



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

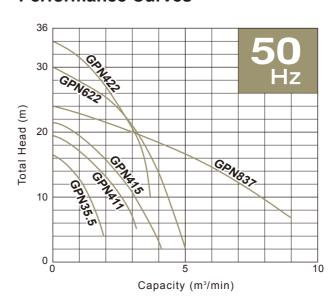
The GPN-series is a submersible three-phase high power and extra heavy-duty slurry pump driven by a 4-pole or 6-pole motor. It is equipped with a high-chromium cast iron agitator that assists smooth suction of the settled matters. The other wear parts such as the impeller and the suction plate are also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

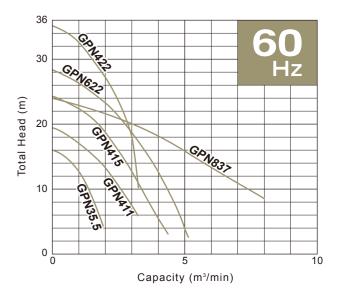




GPN622

Performance Curves

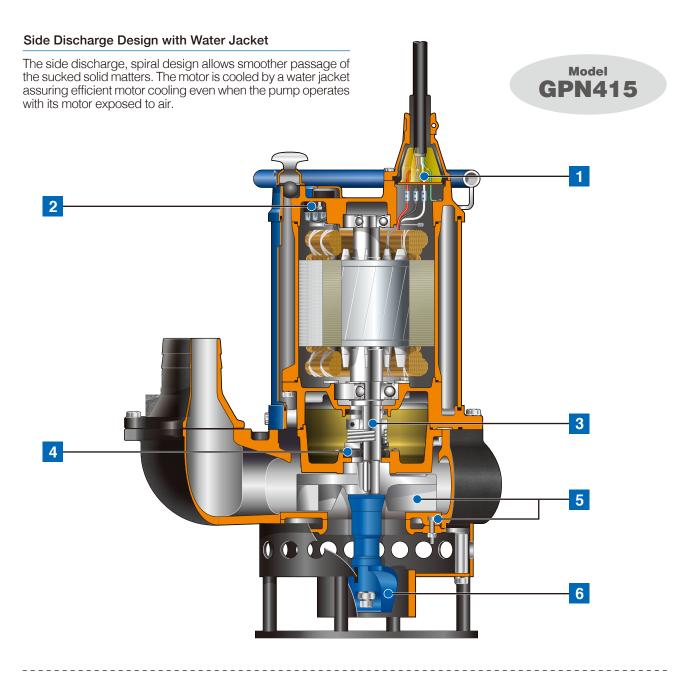




Discharge Bore mm	Model	Motor Output kW	Phase	Starting Method	Solids Passage mm	Dimensions L x H mm	Dry Weight* ² kg	Cable Length m
80	GPN35.5	5.5		D.O.L.*1	30	487 x 796	145	8
100	GPN411	11		D.O.L.*1	30	617 x 879	217	8
100	GPN415	15	Three	D.O.L.*1	30	617 x 879	220	10
100	GPN422	22	Tillee	D.O.L.*1	30	725 x 1102	415	10
150	GPN622	22		D.O.L.*1	30	725 x 1102	415	10
200	GPN837	37		Star-Delta	46	1015 x 1606	800	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 foreign 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			
Disc	harge Bore	mm	80		100		150	200			
Disc	harge Conne	ction	Hose Coupling								
Solid	ls Passage	mm	30 46								
Impo	Impeller		Semi-open								
Шре			High-chromium Cast Iron								
	ion Cover		Gray Cast Iron								
Sucti	Suction Plate		High-chromium Cast Iron								
Oil S	Seal		Nitrile Butadiene Rubber								
Casi	ng		Gray Cast Iron								
	Shaft Seal		Ins	side Mechanical S (without Oil Lifter)		Dual Inside Mechanical Seals (with Oil Lifter)					
Shafi			Silicon Carbide								
Shaf	t Sleeve		— 403 Stainless Steel								
Agita	Agitator		High-chromium Cast Iron								
Туре	Туре		Continuous-duty Rated, Dry-type Induction Motor								
Outp	out	kW	5.5	11	15	2	22	37			
Phas	se				Th	hree					
Pole	Pole		4								
Insul	Insulation		Е		В	F					
Start	Starting Method		D.O.L.*2								
Moto (built	Motor Protector (built-in)			CTP		MTP					
Moto (built Leak (built	Leakage Sensor (built-in)		— Electrode								
		ml	1100	1100 2500			3600				
Lubr	Lubricant		Turbine Oil (ISO VG32)								
Fram	ne				Gray C	Cast Iron					
Shaf	t				Chromium Mol	lybdenum Steel					
	ml Cable -		8 10								
Cabl			Chloroprene Rubber								
/ Weight	*1	kg	145	217	220	4	15	800			

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

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Product images and specifications may differ from actual products due to improvements. The OO series and model OO are indicated with our series/model codes in this catalog.

TSURUMI MANUFACTURING CO., LTD.

