



**MUNICIPAL AND INDUSTRIAL  
DEWATERING APPLICATIONS**

# **ROTARY PRESS**

## **OPTIMUM-CV**





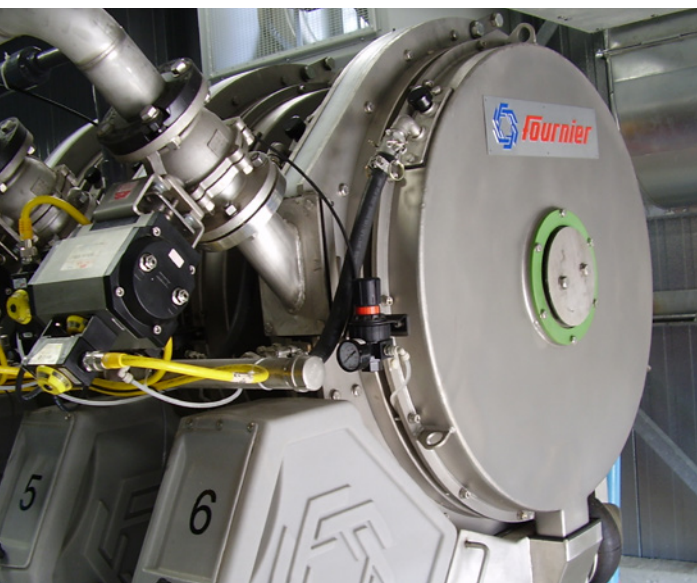
Fournier Industries Inc. has specialized in mechanical equipment manufacturing since 1960. The company's technical abilities and expertise involve product design, lab and pilot testing, commissioning and training.

## ROTARY PRESS TECHNOLOGY

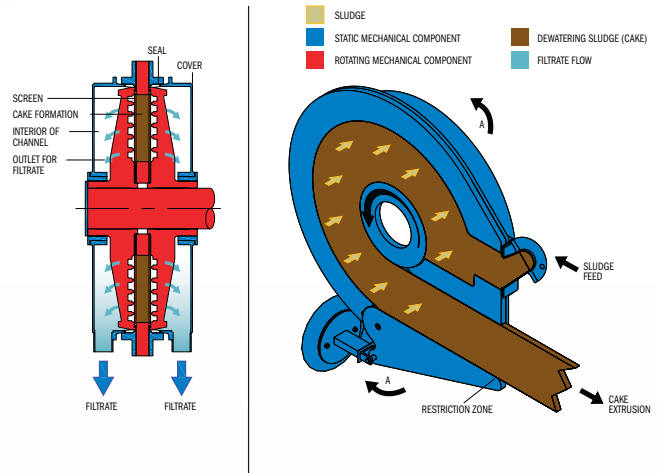
Fournier Industries Rotary Press technology is at the forefront of municipal and industrial sludge dewatering, the result of continuous improvement and R&D.

Due to its reliability and simplicity, the Fournier Rotary Press requires minimal supervision. It is the only dewatering technology that is safe for stand-alone automatic operation and can be monitored and operated by remote control.

The benefits derived from using the Rotary Press have been well documented and result in lower operating costs for the customer through its high performance, easy operation, reduced polymer usage, low power consumption and low maintenance.



## Principle of operation



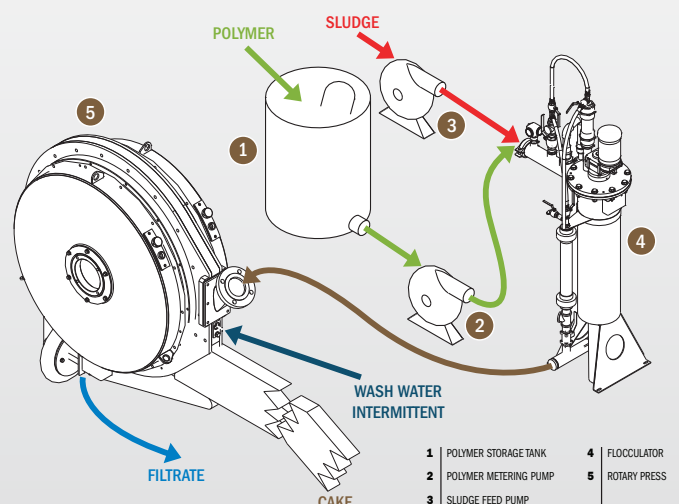
## HOW IT WORKS...

The principle of operation is simple. Sludge is fed at low pressure into the channel and rotates between two parallel revolving stainless steel chrome plated filtering elements.

As free water passes through the screens, the sludge continues to dewater as it travels around the channel. The flocculated sludge builds up solids until enough pressure is generated against the outlet restricted arm.

The frictional force of the slow-moving filtering elements, coupled with controlled outlet restriction, generates enough back pressure to dewater the remaining solids, resulting in the extrusion of a very dry cake.

## Process schematic





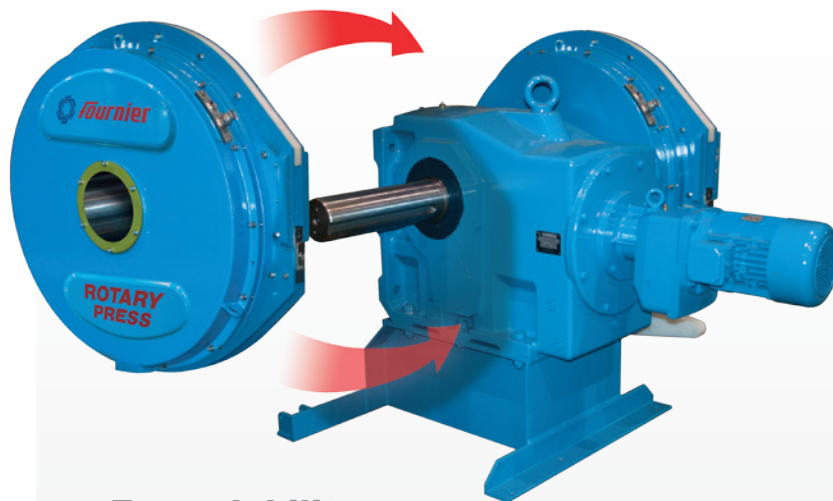
# THE ROTARY PRESS CV-OPTIMUM

The Fournier Rotary Press, CV-optimum is the latest development in dewatering technology.

Winner of the 2002 WEF Innovative Technology Award, this Canadian invention has undergone several upgrades over the years.

A single-width channel is able to dewater all varieties of sludge, allowing a single press to be used anywhere, without any physical modification.

To ensure that our customers always get the parts they need quickly & affordably, Fournier Industries maintains a large inventory of spare parts.



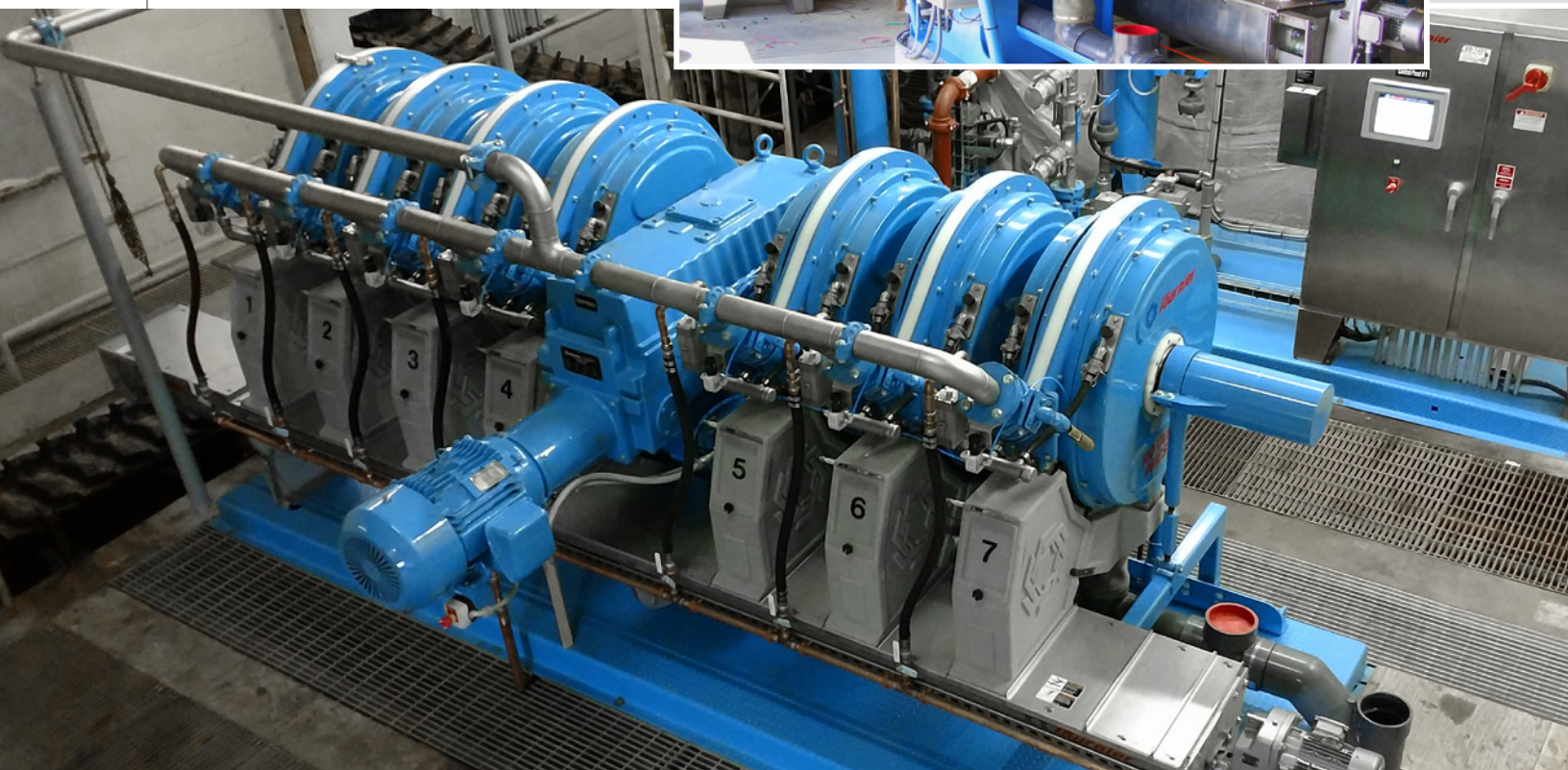
## Expandability

Another unique feature of the Rotary Press is the ability to order units that can be expanded at a future date. This allows customers to benefit from lower capital costs at time of purchase and expand according to need. Any combination of channels can be obtained, up to maximum of 8 channels per press.



**MORE THAN 450 INSTALLATIONS  
WORLDWIDE**

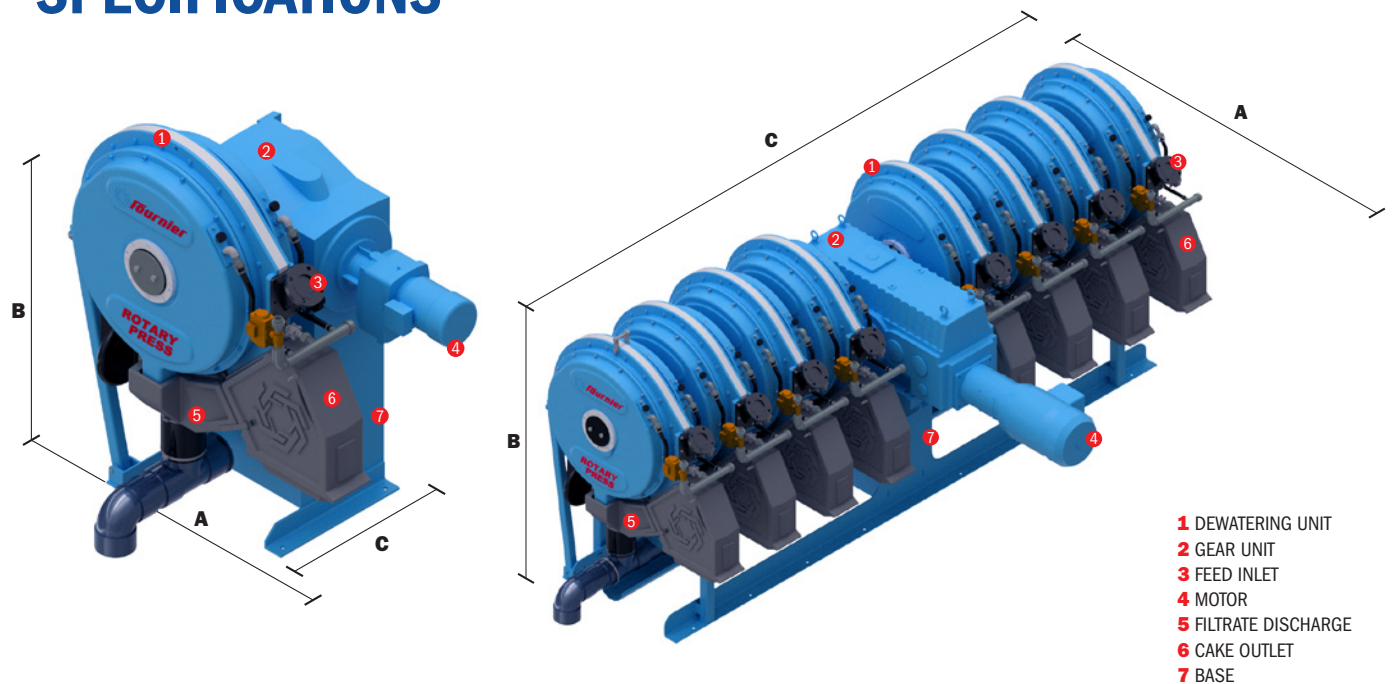
**TURNKEY SYSTEMS DELIVERED ON SKID, FOR SIMPLE,  
FAST AND ECONOMIC INSTALLATION**







## SPECIFICATIONS



| MODEL NO.    | MODEL   | DIMENSIONS In. (mm) |             |              | WEIGHT<br>Lb (kg) | MOTOR<br>HP (kW) |
|--------------|---------|---------------------|-------------|--------------|-------------------|------------------|
|              | CHANNEL | A                   | B           | 0.9788 IN    |                   |                  |
| 1-900/1000CV | 1       | 70.3 (1785)         | 72.0 (1830) | 40.5 (1028)  | 3966 (1799)       | 5.0 (3.7)        |
| 2-900/2000CV | 2       | 77.5 (1969)         | 72.0 (1830) | 64.8 (1646)  | 6854 (3109)       | 7.5 (5.6)        |
| 3-900/3000CV | 3       | 79.0 (2007)         | 72.0 (1830) | 85.8 (2180)  | 8498 (3855)       | 10.0 (7.5)       |
| 4-900/4000CV | 4       | 91.3 (2320)         | 75.4 (1915) | 101.6 (2580) | 10280 (4663)      | 15.0 (11.1)      |
| 5-900/5000CV | 5       | 92.8 (2358)         | 75.4 (1915) | 123.0 (3124) | 12235 (5550)      | 20.0 (15.0)      |
| 6-900/6000CV | 6       | 92.8 (2358)         | 75.4 (1915) | 144.4 (3668) | 13649 (6191)      | 20.0 (15.0)      |
| 7-900/7000CV | 7       | 94 (2388)           | 79 (2007)   | 176 (4471)   | 17409 (7913)      | 30.0 (22.5)      |
| 8-900/8000CV | 8       | 94 (2388)           | 79 (2007)   | 187 (4750)   | 18820 (8555)      | 30.0 (22.5)      |

\*VARIES AS PER INSTALLATION LAYOUT



## Advantages of operation

- Continuous process
- Equipment totally enclosed, reduced airborne contaminants & odors
- Easy start-up and shut-down procedures
- Very simple to operate
- Minimal supervision required
- Completely automated and can be remotely controlled

## Maintenance

- Robust construction
- Small number of mechanical parts
- Slow rotation speed (0.2-2 rpm)
- Reduced corrosive exposure to nearby equipment
- Automated self-cleaning cycle
- Little maintenance

## Economy

- Savings on final disposal costs (high dryness)
- Minimal space requirements (small footprint)
- Low maintenance costs
- Reduced labor costs
- Low energy consumption
- Low water usage



## ACCESSORIES & MORE

We have developed a wide variety of **customized accessories** for virtually any layout.

Custom-engineered systems for **total plant automation**, catering to every customer's individual needs.

Our engineering team will tackle any project and provide **complete package solutions** for any biosolid handling.

With a host of features tailored to your requirements, Fournier allows you to optimize your business operations.

### ■ Containerized & skid mounted units

- Complete turnkey projects
- Containerized projects

### ■ Polymer feed systems

- Liquid or dry-feed polymer
- Manual or fully automated

### ■ Shaftless screw conveyors

- Screw sizes from 9" to 18"
- Lengths from 5ft to 200ft

### ■ Sludge pumps & other accessories

- Equipment of any size can be quickly assembled and shipped to your site.







## LABORATORY AND PILOT TESTING

In order to determine the size that meets your needs, we strongly recommend taking advantage of our **Free** laboratory tests.

These steps allow us to characterize sludge samples and to anticipate the performance of your Rotary Press, based on previous results in the same operation field.



## WHAT YOU SEE IS WHAT YOU GET!

Fournier Rotary Press performance testing can be demonstrated by means of our mobile units. Our use of a full-scale pilot unit defines the performance of the Rotary Press on your typical sludge. Using the information from the pilot gives us the exact performance data needed for any final installation design.



## ISO-9001:2015

Fournier Industries Inc. is an ISO-registered manufacturer, ensuring the highest level of quality control.



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US Patent 7,166,229