



John Meunier ROTARC®

Type SD

Rotary Drum Fine Screens

WATER TECHNOLOGIES

John Meunier ROTARC® Type SD

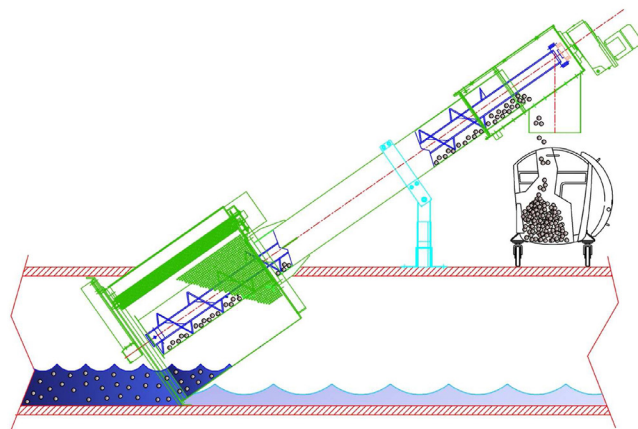
Rotary Drum Fine Screens

The Rotary Drum Screen is installed directly into a channel and is supplied with pivoting capability. The unit consists of a solids capture screen in the shape of a drum, a conveying spiral, a press zone and a drive motor.

As the flow passes through the unit, the solids progressively collect onto the drum screen and cause it to gradually blind. The screen is activated as the upstream water level rises. The rotating drum brings the solids to its upper part where they fall into the conveying screw.

A high pressure sparge system set outside the drum, right above its periphery, will flush down all remaining solids adhering to the drum into the conveying screw. A stationary roller brush positioned after the wash system will clear any residual solids off the screen openings. The spiral screw then conveys the solids up to the press zone that provides screenings dewatering and volume reduction.

- Compaction can provide up to 40% dry solids and 50% weight reduction.
- Additional spray wash can be installed in the transport zone to reach higher organic removal levels. Up to 80% solids washing efficiency can be attained.
- Continuous bagging system is available to receive screenings to contain odors.
- The press zone and wash system can be omitted to suit requirements such as Storm Overflow applications where the screenings are returned to the main sewer line.



Drum screens can either be supplied in channel installation or as a complete package inside a self contained stainless steel tank. The tank can also be supplied with a bypass arrangement.

The drum screen seal design ensures that solids are retained upstream even at peak flow. The use of small screen openings improves removal performance of fibres and hairs.



Specifications

Flow range:

Up to 48 MGD depending on the application and the screen opening size.

Screen availability:

For channel size from 24-inch (600mm) to 102-inch (2600mm)

Screen size availability:

Perforated holes:

0.08-inch (2 mm)

0.12-inch (3 mm)

0.16-inch (4 mm)

0.24-inch (6 mm)

Wedge wire :

0.02-inch (0.5 mm)

0.04-inch (1 mm)

0.08-inch (2 mm)

0.12-inch (3 mm)

Fabrication

Fabricated components (other than the spiral screw): Stainless steel AISI 304 (or 316 on request)

Spiral screw: Micro-Alloy steel or Stainless steel on request (AISI 304 or 316).

Typical Applications

- Municipal wastewater treatment
- Industrial effluent discharge
- MBR Membrane pre-screening
- Storm or Sea Outfall discharges



Features

- High solids separation: Wedge-wire or perforated-hole type screen ensure high separation efficiencies
- High quality seal: Ensures retained solids cannot pass through, bypass or overflow the screen.
- Low head loss: An inclination angle of 35° and large surface profile imparts increased immersed screening area and exposure to the incoming flow.
- Low footprint compact "ALL-IN-ONE" screenings removal, washing and compaction design.

Benefits

- High quality and reliability at low costs
- Easy installation
- Retrofit capability into existing channels
- Reduced disposal costs with screenings press
- Reliable and automatic self cleaning operation

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