



High-powered slurry pumps that deliver powerful agitation for discharging slurries laden with silt, earth, sand or other particulate

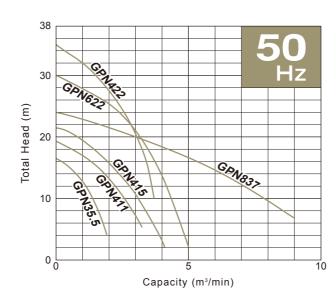
The GPN-series is a submersible three-phase high power and extra heavy-duty slurry pump driven by a 4-pole or 6-pole motor. It is equipped with a high-chromium cast iron agitator that assists smooth suction of the settled matters. The other wear parts such as the impeller and the suction plate are also made of high-chromium cast iron for extra durability. 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.

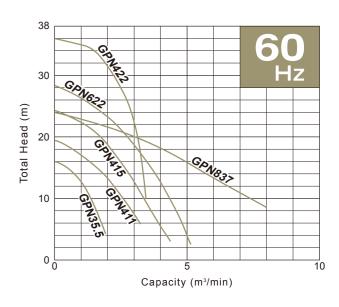




GPN622

Performance Curves

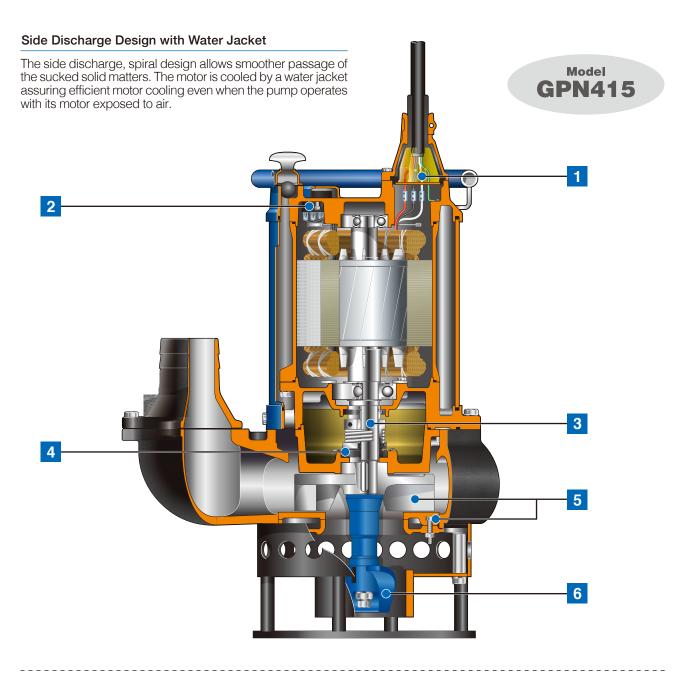




Discharge Bore mm	Model	Motor Output kW	Phase	Starting Method	Solids Passage mm	Dimensions L x W x H mm	Dry Weight* ² kg	Cable Length m
80	GPN35.5	5.5	Three	D.O.L.*1	30	487 x 390 x 796	145	8
100	GPN411	11		D.O.L.*1	30	617 x 452 x 879	217	8
100	GPN415	15		D.O.L.*1	30	617 x 452 x 879	220	10
100	GPN422	22		D.O.L.*1	30	725 x 572 x 1102	410	10
150	GPN622	22		D.O.L.*1	30	725 x 572 x 1102	415	10
200	GPN837	37		Star-Delta	46	1015 x 749 x 1606	815	10

^{*1} Star-Delta available upon request

^{*2} Weights excluding cable



1 Anti-wicking Cable Entry

Prevents water incursion due to capillary wicking should the power cable be damaged or the end submerged.

Circle Thermal Protector (15kW and below)

Directly cuts the motor circuit if excessive heat builds up or overcurrent occurs in the motor.

Miniature Thermal Protectors (22kW and above)

React to excessive heat caused by dry-running. The bimetal strip opens to cause the control panel to shut the power supply.

3 Chromium Molybdenum Shaft

Made of SCM435 (JIS), chromium molybdenum steel (tensile strength 930 N/mm² and over). It has the superior performance against a shock given at the instant of sucking hard solid matters.

4 Inside Mechanical Seal with Silicon Carbide Faces (15kW and below) Dual Inside Mechanical Seals with Silicon Carbide Faces (22kW and above)

Isolated in the oil chamber where a clean, non-corrosive and abrasion-free lubricating environment is maintained. Compared with the water-cooled outside mechanical seal, it reduces the risk of failure caused by dry-heating and adhering matter. The silicon carbide provides 5 times higher corrosion, wear and heat resistance than the tungsten carbide. *GPN422/622/837 have the Oil Lifter forcibly lubricating and cooling the mechanical seal.

5 High-chromium Cast Iron Impeller & Suction Plate

Made of high-chromium cast iron ensuring highest durability. Even if the performance drops due to wearing outof the impeller and/or suction plate, it can be improved by simply replacing the suction plate. *GPN422/622/837 have an adjustable suction plate.

6 Agitating Mechanism

Consists of a shaft-mounted agitator and a dedicated strainer. The agitator made of high-chromium cast iron resists wear caused by abrasive particles, and it suspends solids to assist in pumping sediments in combination with the strainer.

Specifications

			GPN								
			GPN35.5	GPN411	GPN415	GPN422	GPN622	GPN837			
Discha	arge Bore	mm	80		100	I	150	200			
Discha	arge Conne	ction	Hose Coupling								
Solids	Passage	mm			30			46			
Impoll	les elles		Semi-open								
Impen	Impeller			High-chromium Cast Iron							
	n Cover		Gray Cast Iron								
Suctio	n Plate				High-chromi	um Cast Iron	m Cast Iron				
Oil Se	al		Nitrile Butadiene Rubber								
Casing	g				ast Iron	Iron					
01 61			Ins	ide Mechanical S (without Oil Lifter)		Dual Inside Mechanical Seals (with Oil Lifter)					
Shaft S	Seal		Silicon Carbide								
Shaft S	Sleeve		— 403 Stainless Steel								
Agitate	or		High-chromium Cast Iron								
Туре			Continuous-duty Rated, Dry-type Induction Motor								
Outpu	t	kW	5.5	11	15	2	22	37			
Phase			Three								
Pole					4	6					
Insula	tion		Е		B F			1			
Startin	g Method			D.O.L.*2							
Motor (built-i	Protector n)			СТР		MTP					
Leaka (built-i	ge Sensor n)		— Electrode								
	Lubricant	ml	1100	25	500	3600 9200					
Lubric			Turbine Oil (ISO VG32)								
Frame					Gray C	ast Iron					
Shaft					Chromium Mol	lybdenum Steel					
D:	Power Cable		8 10								
Power			Chloroprene Rubber								
Dry Weight*1 kg			145	217	220	410	415	815			

^{*1} Weights excluding cable *2 Star-Delta available upon request

TSURUMI PUMP | 03 TSURUMI PUMP | 04



We reserve the right to change the specifications and designs without prior notice. The OO series and model OO are indicated with our series/model codes in this catalog.

TSURUMI MANUFACTURING CO., LTD.

Υ	our Dealer			