

**BORMET**

# FINE SCREEN MC



Spaans  Babcock

# Fine Screen

The BORMET Fine Screen is a traveling, continuous filter band type, designed to operate at the headworks of municipal wastewater treatment facilities.

The slot width of the filter elements is variable and can be made to meet the desired minimum particle size removal. It is also suitable for numerous industrial applications ranging from vegetable preparation to pulp and paper mills.



*Fine screen with spiralpress*

## Design Features

The BORMET Fine Screen main feature is the unique element shape and its patented design. The individual filter elements are mounted on support shafts and make up separate filter blocks. Each block is mounted between the drive chains and does not have any interconnection to an adjacent block. With this design, blocks are capable of being easily removed from the machine, yet the screen can still be operated. Therefore, it is not necessary for the screen to be taken out of service for maintenance or returned to the factory for repair.



## Heavy Duty

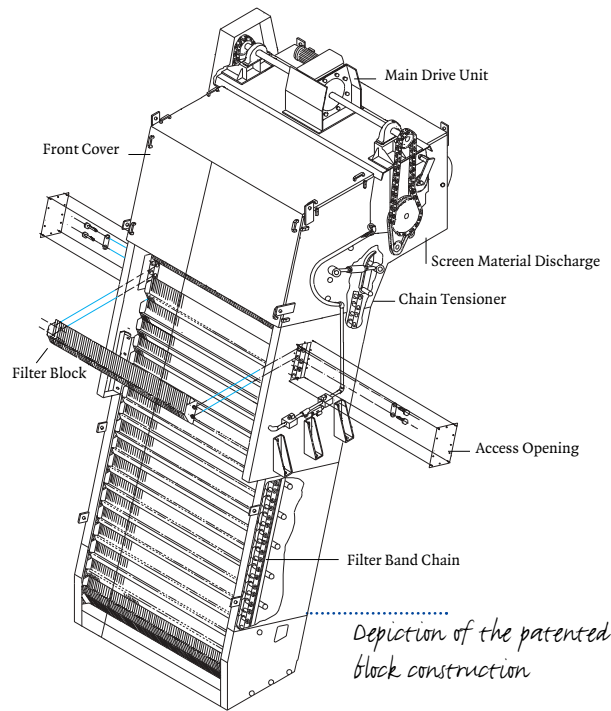
The drive chains for the filter elements are heavy duty and are manufactured from stainless steel. There are two chains, one on each side of the filter screen. Each chain is made from double-sided links and are standard on every BORMET fine screen.

The frame is heavy-duty and manufactured from stainless steel to easily carry the imposed loads.



# Wear

Each filter block does not interlock, interconnect or touch the adjacent blocks. During operation of the screen they do not rub together, therefore, no wear occurs between the moving parts. Heavy wear occurs in designs where the adjacent filter elements are interlocked together. As seen in some competitive products, as the screen belt moves and bends over sprockets, the individual elements rub together and wear is induced. This wear is greatly amplified by the introduction of sand and grit in the influent. The BORMET design does not have adjacent filter elements that contact each other, thereby eliminating the possibility of wear.

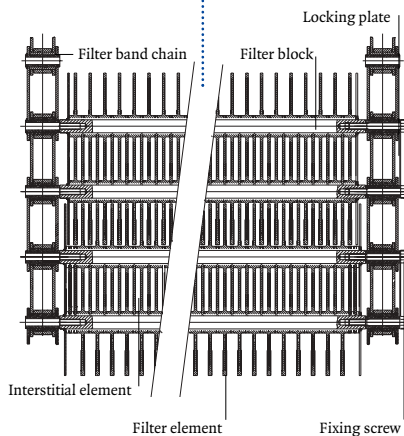


# Easy Maintenance

Due to the simplicity of the design and construction, the BORMET fine screen is easily inspected and maintained. Of particular note is the easy removal of a filter block from the front of the screen without taking the screen out of service and releasing the chain tension.

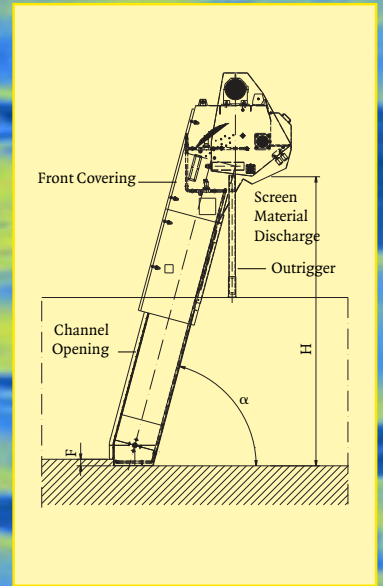
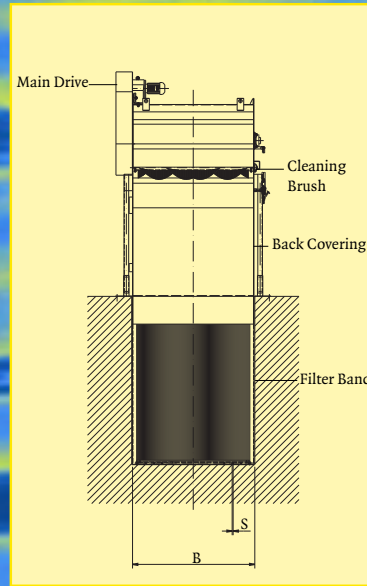
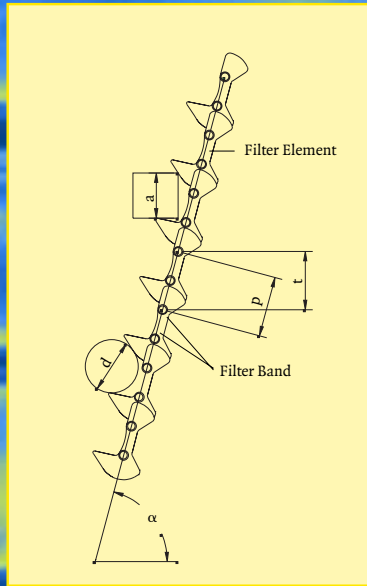
All maintenance and repairs can be carried out without any special training or special tools. All of the drive equipment and shaft bearings are located on the external surface of the equipment for easy maintenance accessibility.

*Depiction of the filter band*



# Advantages

- Quick and easy removal of the filter element blocks.
- Removal of a filter block does not take the screen out of service.
- Front removal of the filter blocks means minimal spacing between adjacent screens.
- The BORMET screen can be easily retrofitted to existing channels.
- Large and small particles removed from flow stream easily handled.
- Separate drive for cleaning brush.
- Spray header to remove small particles from the filter elements.
- Screenings discharge can be made to suit installation requirements.



Model		MC 56		MC 112	
		mm	inches/ft	mm	inches/ft
Channel Width	B	500 - 2,400	20 - 96"	1,500 - 3,500	60 - 138"
Maximum Discharge Height	H	12,000	39 ft	14,000	46 ft
Slot Width	S	0.5 - 25	0.02 - 1.0"	0.5 - 25	0.02 - 1.0"
Discharge Angle	$\alpha$	75, 85°		75, 85°	

Maximum Discharge Particle Sizes					
$\alpha$		75°		85°	
		mm	inches	mm	inches
MC 56	d	145	5.7	135	5.3
	a	120	4.7	110	4.3
MC 112	d	185	7.3	175	6.9
	a	150	5.9	150	5.9

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