

GPN AGITATOR PUMP



Submersible Agitator Pump GPN

The GPN-series is a submersible high power, heavy-duty slurry pump incorporating an agitator to suspend solids enabling the pump to handle high concentration slurries. Being equipped with high-chromium cast iron wear parts, the pump delivers outstanding durability. The suction plate is adjustable enabling the pump to maintain the original performance.* The GPN utilizes a cooling water jacket to allow the pump to operate at low water levels for extended period of time without the fear of overheating.

Applications

*Available in GPN422/622 only

- Transferring and draining bentonite slurry in piling works.
- Draining cement slurry or sand-carrying water in foundation works.
- Draining aggregate and ore wash water in mines and quarries.
- Collecting sediments in grit chambers at wastewater treatment plants.
- Pumping scale at steel mills.



"Pursuing close communication between people and water"

Tsurumi Manufacturing Company, Limited was founded in Osaka, Japan in 1924. Since the foundation, Tsurumi has consistently devoted its efforts to the creation and development of advanced water utilization technologies. Tsurumi has also innovated the pump manufacturing technologies in a constant pursuit of new opportunities and new fields that contribute to the advancement of our society and environment. This effort epitomizes its management policy "Dedicated to pursuing close communication between people and water through innovative creation and respect for harmony with nature."





A production base boasting industry-leading scale and advanced facilities

Kyoto Plant

- Manufactures compact, super-sized, and special-purpose pumps. · Designed for flexible operation. Follows a high-mix, low-volume approach to production.
- All processes are centrally computer-controlled.
- · Features a vast tank with a maximum water depth of 11.7 meters and a maximum volume of 4,500 cubic meters of retained water. Includes an experimental tower rising 44 meters above ground. Lot area: 46,000 square meters Total floor area: 30,000 square meters

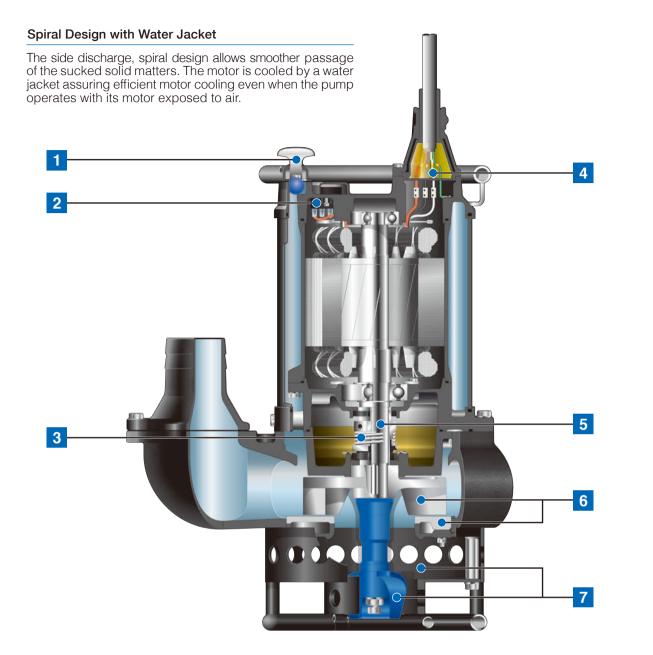


launched by TSURUMI PUMP

S launched by TSURUMI PUMP is a Tsurumi-original keyword created from the combination of amenity and -ics which is a postfix used in academics and technology.

This message expresses our pursuit of technology that is friendly to people and the Earth.





1 Air Release Valve

Fitted on the water jacket, it prevents the Air-lock. When air goes through the valve, the ball stays at the bottom, but when the pumped water starts to flow, it closes the outlet by its buoyancy.

2 Circle Thermal Protector

Detects both excess heat and excess amperage draw. It therefore protects against, overheating, overcurrent and dry-running. *GPN422/622 have built-in miniature thermal protectors working with a dedicated circuit in the control panel.

3 Internal Mechanical Seal with Silicon Carbide Faces

Runs in the oil chamber, a clean, non-corrosive and abrasion free lubricating environment. It eliminates the problems like spring failure and ensures the longest operational life of any seal available.

*GPN422/622 have the Oil Lifter forcibly lubricating and cooling the mechanical seal.

4 Anti-wicking Cable Entry

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

5 Chromium Molybdenum Motor Shaft

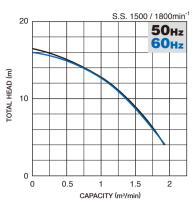
Made of SCM435 (JIS), chromium molybdenum steel (tensile strength 930 N/mm² and over). It has the superior performance against a shock given at the instant of sucking hard foreign matters.

6 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 have an adjustable suction plate.

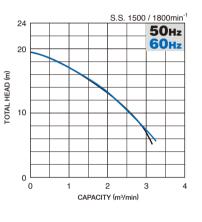
7 Agitating Mechanism

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.



GPN35.5

Motor Output Dis. Bore Dis. Connection Weight [excl. Cable] Cable Length Motor Protector Starting Method



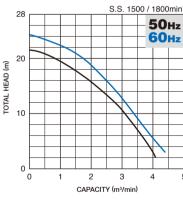
GPN411 Motor Output

100 mm

217 kg

8 m

Dis. Bore Dis. Connection Weight [excl. Cable] Cable Length Motor Protector Starting Method



GPN415

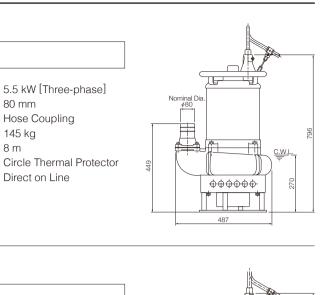
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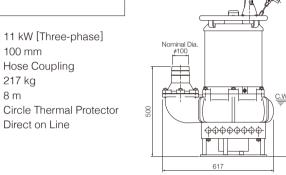
Motor Output Dis. Bore Dis. Connection Weight [excl. Cable] Cable Length Motor Protector Starting Method

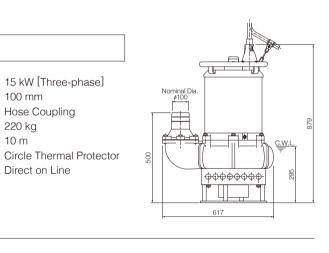
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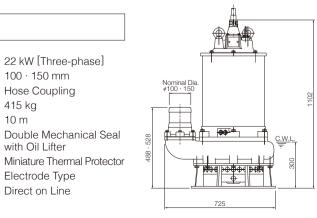
GPN422 · 622 Motor Output

Dis. Bore Dis. Connection Weight [excl. Cable] 415 kg Cable Length 10 m Shaft Seal Motor Protector Leakage Sensor Starting Method











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

TSURUMI MANUFACTURING CO., LTD.

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