

# ROTAMAT® Screw Thickener RoS 2

THE ORIGINAL  
ROTAMAT®!!!



Screw thickener for municipal and industrial sludge

- compact and entirely enclosed
- efficient and reliable operation with minimum operator attendance
- low operation and maintenance costs
- made of stainless steel, pickled in acid bath



## ►► Features

Thin sludge is pumped to the flocculation reactor of the screw thickener. A polymer station prepares a polymer solution from powder or liquid polymer. The diluted polymer is introduced through a dosing ring into the feed sludge, and is intensively mixed with the sludge in a static inline mixer.

Strong sludge flocs are formed in the agitated flocculation reactor where the flocculated sludge overflows into the screw thickener.

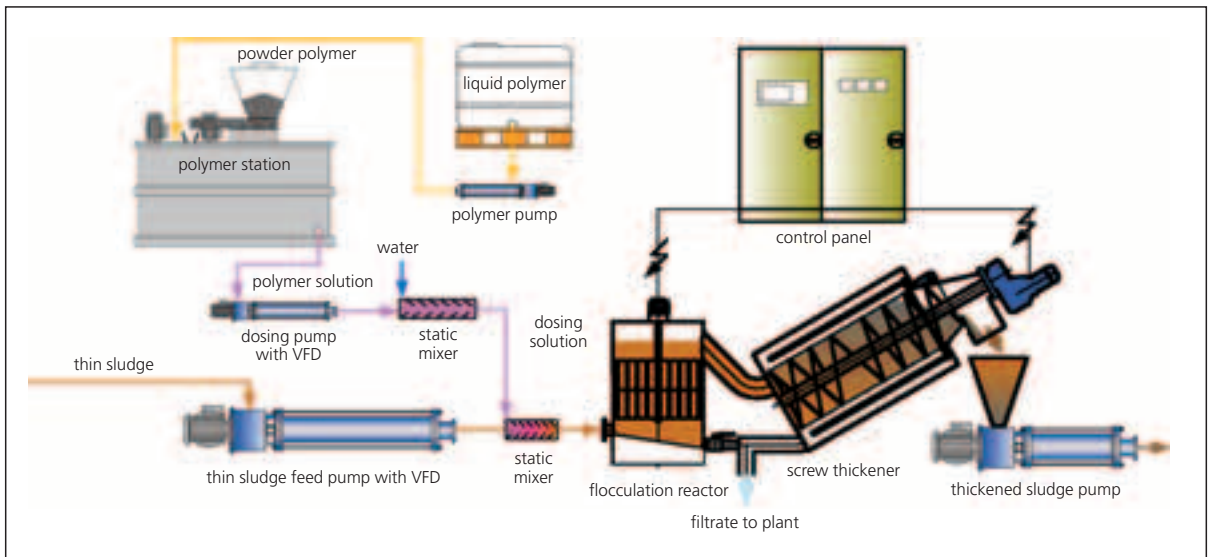
The screw thickener is comprised of an inclined wedge section basket with a 0.01" (0.25 mm) spacing. A screw, slowly rotating with variable speed, conveys the sludge gently upward through the inclined basket. Water drains through the basket. The screw flights are provided with a brush for continuous internal cleaning of the wedge section basket. Periodically the wedge section basket is also cleaned with spray water from the outside. Spray bars rotate around the basket, but within the machine.

The screw pushes the thickened sludge to the upper end of the wedge section basket where it drops

through a chute into the thickened sludge pump that forwards it to further treatment.

## ►► Benefits

- Coarse material does not impair the machine and its operation
- Fully enclosed system prevents odor nuisance and health & safety hazards
- No noise, no vibration
- No need for wash-down
- Little operator attendance due to fully automatic operation
- Low power, polymer and wash water consumption
- Low operating costs
- Little wear and maintenance
- Made of stainless steel, pickled in an acid bath for perfect finishing and corrosion protection



## ►► Performance

- Thick sludge solids: 4 to 8 %\*
- Hydraulic capacity: Up to 350 gpm (80 m<sup>3</sup>/h)\*\*

- Solids capacity: Up to 1,600 lb/h (720 kg/h)\*\*
- Solids capture rate: > 95 %\*

\* common municipal wastewater sludge  
\*\* per screw thickener

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Subject to technical modification

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