

# JOHN MEUNIER



# CONT-FLO<sup>®</sup>

## TYPE ER/M-L

Multi-Rake Bar Screen

 **VEOLIA**  
WATER

Solutions & Technologies

# ER/M-L Type Multi-Rake Bar Screen

## Description

The ER/M-L unit is a front clean multi-rake type bar screen. The screen frame is normally set at an angle in the channel and requires only a short length of parallel channel. The bar rack is cleaned by robust rakes fastened to chains located on each side of the screen frame. The number of rakes can be varied to provide greater removal of screenings.

Screenings are carried up the screen bars and dead plate to the upper level of the screen where they are scraped off by a wiper onto the discharge point. The raking action is on the endless chain

principle although there are normally no bottom sprockets in the flow. The screen drive is by a shaft mounted motorised gear unit which is protected by a current monitor supplied with the control system.

Other available options:

- Dual speed drive
- Variable frequency drive
- Inch reverse grid obstruction clearance control scheme
- Spring loaded rake assembly for obstructing solids bypass



Type	Multi-Rake Bar Screen	
Capacity (Flows up to)	225 MGD	850,000 m3/d
Spacings (Bar)	¼ to 2-1/2 inches	6 to 60 mm
Setting Angle (Screen)	15° vs. vertical (Nominal *)	
Cleaning Rake	min. of 2 rakes *	
Travel Speed (Rake)	16 – 20 ft/min (Nominal *)	5 - 6 m/min (Nominal *)
Material (Frame and chute)	Galvanized carbon steel (AISI 304 or AISI 316 on request)	
Material (Rake Mechanism)	Galvanized carbon steel (AISI 304 or AISI 316 on request)	
Material (housing)	AISI 304 (AISI 316 on request)	
Main shaft	Carbon steel (AISI 304 or AISI 316 on request)	
Chain wheel	Carbon steel or Cast iron *	
Material (Chain)	Protected steel (AISI 304 - AISI 316 on request)	
Chain Type	Roller	

\* Variable adjusted to suit application  
Note: Wash water is not required



## Advantages

- Low head loss  
15° nominal angle of inclination increases submerged screening area and exposure to the incoming flow.
- Small footprint  
Compact space-saving design
- Low headroom requirement
- Rapid cleaning cycle available

## Benefits

- High quality and reliability at low costs
- Easy installation
- Retrofit capability into existing channels
- Stainless steel fabrication available
- Enclosed for odour control

## Applications

- Municipal & Industrial waste water
- First stage screenings removal prior to MBR
- Storm or Sea Outfall discharge



## PROVEN PERFORMANCE

The screen performance impacts the overall operation and maintenance of the subsequent treatment processes. With a 30 year track record, this multi-rake screen is a proven reliable component of John Meunier's pretreatment products.





John Meunier Inc. has been serving North-American municipalities and industries since 1948 by offering them complete water and wastewater treatment solutions. With our state-of-the-art technologies, efficient products and a team of seasoned professionals, we design solutions to perfectly match the needs of our clients.

John Meunier Inc. is a subsidiary of Veolia Water Solutions & Technologies, the Veolia Water division which designs and manufactures technological solutions for water and wastewater treatment. Veolia Water is the world leader in water services, serving over 110 million people worldwide with close to 68,000 employees.

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