

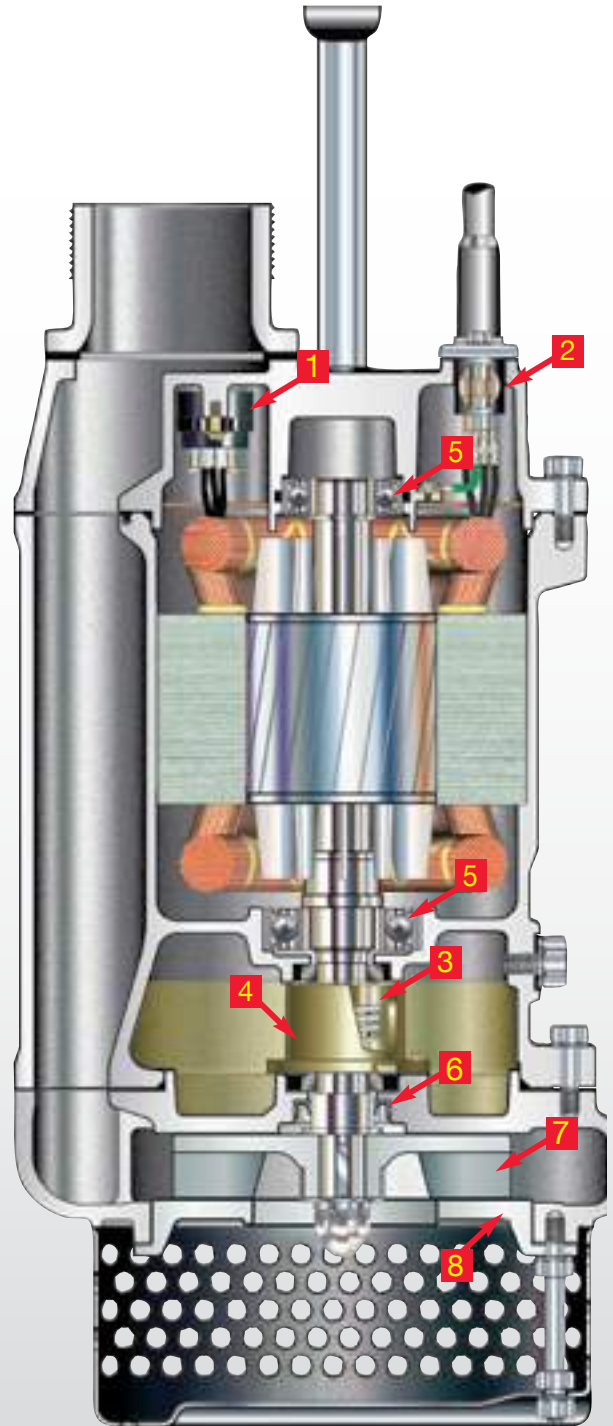


 **TSURUMI PUMP**™
BUILT FOR WORK®
THREE PHASE DEWATERING PUMPS



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 / Ductile Iron Impeller:**
Resists wear by abrasive particles.
- 8 Field Adjustable / Replaceable 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.

Three Phase Dewatering Pump Lineup

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.

Discharge Sizes:
2, 3, 4 and 6 inch
HP: 2, 3, 5, 7.5, 10, & 15

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.

Discharge Sizes:
4, 6, and 8 inch
HP: 4, 20, 30, 35, 40, 50, 60, 75, 100, 120, & 150

LHW Series



Extra high head pumping.

Dual staged, Closed High Chrome Impeller.

Pressure relief ports protect mechanical seal from excessive pressure and water hammer.

Discharge Sizes:
2, 3, and 4 inch
HP: 4, 7.5, 15, 30, 40 & 150

KTV(E) Series



Portable job-site dewatering.

Semi-vortex Urethane Rubber or Ductile Iron Impeller.

KTVE pumps with built-in electrode for automatic operation without a control panel.

Discharge Sizes:
2 and 3 inch
HP: 1, 2, 3, 5, & 7.5

KRS Series



High volume dewatering.

Semi-open Ductile Iron and High Chrome Impeller.

1800RPM and 1200 RPM motors reduce impeller wear.

Discharge Sizes
3, 4, 6, 8, 10, 12, and 14 inch
HP: 3, 5, 7.5, 10, 15, 20, 25, 30, 40, & 50

GSZ Series



High volume dewatering pumping.

Closed High Chrome and Stainless Steel Impeller.

1800 RPM and 1200 RPM motors reduce impeller wear.

Discharge Size:
6, 8, and 10 inch
HP: 30, 50, 60, 75, 100 & 200

Agitator Pumps



Heavy duty slurry pumping.

Abrasive resistant.

Single phase and three phase solutions.

Discharge Size:
2 - 10 inch
HP: 1/2 - 100

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.

Discharge Size:
2, 3 and 4 inch
HP: 1, 2, 5, 7.5, 10 & 15

SQ Series



Portable corrosive liquid dewatering.

Semi-open Stainless Steel Impeller.

All parts in contact with the liquid are 304 Stainless Steel.

Discharge Size:
2 inch
HP: 1/2 & 1

LB / LBT Series



For well dewatering: Fits n 8" casing.

Semi-Vortex Impeller.

Allows for jobsite dewatering utilizing smaller generators and smaller well casings.

Discharge Size:
2 and 3 inch
HP: 1/2, 1 & 2

KTV(E) SERIES | Lightweight, compact, durable & self-contained automatic operation



KTV2-55



KTVE33.0

Built-in Automatic Operation KTVE:

Allows a three phase pump to operate automatically in a smaller casing or sump where traditional float switches don't fit.

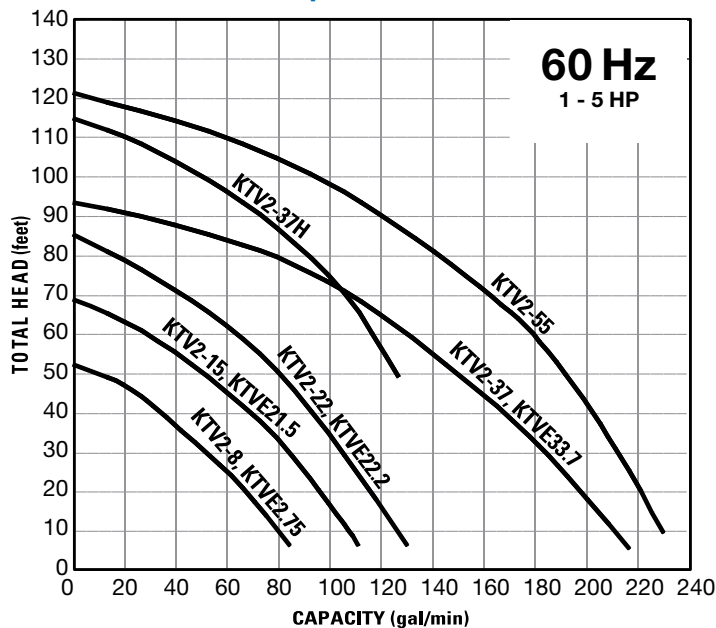
Material

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

Features

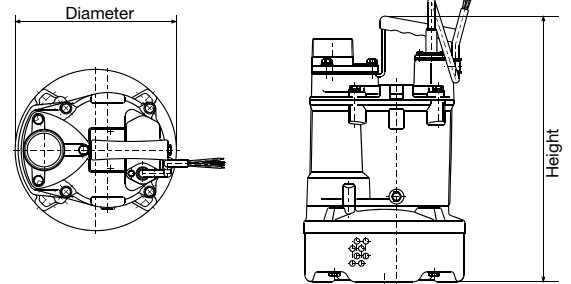
- Lightweight, Compact Size
- Long Life and Low Maintenance
- Anti-Wicking Cable Entrance
- Dual Silicon Carbide Mechanical Seals
- Oil Lifter
- Internal Thermal Motor Protection
- Automatic Operation on KTVE Series
- Slimline design for well dewatering

Group Performance



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.

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.



: Slimline Pumps - Pump diameter less than 15"

MODEL	MOTOR SPECIFICATIONS					Discharge Size (inch)	DIMENSIONS		Max. Solids Dia. (inch)	Continuous Running Water Level (in.)	Pump Weight (lbs.)	
	Output (HP)	Rated Current (A)					RPM	Diameter				Height
		208V	230V	460V	575V							
KTV2-8	1	3.4	3.2	1.6	1.3	3320	2	7 7/8	14 1/2	0.334	2 1/2	25
KTV2-15	2	6.0	5.4	2.7	2.1	3440	2	9 7/16	5 9/16	0.334	3 1/8	46
KTV2-22	3	8.2	7.4	3.7	2.9	3440	2	9 7/16	16 3/8	0.334	3 1/8	51
KTV2-37H	5	14.2	12.6	6.3	5.0	3450	2	11 1/4	20 1/16	0.334	3 1/2	79
KTV2-37	5	14.2	12.6	6.3	5.0	3450	3	11 1/4	20 1/16	0.334	3 1/2	79
KTV2-55	7.5	21.5	19	9.5	7.5	3435	3	11 13/16	21 7/16	0.334	3 1/2	104

MODEL	MOTOR SPECIFICATIONS					Discharge Size (inch)	DIMENSIONS		Max. Solids Dia. (inch)	Pump Starting Water Level (in.)	Pump Weight (lbs.)	
	Output (HP)	Rated Current (A)					RPM	Diameter				Height
		208V	230V	460V	575V							
KTVE2.75	1	3.4	3.2	1.7	1.3	3320	2	7 7/8	16 7/16	0.334	9 1/4	28
KTVE21.5	2	6.0	5.4	2.7	2.1	3440	2	9 7/16	16 3/4	0.334	10 1/2	48
KTVE22.2	3	8.2	7.4	3.7	2.9	3440	2	9 7/16	16 3/4	0.334	10 1/2	55
KTVE33.7	5	14.2	12.6	6.3	5.0	3450	3	11 1/4	23 1/16	0.334	12 7/8	88

AGITATOR PUMPS | HS • HSD • NK • KTD • KTV • KRS • GPN • GSD



Specifications

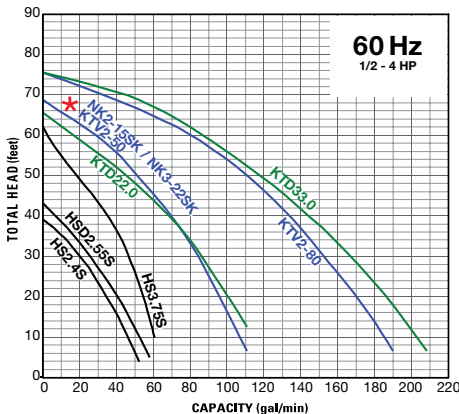
Type of Fluid: Sludge, muddy water, sandy mud

Applications

- Grit chambers, mine processing plants where light to medium abrasive solids need to stay suspended for pumping in wastewater
- Heavy abrasive construction site dewatering
- Aggregate wash down
- Ragoon / sludge pond cleanout



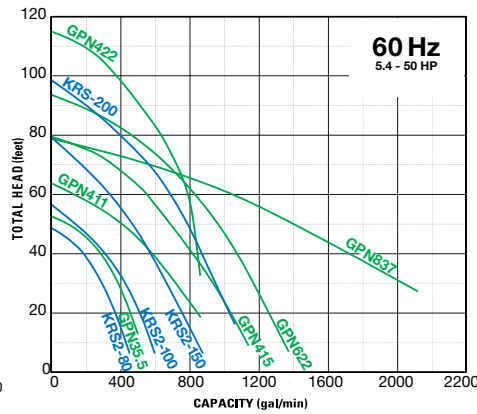
Group Performance HS, HSD, NK, KTD and KTV



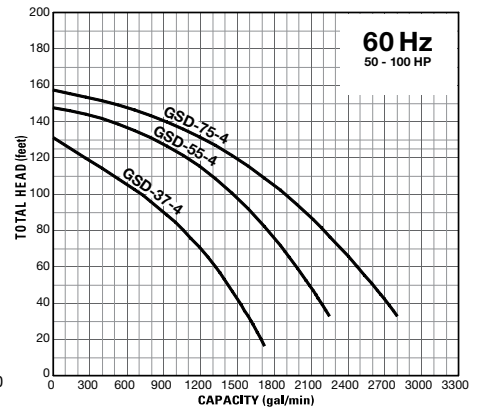
	Standard	High Torque
Single Phase	NK2-15SK 2HP (1.5kW)	NK3-22SK 3HP (2.2kW)
Three Phase	—	KTV2-50 2.7HP (2.0kW)

High Torque models further suitable for heavy duty application.

Group Performance KRS and GPN



Group Performance GSD





Tsurumi Agitator Pumps are designed for sludge slurry pumping with hard iron adjustable wear parts. Up to 10" discharge size / 100HP with 4 pole / 6 pole motors for slower impeller tip speed which prolongs pump life.

Additional options which may help extend the life of the wear parts in tough applications are available. (Consult factory for recommendations)

Additional optional special coating available.

KRS Series convert from regular hydraulic configuration to agitator versions with stock parts for more flexibility.

GPN Series / GSD Series only: Bottom side discharge

■ Agitator

Tsurumi's slurry pumps have an agitator made of abrasion resistant material. It is mounted on the shaft and rotates to create a downward current. This agitator assists the pump in suspending and transferring solids such as bentonite slurry, slime, mud, and water with high sand content.



MODEL	MOTOR SPECIFICATIONS								Discharge Size (inch)	DIMENSION		Max. Solids Dia. (inch)	Continuous Running Water Level (in.)	Pump Weight (lbs.)	
	Motor Output (HP)	Phase	Rated Current (A)							RPM	Diameter (in.)				Height (in.)
			Single phase		Three phase										
			115V	230V	208V	230V	460V	575V							
HS2.4S	1/2	Single	5.2	2.7	—	—	—	—	3320	2	10 1/16	12 15/16	0.276	3 1/2	25
HS3.75S	1	Single	9.7	4.9	—	—	—	—	3411	3	12 7/16	15 5/16	0.276	3 1/2	43
HSD2.55S	3/4	Single	7.3	3.7	—	—	—	—	3390	2	10 3/8	15 3/8	0.394	4 1/8	34
NK2-15SK	2	Single	23.0*	11.5*	—	—	—	—	3440	3	9 13/16	26	0.334	4 3/4	71
NK3-22SK	3	Single	—	13*	—	—	—	—	3465	3	9 13/16	26	0.334	4 3/4	71
KTV2-50	2.7	Three	—	—	7	6.4	3.2	2.6	3440	2	9 13/16	17 7/8	0.334	4 3/4	55
KTV2-80	4	Three	—	—	11.6	10.6	5.3	4.2	3450	3	11 5/8	21 5/8	0.334	5 1/8	84
KTD22.0	2.7	Three	—	—	8.7*	8.2	4.1	3.3	3410	2	9 1/4	23 3/16	0.394	5 1/2	86
KTD33.0	4	Three	—	—	12*	11.4	5.9	4.5	3410	3	11 11/16	25 3/4	0.394	6 1/4	145
KRS2-80	5.4	Three	—	—	18*	16.5	8.5	6.6	1720	3	13 3/4	30 11/16	1.18	9 7/8	231
KRS2-100	8	Three	—	—	25*	23	11.5	9.2	1730	4	16 3/8	30 7/8	1.18	10 5/8	315
KRS2-150	12	Three	—	—	36*	33	16.5	13.2	1735	6	16 3/8	33	1.18	10 5/8	357
KRS-200	24	Three	—	—	—	—	30	24	1750	8	22 11/16	44 7/8	1.18	11 1/4	840
GPN35.5	7.5	Three	—	—	21.4	20*	9.8	7.6	1720	3	3/16	31 5/16	1.18	11 3/8	319
GPN411	15	Three	—	—	42	39*	19.5	14.5	1735	4	24 5/16	34 5/8	1.18	12 3/8	478
GPN415	22	Three	—	—	55	52*	24	20	1735	4	24 5/16	34 5/8	1.18	12 3/8	485
GPN422	30	Three	—	—	—	—	36.5	29.5	1750	4	28 9/16	43 3/8	1.18	11 3/4	910
GPN622	30	Three	—	—	—	—	36.5	29.5	1750	6	28 9/16	43 3/8	1.18	11 3/4	910
GPN837	50	Three	—	—	—	—	64	52	1160	8	39 15/16	63 1/4	1.81	22	1760
GSD-37-4	50	Three	—	—	—	—	63	49.5	1740	8	36	62 5/16	0.984	18 7/8	1290
GSD-55-4	75	Three	—	—	—	—	97	76	1775	10	41 5/16	75 7/8	0.984	20 1/8	2440
GSD-75-4	100	Three	—	—	—	—	128	101	1775	10	41 5/16	75 7/8	0.984	20 1/8	2690

* Dual Voltage

TSURUMI PUMP™ ACCESSORIES

CONTROL PANELS - Automatic / Manual, VFD & Soft Start 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



■ VFD and Soft Start Control Panels

- Constant Pressure
- Constant Level
- Pace FLOW
- UL Listed
- Field Adjustable Overload Protection

Available Options Include:

- Line Reactor
- Load Reactor
- Seal Leak Protection
- Lightning Protection
- Ground-Ground Check Protection
- Elapsed Time meter
- Mechanical Floats
- Liquid Level Probes
- SCADA monitoring



TSURUMI PUMP™

BUILT FOR WORK®

TSURUMI (AMERICA), INC.

Headquarters: 1625 Fullerton Ct, Glendale Heights, IL 60139

Utah Office: 6216 West 9790 South, West Jordan, UT 84081

Tel: 1-888-878-7864 (Toll-Free) • 1-630-793-0127

Fax: 1-630-793-0146 • www.tsurumipump.com



Your Dealer

TSURUMI^{Canada}

149 J.A. Bombardier, Suite 10
Boucherville QC J4B 8P1

+14504496484

info@tsurumicanada.com
tsurumicanada.com



Find us @tsurumiamerica