



GRIT WASHER CYCLONE GRIT CLASSIFIERS



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General Description and Intended Use

Grit classifiers are used after grit washers in the wastewater treatment plants to segregate the grit from the water. The grits should be segregated from the water because they accumulate in pipes and channels and causes blockages and also wearing in mechanical parts. The blockage and breakdowns in the pump, pipe, valves and other equipment are minimized with the segregation of the grits from the wastewater.

Working Principle Of Equipment

The gritty water given from the inlet pipe to the grit classifier is passed through a circular structure and enters into the equipment. The speed of the water is increased thanks to the cyclone structure with a special hydraulic design in the inlet unit and the grit is segregated from organic material by washing. Then the gritty water goes down to the water segregation container. Here, the grit settles at the bottom because of its specific weight in stable hydraulic conditions. The water segregated from the grits is directed to the floodgate at the upper level and discharged. The grit settled at the bottom is carried up with a shaftless screw conveyor and discharged to the waste container.

Technical Specifications

- It is manufactured in any capacity and size.
- It is driven by screw conveyor motor / reducer.
- In grit discharge pipe, a wearing plate made of polyethylene (UPE1000) material is used so that the screw conveyor does not wear the stainless sheet.
- There is a discharge valve at the bottom in order to make easy to discharge the equipment and interfere it in case it is necessary.
- The cyclone grit classifiers are manufactured closed to prevent bad odors and visual pollution arising out of the wastes carried to the waste discharge unit. The upper covers also provide additional safety in terms of occupational health and safety.



Material Details

- Frame: They can be manufactured as DIN 1.4301 (AISI 304) or DIN 1.4401 (AISI 316).
- Screw: They can be manufactured as S355J0 (St52) + Epoxy Paint, DIN 1.4301 (AISI 304) or DIN 1.4401 (AISI 316).
- Screw Bearing: It is manufactured from High Density Polyethylene (UPE 1000).

"Different materials can be preferred in accordance with the request of the customer."

Accessories

- Custom - Made Cyclone Type Grit Washer
- Discharge Ball Valve
- Waste Container*
- Local Power and Control Panel*
- Emergency Button*

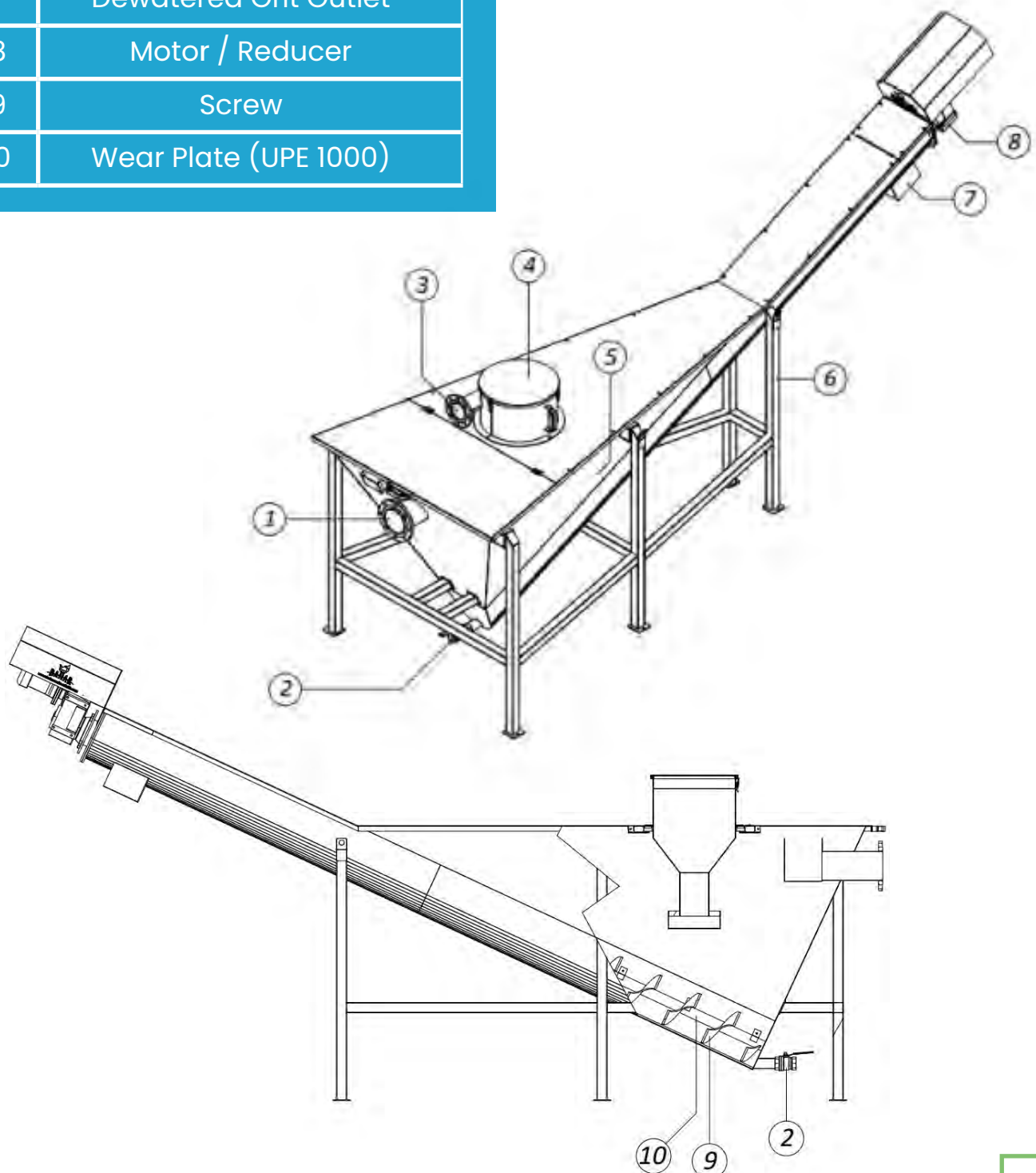
* Optional accessories are defined.

Advantages

- Custom - Made Cyclone Type Grit Washing,
- Grit Segregation With High Performance,
- Low Operation and Maintenance Costs,
- Low Energy Consumption,
- Easy Transportation and Mounting,
- Long Operation Life,
- Economical and Resistant Design.



No	Part Name
1	Wastewater Outlet Pipe
2	Discharge Valve
3	Wastewater Inlet Pipe
4	Custom - Made Cyclone Type Grit Washing System
5	Frame
6	Assembling Lugs
7	Dewatered Grit Outlet
8	Motor / Reducer
9	Screw
10	Wear Plate (UPE 1000)





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