

solidpump

TBD

Submersible Agitator Pumps



Solidpump TBD agitator series are cast iron heavy-duty slurry / sand pumps using TBZ pumps as a base. TBD pumps are equipped with agitators that assist smooth suction of the pumped media.

The side-flow, top-discharge design provide for motor cooling even in case the pump is operated continuously in semisubmerged condition.

TBD pumps are suitable for transferring of water with sand, bentonite slurry and are used for slurry drilling, draining of slurry contaminated water in civil engineering works, cleaning of sand pits, etc.



Technical Specifications

- Capacity: up to 90 m³/h
- Head: up to 30 meters
- Power: 1.5kW to 3.7kW
- Power supply: Three phase 400V ± 10%, 50Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 8m
- Water temperature: up to 40°C
- Max. water depth: 25m

Application

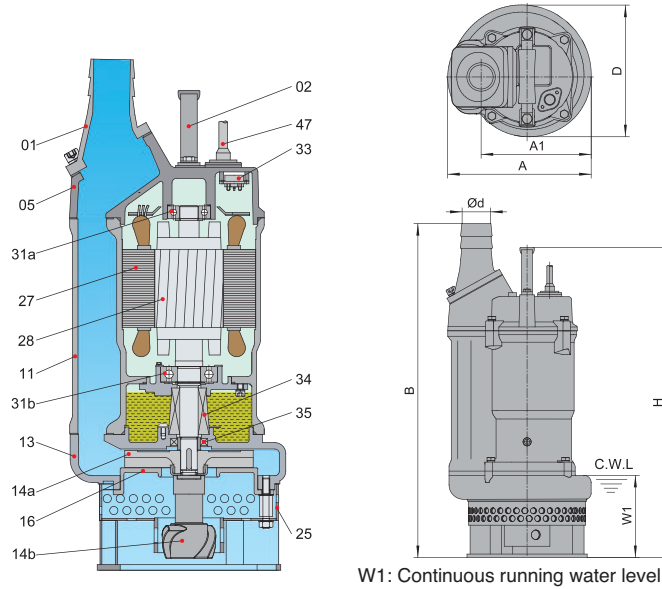
- Construction sites
- Mines and quarries
- Sand pits and sedimentation tanks at wastewater treatment plants
- Transfer of bentonite slurry and sandy sludge
- Transfer of water containing mud and sand

Optional Features

- Other voltages
- Other length of cable

Dimensions and Weight

Model (50Hz)	d	A	A1	B	D	H	W1	N.W	G.W	Packing dimension mm
	mm	mm	mm	mm	mm	mm	mm	Kg	Kg	
50TBD1.5	50	235	173	557	216	522	135	37	41	610x265x265
50TBD2.2	50	235	173	557	216	522	135	40	44	610x265x265
80TBD3.7	80	283	208	636	252	642	165	64	69	710x320x295
100TBD3.7	100	283	208	661	252	642	165	65	70	710x320x295

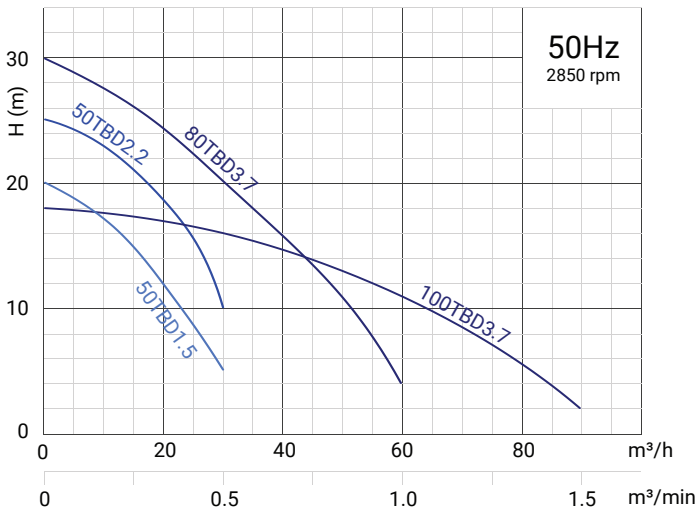


W1: Continuous running water level

Material of Construction

Item No.	Part name	Material	Item No.	Part name	Material
01	Hose coupling	Cast iron	27	Stator	
02	Handle	Rubber&steel	28	Rotor	Shaft:AISI420SS
05	Upper cover	Cast iron	31a	Bearing	Ball bearing
11	Motor body	Cast iron	31b	Bearing	Ball bearing
13	Pump body	Cast iron	33	Motor protector	
14a	Impeller	High chrome alloy	34	Mechanical seal	Sic-Sic/Carbon-Sic(≤2.2kW) Sic-Sic/Sic-Sic(3.7kW)
14b	Agitator	High chrome alloy	35	Oil seal	
16	Inlet plate	Ductile iron	47	Cable	
25	Strainer	Steel			

Performance Curves



Performance Range

Model (50Hz)	Outlet	Motor power		Rated current	Rated capacity		Rated head	Max capacity		Max Head	Impeller Passage
	mm	kW	HP	A	m³/h	m³/min	m	m³/h	m³/min	m	mm
50TBD1.5	50	1.5	2	3.5	15	0.25	15	30	0.50	20	10
50TBD2.2	50	2.2	3	5.0	18	0.3	19	30	0.50	25	10
80TBD3.7	80	3.7	5	7.7	30	0.5	20	60	1.0	30	10
100TBD3.7	100	4.7	5	7.7	60	1.0	11	90	1.50	18	10

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For years, for contractors and mechanical engineers, Solidpump brand has been a sign of high reliability and excellent relation of quality and price, when a submersible pump is needed for the most demanding job.

Solidpump products are manufactured with the use of high-tech materials and have the advantage of know-how and the technical competence applied to achieve the lowest LCC (Life Cycle Costs) together with extended operational life and efficiency.

Constant improvement of design and performance capabilities of pumps is carried out owing to continuous feedback received from end-users and distributors. We perform close quality control and provide engineering services for the clients, starting from the consulting during the choice of the best unit, up to the after-sales service support.

Today, key Solidpump products are submersible contractors' dewatering pumps, submersible sand and slurry pumps and portable professional drainage pumps. Solidpump submersible pumps are applicable in general drainage, construction, mining and industrial sites, wastewater treatment, sludge and sand removal, etc.

Solidpump Europe, located in Latvia, conducts European distribution of Solidpump products, providing an extensive stock of pumps and parts along with qualified technical support to our customers.

Solidpump. Solid reliability.

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