



BOG RC

回转格栅除污机

BOG RC Rotary Grille Remover

产品简介 / PRODUCT DESCRIPTION

BOG RC系列回转格栅除污机适用于城市污水处理、自来水取水、电厂钢厂取水口、河坝闸口，同时也可以作为纺织、食品加工、造纸、皮革等行业废水处理工艺中的前级筛分设备，是常用的固液筛分设备之一。

BOG RC series rotary grille remover is widely used in urban sewage treatment system, tap water intake, power&steel plant water intake and dam water-gate and etc. It can also be used as the prescreening equipment in the waste water treatment of textile, food, papermaking, leather and other industries, is one of the commonly used solid-liquid separation equipments.

设备特点 / CHARACTERISTICS



01 具有很高的自动化程度，杂质分离速度快且效率高。
Highly automation, fast and efficient separation of impurities.

02 运行消耗小且无噪音、耐腐蚀性能好。
Low consumption, no noise and good corrosion resistance.

03 设备在无人看管的情况下，可以保证连续很长时间的稳定工作。
The equipment can work stably for a long time in unattended condition.

04 设备结构设计合理，具有很强的自净能力，不会发生堵塞现象，日常维修工作量很少。
Reasonable design, with a strong self-cleaning ability, no blocking and simply routine maintenance.

05 可以根据用户需要任意调节设备运行间隔实现周期性运转。
It can adjust the operation interval of the equipment arbitrarily according to the needs of users to realize periodic operation.

06 设备配有超载安全保护装置，当发生故障时会产生声报警并自动停机，可以避免设备超负荷工作。
The equipment is equipped with overload safety protection. When there is a fault, it will give an alarm and stop automatically, which can avoid the overload of the equipment.

BOG RC 回转格栅除污机

BOG RC Rotary Grille Remover

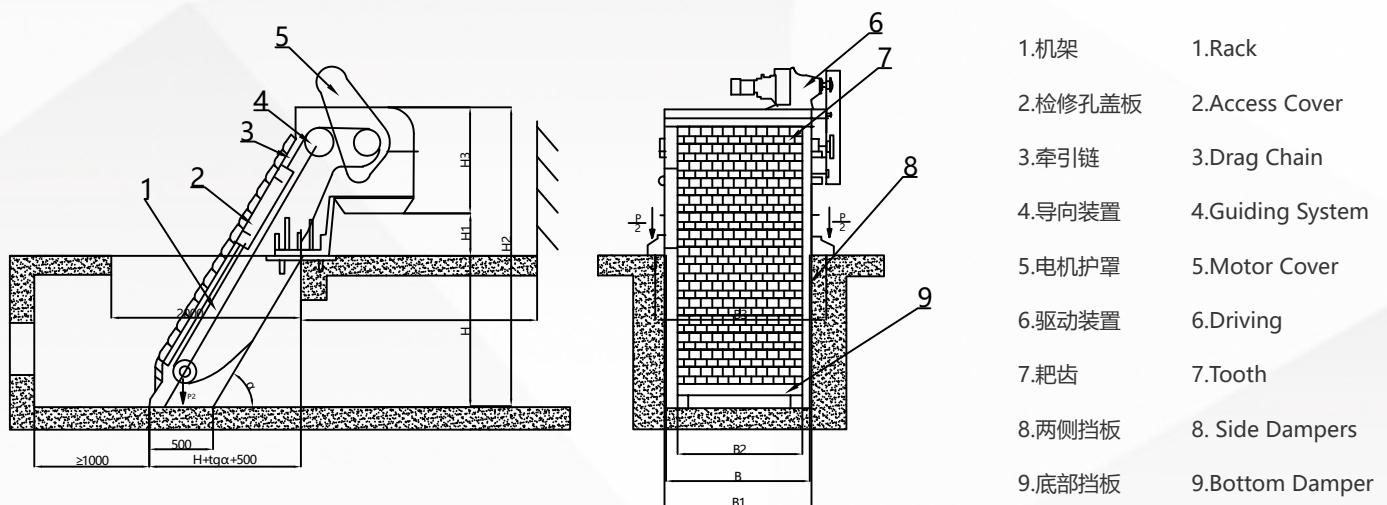


BOWNT
PURIFICATION IN ACTION

结构与工作原理 / STRUCTURE AND WORKING PRINCIPLE

回转式格栅除污机是由一种独特的耙齿按一定的装配顺序装在横轴上，组成回转格栅链。根据过水流量等使用条件不同，装配成不同的间隙，安装在水处理系统或泵站的入口处。在电机减速器的驱动下，耙齿链进行逆水流方向回转运动时，水中的杂物被耙齿捞起，液体则在格栅缝隙中流过，耙齿链运转到设备的顶部时，由于槽轮和弯轨的导向，使每组耙齿之间产生相对自清运动，绝大部分固体物质靠重力落下。另一部分则依靠清扫器的反向运动把粘在耙齿上的杂物清扫干净。当耙齿从反面转到设备底部时，新一轮的循环往复运动开始，连续的从水中打捞杂物，从而达到去除固态悬浮物的目的。

Rotary grille remover is composed of a unique rake teeth installed on the horizontal axis according to a certain assembly sequence to form a rotary grille chain. Different grille gaps selected according to the different service conditions installed at the entrance of water treatment system or pump station. Driven by the motor reducer, when the tooth chain rotates against the water flow direction, debris in the water is picked up by the rake teeth, and the liquid flows through the grille gap. When the tooth chain is transported to the top of the equipment, due to the guide of the groove wheel and curved rail, the opposite self-cleaning movement occurs between each group of harrow teeth, and most of the solid materials fall down by gravity. The other part relies on the reverse movement of the sweeper to clean the debris on the rake teeth. When the rake teeth turn from the reverse side to the bottom of the equipment, a new round of cyclic movement starts, continuously fishing debris from the water, so as to achieve the purpose of removing solid suspended solids.



BOG RC 回转格栅除污机

BOG RC Rotary Grille Remover



BOWNT
PURIFICATION IN ACTION

	RC-20	RC-24	RC-28	RC-32	RC-36	RC-40	RC-44	RC-48	RC-52	RC-56	RC-60
设备宽度 B Device Width B(mm)	500	600	700	800	900	1000	1100	1200	1300	1400	1500
渠道宽度 B1 Ditch Width B1 (mm)	B+100										
有效栅宽 B2 Grille width B2 (mm)	B-157										
基础螺栓间距 B3 Fundation bolt-space B3 (mm)	B+200										
设备总宽B4 Totoal width B4 (mm)	B+350										
耙齿间隙 Toogh gap b (mm)	t=100	1≤b≤10									
	t=150	10 < b ≤ 50									
安装角度 α (°) Mounting Angle α (°)	60 ~ 85										
渠道深度 Ditch depth H(mm)	800 ~ 12000										
卸料口至平台高度H1 Mounting height H1(mm)	600 ~ 1200										
设备总高 H2 Total Device height H2(mm)	H+H1+1500										
后箱架高 Box Height H3(mm)	t=100	≈1000									
	t=150	≈1100									
耙齿运行速度 Chain speed V(m/min)	≈2.1										
电机功率 Motor power N (KW)	0.55 ~ 1.1			0.75 ~ 1.5		1.1 ~ 2.2			1.5 ~ 3.0		
水头损失 Head loss (mm)	≤20 (无堵塞时 No jams)										
土建载荷 Civil load	P1(KN)	20					25				
	P2(KN)	8					10				
	△P(KN)	1.5					2				

* P以H=5.0计, H每增加1m, 则P总=P1(P2)+ △P;t为耙齿链节距

Note: P is calculated as H = 5.0. For every 1m increase of H, the total P = P1 (P2) + △ p; t is the pitch of teeth chain.

	RC-20	RC-24	RC-28	RC-32	RC-36	RC-40	RC-44	RC-48	RC-52	RC-56	RC-60	
栅前水深 water level H3 (m)	1											
过栅流速 velocity V'(m/s)	0.8											
间隙b Grille Gap (mm)	1	0.03	0.04	0.05	0.06	0.07	0.08	0.08	0.09	0.1	0.11	0.12
	3	0.07	0.09	0.1	0.12	0.14	0.16	0.18	0.2	0.22	0.24	0.26
	5	0.09	0.11	0.14	0.16	0.18	0.21	0.23	0.26	0.28	0.31	0.33
	10	0.11	0.14	0.17	0.21	0.24	0.27	0.3	0.33	0.37	0.4	0.43
	15	0.13	0.16	0.2	0.24	0.27	0.31	0.34	0.38	0.42	0.45	0.49
	20	0.14	0.17	0.21	0.25	0.29	0.33	0.37	0.41	0.45	0.49	0.53
	25	0.14	0.18	0.22	0.27	0.31	0.35	0.39	0.43	0.47	0.51	0.55
	30	0.15	0.19	0.23	0.27	0.32	0.36	0.4	0.45	0.49	0.53	0.57
	40	0.15	0.2	0.24	0.29	0.33	0.38	0.42	0.46	0.51	0.55	0.6
	50	0.16	0.2	0.25	0.29	0.34	0.39	0.43	0.48	0.52	0.57	0.61

