

BOG RL

链板式回转格栅除污机

BOG RL Chain Slat Rotary Grille Remover

产品介绍 / PRODUCT DESCRIPTION

BOG RL系列链板回转式格栅除污机属于粗格栅，适用于城市污水处理中各类雨水泵站、污水泵站、给排水提升泵站、电厂钢厂取水口、河坝闸口。应用于进水口处用来拦截、清除漂浮物，打捞水体中粗大的杂物，如生活垃圾、农作物根茎等保护泵叶轮。

在回转板式链上，每隔1m-2m间距上设有一块齿耙板，把水中的垃圾或悬浮物不断运送到卸料口，还可清除沟底的泥砂，是较理想的预处理设备之一。

BOG RL series chain slat rotary grille remover belongs to coarse grid, which is suitable for all kinds of rainwater pump station, sewage pump station, water supply and drainage lifting pump station in urban sewage treatment system, power&steel plant water intake and dam water-gate and etc. Its main function to intercept and remove the floating objects and suspended solids in the water to protect pump impellers, such as domestic garbage, crop roots and so on.

On the rotary plate chain, there is a toothed plate in every 1m-2m distance, which can continuously convey the garbage and suspended solids to the discharge port, it can also remove the mud and sand at the bottom of the ditch. It is one of the ideal pretreatment equipments.

设备特点 / CHARACTERISTICS



01

水下设有活动栅，齿耙由栅后向栅前回转，底部无沉积死角，自动控制回转卸料，无污物回落现象。

There is a movable grille under the water. The rake teeth rotates from the back to the front. There is no dead angle at the bottom. The rotary unloading is automatically controlled and there is no dirt falling back.

02

采用全电动电气保护装置、机械电气双重过载保护，安全可靠，可实现远程自动控制，也可手动控制。

It is safe and reliable to use full electric protection device and double overload protection of mechanical and electrical, which can realize remote automatic control or manual control.

03

结构紧凑、运行平稳、工作可靠、维修简便。

Compact structure, stable operation, reliable operation and simple maintenance.

05

链条密封可靠，无杂物卡阻缠绕现象。

The chain seal is reliable and there is no debris blocking and winding.

04

传动部件、栅条、耙齿均采用不锈钢，耐腐蚀，使用寿命长。

Transmission parts, grille and rake teeth are made of stainless steel, which is corrosion resistant and long service life.

06

具有独特的框架结构，主机刚性强，易于安装、维修。

Unique frame structure and strong rigidity, easy installation and maintenance.

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结构与工作原理 / STRUCTURE AND WORKING PRINCIPLE

链板式格栅采用链板回转式设计。固定栅条组成水栅面，当污水流过时，大于栅隙的杂物被拦截，齿耙板的耙齿深入栅条的间隙中，当驱动装置带动牵引链作为回转运动时，耙齿把截留在栅面上的杂物自下而上带至渣口，杂物依靠重力自行脱落，从卸料口落入输送机或垃圾小车内，然后外运或作进一步的处理。根据分离杂物的大小选配不同规格的格栅。

Chain plate grille adopts rotary chain plates. When the sewage flows through the grid surface, the debris larger than the grid gap is intercepted, and the rake teeth of the toothed plates go deep into the gap between the grille bars. Motor drives the chain plates as a rotary motion, the rake teeth carry the debris intercepted on the grid surface from bottom to the top end. The debris will fall off by gravity, fall into the conveyor or garbage trolley from the discharge port, and haul away for further processing. Please refer to the size of separated debris for grille selection.

		RL-32	RL-40	RL-48	RL-56	RL-64	RL-72	RL-80	RL-88	RL-96	RL-104	RL-112	
设备宽度 B Device Width B (mm)		800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	
渠道宽度 B1 Ditch Width B1 (mm)		B+100											
有效栅宽 B2 Grille width B2 (mm)		B-166											
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											
栅条间隙 Grille gap b (mm)		20 ~ 100											
安装角度 α (°) Mounting Angle α (°)		60 ~ 80											
渠道深度 Ditch depth H (mm)		2000 ~ 12000(根据用户要求定)											
卸料口至平台高度H1 Mounting height H1 (mm)		600 ~ 1200(根据用户要求定)											
设备总高 H2 Total Device height H2 (mm)		H+H1+1500							H+H1+1600				
栅条长度 Grille length L (mm)		(最大水深+600) /sinα (根据用户要求定)											
牵引链回转速度 Chain speed V (m/min)		≤3.0											
电机功率 Motor power N (KW)		0.75 ~ 1.5				1.1 ~ 2.2					1.5 ~ 3.0		
土建载荷 Civil load	P1(KN)	18			22.5				30				
	P2(KN)	8			12.5				20				
	△P(KN)	1			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.

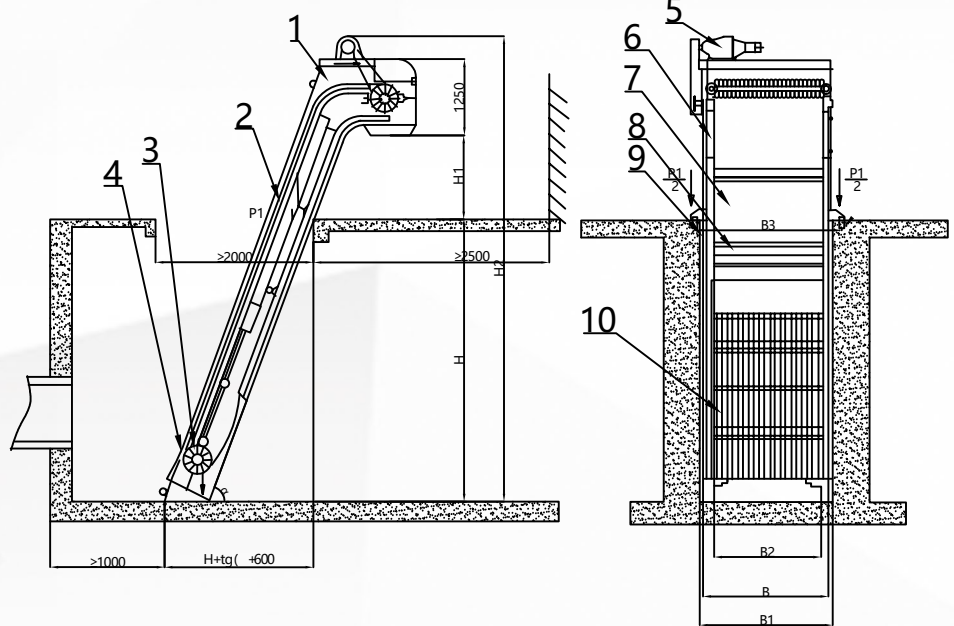


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			RL-32	RL-40	RL-48	RL-56	RL-64	RL-72	RL-80	RL-88	RL-96	RL-104	RL-112
栅前水深 Water level H3 (m)			2										
过栅流速 Velocity V'(m/s)			0.8										
间隙b Grille Gap (mm)	20	过水流量Q Capacity (m³/h)	0.57	0.76	0.94	1.12	1.3	1.48	1.66	1.84	2.03	2.21	2.39
	30		0.65	0.85	1.05	1.26	1.46	1.67	1.87	2.07	2.28	2.48	2.69
	40		0.69	0.91	1.12	1.34	1.56	1.78	2	2.21	2.43	2.65	2.87
	50		0.72	0.95	1.17	1.4	1.63	1.85	2.08	2.3	2.53	2.76	2.99
	60		0.74	0.97	1.21	1.44	1.67	1.90	2.14	2.37	2.60	2.84	3.07
	70		0.75	0.99	1.23	1.47	1.71	1.94	2.18	2.42	2.66	2.90	3.13
	80		0.77	1.01	1.25	1.49	1.73	1.98	2.22	2.46	2.70	2.94	3.18
	90		0.78	1.02	1.27	1.51	1.76	2.00	2.24	2.49	2.73	2.97	3.22
	100		0.78	1.03	1.28	1.53	1.77	2.02	2.27	2.51	2.76	3.01	3.26



- 1.机架
- 2.牵引链
- 3.导向装置
- 4.底活动栅条
- 5.驱动装置

- 6.检修孔盖板
- 7.托渣挡板
- 8.耙齿板
- 9.两侧挡板
- 10.栅条

- 1.Rack
- 2.Drag Chain
- 3.Guiding System
- 4.Bottom moving bars
- 5.Driving

- 6.Access Cover
- 7.Slag damper
- 8.Tooth plate
- 9.Bottom Damper
- 10.Grille bar

