



HUBER

Rotary Screw Thickener S-DRUM

Thickening of municipal and industrial sludges

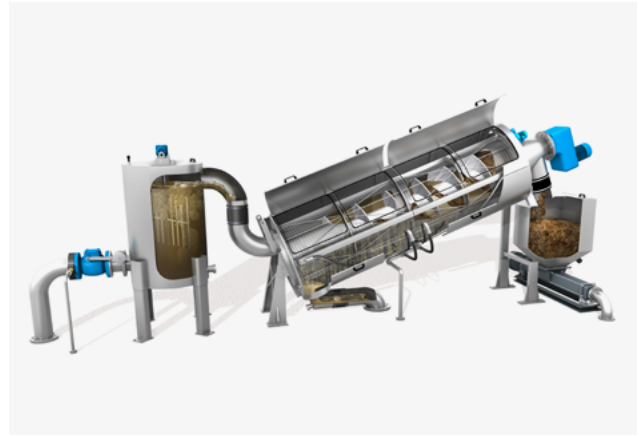
- ▶ compact, enclosed design
- ▶ efficient, reliable and easy to operate
- ▶ low operation and maintenance costs

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Design and function

A preceding flocculation reactor with stirrer ensures efficient sludge treatment in the HUBER Screw Thickener S-DRUM. The screw thickener consists of a cylindrical wedge section basket which retains the solids contained within the fed sludge. A screw, slowly rotating with variable speed, conveys the solids gently upward through the inclined basket. Water drains through the basket. The degree of thickening is adjustable by means of a height adjustable weir plate in the sludge discharge and the variable screw speed. A rotating spray bar cleans the wedge wire periodically from the outside during screw operation.



Sectional view of a S-DRUM size 4L.

Benefits

- ▶ sludge volume reduction by up to 80 %
- ▶ sturdy design for high solids loads and coarse material containing sludge
- ▶ maximum system availability due to the virtually wear-resistant and clog-free stainless steel wedge section basket
- ▶ high operational reliability due to the slow screw speed
- ▶ low power and spray water consumption
- ▶ no need for lubrication
- ▶ completely encapsulated, odour-free plant
- ▶ no vibration
- ▶ low noise < 68 dB(A)



Two HUBER Rotary Screw Thickener S-DRUM units for 80 m³/h.

Data

Thickening results > 7 % DR are achieved in typical municipal applications with a polymer consumption of 3 – 5 g/kg. Power consumption is only 35 W/m³, spray water demand only approx. 25 l/m³. Different system sizes are available for throughputs from 20 to 100 m³/h per unit.

More than 700 installations worldwide prove the reliability HUBER Rotary Screw Thickener S-DRUM.



Eight screw thickeners handling 600 m³/h.

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