



**TSURUMI PUMP**

**GSD** 3-phase  
50Hz

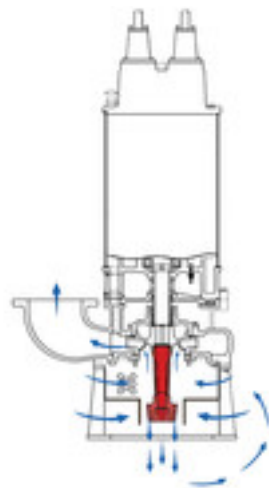
Pump with agitator  
- for professional use

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

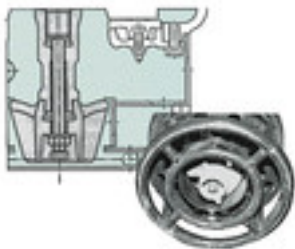


## Forced agitation

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

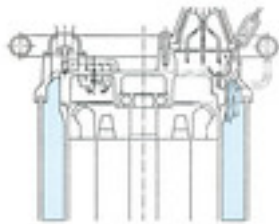


A special-steel impeller and suction plate have greatly increased the pump's life. The casing is designed to have wide passing area, thorough thickness and antiabrasion material. 4-pole motor used to achieve a simple structure that demonstrates excellent durability and versatility. Spiral structure,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



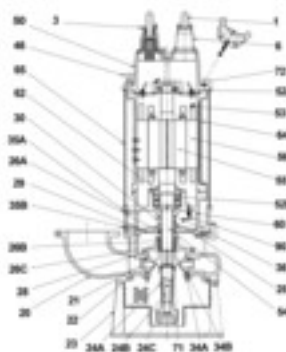
## Water jacket

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




## Components:

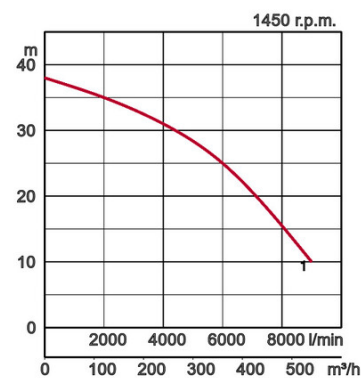
001 Cable	035B Oil plug
003 Gland	036 Lubricant
006 Cable entrance	046 Air valve
020 Pump casing	050 Motor cover
021 Impeller	052A Upper bearing
022 Suction plate	052B Lower bearing
023 Strainer	053 Motor protector
024 Agitator	054 Shaft
025 Mechanical seal	055 Rotor
026A Oil sealing	056 Stator
026B Oil sealing	060 Bearing housing
026C Labyrinth ring	062 Bearing cover
028 Middle plate	064 Motor casing
029 Oil casing	065 Jacket
030 Oil lifter	071 Shaft sleeve
034 Wear ring	072 Eye bolt
035A Oil plug	090, Leakage sensor



## 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	Pressure resistance max. m	Cable length m
GSD-55-4	 1	250	55,0	123,0	38,0	9000	1215	25	20	20

ø Discharge bore mm			250mm
Pumping Fluid	Type of Fluid		Sludge, Slurry, Liquids containing sandy mud and/or bentonite
	Temperature		0-40°C
Pump	Compo- nents	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	Motor Protector (built-in)		Miniature protector
	Insulation		Insulation class F
	Phase / Voltage		3-phase / 400V / 50Hz / s.d.
	Lubrication		Turbine oil (ISO VG32)
	Type, Poles		Induction motor, 4 poles, IP68
	Material	Casing	Grey iron casting EN-GJL-150
		Shaft	Stainless steel EN-X30Cr13
		Cable	Rubber, NSSHÖU
Discharge Connection			Hose coupling



## Dimensions in mm:

Model	A	A1	B	D	H	W1
GSD-55-4	1050	850	655	708	1927	510

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).





Contributing to World-wide Prosperity and  
Understanding through Worker- and  
Environment-friendly Production.

Designed for increased productivity through fully integrated streamlined production systems, Tsurumi's factory in Kyoto (Japan) features a production capacity of a full 1 million pumps per year. Large-scale modern R&D facilities offer optimum conditions for experimenting and testing of even super-large pumps and for developing new products to expand the possibilities and applications of pumps. To provide optimum conditions for our main asset, our workers, as well as for the environment, special emphasis is placed on optimized working conditions with airconditioning, minimized dust and exhaust gas emission, comprehensive recycling and waste recovery.

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We reserve the right to change specifications and designs herein for improvement without prior notice. Our pumps are for professional use only. In the event that Tsurumi (Europe) GmbH have, in exceptional cases taken over, a manufacturer's warranty, this entitles the enduser to assert remedy free of charge against Tsurumi (Europe) GmbH due to any defect to the product occurring during the guarantee period (see below), also then when the warranty claims against the seller do not or no longer exist. In the event of malfunction, which is attributable to the improper handling by the enduser, no guarantee claim shall arise. Further claims shall not result from the warranty, unless if something to the contrary has explicitly been determined. The decision as to whether remedy is effected by way of replacement or repair shall be at the choice of Tsurumi (Europe) GmbH. The claims shall be time barred after a period of three months after expiry of the guarantee period, however, not before expiry of the warranty period which is valid towards the seller. In the event of doubt, the warranty period shall correspond with the warranty period which is valid between the end-user and his seller.



con-GSD-DE

