



Hydrodynamic screw rotor for sewage - 19630



Specifications

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- Material: Carbon steel 1.0570/S-355
 - Outer diameter: 2000 mm.
 - Inner diameter: 1000 mm.
 - Pitch: 2000 mm.
 - Double threaded
 - Flights are manufactured in 180° segments
 - Coated with epoxy. The epoxy paint increases the life time of the screw rotor.
- Due to the large diameter, the screw flights are manufactured in 180° instead of 360° degree. The manufacturing time is longer when using 180° degree flights, and it has to be compared to saving of raw material.

Additional Information:

Product type:	Screw rotor
Industry:	Waste handling
Transported material:	Bulk material
Applied steel in product:	Carbon steel
Surface treatment:	Carbon steel – painted



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Short Description

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The hydrodynamic screw rotor is the classical invention from Archimedes – a screw rotor to lift water. In this case it is used for lifting wastewater from ground level into the wastewater treatment plant that performs the cleaning of the sewage. Using a hydrodynamic screw auger to lift sewage has certain advantages:

- It can lift a large amount of water
- It has a very few moving parts
- It can handle foreign elements without breaking down

Where is hydrodynamic screw rotors also used?

1. They can generate electricity from flowing water, and are used where traditional turbines are not possible
2. The hydrodynamic screw auger can lift water to higher levels – for irrigation, drainage and flood control. Flood control will be more and more important in a time with changing weather conditions.
3. Environmental restoration, the hydrodynamic screw rotor can play a role in restoring natural watercourses and maintaining ecological balance.

In all different cases, BEMA can assist in manufacturing the hydrodynamic screw rotor and assist in mounting and other related jobs to complete a final solution. In this case, the screw rotor has been delivered to a company that performed the final installation and restoration of the intake of the wastewater treatment plant.

BEMA has performed similar projects over the years – [see another example here](#)