4, 7.5, 15, 30, 40 and 150 horsepower

**LH Series**
- Medium to high volume at high heads.
- Closed High Chrome Impeller.
- Easy conversion between high head and high volume models in each motor size.
- 4, 6, and 8 inch discharge sizes
- 4, 20, 30, 35, 40, 50, 60, 75, 100, 120, and 150 horsepower

**KTV(E) Series**
- Portable job-site dewatering.
- Semi-vortex Urethane Rubber or Ductile Iron Impellers.
- KTVE pumps with built-in electrode for automatic operation without a control panel.
- 2 and 3 inch discharge sizes
- 1, 2, 3, 5, and 7.5 horsepower

**KRS Series**
- High volume dewatering.
- Semi-open Ductile Iron and High Chrome Impellers.
- 1800RPM and 1200 RPM motors reduce impeller wear.
- 3, 4, 6, 8, 10, 12, and 14 inch discharge sizes
- 3, 5, 7.5, 10, 15, 20, 25, 30, 40, and 50 horsepower

**GSZ Series**
- High volume dewatering and slurry pumping.
- Closed High Chrome and Stainless Steel Impeller.
- 1800 RPM and 1200 RPM motors reduce impeller wear.
- 6, 8, and 10 inch discharge sizes
- 30, 50, 60, 75, 100 and 200 horsepower

**Agitator Pumps**
- Heavy duty slurry pumping.
- Abrasive resistant.
- Single phase and three phase solutions.
- 2 - 10 inch discharge sizes
- 1/2 - 100 horsepower.

**SFQ Series**
- Corrosive liquid dewatering.
- Semi-open Stainless Steel Impeller.
- All parts in contact with the liquid are 316 Stainless Steel.
- All elastomers are Viton.
- 2, 3 and 4 inch discharge sizes
- 1, 2, 5, 7.5, 10 and 15 horsepower

**SQ Series**
- Portable corrosive liquid dewatering.
- Semi-open Stainless Steel Impeller.
- All parts in contact with the liquid are 304 Stainless Steel.
- 2 inch discharge sizes
- 1/2 and 1 horsepower

**LB/LBT Series**
- 8" Minimum casing dewatering.
- Semi-Vortex Impeller.
- Allows for jobsite dewatering utilizing smaller generators and smaller casings.
- 2 and 3 inch discharge sizes
- 1/2, 1 and 2 horsepower
KTZE: Allows a 3-phase pump to operate automatically in a smaller casing or sump where traditional float switches don't fit.

**Material**
- **Impeller:** High Chrome Iron
- **Casing:** Cast Iron
- **Mechanical Seal:** Silicon Carbide
- **Motor Frame:** Cast Iron
- **Shaft:** 420 Stainless Steel
- **Fasteners:** 304 Stainless Steel
- **Cable:** PVC, Chloroprene Sheath

**Performance Curves**

60 Hz
2 - 5 HP
2P: 3600rpm

60 Hz
7.5 - 15 HP
2P: 3600rpm
KTZ(E) pumps convert quickly and easily between high head & high volume!

Features

• High Pressure Capability
• Easily converted between high pressure and high volume configurations
• High Pressure Rated Mechanical Seals
• Rugged Iron Construction
• Anti-Wicking Cable Entrance
• Dual Silicon Carbide Mechanical Seals
• Tsurumi’s Patented Oil Lifter
• Internal Thermal Motor Protection
• Automatic Operation on KTZE Series

The KTZ series is designed with high-chrome impellers to withstand the most demanding conditions, including highly abrasive liquids found in construction, aggregate and mining applications. Versatility is increased as each pump model has the capability of being easily converted between high head and high volume performance with a simple change of impeller and wear plate. Dual high-pressure silicon carbide mechanical seals are isolated in the oil chamber to protect the seal faces from abrasion and corrosion. Tsurumi incorporates Pressure Relief Ports on the 10HP and 15HP models, exposing the mechanical seal only to the pressure developed by the sump submergence level. This has virtually eliminated the premature wear and failure of mechanical seals in higher pressure applications.

The KTZE series offers the same features as the KTZ series with the added benefit of an integrally mounted electrode probe for turning the pump on and off automatically. Unnecessary dry-run is prevented to save energy and reduce wear without the need for auto control panels and cumbersome float assemblies. The pump installs and handles like a standard pump yet operates automatically by simply connecting to a manual control panel.

<table>
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<tr>
<th>MODEL</th>
<th>Discharge Size (inch)</th>
<th>MOTOR SPECIFICATIONS</th>
<th>DIMENSION</th>
<th>Max. Solids Dia.</th>
<th>Continuous Running Water Level (in.)</th>
<th>Pump Weight (lbs.)</th>
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* 208 & 230V same motor
*Pump Starting Water Level

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* 208 & 220V same motor
* 6inch is optional
*Pump Starting Water Level
Material
Impeller: High Chrome Cast Iron
Casing: Ductile Cast Iron
Mechanical Seal: Silicon Carbide
Motor Frame: Cast Iron
Shaft: 420 Stainless Steel
Fasteners: 304 Stainless Steel
Cable: Chloroprene Sheath

Performance Curves
LH and LH-W pumps reach heights the competition only dreams of!

Features

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

The LH-W series offers extremely high heads by utilizing dual staged, closed high chrome impellers. The LH series handles medium to high flows at higher heads. The durable construction of these pumps make them ideally suited for dewatering of mines and quarries, deep well pumping and any high head or long distance water transfer application.

Dual mechanical seals are isolated in the oil chamber protecting the seal faces from abrasive liquids. High pressure seals, capable of operating depths of 164 ft., are used on all LH-W series pumps and on LH series pumps from 20 to 60 HP. Additional seal protection is provided by Tsurumi’s exclusive Seal Pressure Relief Ports. The Pressure Relief Ports provide a flow path above the pump casing to allow a release for water to flow from the pump and away from the shaft. The mechanical seal remains isolated in an oil chamber above this flow path and is protected from any excessive pumping pressure or water hammer that may cause premature wear or failure of mechanical seals in high head pumping applications. Isolating the mechanical seals also protects against wear from abrasive materials in the pumping liquid.

### MOTOR SPECIFICATIONS

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* 208 & 230V same motor

### MODEL

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* 208 & 230V same motor
KTV(E) Lightweight, compact, durable and self-contained automatic operation

**Material**
- **Impeller:** Abrasion Resistant / Urethane Lined
- **Casing:** Aluminum
- **Mechanical Seal:** Silicon Carbide
- **Motor Frame:** Aluminum Alloy
- **Shaft:** 403 / 420 Stainless Steel
- **Fasteners:** 304 Stainless Steel
- **Cable:** PVC Sheath, Chloroprene Sheath

**Built-in Automatic Operation KTV:** Allows a three phase pump to operate automatically in a smaller casing or sump where traditional float switches don’t fit.

**Performance Curves**

![Performance Curves Graph](image)

60 Hz

[www.tsurumipump.com](http://www.tsurumipump.com)
KTV(E) pumps are easily portable and highly resistant to wear!

Features
- Lightweight, Compact Size
- Long Life and Low Maintenance
- Simple Construction for Easy Repair
- Anti-Wicking Cable Entrance
- Dual Silicon Carbide Mechanical Seals
- Tsurumi’s Patented Oil Lifter
- Internal Thermal Motor Protection
- Automatic Operation on KTVE Series

The KTV series was developed with a die cast aluminum body and elastomer pump end to reduce weight and allow easy handling. The semi-vortex impeller allows for maximum particle passage size while offering increased parts life. In addition, the need for impeller efficiency adjustments has been completely eliminated.

The KTVE series offers the same features as the KTV series with the added benefit of an integrally mounted electrode probe for turning the pump on and off automatically. Unnecessary dry-run is prevented to save energy and reduce wear without the need for auto control panels and cumbersome float assemblies. The pump installs and handles like a standard pump yet operates automatically by simply connecting to a manual control panel.

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* 208 & 230V same motor

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<th>MODEL</th>
<th>MOTOR SPECIFICATIONS</th>
<th>Discharge Size (inch)</th>
<th>DIMENSION</th>
<th>Max. Solids Dia. (inch)</th>
<th>Continuous Running Water Level (in.)</th>
<th>Pump Weight (lbs.)</th>
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<td>220V</td>
<td>440V</td>
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* 208 & 220V same motor  
* 220  
* 440V
KRS

High volume, extra durable pump available in a variety of sizes

Material

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

Performance Curves
KRS pumps provide high volume performance and extended pump life!

Features
- High Pump Volume
- 4 Pole, 1800 RPM Motors
- 6 Pole, 1200 RPM Motors
- Lower Impeller Tip Speeds for Longer Life
- Rugged Iron Construction
- Anti-Wicking Cable Entrance
- Dual Silicon Carbide Mechanical Seals
- Tsurumi’s Patented Oil Lifter
- Internal Thermal Motor Protection

The **KRS series** offers longer wear life on parts due to the slower impeller tip speed provided by 4-pole, 1800 RPM / 6-pole, 1200 RPM motors. Reducing impeller speed by half will extend your parts wear life by at least 2 to 3 times.

The iron construction of the KRS series extends the life of the pump. To prevent premature wear and failure from abrasive materials, Tsurumi’s dual inside mechanical seals are completely isolated in an oil chamber with an extra lip seal to protect mechanical seals from the pumped liquid.

The KRS series exemplifies Tsurumi’s design for multi-purpose pumps to fit a wide variety of applications due to their simple construction, superb durability and high efficiency.

![KRS SERIES Model Chart](chart.png)

### KRS SERIES

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MOTOR SPECIFICATIONS</th>
<th>Discharge Size (inch)</th>
<th>DIMENSION</th>
<th>Max. Solids Dia. (inch)</th>
<th>Continuous Running Water Level (in.)</th>
<th>Pump Weight (lbs.)</th>
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<td>22 11/16</td>
<td>47 1/4</td>
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<td>28 3/8</td>
<td>55 1/4</td>
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</tbody>
</table>

* 208 & 230V same motor
GSZ High volume dewatering and slurry pumps

Material

- Impeller: High Chrome or Stainless Steel
- Casing: Cast Iron
- Mechanical Seal: Silicon Carbide
- Motor Frame: Cast Iron / Cooling Jacket
- Shaft: 420 Stainless Steel
- Fasteners: 304 Stainless Steel
- Cable: Chloroprene Sheath

Performance Curves

60 Hz
4 & 6 Pole
30hp - 200hp
4P: 1800rpm
6P: 1200rpm

GSZ5-22-6
GSZ5-37-6
GSZ5-37-4
GSZ2-55-4
GSZ2-75-4L
GSZ150-4
GSZ2-75-4L
GSZ dewatering pumps are designed to last in aggressive dewatering applications!

**Features**
- High Pumping Volume
- 4 Pole, 1800 RPM Motors
  6 Pole, 1200 RPM Motors
- Lower Impeller Tip Speeds for Longer Life
- Rugged Iron Construction
- Anti-Wicking Cable Entrance
- Dual Silicon Carbide Mechanical Seals
- Tsurumi’s Patented Oil Lifter
- Internal Thermal Motor Protection

The **GSZ series** is one of the most formidable high volume submersible dewatering pumps available. Reducing impeller speed by half will extend your parts wear life by at least 2-3 times. With impeller materials of High Chrome and Stainless Steel, the GSZ series tackles the most aggressive dewatering applications. The side discharge design allows a smooth passage of abrasive materials.

Tsurumi’s exclusive Seal Pressure Relief Ports further protect the mechanical seals on the 4-pole, 1800 RPM models by providing a flow path above the pump casing to allow a release of water to flow from the pump and away from the shaft. The mechanical seals remain isolated in the oil chamber above this flow path and are protected from any excessive pumping pressure or water hammer that may cause premature wear or failure of the mechanical seals in high pressure applications.

Extended operation at low water levels is made possible by utilizing a water jacket that surrounds the motor housing. A portion of the water is allowed to flow completely around the motor on its way to the side discharge. Air lock is prevented by an air-release valve at the top of the water jacket to allow air in the pump casing and water jacket to be displaced by water when the pump begins operation.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MOTOR SPECIFICATIONS</th>
<th>DISCHARGE SIZE</th>
<th>DIMENSION</th>
<th>MAX. SOLIDS DIAM. (inch)</th>
<th>CONTINUOUS RUNNING WATER LEVEL (in.)</th>
<th>PUMP WEIGHT (lbs.)</th>
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<td>Diameter 63</td>
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<td>—</td>
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Tsurumi’s agitator pumps are ideal for quarry and gravel pit drainage. Abrasive resistant three-phase and single-phase pumps are available with either cast iron or synthetic rubber casings, and come complete with high chrome agitators, impellers, and suction covers.

**FEATURED Agitator Pump**

**GSD**  
High-powered heavy-duty slurry pump that delivers strong agitation, high head and high volume discharge

The **GSD Series** pump is a heavy-duty slurry pump that delivers high head and high volume discharge. It is designed and built for continuous operation under the rough conditions often found at mega-construction sites and mines.

The GSD Series is a submersible three-phase high power, high head and high volume heavy-duty slurry pump driven by a 4-pole motor. It is equipped with a high-chromium cast iron agitator that assists smooth suction of the settled matters. The pump parts such as the impeller and the suction cover are made of wear-resistant materials. The side discharge, spiral design allows smoother passage of the sucked solid matters. The motor is cooled by a water jacket that assures efficient motor cooling even when it operates with its motor exposed to air. The pump incorporates seal pressure relief ports that prevent the pumping pressure from applying to the shaft seal.

**Agitator**  
The agitator mounted on the motor shaft-end facilitates efficient suction of the settled slurry, sand, or mud.

**Suction Plate**  
Field adjustable components on the GPN622 and GSD series allow for quick and easy adjustment of impeller to suction plate/ring so that dropped performance can be restored.
**Performance Curves**

### HS, HSD, NK, KTV and KTD Series

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Output (HP)</th>
<th>Phase</th>
<th>Rated Current (A)</th>
<th>RPM</th>
<th>Discharge Size (inch)</th>
<th>Diameter (in.)</th>
<th>Height (in.)</th>
<th>Solid Dia. (inch)</th>
<th>Max. Solids</th>
<th>Continuous Running Water Level (in.)</th>
<th>Pump Weight (lbs.)</th>
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<td>840</td>
</tr>
</tbody>
</table>

*1 Dual Voltage  *2 220V  *3 208 & 220V same motor  *4 220V (same motor 208 & 220V)
SFQ/SQ Stainless Steel pumps

**Material**

- Impeller: 316 Stainless Steel
- Casing: 316 Stainless Steel
- Mechanical Seal: Silicon Carbide
- Motor Frame: 316 Stainless Steel
- Shaft: 316 Stainless Steel
- Fasteners: 316 Stainless Steel
- Cable: PVC Sheath, Chloroprene Sheath

**Performance Curves**

---

**Material**

- Impeller: 304 Stainless Steel
- Casing: 304 Stainless Steel
- Mechanical Seal: Silicon Carbide
- Motor Frame: 304 Stainless Steel
- Shaft: 304 Stainless Steel
- Fasteners: 304 Stainless Steel
- Cable: PVC Sheath

**Performance Curves**

---

www.tsurumipump.com
Stainless steel pumps are rust free and corrosive resistant!

**Features: SFQ Series**
- All wetted components are 316 Stainless Steel
- Viton elastomers
- Dual inside mechanical seals with Silicon Carbide faces, operate in an oil filled chamber and are protected by an exclusionary lip seal, providing the most durable seal available.
- Optional 316 SS Guide rail system is available for models from 7.5 - 15hp.
- Built in motor protector senses excess heat and amperage draw built up in the motor.
- Seal pressure relief system features an independent chamber separate from the oil casing in which the mechanical seal is housed.
  (From 7.5 - 15hp)

**Features: SQ Series**
- All components including motor frame are made of SS 304 Stainless Steel.
- Non-toxic white mineral oil is used as the lubricant.
- The flow-through design and heat resistant Silicon Carbide Mechanical Seals assist in cooling in the event of run-dry situations.
- Built in motor protector senses excess heat and amperage draw built up in the motor.
- Semi-vortex, stainless steel impeller passes solids and stringy material without clogging and increases wear resistance when pumping abrasive particles.

---

![SFQ Seal Pressure Relief System](image)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Motor Output (HP)</th>
<th>Phase</th>
<th>Single phase</th>
<th>Three phase</th>
<th>RPM</th>
<th>Discharge Size (inch)</th>
<th>Diameter (in.)</th>
<th>Height (in.)</th>
<th>Max. Solids Dia. (inch)</th>
<th>Continuous Running Water Level (in.)</th>
<th>Pump Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50SFQ2.75</td>
<td>1</td>
<td>Three</td>
<td>3.5</td>
<td>3.1</td>
<td>1.6</td>
<td>1.4</td>
<td>9 15/16</td>
<td>15 11/16</td>
<td>0.236</td>
<td>14 1/8</td>
<td>49</td>
</tr>
<tr>
<td>80SFQ21.5</td>
<td>2</td>
<td>Three</td>
<td>6.9</td>
<td>6.7</td>
<td>3.4</td>
<td>2.7</td>
<td>12 15/16</td>
<td>19 1/16</td>
<td>0.236</td>
<td>16 3/8</td>
<td>79</td>
</tr>
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<td>80SFQ23.7</td>
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<td>Three</td>
<td>13.8</td>
<td>12.8</td>
<td>6.4</td>
<td>5</td>
<td>14 1/8</td>
<td>21 5/16</td>
<td>0.591</td>
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<td>115</td>
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<td>100SFQ25.5</td>
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<td>Three</td>
<td>19.3</td>
<td>18.2</td>
<td>9.4</td>
<td>7.5</td>
<td>25 3/8</td>
<td>33 1/4</td>
<td>0.787</td>
<td>27 1/8</td>
<td>278</td>
</tr>
<tr>
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<td>24.4</td>
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<td>9.5</td>
<td>25 3/8</td>
<td>33 1/4</td>
<td>0.787</td>
<td>27 1/8</td>
<td>276</td>
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<td>100SFQ211</td>
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<td>35 1/8</td>
<td>0.906</td>
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<td>320</td>
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</table>

* 208 & 230V same motor

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Motor Output (HP)</th>
<th>Phase</th>
<th>Single phase</th>
<th>Three phase</th>
<th>RPM</th>
<th>Discharge Size (inch)</th>
<th>Diameter (in.)</th>
<th>Height (in.)</th>
<th>Max. Solids Dia. (inch)</th>
<th>Continuous Running Water Level (in.)</th>
<th>Pump Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50SQ2.45</td>
<td>1/2</td>
<td>Single</td>
<td>6.5</td>
<td>3.4</td>
<td>—</td>
<td>—</td>
<td>7 1/16</td>
<td>14 5/16</td>
<td>0.236</td>
<td>2 3/8</td>
<td>28</td>
</tr>
<tr>
<td>50SQ2.75</td>
<td>1</td>
<td>Three</td>
<td>3.5</td>
<td>3.4</td>
<td>1.6</td>
<td>1.3</td>
<td>7 1/16</td>
<td>15 1/8</td>
<td>0.236</td>
<td>2 3/8</td>
<td>31</td>
</tr>
</tbody>
</table>

* 208 & 220V same motor
Features: LB-480, LB-800/LBT-800

- Built with durable materials and light weight for easy handling.
- Motor protector protects against overheating, over-current, and run-dry conditions.
- Double Inside Mechanical Seal with Silicon Carbide faces provides the longest operational life.
- Oil Lifter provides lubrication of the seal faces.
- Single-phase is available in automatic operation.

Features: LB-1500/LBT-1500

- Motor protector protects against overheating, over-current, and run-dry conditions.
- Double Inside Mechanical Seal with Silicon Carbide faces provide the longest operational life.
- Oil Lifter provides lubrication of the seal faces.
- High Chrome Semi-Open Impeller resists wear from abrasive particles.
- Synthetic Rubber Pump Casing provides wear resistance and easy maintenance.
- Optional 2 inch discharge available for LB(T)-1500 series.

### Performance Curves

![Performance Curves Graph]

### Material

- **Impeller Type:**
  - Semi-Vortex (LB-480/LB(T)-800)
  - Semi-Open (LB(T)-1500)
- **Impeller Material:**
  - Urethane Rubber (LB-480/LB(T)-800)
  - High Chrome (LB(T)-1500)
- **Volute Casing Material:**
  - Ethylene Propylene Rubber (LB-480)
  - Butadiene Rubber and Natural Rubber (LB(T)-800/1500)
- **Wear Plate Material:**
  - Urethane Rubber (LB-480/LB(T)-800)
  - Butadiene Rubber and Natural Rubber (LB(T)-1500)
- **Shaft Seal:**
  - Double inside mechanical seal with Silicone Carbide (All three series)

### Performance Curves Table

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Motor Output (HP)</th>
<th>Phase</th>
<th>Motor RPM</th>
<th>Discharge Size (inch)</th>
<th>Diameter (in.)</th>
<th>Height (in.)</th>
<th>Max. Solids Dia. (inch)</th>
<th>Continuous Running Water Level (in.)</th>
<th>Pump Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB-480</td>
<td>1/2 Single</td>
<td>5.9</td>
<td>3</td>
<td>2</td>
<td>7 11/16</td>
<td>11 1/4</td>
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<td>2</td>
<td>21</td>
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<tr>
<td>LB-800</td>
<td>1 Single</td>
<td>10.5</td>
<td>5.2</td>
<td>2</td>
<td>7 9/16</td>
<td>13</td>
<td>0.236</td>
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<td>29</td>
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<td>LB(T)-800</td>
<td>1 Three</td>
<td>—</td>
<td>3.6</td>
<td>3</td>
<td>7 9/16</td>
<td>13</td>
<td>0.236</td>
<td>2</td>
<td>28</td>
</tr>
<tr>
<td>LB-1500</td>
<td>1 Three</td>
<td>26.2</td>
<td>13.2</td>
<td>2</td>
<td>7 3/8</td>
<td>23</td>
<td>0.236</td>
<td>3 1/8</td>
<td>72</td>
</tr>
<tr>
<td>LBT-1500 2 Three</td>
<td>—</td>
<td>7.2</td>
<td>8.0</td>
<td>3</td>
<td>7 3/8</td>
<td>23</td>
<td>0.236</td>
<td>3 1/8</td>
<td>70</td>
</tr>
</tbody>
</table>

* 208 & 230V same motor

---

**Motor Specifications**

- **Model:**
  - LB-480
  - LB-800
  - LB(T)-800
  - LB-1500
  - LBT-1500

- **Phase:**
  - Single
  - Three

- **Rated Current (A):**
  - 115V
  - 230V
  - 208V
  - 230V
  - 460V
  - 575V

- **RPM:**
  - 2P: 3600rpm

- **Discharge Size (inch):**
  - 208-230V same motor

- **Continuous Running Water Level (in.):**
  - 3 1/8

- **Pump Weight (lbs.):**
  - 21

---

**Features:**

- **Material:**
  - Semi-Vortex (LB-480/LB(T)-800)
  - Semi-Open (LB(T)-1500)

- **Impeller Type:**
  - Urethane Rubber (LB-480/LB(T)-800)
  - High Chrome (LB(T)-1500)

- **Volute Casing Material:**
  - Ethylene Propylene Rubber (LB-480)
  - Butadiene Rubber and Natural Rubber (LB(T)-800/1500)

- **Wear Plate Material:**
  - Urethane Rubber (LB-480/LB(T)-800)
  - Butadiene Rubber and Natural Rubber (LB(T)-1500)

- **Shaft Seal:**
  - Double inside mechanical seal with Silicone Carbide (All three series)
EPT4 Heavy Duty Prime Assisted Trash Pump

**EPT4-150:** Priming assisted
**EPT4-150Q:** Sound attenuated priming assisted
**EPT4-150S:** Skid mount priming assisted

### Material
- **Impeller Type:** Fully Enclosed
- **Impeller Material:** Cast Iron
- **Volute Casing Material:** Cast Iron
- **Wear Plate / Ring Material:** Cast Iron
- **Pump Casing Material:** Cast Iron
- **Shaft Seal:** Tungsten Carbide, Silicone Carbide

#### EPT4-150(Q)(S) Features
- Prime assisted pump utilizes venturi system for priming.
- Diesel engine (manufacturer; consult factory), and water cooled.
- Passes 3 inch 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.
- EPT4-150Q: Capable of quiet operation.

### Performance Curve

```

<table>
<thead>
<tr>
<th>Capacity (US gal/min) @ 2200RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
</tr>
<tr>
<td>400</td>
</tr>
<tr>
<td>800</td>
</tr>
<tr>
<td>1200</td>
</tr>
<tr>
<td>1600</td>
</tr>
<tr>
<td>2000</td>
</tr>
<tr>
<td>2400</td>
</tr>
<tr>
<td>2800</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total Head (ft)</th>
<th>EPT4-150</th>
<th>EPT4-150Q</th>
<th>EPT4-150S</th>
</tr>
</thead>
<tbody>
<tr>
<td>25Ft</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20Ft</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15Ft</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10Ft</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
```

### PUMP SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Discharge Size (inch)</th>
<th>Maximum Capacity (gpm)</th>
<th>Maximum Head (ft)</th>
<th>Engine</th>
<th>Output (hp)</th>
<th>Fuel Tank Capacity (gall)</th>
<th>Starting Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPT4-150</td>
<td>6&quot; ANSI Flange</td>
<td>Consult Factory</td>
<td>Consult Factory</td>
<td>Consult Factory</td>
<td>Diesel</td>
<td>60</td>
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<tr>
<td>EPT4-150Q</td>
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<td>Consult Factory</td>
<td>Consult Factory</td>
<td>Consult Factory</td>
<td>130</td>
<td>Electric, 12V</td>
<td></td>
</tr>
<tr>
<td>EPT4-150S</td>
<td></td>
<td>Consult Factory</td>
<td>Consult Factory</td>
<td>Consult Factory</td>
<td>120</td>
<td>Electric, 12V</td>
<td></td>
</tr>
</tbody>
</table>

### ENGINE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Length (inch)</th>
<th>Width (inch)</th>
<th>Height (inch)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPT4-150</td>
<td>136 1/2</td>
<td>67</td>
<td>67 7/8</td>
<td>Consult Factory</td>
</tr>
<tr>
<td>EPT4-150Q</td>
<td>161 1/2</td>
<td>76 1/8</td>
<td>79 13/16</td>
<td></td>
</tr>
<tr>
<td>EPT4-150S</td>
<td>100</td>
<td>42</td>
<td>49 1/2</td>
<td></td>
</tr>
</tbody>
</table>
CONTROL PANELS

Automatic Control Panels
- UL Listed Nema 4X Fiberglass Enclosure
- HOA Selector Switch
- IEC Rated Magnetic Contactor
- Field Adjustable Overload Protection
- Includes (2) 50" Mechanical Floats

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

MOISTURE DETECTOR

The TSMP SEAL MOISTURE PROBE is designed to detect moisture in the mechanical seal chamber, alerting customers of potential motor failure. The TSMP SEAL MOISTURE PROBE can be field installed on new or existing Tsurumi pump models and connected to the control panel for the appropriate alarm or notification.

Principle of Operation:
Sensor is installed through the oil port and directly into the mechanical seal chamber which contains an electrically non-conductive oil. The presence of water changes the chamber fluid mixture to a conductive condition and therefore completes the circuit which will result in a leakage indication on the control panel.

Electrical Specification
- Sensor Type: Conductive
- Suggested Seal Fail Relay Voltage: 24VAC
- Required Wiring: Single wire in separate sensor cable to be connected to seal leak relay in control panel by customer.