



Rotary Drum Thickener



The **RDT** is a simple, time-proven design for thickening sludge in a compact footprint:

- Reduce digester volume
- Minimize liquid hauling costs
- Pre-thicken ahead of dewatering



**Industry Leader in Design and Manufacture
of Thickening, Dewatering, and Composting Systems.**

Rotary Drum Thickener

UNIQUE IN THE INDUSTRY

- Fully stainless steel, tubular frame construction
- Drum composed of 5 to 10 thickening zones with customizable drainage media for each zone
- Drainage media available as stainless steel or polyester fabric
- Easily removable large side panels with lifting handles
- Lower inspection covers are hinged for ease of access to the enclosure
- Automatic & Continuous – Designed to operate without operator attention

- Fully enclosed for odor control and reduced cleanup
- Internally baffled design eliminates short-circuiting and maximizes contact time with drainage media
- Drainage rates easily observed for each Thickening Zone, allowing the operator to optimize polymer dosage and solids capture
- The Initial Thickening Zone is sealed to provide flocculation time and maximum solids capture
- Filtrate Recycle option available to reduce water usage and filtrate flow
- Adjustable angle, self-cleaning shower cleans the drainage media during each revolution



Centershaft / Disc Assembly:

Supported by a **cam follower bearing assembly** on one end and by a **gearbox drive assembly** on the other.

This arrangement keeps the bearing from being exposed to the process.



OPTIMIZED FILTRATION

Variable speed allows the operator to increase or decrease retention time in the rotary drum thickening zones, controlling the discharge solids content with a minimal polymer dosage and maximized solids capture. The internally baffled design allows the unit to handle very high hydraulic loads without flow short-circuiting through the drum. The internal discs are specially designed to handle debris without plugging or ragging.

When higher throughput is required, BDP offers a Dual Drum design, with two drums operating in parallel, inside the same enclosure, with common feed and discharge. Dual Drum design provides redundancy in one unit, allowing one drum to operate while maintenance is performed on the other drum.

Originally designed in 1978, the Rotary Drum Thickener from BDP Industries is constantly improved with valuable feedback from Operations and Maintenance staff. Hundreds of installations have proven their worth, efficiency and reliability on all sludge types. Rotary Drum Elements are made in 3' and 4' diameters and lengths up to 10'.



Filtrate Through Drum Media

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