





# **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**

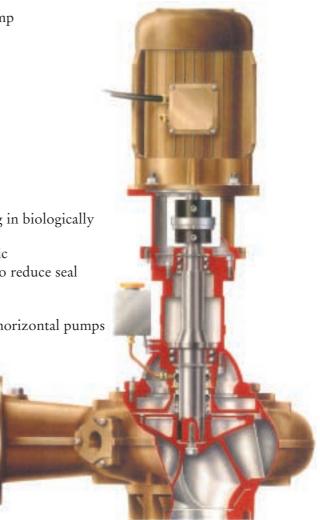
- Non-clog design, the recessed vortex impeller leaves a wide unobstructed passage through the volute in which a strong vortex is created that carries most of the solids.
- Realibility, no risk for jamming and low performance from faulty impeller adjustments and wear
- Large solids handling, the strong 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.

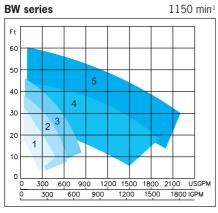


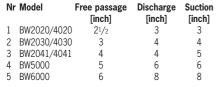


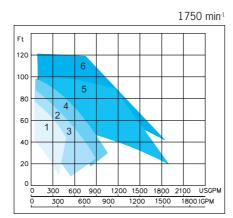




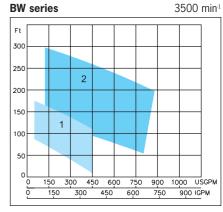
# **Characteristics**



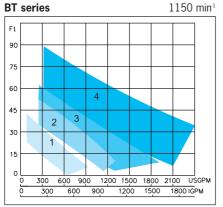




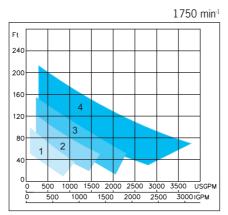
Nr	Model	Free passage [inch]	Discharge [inch]	Suction [inch]
1	BW2020/4020	21/2	3	3
2	BW2030/4030	3	4	4
3	BW2040/4040	4	4	4
4	BW2041/4041	4	4	5
5	BW5000	5	6	6
6	BW6000	6	8	8



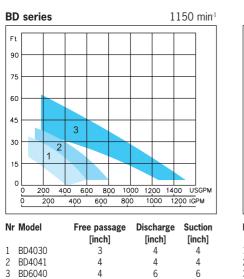
Nr	Model	Free passage [inch]	Discharge [inch]	Suction [inch]
1	BW2021	21/2	3	3
2	BW6032	3	4	4

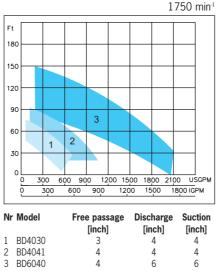


Nr	Model	Free passage [inch]	Discharge [inch]	Suction [inch]
1	BT2040/4040	4	4	5
2	BT4042	4	6	6
3	BT6040	5	6	8
4	BT6050	5	8	8



Nr	Model	Free passage [inch]	Discharge [inch]	Suction [inch]
1	BT2040/4040	4	4	5
2	BT4042	4	6	6
3	BT6040	5	6	8
4	BT6050	5	8	8





	Installation versions							Sealing system		Option	Option
	н	НМ	V	VM	SH	SV	K	1x Mech. seal 1x Lipseal	2 Mech. seals	pump unit st.steel	
BW2020	•	•	•	•	•	•		•		•	•
BW2021	•	•	•	•	•			•		•	•
BW2030			•					•		•	٠
BW2040			•					•		•	٠
BW2041	•		•	•	•			•			•
BW4020	•		•	•	•		•		•	•	•
BW4021	•		•	•	•		•		•	•	•
BW4030	•		•	•	•		•		•	•	•
BW4040	•		•	•			•		•	•	•
BW4041			•	•			•		•		•
BW5000			•	•			•		•		
BW6000			•	•			•		•		
BW6032				•			٠		•		•
BT2040	٠	•		•					•		•
BT4040	٠	•	•	•			•		•		٠
BT4042	٠	•		•			•		•		٠
BT6040	٠	•		•			•		•		•
BT6050	٠	•	•	•			•		•		•
BD4030		•					•		•		
BD4041	٠	•					•		•		
BD6040									•		

# **Options available**

# **Products from Robot Pumps B.V.:**

## **Submersible pumps**



- **RW** Vortex Pumps
  - T Turbotex Pumps
  - S Grinder Pumps
- RC Channel Pumps
  - D Slurry Pumps
  - V 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, BWpumps are extremely suitable.

