



John Meunier ROTARC[®] Type SAS Overflow Fine Screen

CSO, SSO, Stormwater Management

WATER TECHNOLOGIES

John Meunier ROTARC® Type SAS

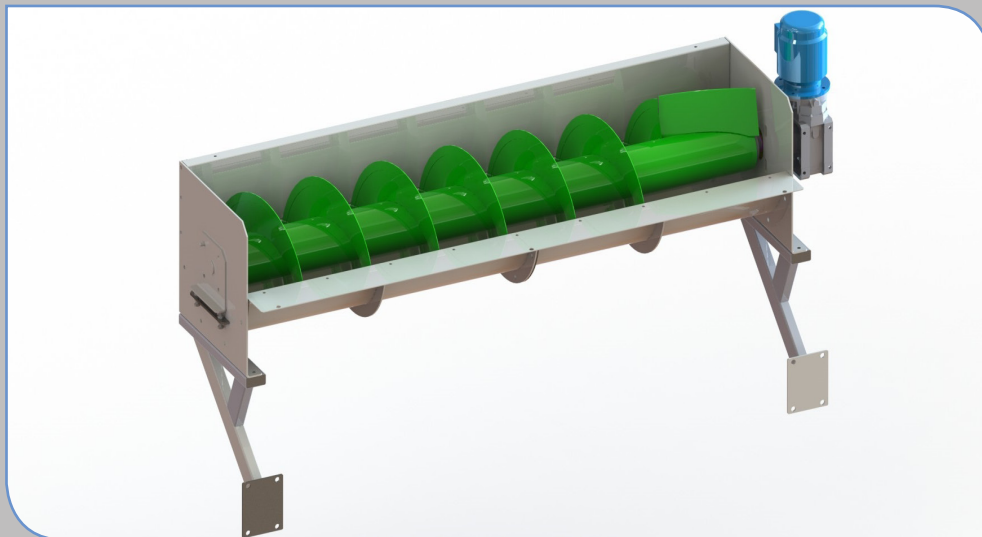
Application

Unsanitary pollution of receiving waters during a sewer overflow event is a frequent problem. These items, including toilet paper, sanitary napkins, disposable syringes, diapers, wipes and plastic bags to name a few, often float in the effluent and cannot be effectively removed by sedimentation or trapped by baffles.

To address this problem, a barrier must be placed between the sewer and the receiving water to capture debris. Static screens and trash racks are often used;

however these solutions have major drawbacks. Static screens block easily, as they cannot be cleaned under load and become useless, while trash racks with small bar spacing and forced mechanical cleaning require very long overflow weirs to reduce superficial loads.

The John Meunier ROTARC® Type SAS Overflow Fine Screen has been designed to efficiently retain floatables during sewer overflows.



Operation

The John Meunier ROTARC® Type SAS Overflow Fine Screen, consisting mainly of a perforated stainless steel basket, a conveying spiral and gearmotor, is installed horizontally on the outfall side of an overflow weir. During an overflow event, water flows into the basket screen and through the perforations. Debris larger in size than the perforations will remain within the basket and transported gently in the axial direction towards the discharge zone by the rotating spiral. Replaceable cleaning brushes attached to the periphery of the spiral ensure proper cleaning of the perforated basket. Once the debris is transported to the discharge zone,

it can be reintroduced back into the collection system. Alternately, the debris can be collected and disposed of at the overflow site. The conveying spiral is driven by a compact gearmotor, which is sized based on the length and diameter of the spiral. Under normal operating conditions, the gearmotor is above the water level and not in direct contact with the water. The start/stop cycle of the John Meunier ROTARC® Type SAS Overflow Fine Screen is fully automatic and managed by a level indicator and the control panel provided by Veolia Water Technologies Canada Inc.

Features and Benefits

- Reliable and efficient retention of floatables and solids
- Improved hydraulic conditions due to installation on the outfall side of the overflow weir
- High solids capture by means of two-dimensional screening
- Robust and low maintenance stainless steel design



Specifications

The John Meunier ROTARC® Type SAS Overflow Fine Screen is available in five models and lengths up to 12m (39ft). Selection and sizing is dependent on site specific hydraulic conditions.

Model	SAS-30	SAS-40	SAS-50	SAS-60	SAS-70
Screw diameter, mm (in)	300 (12)	400 (16)	500 (20)	600 (24)	700 (28)
Capacity, L/s (MGD)	100 to 7200 (2.3 to 164)				
Max length, m (ft)	12 (39)				
Perforations	6mm standard (other sizes available upon request)				

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