



# BOWNT

PURIFICATION IN ACTION

## BOWNT BOG M 内进流板式格栅

BOWNT-BOG M 内进流网板式细格栅是目前新型的细格栅清污设备，集栅渣分离、清洗、传输、脱水于一体；主要应用于市政和工业污水的过滤处理，分离纤维类、毛发类及固体COD/BOD等悬浮物质，常用于膜生物反应器之前的悬浮物分离避免膜堵塞。

## BOWNT-BOG M seires inner plate grille

BOWNT-BOG M seires inner plate grille is a new type of fine grille cleaning device, which integrates separation, cleaning, transmission and dehydration of slags. It is mainly used in the filtration and separation of fiber, hair and solid COD / BOD in municipal and industrial sewage treatment systems to avoid blockage of membrane bioreactor.



### 结构与工作原理：

BOG M 由主体框架、驱动单元、传动机构、清扫机构、旋转网板及链条、挡水装置、高排水压榨机、反冲洗系统和控制系统等组成。

污水从设备一侧中间进入，从内向外通过两侧的开孔栅板排出，拦截在内部的栅渣随开孔栅板旋转提升至上部排渣区，在此栅渣被冲洗系统冲洗掉入内部的高排水压榨输送机内，压榨排出至下一道设备中，而网板也同时被冲洗干净进入下一个工作循环。并保证过水面积和流量均满足设计要求。

### Structure and working principle:

BOG M is composed of frame, driving unit, transmission mechanism, cleaning mechanism, rotating grille plate and chain, water retaining device, squeezer, backwashing and control system.

Raw water fills into the device through the inlet, and flows out from the perforated grille plates on both sides.

Slags intercepted on the inner grille surface are lifted by the rotating grille to the upper slag discharge area, washed off to the inner conveyor and discharged after squeezing. At the same time, the grille plate is washed clean to enter the next working cycle, and ensure that the flow area and rate meet requirements.

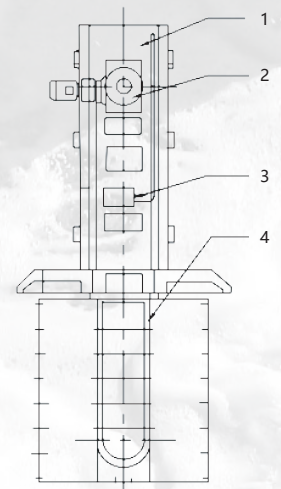
## 设备特点

- 高捕获率：独特的进水方式，集过滤、冲洗（选配）、压榨、输送、脱水、滤渣卸料于一体，可有效去除毛发等纤维状物。
- 可大大提高后续膜生物反应器的运行稳定性，大大延长膜的使用寿命。
- 水下不设传动部件，无需维护，更便于检修与维护。
- 节省空间：垂直安装有效节省空间。
- 设备为整体式，制造精度高，安装方便。
- 反冲洗水将截留在网板上的污物清除，不会落入滤后水，避免二次污染。
- 流量大、运转平稳、震动轻、噪音小。

## Characteristics

- High removal rate: unique water inflow mode, which integrates functions of filtration, washing (optional), pressing, conveying, dehydration and slag discharge, can effectively remove fiber substances such as hair.
- Greatly improve the stability and service life of the membrane bioreactor.
- There is no transmission part under the water, free of maintenance and convenient for repair.
- Space saving of vertical mounting.
- The equipment is integral, with high manufacturing precision and convenient installation.
- Slags are insulated from the clean water to avoid secondary pollution.
- High capacity, stable operation, light vibration and low noise.

	M-40	M-48	M-60	M-80
滤网名义宽度 inch (mm) Grille width	40" (1000)	48" (1200)	60" (1500)	80" (2000)
安装角度 $\alpha$ Mounting Angle $\alpha$	90°			
链板节距 inch (mm) Length of each chain plate	8" (200)			
适用渠道深度 inch (m) Depth of channel	40" -200" (1-5)			
网孔精度 mm Grille gap	1-20			
过网流速 m/s Velocity	<0.6			
允许水位差 inch (mm) Allowable water level difference	8" (200)			
滤网上行速度 m/min Grille upward speed	3.6-5			
电机功率 hp (KW) Motor power	0.75-2 (0.55-1.5)			
冲洗水压 psi (MPa) Backwashing pressure	$\geq 87$ ( $\geq 0.6$ )			
冲洗水量 gpm (m <sup>3</sup> /h) Backwashing flowrate	52.8 (12)	61.6 (14)	74.8 (17)	105.6 (24)
淹没深度1m的过水量 gpm (m <sup>3</sup> /h) Capacity under 1m submerged depth	3520 (800)	4400 (1000)	5500 (1250)	7260 (1650)



- 1、架体
  - 2、传动机构
  - 3、冲洗装置
  - 4、网板链
- 
- 1、Frame
  - 2、Transmission Mechanism
  - 3、Backwashing
  - 4、Rotating Grille Plate and Chain

