The FOURNIER PRESS is in the forefront of municipal and industrial sludge dewatering technology. The principle of operation is simple. Sludge is fed into a rectangular channel, and rotates between two parallel revolving stainless steel chrome plated screens. The frictional force of the slow moving screens, coupled with the controlled outlet restriction, results in the extrusion of a very dry cake.

The FOURNIER ROTARY PRESS has been widely adopted for the disposal of such materials as sludge, paper mill waste, foundry sand, recovery ash, steel pickle sludges, and any other material that can be filtered and dewatered to a dry cake form.

The benefits derived from using the FOURNIER ROTARY PRESS have been well documented and are translated into huge savings for the customer by means of performance, operation and maintenance.

Optimum-CV Rotary Press Dewatering...

Municipal and Industrial Waste Water Applications

Polymer feed systems

A wide variety of manual and fully automatic liquid and dry-powder polymer feed systems are available. Off-the-shelf units as well as custom systems respond to every customer's individual needs. From the smallest flow to clarifier-feed systems, any flow rate can be achieved and shipped at your site for inclusion with your dewatering system.

Shaftless screw conveyors

Custom engineered for your application, hollow-flight or shaftless screw conveyors can be fitted with any accessory for full-scale automation. Standard screw sizes from 8” to 30” allow a variety of feed rates for different sludge sizes.

Sludge blenders and other accessories

Having many years of custom fabrication experience, our engineering staff can tackle any project and provide a complete package solution for your biosolids handling application.

Expertise since 1960

Fournier Industries Inc. has been manufacturing machinery since 1960. At our local office and factory, located in the Quebec mining area, we continue to provide quality products and service to a wide range of international customers.

Spare Parts Inventory

Fournier Industries Inc. maintains a full inventory of spare parts for all models of our Rotary Press. Our parts department can ship orders for next day delivery within much of continental North America.

Machining Capability

Many large multi-function machining centres are available for custom fabrication of your Rotary Press. Our machining department can ship orders for next day delivery, and can fabricate any component to your specifications.

Production Capabilities

Parts for Rotary Presses are produced in series. This allows us to reduce production costs and improve quality of the individual components.

Super Pack Systems

Fournier Industries Inc. supplies complete systems. With existing components and accessories, your Rotary Press can be adapted to suit your needs. Whether you require a shaftless screw conveyor, or specifically designed sludge blenders, all components can be supplied to suit your application.

Maintenance Quality

Many large multi-function machining centres are available for custom fabrication of your Rotary Press. Our maintenance department can ship orders for next day delivery, and can fabricate any component to your specifications.
**Principle of operation**

The Fournier CVO optimum rotary dewatering press is the latest development in twenty-year history of the technology. Winner of the 2002 WEF Outstanding Technology Award, this Canadian invention has undergone several upgrades over the years.

From the first version, involving a large rotating mechanism, filtering cake, and motor, the rotating technology has continued to improve. Similarly, earlier versions of the rotating dewatering press required very little supervision. It is an only dewatering technology that is safe for stand-alone automatic operation and can be monitored and operated by service personnel.

**How it works...**

Sedimented sludge flows into a space between two parallel filtering screens. As the fine liquor escapes away from the sludge, solid residue accumulates to the sludge and excess pressure is generated against the outlet gate.

After the filtering screens separate, the sludge passes through enough back pressure to dewater the remaining solids and extrude a dry cake.

The Fournier CVO optimum rotary dewatering press translates into lower operating costs. The fine residue generated by the dewatering press is the latest development in twenty-year history of the technology. Winner of the 2002 WEF Outstanding Technology Award, this Canadian invention has undergone several upgrades over the years.

ADVANTAGES

- **Totally enclosed**
- **Low power consumption**
- **Low odor levels**
- **Small footprint**
- **New hydraulized 36” dia channel surpasses previous models**
- **Low speed**
- **Little maintenance**

**Operation**

- Continuous process
- Equipment easily accessible and easy to maintain
- Easy disassembly and clean-down procedures
- Dry simple to operate
- Requires very little supervision
- Use completely automated and remotely controlled

**Maintenance**

- Robust construction
- Small number of mechanical parts
- Wear-resistant speed and pressure equipment
- Automatic fill/flushing of self-cleaning cycle (optional)

**Economy**

- Saving on food disposal costs
- Minimal space requirements
- Reduced labor costs
- Low maintenance costs
- **Minimal space requirements**

**Specifications**

<table>
<thead>
<tr>
<th>Spec</th>
<th>Model No.</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>Lb (kg)</td>
<td>91,3 (2320)</td>
<td>92,8 (2358)</td>
<td>79,0 (2007)</td>
<td>77,5 (1969)</td>
<td>72,0 (1830)</td>
<td>64,6 (6,00)</td>
</tr>
<tr>
<td>Motor</td>
<td>HP (kW)</td>
<td>10,8 (1,00)</td>
<td>10,5 (0,75)</td>
<td>10,8 (1,00)</td>
<td>10,8 (1,00)</td>
<td>10,8 (1,00)</td>
<td>10,8 (1,00)</td>
</tr>
<tr>
<td>Gear Unit</td>
<td>Lb (kg)</td>
<td>15,0 (11,1)</td>
<td>15,0 (11,1)</td>
<td>15,0 (11,1)</td>
<td>15,0 (11,1)</td>
<td>15,0 (11,1)</td>
<td>15,0 (11,1)</td>
</tr>
<tr>
<td>Components</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3-900/3000CV</td>
<td>2-900/2000CV</td>
<td>1-900/1500CV</td>
<td>1-600/900CV</td>
<td>1-600/900CV</td>
<td>1-600/900CV</td>
<td></td>
</tr>
</tbody>
</table>

**Process schematic**

The Fournier CVO optimum rotary dewatering press is the latest development in twenty-year history of the technology. Winner of the 2002 WEF Outstanding Technology Award, this Canadian invention has undergone several upgrades over the years. From the first version, involving a large rotating mechanism, filtering cake, and motor, the rotating technology has continued to improve. Similarly, earlier versions of the rotating dewatering press required very little supervision. It is an only dewatering technology that is safe for stand-alone automatic operation and can be monitored and operated by service personnel.