

WASTEWATER TREATMENT



Cont-Flo[®] **Bar Screen**

An efficient, compact and functional automatic bar screen providing exceptional serviceability and reliability.



JOHN MEUNIER INC.

CONT-FLO® BAR SCREEN



Everyone knows screenings removal is an essential step toward designing an efficient headworks. Removing undesirable particles from the effluent is still the best solution. Grinding them and passing them through the system will only overload the downstream treatment processes. This is why **John Meunier Inc.** has designed the very efficient and robust **Cont-Flo®** bar screen, which combines all the features and qualities expected from a self-cleaning bar screen.

- *Rugged construction*
- *Simplicity of installation, operation and maintenance*
- *Economical*



OPERATION PRINCIPLE

A bar rack is installed at the base of the screen frame, perpendicular to the water channel bottom, with spacing between bars varying from 7/16 to 3 inches (10 mm to 75 mm). Instantaneous peak flows can easily be screened because of the increased free area in the upper part of the screen;

A rake is connected to a moving carriage;

An electric motor driving a carriage with a pinion on a rack rail is attached to the back of the screen frame.

When the rake arm has reached the bottom of the bar screen, gravity inserts it through the bar rack. Should heavy screenings interfere with the insertion, the guide rollers will force, on upward travel, the rake between the bars.

As the upper part of the bar rack is free and open, any screenings wedged between bars will be totally removed.

The rake teeth span a minimum of 4'' (100 mm) over the discharge chute.

A hinged wiper located at the upper part of the screen frame pushes the screenings off the rake on to a chute, which guides them to a handling system.

The wiper blade terminates its cycle at least 1½'' (40 mm) away from the rake teeth.

Screening widths available from 14'' to 96'' (355 to 2445 mm) and screenings lift of over 80 feet (24.4 meters).



CHARACTERISTICS



The counter flow cleaning of the bar rack pushes the screenings upstream instead of pressing them on and/or through bar rack.

- Heavy-duty construction.
- Economical.
- Simplicity of operation.

All maintenance can be accomplished from the operating floor.

As the bar screen is completely open at the top, the rake will clean it completely.



The spacing between bars and the corresponding rake can be easily modified, if required.

The **CONT-FLO® MONOBLOC** Bar Screen, being vertically inserted in the channel, requires minimum footprint.

Totally pre-assembled, the **CONT-FLO® MONOBLOC** Bar Screen can be easily fitted into an existing channel.

The **CONT-FLO® MONOBLOC** Bar Screen can be on any depth of channel and can lift screenings to any heights.

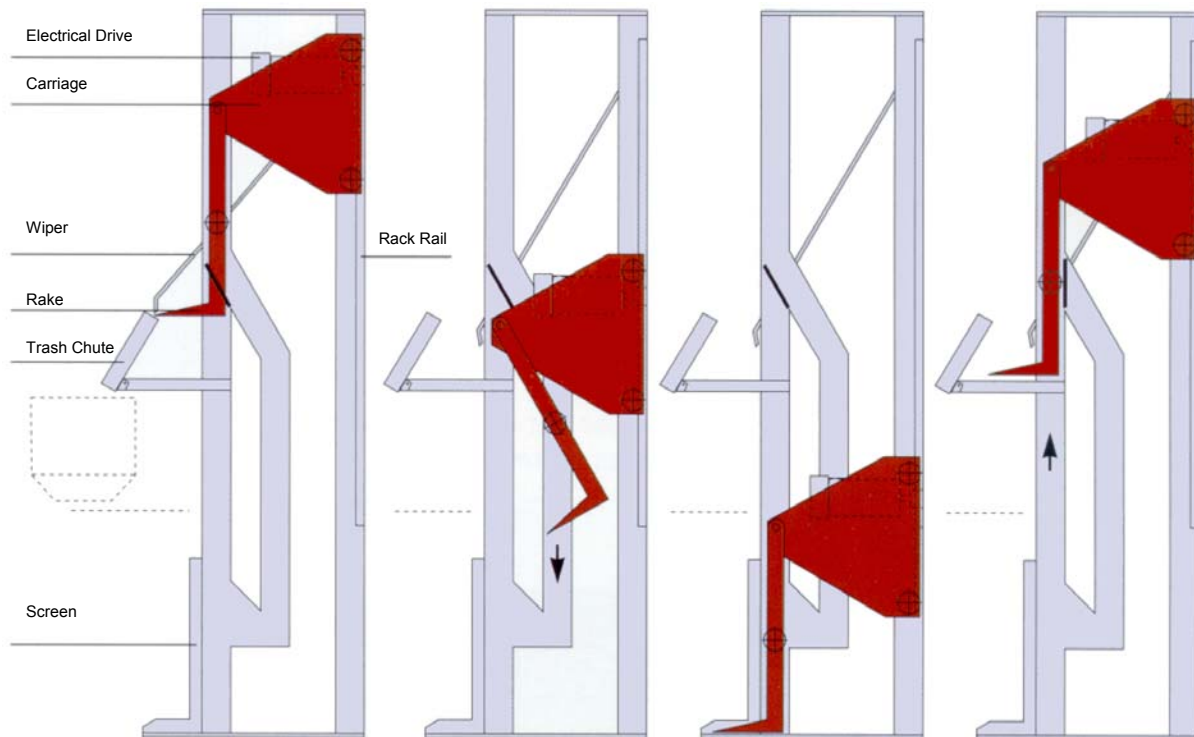
The unit can be operated either by timer and/or head loss across the bar rake.

As a standard feature the unit is provided with pre-wired water resistant (up to 23 feet of water) travel limit switches.

Over 600 bar screens already in operation are proof of the efficient design of the **CONT-FLO®** Monobloc Counter-Current cleaning Bar Screen.



CONT-FLO® BAR SCREEN



FEATURES

- Monobloc: totally pre-assembled
- Vertical operation: minimizes floor space requirement
- Easily installed in existing channels
- Practically no limit on height of screening discharge
- Bars are free at the top, solids never jam between bars
- Can be provided with double bar spacing at the upper portion of the bar rack for domestic and storm flows or as overflow
- Rake is positively driven up and down by mean of rack and pinion
- Gravity operated hinged wiper
- Shape of teeth pushes the screenings upstream away from bars
- Type L Bar Screen:
 - ensures cleaning to the bottom of channel
 - provides greater submerged screening area
 - additional bar strength
- Pevelon guide wheels
- Reliable rail switch

JOHN MEUNIER INC.

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