

**solidpump**

# TBZ

Submersible Contractors'  
Dewatering Pumps



TBZ-series robust pumps are best suited for draining in civil engineering, but can be also used for general pumping purposes.

Motor and pump casing is made of rigid cast iron for long-lasting durability. Maximum submersion depth is greatly increased due to mechanical seal resistant to high pressure. Semi-open impeller made of high chrome alloy in combination with wear plate (ductile iron) achieves superior durability. Effective motor cooling due to execution of discharge channel integrated into the motor housing. Space saving design due to a top outlet.

Discharge outlet from 50mm to 150mm, Motor from 1,5kW to 15kW.

Hermetically sealed motors below 15kW are equipped with build-in thermal protection.



### Technical Specifications

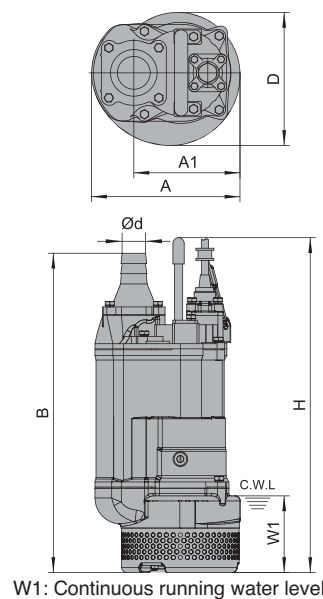
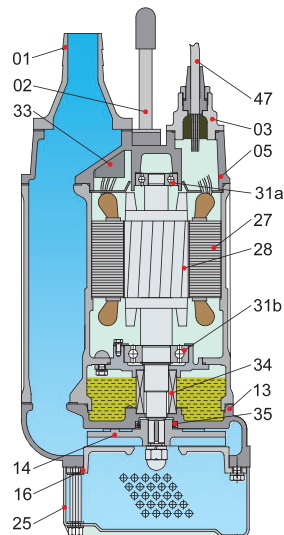
- Capacity: up to 160 m³/h
- Head: up to 57 meters
- Power: 1.5kW to 15kW
- Power supply: Three phase 400V ± 10%, 50Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 8m
- Water temperature: up to 40°C
- Max. water depth: 25m

### Application

- Construction sites
- Mining and industrial sites
- Drainage and contaminated water
- General pumping purposes

### Optional Features

- Other voltages
- Other length of cable



W1: Continuous running water level

### Material of Construction

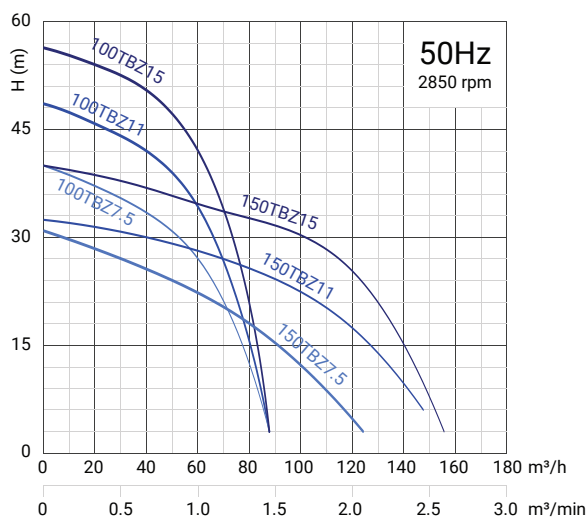
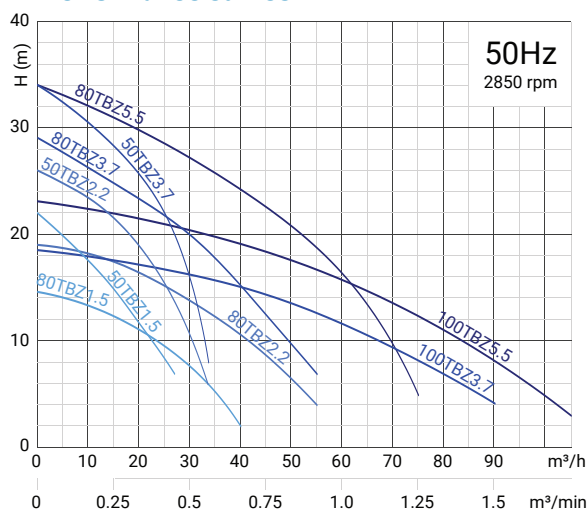
Item No.	Part name	Material	Item No.	Part name	Material
01	Hose coupling	Cast iron	28	Rotor	Shaft:AISI420SS
02	Handle	Rubber&steel	31a	Bearing	Ball bearing
05	Upper cover	Cast iron	31b	Bearing	Ball bearing
11	Motor body	Cast iron	33	Motor protector	
13	Pump body	Cast iron	34	Mechanical seal	Sic-Sic/Carbon-Sic(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



## 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	Kg	Kg	mm
50TBZ1.5	50	235	173	535	216	505	120	36	40	610x265x265
80TBZ1.5	80	235	173	535	216	505	120	36	40	610x265x265
50TBZ2.2	50	235	173	535	216	505	120	39	43	610x265x265
80TBZ2.2	80	235	173	535	216	505	120	39	43	610x265x265
50TBZ3.7	50	283	208	628	252	629	150	63	68	710x320x295
80TBZ3.7	80	283	208	628	252	629	150	63	68	710x320x295
100TBZ3.7	100	283	208	642	252	629	150	63	68	710x320x295
80TBZ5.5	80	283	208	671	252	590	150	77	84	750x350x360
100TBZ5.5	100	283	208	686	252	590	150	77	84	750x350x360
100TBZ7.5	100	330	240	764	314	676	190	106	116	835x365x385
150TBZ7.5	150	330	240	790	314	676	190	108	119	865x365x385
100TBZ11	100	373	255	807	350	695	190	136	148	885x415x435
150TBZ11	150	373	255	807	350	695	190	139	150	885x415x435
100TBZ15	100	373	255	842	350	755	190	144	158	935x415x435
150TBZ15	150	373	255	842	350	755	190	146	160	935x415x435

## Performance Curves



## Performance Range

Model (50Hz)	Outlet	Motor power		Rated current (400V) A	Rated capacity		Rated head m	Max capacity		Max Head m	Impeller Passage mm
	mm	kW	HP		m³/h	m³/min		m³/h	m³/min		
50TBZ1.5	50	1.5	2	3.5	15	0.25	15	27	0.45	22	8.5
80TBZ1.5	80	1.5	2	3.5	30	0.50	8	40	0.67	14.5	8.5
50TBZ2.2	50	2.2	3	5.0	18	0.30	20	33	0.55	26	8.5
80TBZ2.2	80	2.2	3	5.0	36	0.60	11	55	0.92	19	8.5
50TBZ3.7	50	3.7	5	7.7	12	0.20	30	33	0.55	34	8.5
80TBZ3.7	80	3.7	5	7.7	30	0.50	20	55	0.92	29	8.5
100TBZ3.7	100	3.7	5	7.7	60	1.0	11.5	90	1.50	18.5	8.5
80TBZ5.5	80	5.5	7.5	11.4	36	0.60	25	75	1.25	34	8.5
100TBZ5.5	100	5.5	7.5	11.4	60	1.0	16	105	1.75	23	8.5
100TBZ7.5	100	7.5	10	15	48	0.80	30	84	1.40	40	11.5
150TBZ7.5	150	7.5	10	15	90	1.60	15	124.8	2.08	31	19.5
100TBZ11	100	11	15	22	60	1.0	35	84	1.40	48.5	11.5
150TBZ11	150	11	15	22	102	1.70	22	147	2.45	32	19.5
100TBZ15	100	15	20	29.5	60	1.0	42	84	1.40	56	11.5
150TBZ15	150	15	20	29.5	102	1.70	30	156	2.60	40	19.5



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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