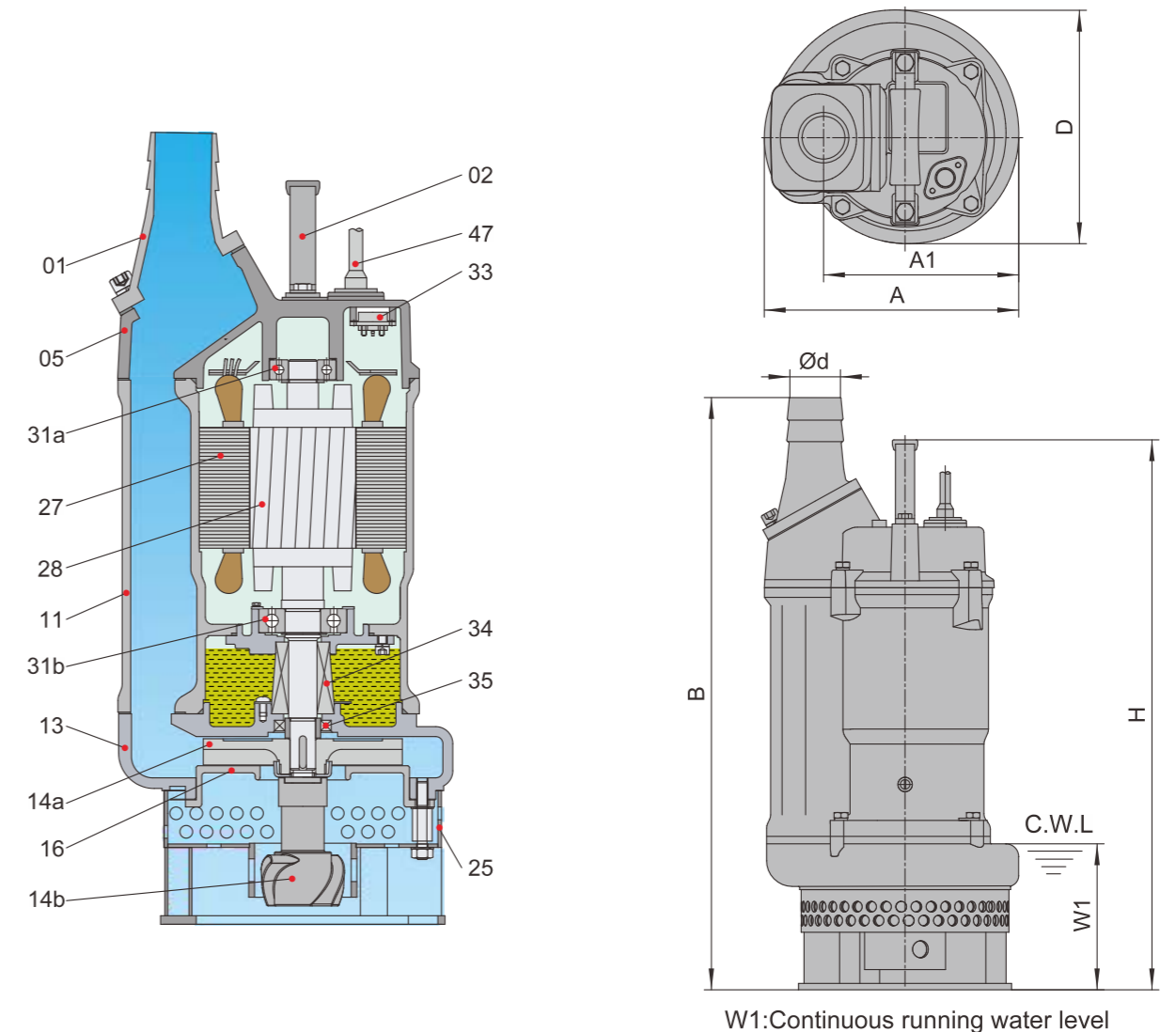


The Agitator Pump KBD Series is a cast iron made, heavy-duty slurry pump employing the KBZ Series as the base. An agitator is provided to assist smooth suction of the pumping fluid. The side-flow, top-discharge design keeps the motor cooling even if the pump is operated continuously with its motor exposed in air, and it makes the pump easier to be placed in a confined space. This pump is suitable for transferring or draining bentonite slurry used for slurry drilling, draining slurry mixed water in civil engineering works or foundation works.



Specification

- Capacity: up to 90 m³/h
- Head: up to 30 meters
- Power: 1.5kW (2HP) to 3.7kW (5HP)
- Power supply: Three phase 400V±10%, 50Hz
380V±10%, 60Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 8m
- Water temperature: up to 40°C
- Max. water depth: 25m

Application

- Civil engineering
- Mines, quarries, coal mine & slurries
- Sewage treatment plants
- General pumping purposes

Special features on request

- Other voltages
- The length of cable is optional

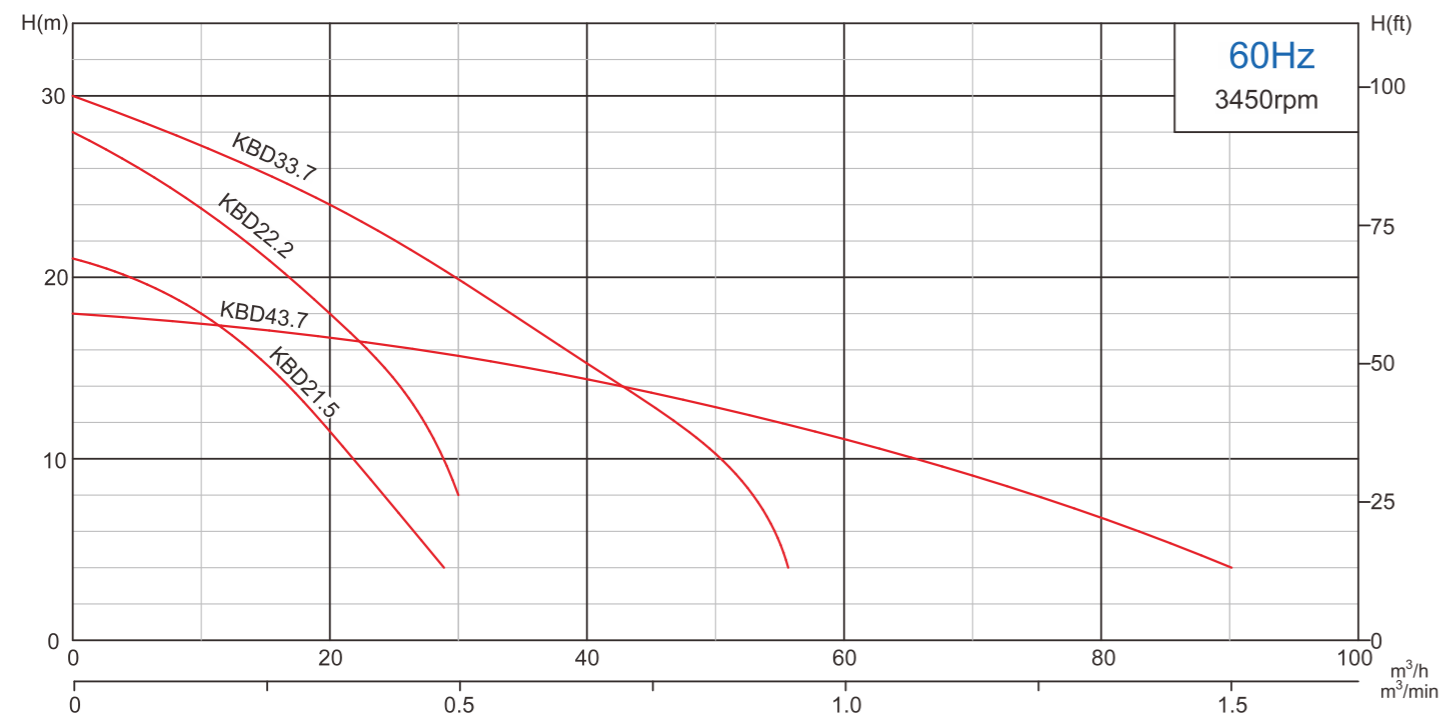
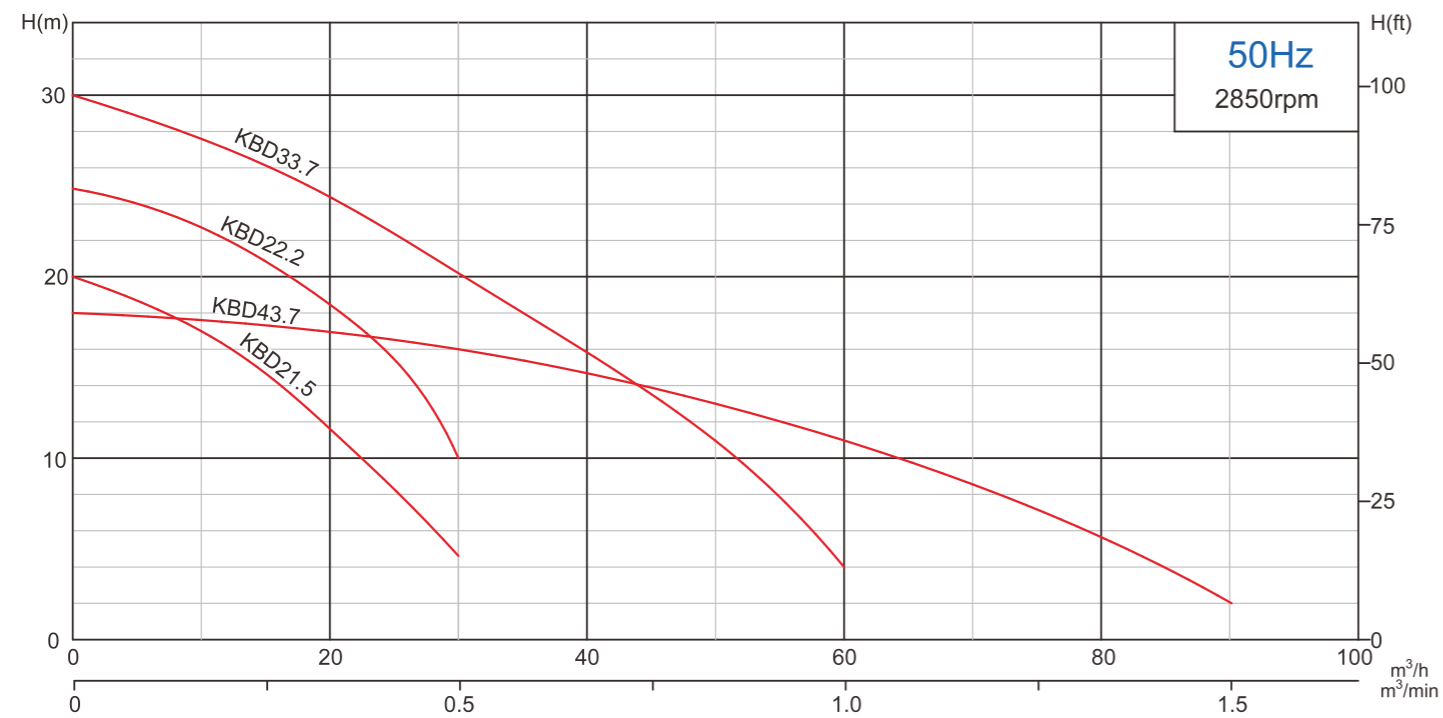
Material of construction

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			

Dimensions & weights

Model (50/60Hz)	d	A	A1	B	D	H	W1	N.W	G.W	Packing dimension
	mm	mm	mm	mm	mm	mm	mm	Kg	Kg	mm
KBD21.5	50	235	173	557	216	522	135	37	41	610x265x265
KBD22.2	50	235	173	557	216	522	135	40	44	610x265x265
KBD33.7	80	283	208	636	252	642	165	64	69	710x320x295
KBD43.7	100	283	208	661	252	642	165	65	70	710x320x295

Performance curves



Performance table

Model (50/60Hz)	Outlet	Motor power		Rated current 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		
KBD21.5	50	1.5	2	3.5	15	0.25	15	30/27	0.50/0.45	20/21	10
KBD22.2	50	2.2	3	5.0/5.1	18	0.3	19	30	0.50	25/28	10
KBD33.7	80	3.7	5	7.7/8.0	30	0.5	20	60/55	1.0/0.92	30	10
KBD43.7	100	3.7	5	7.7/8.0	60	1.0	11	90	1.50	18	10