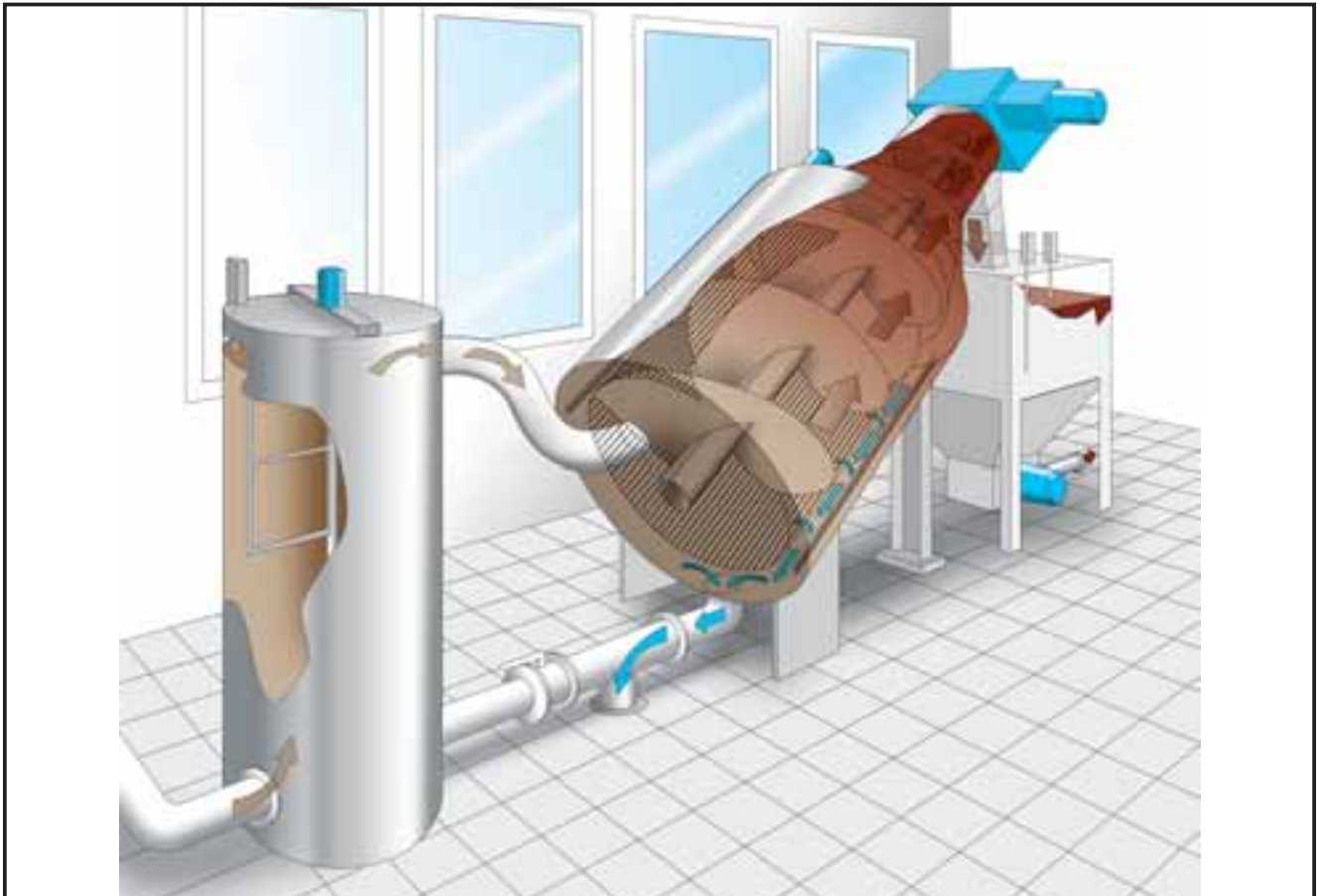


ROTAMAT® Screw Thickener RoS 2

Effectively Improved Performance of Digesters



- Improved efficiency of digesters and increased biogas yield
- Reduced size of sludge storage tanks
- High efficiency – high separation capacity, clear filtrate, maximum solids retention
- The closed system eliminates production of aerosol and odor.
- Fully automatic continuous operation reduces operator attention to a minimum.
- The plant is flexibly applicable, also as a mobile unit.

HUBER... The Systems Supplier for Sludge Treatment

The necessity for continuous sludge thickening

Further treatment of thin sludge without prior mechanical pre-thickening causes problems. Especially the efficiency of digesters is poor with low-concentration thin sludge and unnecessarily big volume digesters and storage tanks would be required.

Applications of the Screw Thickener:

- Primary sludge (mechanical preliminary treatment)
- Secondary sludge (activation, secondary clarification)
- Tertiary sludge (precipitation, flocculation)
- Digested sludge
- Combined sludge
- Sludge from numerous types of industrial wastewater
- Fine particles of process water

The solution:

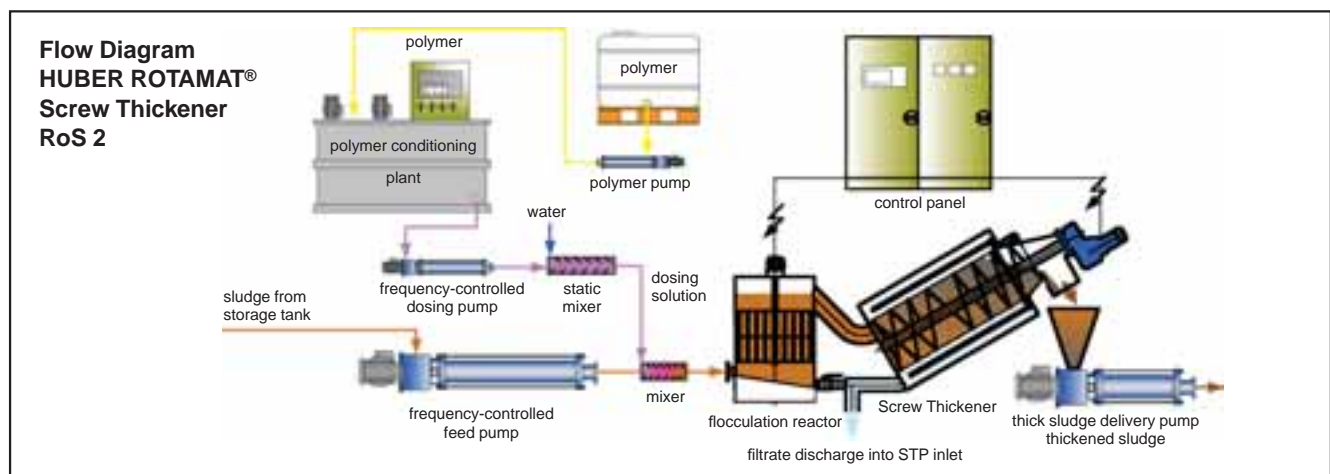
Screw Thickener for continuous sludge thickening

The sludge to be processed is pumped into the Screw Thickener by a delivery pump. The ready-to-use polymer is continuously prepared in a conditioning plant and added to the sludge proportionally to the solids amount. Intensive mixing is achieved by the special HUBER injection and mixing system in the sludge line.

A preceding flocculation reactor with stirrer ensures a sludge flock quality that allows thickening of the stabilized flocks.



While the sludge is gently conveyed along a cylindrical stainless steel wedge wire by a slowly operating screw conveyor, the filtrate is discharged through the wedge wire. Wedge wire cleaning is performed during screw operation by means of brushes on the screw flights and intermittent washing from the outside. The thickened sludge is introduced into a storage tank prior to being passed on to further treatment by a delivery pump.



We offer for your benefit:

- Low wash water demand due to discontinuous wedge wire cleaning
- Low energy demand
- Wear is reduced to a minimum and noise eliminated due to the low speed of the screw conveyor - high operational reliability

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Subject to technical modification

ROTAMAT®
Screw Thickener

RoS 2