

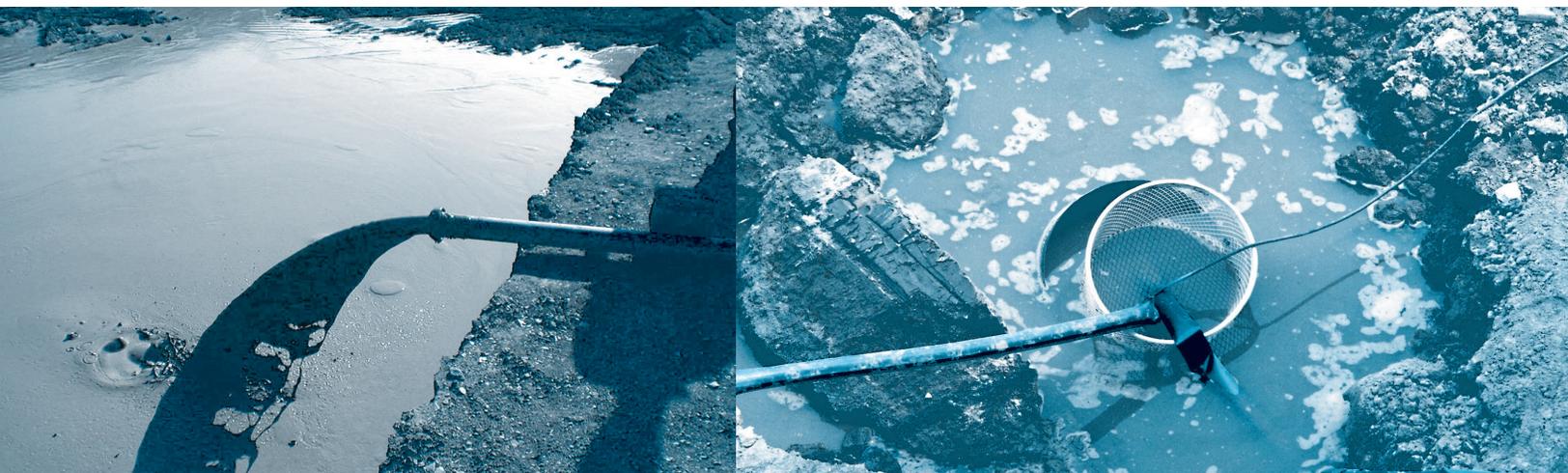


AGITATOR PUMPS

Electric Submersible Pumps



AGITATOR PUMPS for Heavy-Duty Slurry Pumping



Available in **HS/HSD Series, NK Series, KTV Series, KTD/KRD Series, KRS Series, GPN Series, GSZ Series & GSD Series**

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.



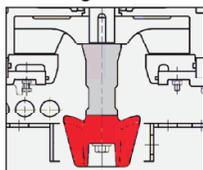
FEATURED

GSD

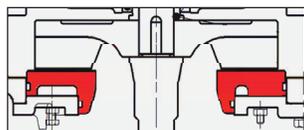
High-powered heavy-duty slurry pump that delivers strong agitation, high head and high volume discharge



Agitator



Suction Plate



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.

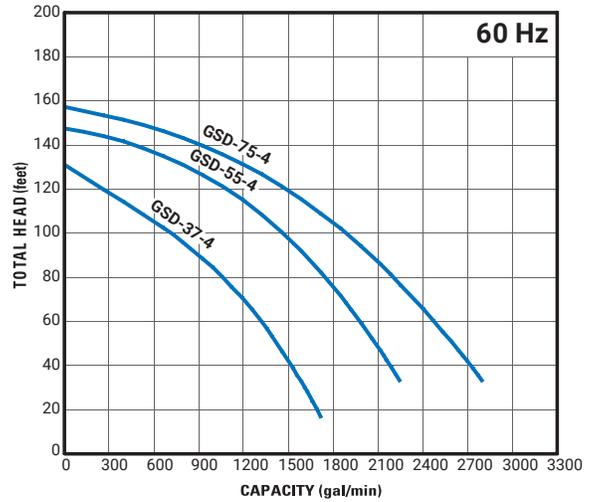
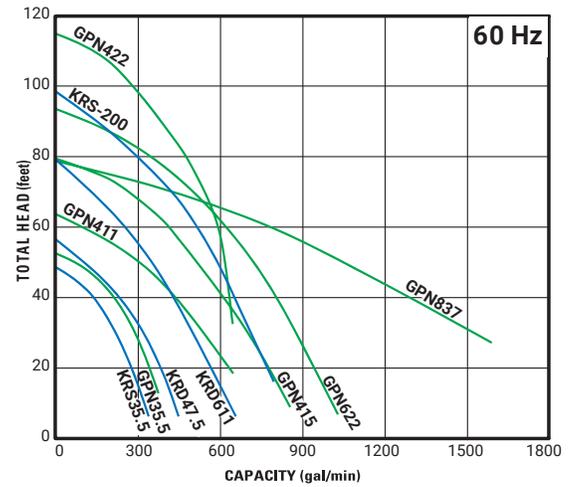
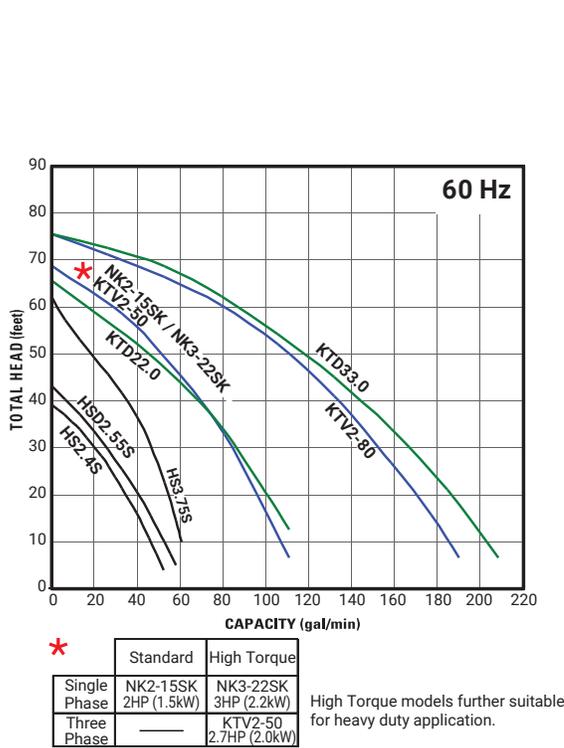
Agitator

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

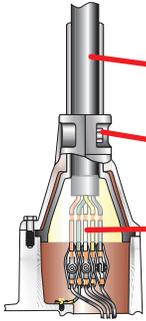


Specifications

MODEL	MOTOR SPECIFICATIONS								RPM	Discharge Size (inch)	DIMENSION		Max. Solids Dia. (inch)	Continuous Running Water Level (in.)	Pump Weight (lbs.)
	Motor Output (HP)	Phase	Rated Current (A)												
			Single phase		Three phase										
			115V	230V	208V	230V	460V	575V							
HS2.4S	1/2	Single	5.2	2.7	—	—	—	—	3600	2	10 1/16	12 15/16	0.276	3 1/2	30
HS3.75S	1	Single	9.7	4.9	—	—	—	—	3600	3	12 7/16	15 5/16	0.276	3 1/2	50
HS3.75SL	1	Single	9.7	—	—	4.9	—	—	3600	3	11 5/16	16 3/4	0.276	4 3/4	50
HSD2.55S	3/4	Single	7.3	3.7	—	—	—	—	3600	2	10 3/8	15 3/8	0.393	4 1/8	38
NK2-15SK	2	Single	23.0*	11.5*	—	—	—	—	3600	3	9 13/16	26	0.334	4 3/4	71
NK3-22SK	3	Single	—	13*	—	—	—	—	3600	3	9 13/16	26	0.334	4 3/4	71
KTV2-50	2.7	Three	—	—	7	6.4	3.2	2.6	3600	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	3600	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	3600	2	9 1/4	23 3/16	0.394	5 1/2	86
KTD33.0	4	Three	—	—	12*	11.4	5.9	4.5	3600	3	11 11/16	25 3/4	0.394	6 1/4	145
KRD35.5*	7.5	Three	—	—	18*	16.5	8.5	6.5	1800	3	13 3/4	30 11/16	1.18	10 3/8	231
KRD47.5*	8	Three	—	—	25*	23	11.5	9.2	1800	4	16 3/8	30 7/8	1.18	10 5/8	315
KRD611*	12	Three	—	—	36*	33	16.5	13.2	1800	6	16 3/8	33	1.18	10 5/8	357
KRS200	30	Three	—	—	—	—	30	24	1800	8	22 11/16	44 7/8	1.18	11 1/4	840
GPN35.5	7.5	Three	—	—	21.4	20*	9.3	7.6	1800	3	19 3/16	31 5/16	1.18	11 3/8	319
GPN411	15	Three	—	—	42	39*	18.6	14.5	1800	4	24 5/16	34 5/8	1.18	12 3/8	478
GPN415	20	Three	—	—	55	52*	24	22	1800	4	24 5/16	34 5/8	1.18	12 3/8	485
GPN422	30	Three	—	—	—	—	36.5	29.5	1800	4	28 9/16	43 3/8	1.18	11 3/4	915
GPN622	30	Three	—	—	—	—	36.5	29.5	1800	6	28 9/16	43 3/8	1.18	11 3/4	915
GPN837	50	Three	—	—	—	—	64	51.5	1800	8	39 15/16	63 1/4	1.81	22	1760
GSD-837*	50	Three	—	—	—	—	63	49.5	1800	8	36	62 5/16	0.984	18 7/8	1290
GSD-55-4	75	Three	—	—	—	—	97	76	1800	10	41 5/16	75 7/8	0.984	20 1/8	2440
GSD-75-4	100	Three	—	—	—	—	128	101	1800	10	41 5/16	75 7/8	0.984	20 1/8	2690

(*) Model Name Change

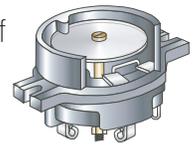
*Dual Voltage



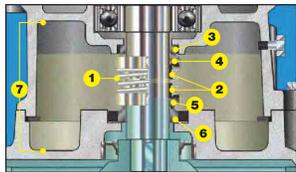
- Anti-Wicking Cable Entrance** Maximum protection against water incursion through the cable entry.
- Molded Cable Boot or Cable Protection Tube - extends cable bending radius, prevents abrading, and reduces fatigue.
 - Cable Gland - provides 360 degree compression of cable boot, protection tube, and cable bush for a water tight fit.
 - Anti-Wicking Block - prevents water from wicking through cuts in the cable insulation and traveling into the motor housing causing extensive damage.

Internal Thermal Motor Protection Built-in motor protection reacts to ambient temperatures inside the motor - unlike external overloads that react to ambient conditions in the control panel.

Circle Thermal Protector (CTP) - for pumps with 1-30HP: 3-Pole protector connects to each winding of the motor and reacts to excessive heat and amperage. The motor automatically restarts after it has optimally cooled. No motor protection circuit required in starter or control panel.



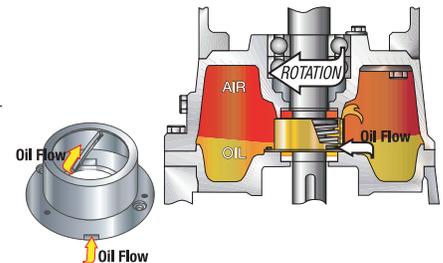
Miniature Thermal Protector (MTP) - for pumps with 40HP and over: Each winding contains one MTP and reacts to excessive heat. The MTP will cut power off to all windings in the event of an overheated motor. It is optional to connect the MTP in series with the motor control circuit for auto-restart; or it can be connected to an independent relay for manual restart.



Dual Inside, Silicon Carbide Mechanical Seals

Isolation of mechanical seals in an oil chamber provides a clean, non-corrosive and abrasion free lubricated environment to prevent spring failure; and prevents bottom seal failure due to loss of cooling during dry-run conditions.

Oil Lifter Tsurumi's exclusive Oil Lifter encloses the mechanical seal and uses the centrifugal force generated by the rotating shaft and seal to deliver oil to the upper seal faces. Upper and lower seal faces are lubricated even when extremely low oil levels exist after long periods of extended operation.



Pressure Relief Ports Tsurumi's exclusive Seal Pressure Relief Ports protect the mechanical seal on high head pumps. A flow path above the pump casing allows 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 therefore are exposed only to the sump submergence pressure. The seals are protected from any excessive pumping pressure or water hammer that may cause premature wear or failure of the mechanical seals in high head pumping applications.

We reserve the right to change the specifications and designs for improvement without prior notice.



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Your Dealer

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