

Rotary Drum Concentrator

An alternative to a Gravity Belt Thickener when there is limited space or less demanding performance requirements

Each Rotary Drum Element is composed of five stainless steel discs supported off a center shaft. The shaft rotates in externally mounted bearings, to prevent contamination from the slurry. Slurry is conveyed through the RDC with a spiral screw assembly attached to the five discs. Filter cloth is wrapped around the perimeter of the five discs and held in place with stainless steel bands; forming the rotary drum. Feed enters the RDC from an overflow weir tank/ launder assembly.



Rotary Drum



Stainless Steel Drip Pan

Filtrate is collected in a stainless steel drip pan below the rotary drum. Thickened slurry flows out the open end of the Rotary Drum and down a chute

deflecting it away from the filtrate pan. A shaft mounted gear reducer motor and torque arm drives the rotary drum on the outboard center shaft. A Variable Frequency Controller controls rotating speed of the drum.

An adjustable angle, self-cleaning shower cleans the filter cloth during each revolution.



Cloth Shower



Slurry Discharge

The ADVANTAGES of an RDT are:

- ***Lower space requirement and lower capital cost than a GBT.***
- ***Essentially no operator attention required.***



Two Drums with a Common Feed and Discharge