



**TSURUMI PUMP**

**GPN** 3-phase  
50Hz

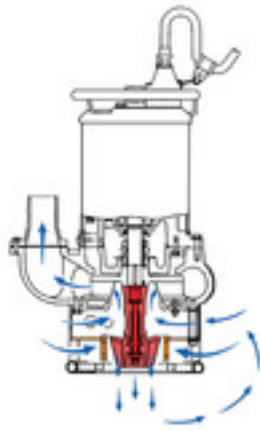
Pump with agitator  
- for professional use

Heavy duty sand pump - a special steel impeller and suction plate have greatly increased the pump's life. The casing is designed to have wide passing area, thorough thickness and anti-abrasion material

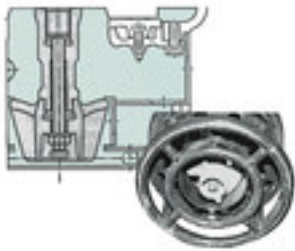


## Forced agitation

The agitator installed on the motor shaft extension forcibly agitates the fluid for easy and efficient transmission of sludge and slurry.

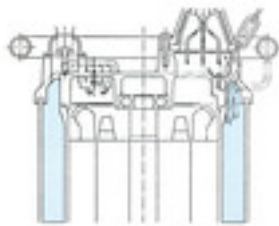


A special-steel impeller and suction plate have greatly increased the pump's life. The casing is designed to have wide passing area, thorough thickness and antiabrasion material. 4-pole motor used to achieve a simple structure that demonstrates excellent durability and versatility. Spiral structure, marvelously facilitates the passage of sand, soil, sludge, or slime - without clogging.



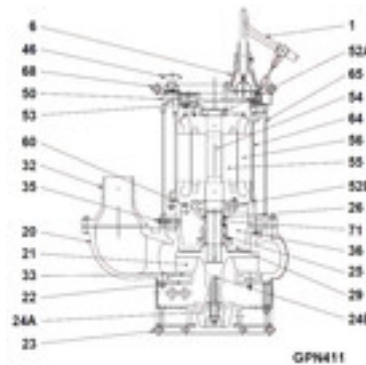
## Water jacket

Inner and outer motor casing - flow-through-design - perfect cooling under dry-run-conditions



## Components:

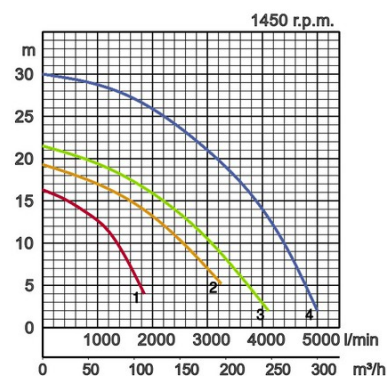
|                     |                     |
|---------------------|---------------------|
| 001 Cable           | 046 Air valve       |
| 006 Cable entrance  | 050 Motor cover     |
| 020 Pump casing     | 052A Upper bearing  |
| 021 Impeller        | 052B Lower bearing  |
| 022 Suction plate   | 053 Motor protector |
| 023 Strainer        | 054 Shaft           |
| 024 Agitator        | 055 Rotor           |
| 025 Mechanical seal | 056 Stator          |
| 026 Oil sealing     | 060 Bearing housing |
| 029 Oil casing      | 064 Motor casing    |
| 032. Outlet         | 065 Jacket          |
| 033 Suction plate   | 068 Handle          |
| 035 Oil plug        | 071 Shaft sleeve    |
| 036 Lubricant       |                     |



## Specifications:

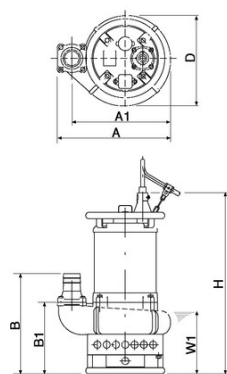
| Model   | Colour code curve | Bore mm | Motor output kW | Rated current A | Head max. m | Capacity max. l/min | Dry weight kg w/o cable | Max. solid handling ø mm | Max. water depth m | Cable length m |
|---------|-------------------|---------|-----------------|-----------------|-------------|---------------------|-------------------------|--------------------------|--------------------|----------------|
| GPN35.5 | 1                 | 80      | 5,5             | 12,1            | 16,3        | 1900                | 145,0                   | 30                       | 20                 | 20             |
| GPN411  | 2                 | 100     | 11,0            | 22,0            | 19,3        | 3250                | 217,0                   | 30                       | 20                 | 20             |
| GPN415  | 3                 | 100     | 15,0            | 25,8            | 21,5        | 4110                | 220,0                   | 30                       | 20                 | 20             |
| GPN622  | 4                 | 150     | 22,0            | 42,5            | 30,0        | 5000                | 415,0                   | 30                       | 20                 | 20             |

|                      |                            |   |  |
|----------------------|----------------------------|---|--|
| ø Discharge bore mm  |                            | 80, 100, 150  |  |
| Pumping Fluid        | Temperature                | 0-40°C  |  |
|                      | Type of Fluid              | Sludge, Slurry, Liquids containing sandy mud and/or bentonite |  |
| Pump                 | Components                 | Impeller  | Open type impeller                     |
|                      |                            | Shaft Seal  | Double mechanical seal                 |
|                      |                            | Bearings  | Shielded ball bearings                 |
|                      | Material                   | Impeller  | Chromium iron casting                  |
|                      |                            | Casing  | Grey iron casting EN-GJL-200           |
|                      |                            | Suction Plate   | Chromium iron casting                  |
|                      | Shaft Seal                 | Silicon carbide in oil bath                                   |  |
| Motor                | Type, Poles                |   | Induction motor, 4 poles, IP68         |
|                      | Lubrication                |   | Turbine oil (ISO VG32)                 |
|                      | Motor Protector (built-in) |   | Circle thermal cut-out                 |
|                      | Insulation                 |   | Insulation class E, Insulation class B |
|                      | Phase / Voltage            |   | 3-phase / 400V / 50Hz / d.o.l.         |
|                      | Material                   | Casing  | Grey iron casting EN-GJL-150           |
|                      |                            | Shaft   | Chromium-molybdenum steel (DIN 1.7220) |
| Cable                |                            | Rubber, H07RN-F, Rubber, NSSHÖU                               |  |
| Discharge Connection |                            | Threaded flange/Hose coupling                                 |  |



## Dimensions in mm:

| Model   | A   | A1  | B   | B1  | D   | H    | W1  |
|---------|-----|-----|-----|-----|-----|------|-----|
| GPN35.5 | 487 | 426 | 448 | 326 | 390 | 796  | 290 |
| GPN411  | 617 | 517 | 500 | 347 | 450 | 879  | 315 |
| GPN415  | 617 | 618 | 500 | 347 | 451 | 879  | 315 |
| GPN622  | 725 | 625 | 528 | 335 | 572 | 1102 | 300 |



W1: lowest running water level

In the event of abrasive and corrosive utilization, stronger wear and tear will take place naturally in certain components. In this regard, please pay attention to our website [www.tsurumi.eu/english/applications.htm](http://www.tsurumi.eu/english/applications.htm).