

# choosing the right technology

The Rotary Press is a versatile enclosed and sizeable equipment. There are a number of benefits the Rotary Press presents compared to the alternative technologies. The most common ones are highlighted here after.

|  | Rotary Press | Filter/Plate Press | Centrifuge | Belt Filter |
|--|--------------|--------------------|------------|-------------|
| <b>PERFORMANCE</b><br>Continuous process, cake dryness (levels, stable), solids capture          | **           | **                 | **         | *           |
| <b>OPERATING COSTS</b><br>Maintenance ops, use of resources (energy, polymer, water), monitoring | **           | *                  | *          | *           |
| <b>SCALABILITY</b><br>Sizeable equipment and space requirement                                   | ***          | *                  | **         | *           |



1 Charleston Plum Island Waste Water Treatment Plant (136 million litres/day) [USA]. Two 6-channels equipments. On-site testing was carried out using different technologies, leading to an objective context-specific assessment between the rotary press and well-known centrifuge brands. Based on cost, operation and maintenance and monitoring requirements analysis, the rotary press was adopted as the main dewatering equipment, to replace existing ageing equipments.

### Other examples

- 2 Repentigny Waste Water Treatment Plant [Canada]. Two 4-channels equipments.
- 3 Waste Water Treatment Plant [USA]. Two 6-channels equipments.

# fagoredergarden

**Fagor Edergarden** is dedicated to providing innovative solutions to municipalities and the private sector. Created by **Fagor Ederlan** and **Fagor Arrasate** to address the environmental market, the activity is developed through an existing structure across **EMEA** (Europe, the Middle East and Africa). **Fagor Ederlan** and **Fagor Arrasate** are well-established global providers of manufactured products, leaders in their respective fields. Qualified staff, lean-based production lines and experience in tool-machine manufacturing are the spine of their success. As part of **Mondragon corporation**, the projects are lead by people for people. **Fournier Industries Inc.**, founded in Thetford Mines (Canada) in 1960, the father of the **Rotary Press System**, entered the dewatering equipment market in the early 90's with the aim of revolutionising the industry and giving customers best-of-the-breed technology. The collaboration between **Fagor Edergarden** and **Fournier Industries** means more users can access this alternative solution to overcome operational issues identified on standard equipments, while supporting cost cutting initiatives.

## Sludge Dewatering Equipments Municipal and Industrial Applications

## partners

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# rotary press system

An improved total cost of ownership

## performance

- Consistent high cake dryness
- High rates of solids' capture

## highlighted features

- Flexibility with Scalability
  - Productivity
  - Progressive investment
- Independent channels
- Robust construction with good wear-resistance

## savings in

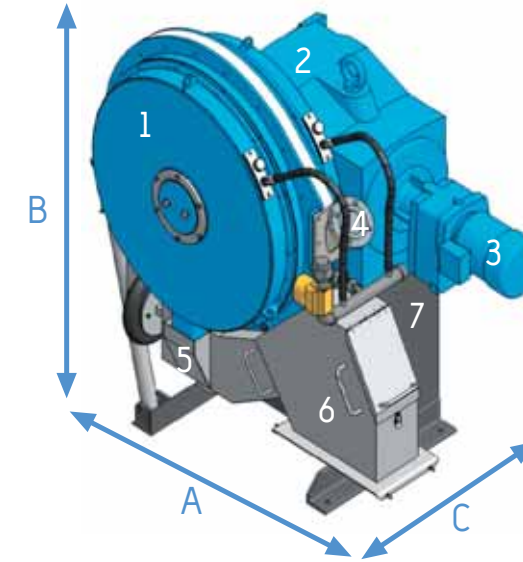
- Operating cost
- Final disposal costs
- Labour costs
- Power and water usage
- Chemicals consumption
- Footprint (space)

## operation and maintenance

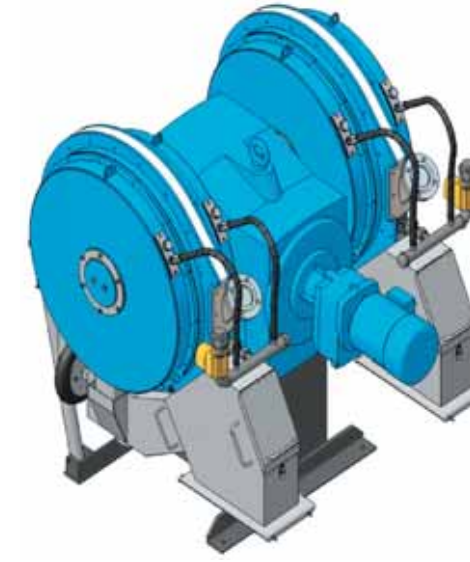
- Easy start-up and shut-down procedures
- Continuous process with little supervision requirement
- Can be fully automated and remotely controlled
- Slow rotation speed (less than 3 rpm)
- Increased lifespan for wear parts
- Totally enclosed with reduced odour concerns

## standard models

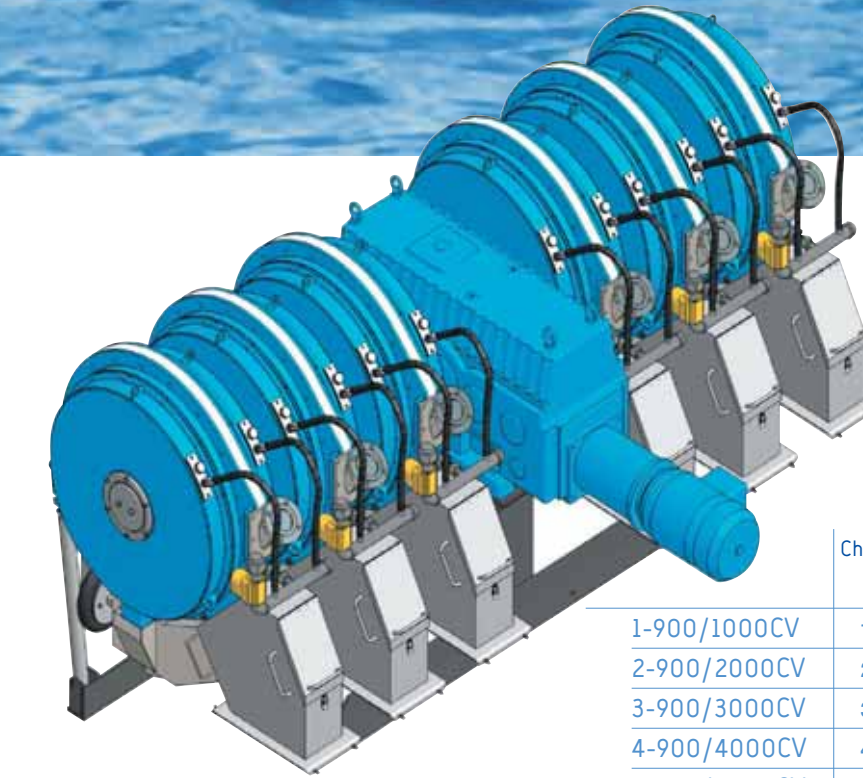
1. Dewatering unit
2. Gear unit
3. Motor
4. Feed inlet
5. Filtrate discharge
6. Cake outlet
7. Base



1 channel unit



2 channels unit



6 channels unit

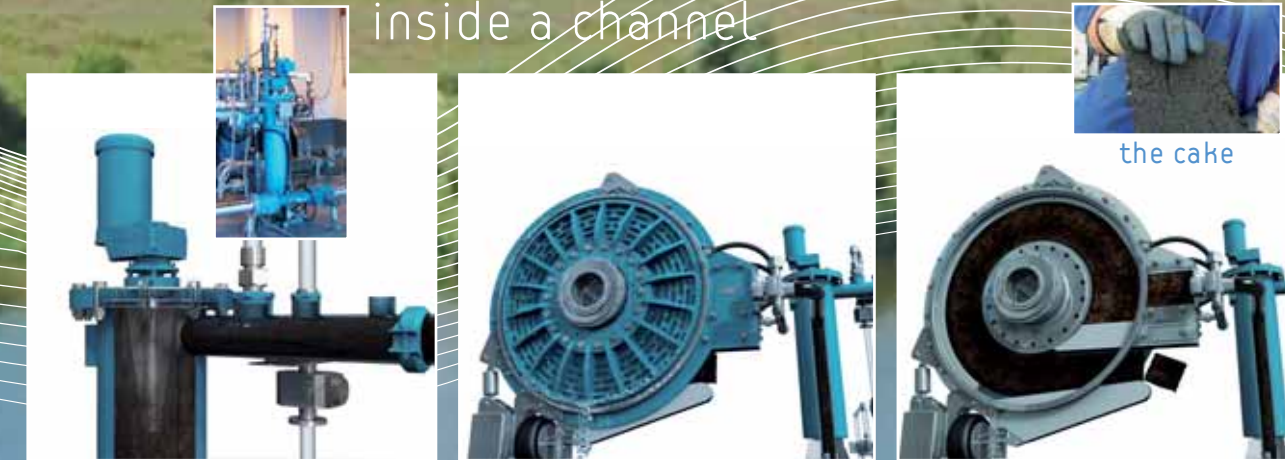
| Chan.        | Dimensions (mm) |      |      | Weight<br>kg | Motor<br>kW |
|--------------|-----------------|------|------|--------------|-------------|
|              | A               | B    | C    |              |             |
| 1-900/1000CV | 1785            | 1830 | 1028 | 2068         | 3.7         |
| 2-900/2000CV | 1969            | 1830 | 1646 | 3614         | 5.6         |
| 3-900/3000CV | 2007            | 1830 | 2180 | 4594         | 7.5         |
| 4-900/4000CV | 2320            | 1915 | 2580 | 5614         | 11.1        |
| 5-900/5000CV | 2358            | 1915 | 3124 | 6614         | 15.0        |
| 6-900/6000CV | 2358            | 1915 | 3668 | 7564         | 15.0        |



independent channels



scalable equipment



flocculator for polymer and sludge mixing



the cake

## on-site testing & mobile units



self-contained mobile unit

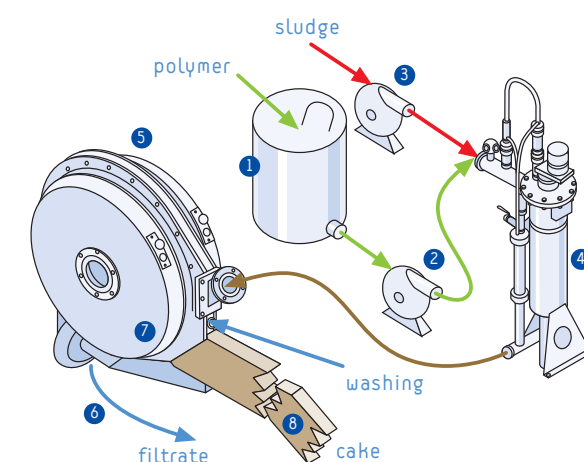
1 Preliminary analysis allows identifying the best polymer and required quantity to reach optimum results.

The polymer 2 and the sludge 3 are mixed within the flocculator unit 4 at a pre-set speed based on sought productivity and cake dryness.

The flocculated sludge is then fed at low pressure into the channel for dewatering 5. The flocculated sludge builds up in the channel between two filtering screens made of stainless steel chrome plate until such moment where enough pressure is generated to open the outlet gate 7.

The frictional force of the slow moving screens (up to 2.5/3 rpm), coupled with the controlled outlet restriction, results in the extrusion of a very dry cake 8, and the expulsion of the water 6 with practically no solids.

## process



### Economical to operate

less polymer, energy and water consumption, with good wear characteristics' components optimising overall maintenance.

### Adapted to different sludge

municipal and industrial (livestock, agri-food, pulp and paper and other industries).

### Self-regulating controls

fully automated with little supervision required.

### Short learning curve

simple protocols to assist the operator set optimum parameters to meet desired cake dryness and required productivity.

## the offering

- Dewatering Equipments.
- Mobile Units.
- Lab Analysis.
- On-site Testing.
- Complementary Accessories.
- Services – set up, maintenance, others.

The offering is customised to match your requirements and constraints, technical or financial. Our technical team is experienced, qualified and specialised. We are here to assist you find the suitable solution.

## proven cutting edge technology