

## ACCESSORIES & MORE



### Polymer feed systems

A wide variety of manual and fully automatic liquid and dry-feed polymer 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 size can be quickly assembled and shipped to your site or included for delivery 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 total plant automation.

Standard screw sizes from 8" to 16" allow a variety of feed rates for different size systems.

Lengths from 10 ft to over 100 ft can be combined for virtually any layout.

### 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 to your biosolids handling application.

Truck bodies and customized mobile containers can be equipped with a host of features particular to your requirements, allowing you to optimize your operation for the most beneficial use.



### Expertise since 1960

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

US Patent 7,166,229

Your local representative

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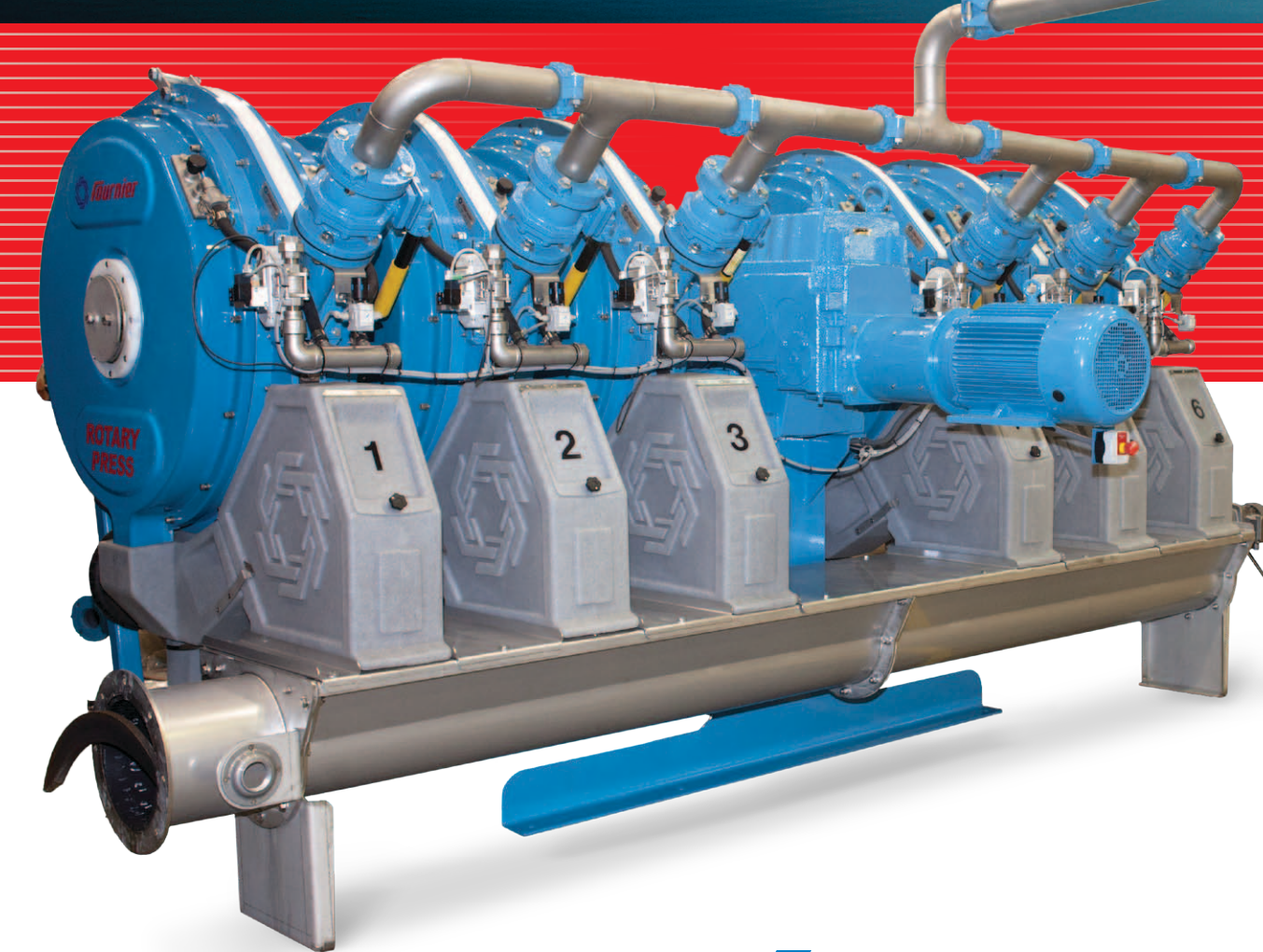
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# OPTIMUM-CV ROTARY PRESS DEWATERING...

## Municipal and Industrial Waste Water Applications



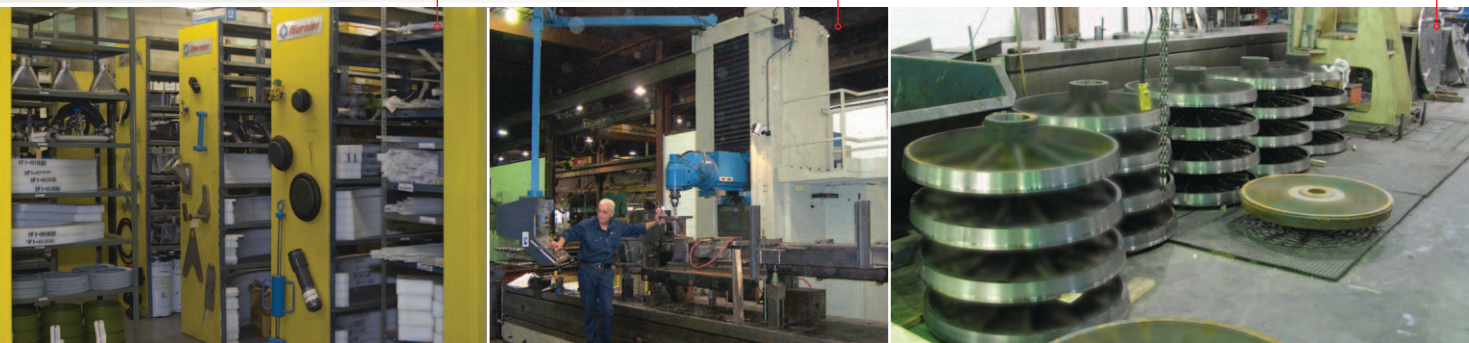
## THE FOURNIER PRESS TECHNOLOGY

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 filtrate passes through the screens as the flocculated sludge advances within the channel. The sludge continues to dewater as it travels around the channel, eventually forming a cake near the outlet side of the press.

The frictional force of the slow moving screens, coupled with the controlled outlet restriction, results in the extrusion of a very dry cake.

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.





## HOW IT WORKS...

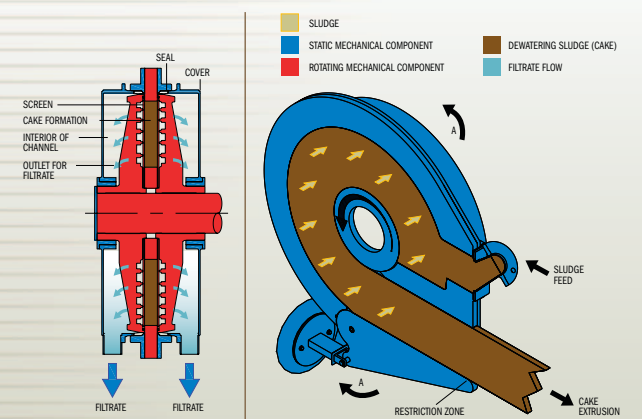
Sludge is fed at low pressure into a space between two parallel filtering elements.

As the free water comes away from the sludge, solids accumulate in the channel until enough pressure is generated against the outlet gate.

The filtering element's slow speed rotation generates enough back pressure to dewater the remaining solids and extrude a dry cake.

Low maintenance, low power consumption and reduced polymer usage translate into lower operating costs.

## Principle of operation



## ADVANTAGES

- > **Totally enclosed**
- > **Low odor levels**
- > **Low speed**
- > **Little maintenance**
- > **Low power consumption**
- > **Small footprint**
- > **New Optimized 36" dia. channel surpasses previous models**

### Performance

- Consistently high cake dryness
- Competitive throughput
- High capture rates
- Reduced airborne contaminants

### Operation

- Continuous process
- Equipment totally enclosed with reduced odor concerns
- Easy start-up and shut-down procedures
- Very simple to operate
- Requires very little supervision
- Can be completely automated and remotely controlled

### Maintenance

- Robust construction
- Small number of mechanical parts
- Slow rotation speed
- Reduced corrosive exposure to nearby equipment
- Automated 5 minutes/day self-cleaning cycle (optional)

### Economy

- Savings on final disposal costs
- Minimal space requirements
- Low maintenance costs
- Reduced labor costs
- Low energy consumption
- Low water usage



## THE NEW CV-OPTIMUM PRESS

The Fournier CV-Optimum Rotary Dewatering Press is the latest development in the 20-year history of the technology.

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

From the first version, involving a large shaft-mounted gear unit, large support bearings and base, the units are now manufactured with a 36" diameter dewatering channel that far surpasses earlier versions.

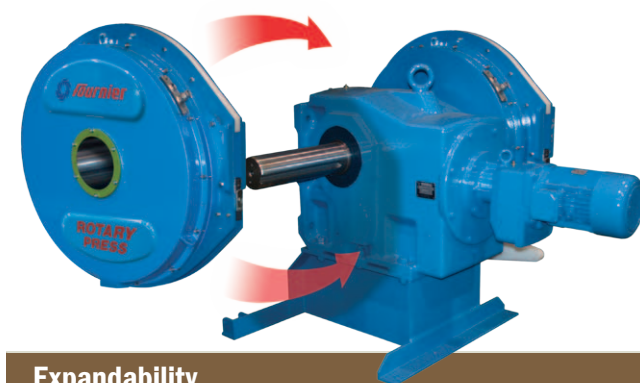
A single-width channel has now proven itself able to dewater all varieties of sludge, allowing a single machine to be used anywhere, without physical modification.

With more than 140 units installed and running in over a dozen countries, the Fournier Rotary Press is the market leader in its category.

A dedicated team of more than 160 employees approaches each new year as a challenge, charged with finding new ways to improve the current model without increasing costs.

A large parts inventory is maintained for all previous models of the Rotary Press, ensuring that customers who enjoy their own model year can rest assured they will always be able to obtain replacement parts.

Retro-fit kits are available for those customers wishing to upgrade their unit to the newest technology available.

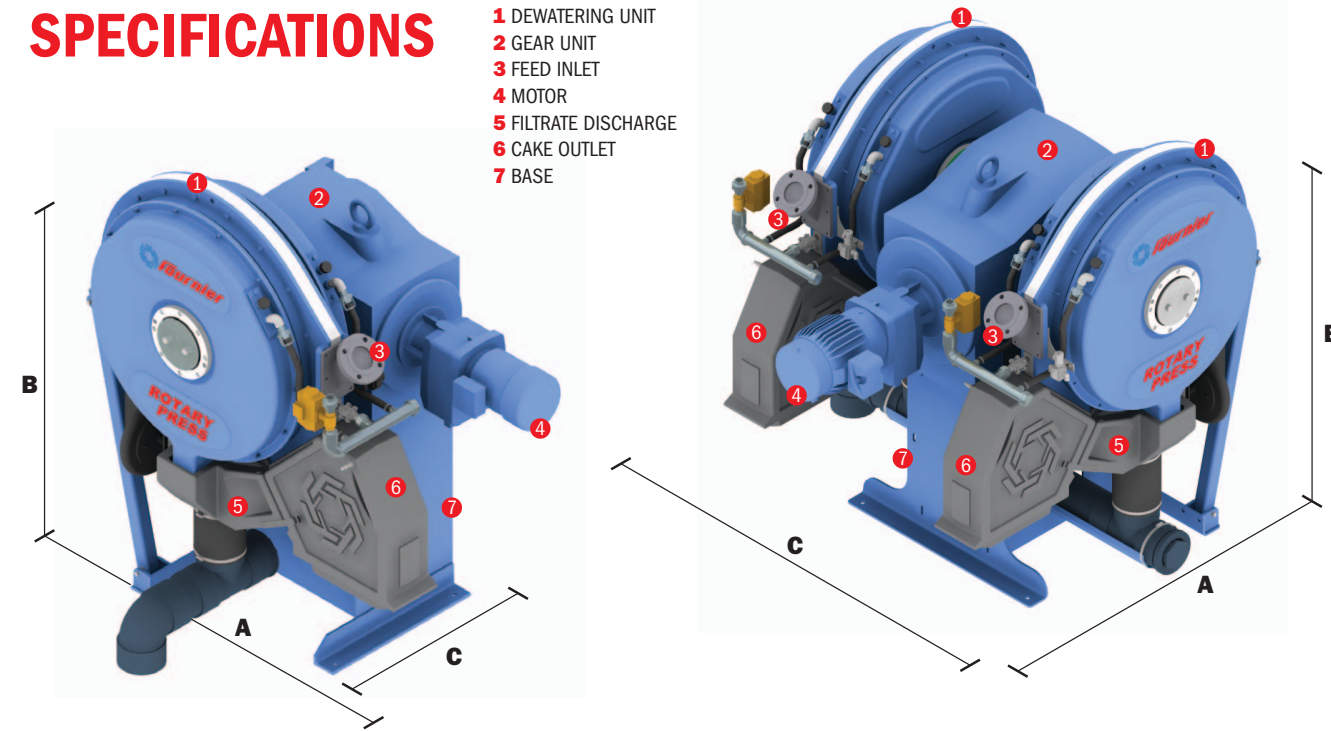


### Expandability

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 cost at time of purchase and flexible expansion as the need arises. Common configurations are 1 to 2 channel(s), 2 to 4 channel(s) and 4 to 6 channel(s); however any combination of channels can be obtained, up to the maximum of 6 channels per machine.



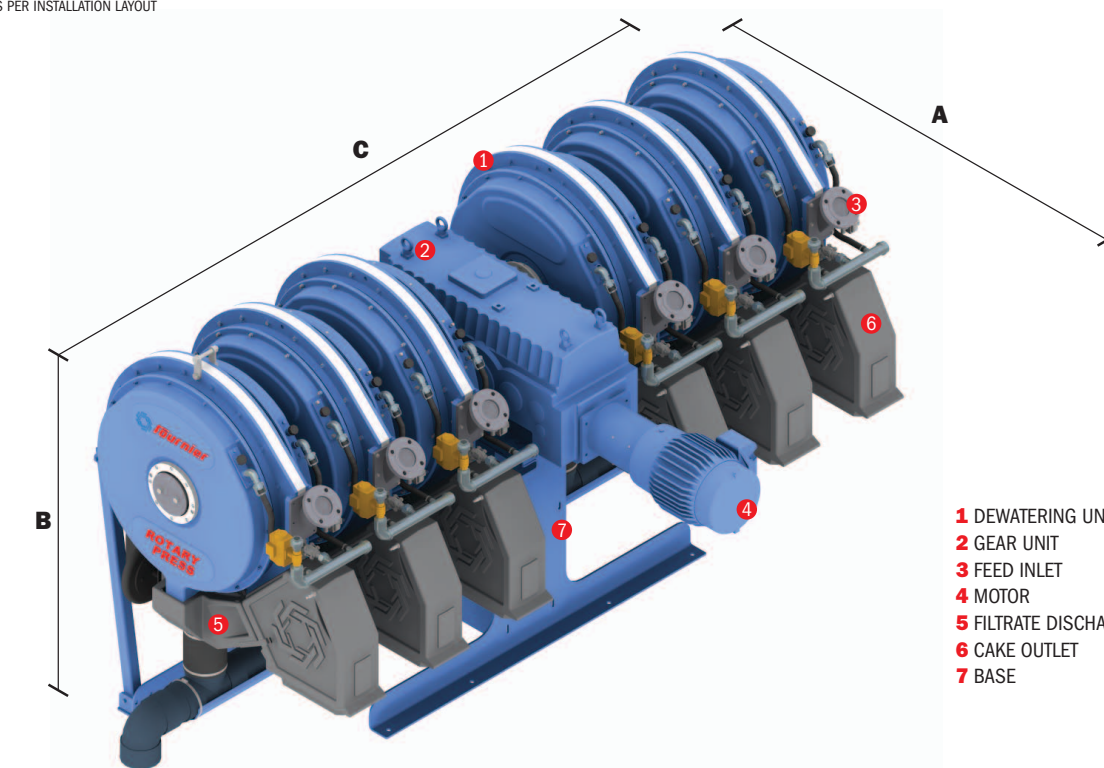
## SPECIFICATIONS



- 1 DEWATERING UNIT
- 2 GEAR UNIT
- 3 FEED INLET
- 4 MOTOR
- 5 FILTRATE DISCHARGE
- 6 CAKE OUTLET
- 7 BASE

MODEL NO.	MODEL		DEWATERING AREA Ft <sup>2</sup> (m <sup>2</sup> )	DIMENSIONS in. (mm)			WEIGHT Lb (kg)	MOTOR HP (kW)
	CHANNEL	WHEEL Ø In. (mm)		A	B*	C		
1-900/1000CV	1	36 (900)	10,8 (1,00)	70,3 (1785)	72,0 (1830)	40,5 (1028)	3966 (1799)	5,0 (3,7)
2-900/2000CV	2	36 (900)	21,5 (2,00)	77,5 (1969)	72,0 (1830)	64,8 (1646)	6854 (3109)	7,5 (5,6)
3-900/3000CV	3	36 (900)	32,3 (3,00)	79,0 (2007)	72,0 (1830)	85,8 (2180)	8498 (3855)	10,0 (7,5)

\*VARIES AS PER INSTALLATION LAYOUT



- 1 DEWATERING UNIT
- 2 GEAR UNIT
- 3 FEED INLET
- 4 MOTOR
- 5 FILTRATE DISCHARGE
- 6 CAKE OUTLET
- 7 BASE

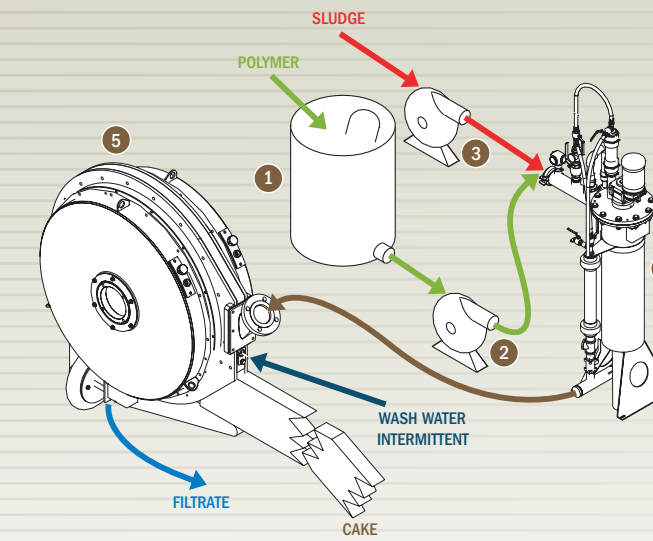
MODEL NO.	MODEL		DEWATERING AREA Ft <sup>2</sup> (m <sup>2</sup> )	DIMENSIONS in. (mm)			WEIGHT Lb (kg)	MOTOR HP (kW)
	CHANNEL	WHEEL Ø In. (mm)		A	B*	C		
4-900/4000CV	4	36 (900)	43,1 (4,00)	91,3 (2320)	75,4 (1915)	101,6 (2580)	10280 (4663)	15,0 (11,1)
5-900/5000CV	5	36 (900)	53,8 (5,00)	92,8 (2358)	75,4 (1915)	123,0 (3124)	12235 (5550)	20,0 (15,0)
6-900/6000CV	6	36 (900)	64,6 (6,00)	92,8 (2358)	75,4 (1915)	144,4 (3668)	13649 (6191)	20,0 (15,0)

\*VARIES AS PER INSTALLATION LAYOUT



## CUTTING EDGE TECHNOLOGY

### Process schematic



- 1 Polymer Storage Tank
- 2 Polymer Metering Pump
- 3 Sludge Feed Pump
- 4 Flocculator
- 5 Rotary Press

Fournier Industries inc. specializes in the manufacturing of mechanical equipment and has done so since 1960. The company's technical abilities and expertise involve design, lab and pilot testing, commissioning and training. The FOURNIER PRESS' performance can be demonstrated through the use of our mobile units.

Resulting from many years of research and development, the technical advances implemented in the FOURNIER PRESS are well demonstrated in numerous applications throughout the world. Due to its reliability, the FOURNIER ROTARY PRESS requires very little supervision. It is the only dewatering technology that is safe for stand-alone automatic operation and can be monitored and operated by remote control.

Our utilization of a full-scale pilot eliminates the need for uncertain scale-up values in the final installation. What you see is what you get!

### ISO-9001 : 2000

Fournier Industries inc. is an ISO-registered manufacturer, assuring the highest level of quality-control. All parts are subjected to rigorous verification before they are installed in your machine.

