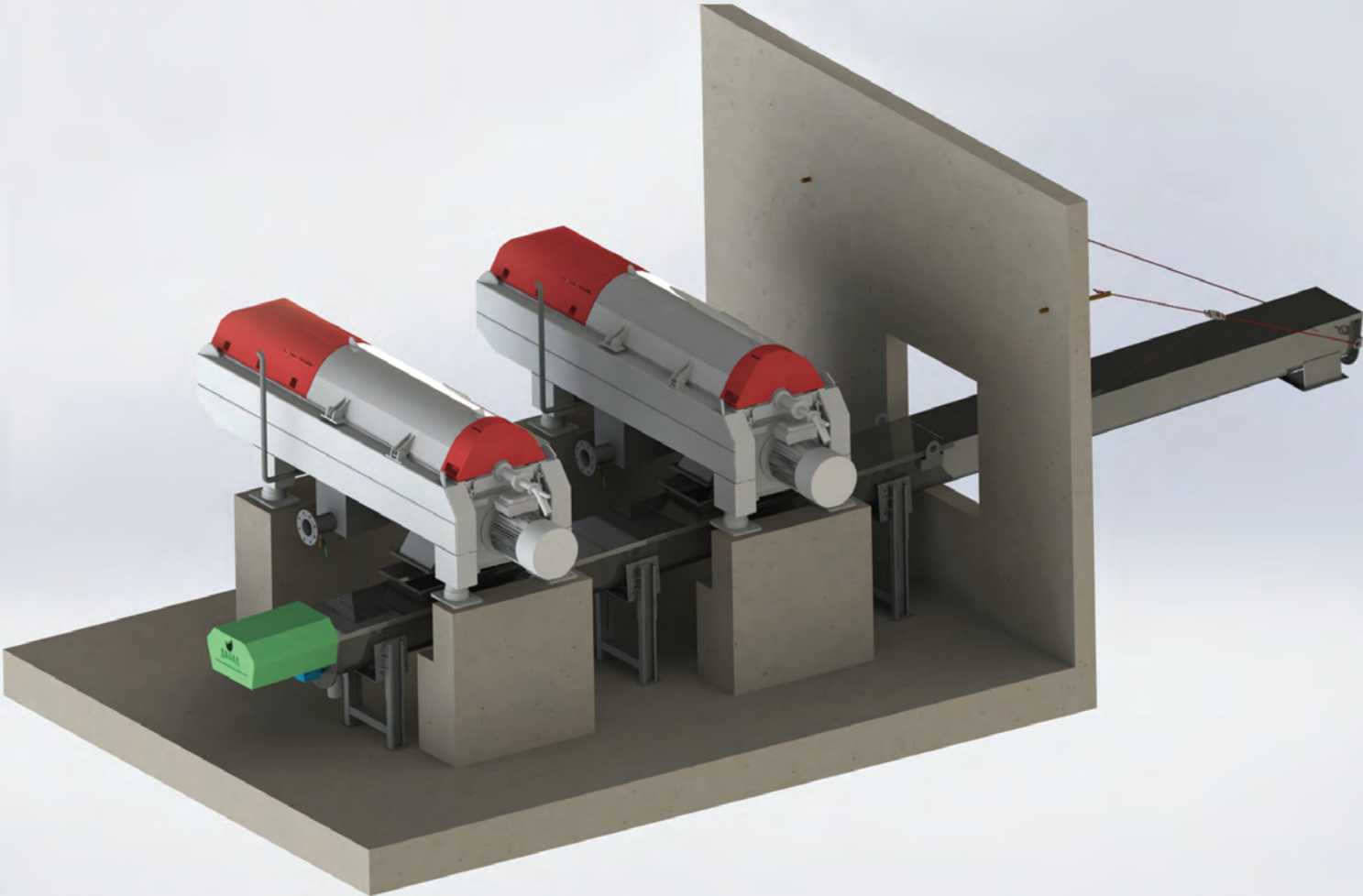




## SCREW CONVEYORS



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# SCREW CONVEYORS

## *General Description and Intended Use*

It is used to carry the solid wastes such as screen wastes or dewatered sludges to the storage areas in the wastewater treatment plants. It is more advantageous to carry wastes with high water content compared to other conveyors. The water accumulated at the bottom of the screw conveyors is discharged by the discharge valve at the bottom.

## *Working Principle Of Equipment*

A screw conveyor consists of a vessel, a screw in the vessel, a shaft connected to the screw and a drive group. A reciprocating movement is created by the effect of the screw connected to the rotating shaft and the wastes are carried.

The materials to be carried with the screw conveyors should not be big, easily breakable and sticky. The screw conveyors operate efficiently in the systems with a constant waste feeding. However, the feeding amount should not be large to prevent the operation of the screw for an efficient operation. The screw conveyors are easy to maintain.

## **Accessories**

- Waste Container\*
- Upper Cover\*
- Waste Inlet Chute\*
- Water Discharge Valve\*
- Emergency Button\*
- Torque Safety System\*
- Local Power and Control Panel\*

\* Optional accessories are defined.

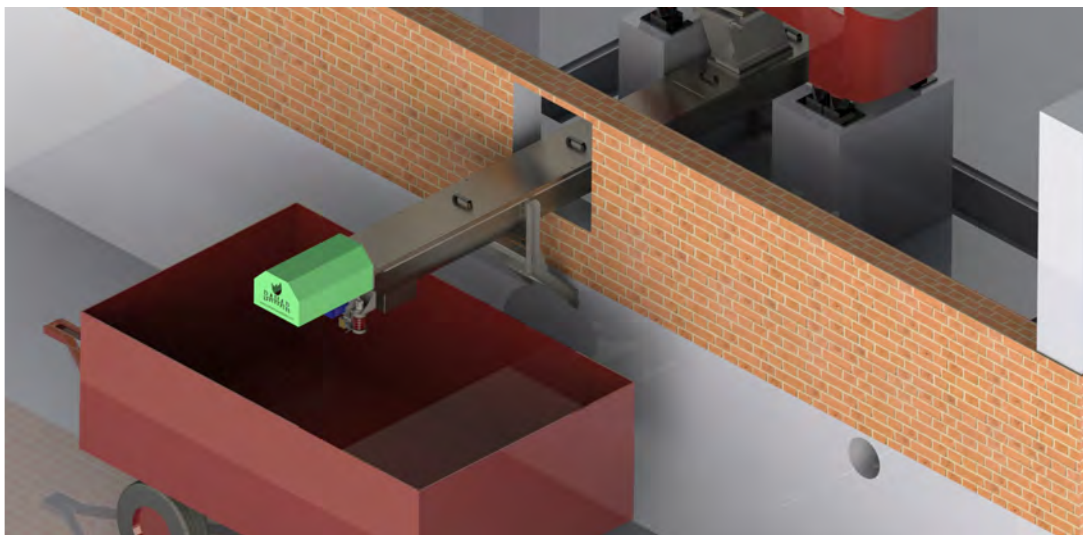


## Technical Specifications

- The models using screw conveyors with and without shaft are manufactured according to the project.
- They are mounted straight or depending on the intended use.
- PE 1000 is generally preferred as wear plate.
- A waste inlet and a waste discharge chute can be manufactured according to the place that it will be used.
- The screw diameter is selected according to the project.
- It is manufactured as fixed or with radial movement.
- The screw conveyors can be optionally manufactured with a cover on it to prevent bad odors and visual pollution arising out of wastes during carriage. The upper covers also provide additional safety in terms of occupational health and safety.

## Advantages

- Designing according to the area that it will be used,
- Usage as Fixed or With Radial Movement,
- Assembling Straight or Angled,
- High Performance Carriage Capability,
- Low First Investment Cost,
- Low Operation and Maintenance Costs,
- Possibility to Control and Follow the System Operation Over SCADA,
- Low Energy Consumption,
- Manufactured From Corrosion Resistant Material,
- Lower Workmanship Requirement Thanks to Automatic Cleaning,
- Long Operation Life,
- Long Operating Life Time Thanks to the Wear Plate that Prevents Damage to the Main Chassis.

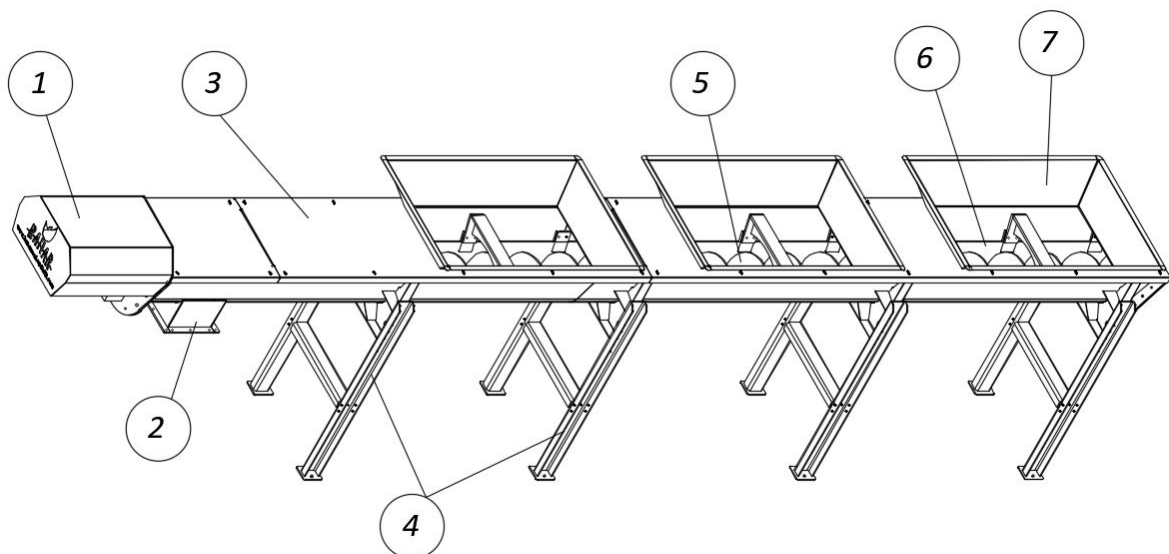
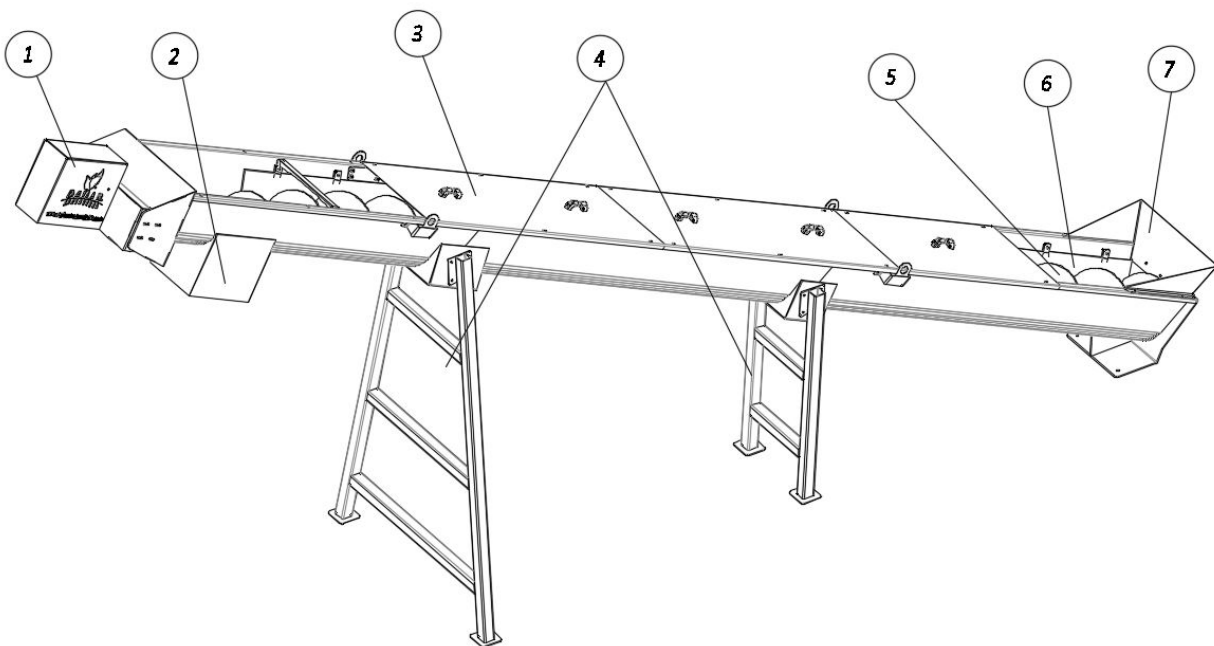


No	Part Name
1	Motor / Reducer
2	Waste Discharge Chute
3	Upper Cover of Conveyor
4	Lugs
5	Screw
6	Wear Plate
7	Waste Inlet Chute

## 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 DIN 1.4301 (AISI 304), DIN 1.4401 (AISI 316) or S355J0 (St52).
- Wear Plate: It is manufactured as UPE 1000.

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





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