Rotary Drum Thickener

Industry Leader in Design and Manufacture of Filtration Equipment

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Each Rotary Drum Element is composed of five stainless steel discs supported off a center shaft. Polyester fabric is then wrapped around these discs and held in place with stainless steel bands. 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. Because the openings in the five discs are offset, the speed at which the drum rotates determines the slurry depth and the amount of filter area the slurry is exposed to (see photos at left). This feature provides for more effective filtration area.

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

Rotary Drum Elements are made in 3' and 4' diameters and lengths up to 10'.

If higher throughput is required two drums can be operated in parallel with a common feed and discharge.
## Typical Performance Results

**GBT Belt Filter Press**

<table>
<thead>
<tr>
<th>Type of Sludge</th>
<th>Feed Conc. WT%</th>
<th>Thickened Discharge Conc. WT%</th>
<th>Loading Rate GPM/m Belt Width</th>
<th>Sludge Volume Reduction, %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste Activated Sludge</td>
<td>0.5 - 0.9</td>
<td>3.5 - 4.5</td>
<td>100 - 150</td>
<td>75 - 80</td>
</tr>
<tr>
<td>Primary</td>
<td>3 - 5</td>
<td>5 - 10</td>
<td>40 - 70</td>
<td>45 - 75</td>
</tr>
<tr>
<td>Primary/WAS</td>
<td>0.8 - 2</td>
<td>5 - 8</td>
<td>80 - 130</td>
<td>75 - 80</td>
</tr>
</tbody>
</table>

*There are too many types of slurries for this industry to generalize. BDP Industries has many installations. Please call factory for details.*

*The representative performance values in the table can fluctuate substantially and are provided only for estimating purposes.*
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