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BW - VORTEX BT - TURBOTEX BD - SLURRY

Dry pumps series design

Sewage and Waste Water, Slurry

The Robot dry installed pumps are special developed to pump wherever solids handling is requested.

Hydraulic versions available

- Best solids handling, BW vortex pumps
- Best efficiency, BT Turbotex pumps
- Wear resistant, BD slurry pumps

Disign features

- Closed bearings, greased for life
- Stainless steel shaft and bolts & nuts
- Most pumps with 2 independent mechanical seals running in biologically degradable oil, allowing dry running, external oil tank
- Seal faces: silicon carbide vs ceramic and carbon vs ceramic
- All impellers with back vanes to keep the solids out and to reduce seal pressure for longer seal life
- No impeller adjustments required
- Flexible coupling, with spacer to allow back pull out for horizontal pumps
- Optional seal flushing
- Vortex series hyraulics in stainless steel and other special materials available

BW-Vortex pumps

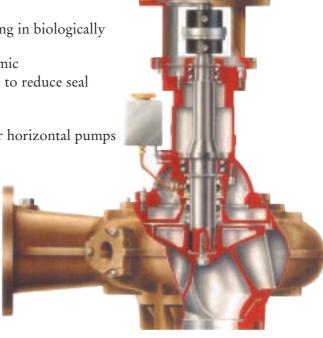
- Non-clog design, the recessed vortex impeller leaves a wide unobstructed passage through the volute in which a strong vortex is created that carries most of the solids.
- Realibility, no risk for jamming and low performance from faulty impeller adjustments and wear
- Large solids handling, the strong vortex prevents that solids are left behind even at low flow conditions
- Low wear, natural low wear is experienced for vortex pumps as most of the solids pass in front of the impeller without even touching it. Wear will only have limited effect on performance and evenly spread over the impeller it will not create high vibration levels
- Free choice of solids size, the Robot series of vortex pumps is available in a wide selection of solid series.

BT-Turbotex pumps

- Self cleaning design, the unique closed design of the impeller together with the smooth passage in combination with the self cleaning action makes the Turbotex impeller superior to both channel and screw impeller pumps
- High efficiency, up to 80% hydraulic efficiency
- Low turbulance, the favourable shape of the empeller inlet ensures smooth passage of the solids, avoiding excessive turbulence and preventing damage of the pumped articles.

BD-slurry pumps

- Non clog design, vortex impeller
- Wear resistant Nihard 4, used for all hydraulic parts, which is harder than silica and quartz sand and can withstand shock impacts with rocks.

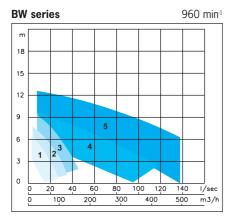




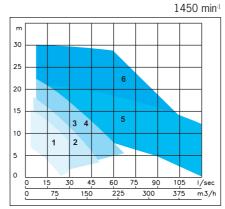




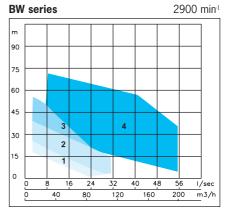
Characteristics



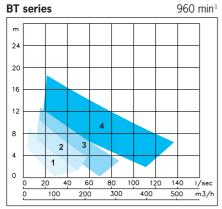




Nr	Model	Free passage [mm]	Discharge [mm]	Suction [mm]
1	BW2020/4020	65	80	80
2	BW2030/4030	80	100	100
3	BW2040/4040	100	100	100
4	BW2041/4041	100	100	125
5	BW5000	125	150	150
6	BW6000	150	200	200



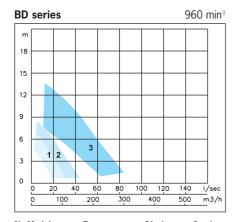
Nr	Model	Free passage [mm]	Discharge [mm]	Suction [mm]
1	BW2021	65	80	80
2	BW4021	65	80	80
3	BW4020	65	80	80
4	BW6032	80	100	100



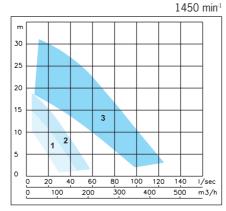
Nr	Model	Free passage [mm]	Discharge [mm]	Suction [mm]
1	BT2040/4040	100	100	125
2	BT4042	100	150	150
3	BT6040	110	150	200
1	RT6050	125	200	200

							1	450	min
m									
60									
50									
40									
30									
20				4					
10		1	3	·					
0	0 4	10 8		20 16	50 20	00 2	40 2	80 I,	/sec
	0	200	400		500	800		000 n	/sec n3/h

Nr	Model	Free passage [mm]	Discharge [mm]	Suction [mm]
	DT00404040			
1	BT2040/4040	100	100	125
2	BT4042	100	150	150
3	BT6040	110	150	200
4	BT6050	125	200	200



Nr Model		Model	Free passage	Discharge	Suction	
			[mm]	[mm]	[mm]	
	1	BD4030	80	100	100	
	2	BD4041	100	100	100	
	3	BD6040	100	150	150	



Nr Model	Free passage [mm]	Discharge [mm]	Suction [mm]		
1 BD4030	80	100	100		
2 BD4041	100	100	100		
3 BD6040	100	150	150		

Options available

			4 - 11 - 1					Sealing	Sealing system		Ontion
	Installation versions								x Mech. seal 2 Mech. seals	Option pump unit	Option wear res.
	Н	НМ	V	VM	SH	sv	K	1x Lipseal	2 IVICUI. Scals	st.steel	impeller
BW2020	•	•	•	•	•	•		•		•	•
BW2021	•	•	•	•	•	•		•		•	•
BW2030	•	•	•	•	•	•		•		•	•
BW2040	•	•	•	•	•	•		•		•	•
BW2041	•	•	•	•	•	•		•			•
BW4020	•	•	•	•	•	•	•		•	•	•
BW4021	•	•	•	•	•	•	•		•	•	•
BW4030	•	•	•	•	•	•	•		•	•	•
BW4040	•	•	•	•	•	•	•		•	•	•
BW4041	•	•	•	•	•	•	•		•		•
BW5000	•	•	•	•			•		•		
BW6000	•	•	•	•			•		•		
BW6032	•	•	•	•			•		•		•
BT2040	•	•	•	•					•		•
BT4040	•	•	•	•			•		•		•
BT4042	•	•	•	•			•		•		•
BT6040	•	•	•	•			•		•		•
BT6050	•	•	•	•			•		•		•
BD4030	•	•					•		•		
BD4041	•	•					•		•		
BD6040	•	•					•		•		

Products from Robot Pumps B.V.:

Submersible pumps



RW Vortex Pumps

RT Turbotex Pumps

RS Grinder Pumps

RC Channel Pumps

RD Slurry Pumps

RV Heavy Duty

Slurry Pumps

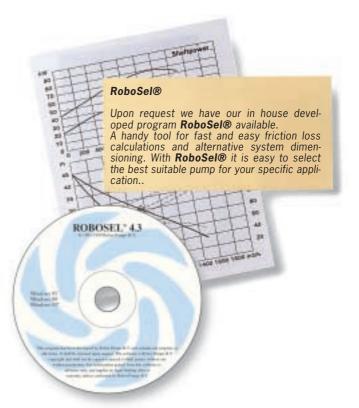
Pumps for dry installation



BW Vortex Pumps

BT Turbotex Pumps

BD Slurry Pumps



Typical applications



Robot dry installed pumps, the ultimate solution for solids handling applications. Above two BT6050 pumps managing the sewage system at Amsterdam airport "Schiphol".



The compact design of the B pumps are making cellar applications possible.



For special transport of chicken feathers and other wastes, BW-pumps are extremely suitable.

