

ROTAMAT® Disk Thickener RoS 2S

THE ORIGINAL
ROTAMAT®!!!



Disk thickener for municipal and industrial sludge

- for up to 80 gpm of thin sludge per unit
- fully enclosed unit with small footprint
- reliable operation with minimum operator attention
- low operation and maintenance costs
- made of stainless steel, pickled in acid bath



►► Applications

Large quantities of thin sludge are generated in municipal and industrial wastewater treatment plants and waterworks. The cost of sludge treatment is tremendously reduced by sludge thickening, and/or its effectiveness is improved. Our thickeners are used to reduce the volume of various types of thin sludge:

- primary sludge (after screening)
- secondary sludge (waste activated sludge or trickling filter sludge)
- tertiary sludge (generated by precipitation and flocculation)
- mixed raw sludge
- sludge removed from industrial wastewater
- sludge from treatment of process water
- sludge from water works

►► Features

We developed our RoS 2S Disk Thickener to make sludge thickening affordable for small to medium size plants. Each unit can process up to 80 gpm of thin sludge. 24/7 operation is possible due to its fully automatic operation. For higher capacity please see our RoS 2 Screw Thickener.

An inclined filter disk ① slowly rotates within the closed tank of the Disk Thickener. The disk continuously rotates through its highest 12 o' clock and its lowest 6 o' clock positions. The filter cloth is backwashed with a spray bar ② at 1 o' clock. Thin sludge ③, after being flocculated with polymers, is fed on the disk at 2 o' clock. The sludge moves down and then up through a pre-thickening zone ④ extending from about 4 to 8 o' clock where a puddle forms pushing drain water through the filter cloth. Plows are installed in the thickening zone ⑤ between 8 and 11 o' clock where a sludge layer on the disk has been lifted out of the slurry. The plows divide and move the sludge layer on the disk and open up furrows so that water can easily drain through the filter cloth. Finally, at 12 o' clock, a scraper ⑥ pushes the thickened sludge from the disk. The thickened sludge drops down through a chute ⑦ into a tank or directly into the hopper of a pump.

Filtrate ⑧ is collected in the bottom of the tank and can be recycled as spray water for filter cloth washing.

We also include sludge pumps and the polymer station in our complete packages.

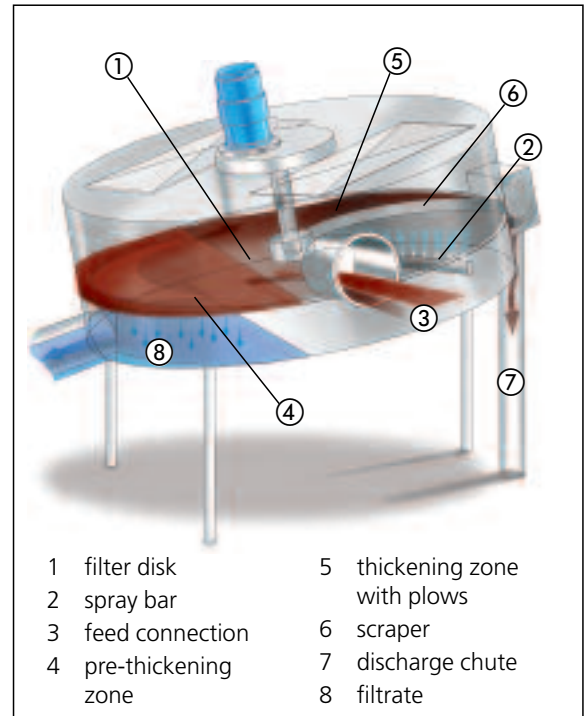
►► Performance

- Volume reduction: Up to 90 %
- Thick sludge solids: 4 to 8 % *
- Hydraulic capacity: Up to 90 gpm (20 m³/h)**
- Solids capacity: Up to 440 lb/h (200 kg/h)**
- Solids capture rate: > 97 % *

* common municipal wastewater sludge
** per disk thickener

►► Benefits

- Compact unit with small footprint
- Full enclosure prevents odor nuisance and health & safety hazards
- No noise, no vibrations
- No need for wash-down
- Little operator attention due to fully automatic operation
- Little wear and maintenance
- Low power, polymer and wash water consumption
- Low investment and operating costs
- Short amortization
- Made of stainless steel for long life
- Pickled in an acid bath for perfect finishing and corrosion protection



HUBER TECHNOLOGY, Inc.

9805 NorthCross Center Ct.
Suite H
Huntersville, NC 28078

Phone: (704) 949 - 1010

Fax: (704) 949 - 1020

huber@hhusa.net

<http://www.huber-technology.com>

Subject to technical modification

ROTAMAT®
Disc Thickener
RoS 2S