



Rotary coarse grid cleaner

Purpose and introduction:

HL rotary coarse grid trash cleaning machine is a continuous automatic trash cleaning equipment more suitable for China's national conditions, which is developed jointly with Shanghai urban drainage Co., Ltd. and municipal engineering design and Research Institute on the basis of summarizing and analyzing the use of domestic original trash blocking and cleaning machinery at water intake, digesting and absorbing the advanced technology of foreign trash cleaning machinery.



HL rotary grid trash remover is an ideal equipment for pretreatment of water source inlet in large and medium-sized water supply and drainage engineering facilities. It is widely used in the pretreatment of rain and sewage in cities and planned communities, and the removal of sundries in the inlet water of waterworks, sewage treatment plants, power plants and steel plants, so as to reduce the treatment load of subsequent processes. At present, it has been successfully applied in Shanghai confluence sewage, Pudong Jinqiao District drainage system and other projects.

Main features:

- a. Safe operation. The transmission system is equipped with double protection of mechanical overload protection and overload limiter. The instrument of overload limiter can display the rotating load. When the underwater chain or rake teeth are stuck, the motor will automatically cut off power. The instrument has a remote monitoring interface to realize the remote monitoring of mechanical failure.
- b. The underwater sprocket and chain are equipped with anti blocking protection device, which can operate reliably, buffer, self clean, discharge dirt and discharge slag clean.
- c. The electrical control of the grid cleaning machine can set the corresponding start and stop times and single cycle time according to different requirements of users. At the same time, it can also control the operation of the equipment according to the liquid level difference before and after the grid.





Structure and working principle:

HL Type Grid cleaning machine is mainly composed of frame, grid bar, cleaning tooth rake, lifting chain, motor deceleration drive, etc. During operation, the trash raking plate fixed on the lifting chain, driven by the driving device, picks up the dirt partially intercepted by the underwater grid. The trash raking plate rotates clockwise from the back of the grid to the front of the grid synchronously by relying on the two side lifting chains. When the rake plate reaches the upper part, due to the action of the steering track and guide wheel, the dirt falls by itself by gravity, so as to achieve the purpose of decontamination.

Main technical parameters:

Model		HL -800	HL -1000	HL -1200	HL -1400	HL -1600	HL -1800	HL -2000	HL -2200	HL -2400	HL -2600	HL -2800	HL -3000	
Water depth in front of grid (m)		1.0												
Grid velocity (m/s)		1.0												
Overflow 104m ³ /d	Grid spacing (mm)	10	2.60	3.39	4.18	4.97	5.76	6.55	7.34	8.13	8.92	9.71	11.29	12.17
		20	3.47	4.50	5.52	6.63	7.57	8.68	9.74	10.80	11.84	12.89	15.06	16.22
		30	3.78	5.00	6.15	7.54	8.52	9.78	10.96	12.15	13.33	14.51	16.85	18.27
		40	4.10	5.36	6.62	7.89	9.15	10.43	11.68	12.94	14.21	15.47	17.98	19.46
		50	4.26	5.60	6.90	8.28	9.47	10.85	12.23	13.50	14.80	16.18	18.70	20.21
		60	4.40	5.78	7.10	8.52	9.94	11.17	12.55	13.87	15.25	16.57	19.40	20.85
		70	4.47	5.80	7.29	8.83	10.05	11.43	12.82	14.25	15.58	16.49	19.75	21.30
		80	4.54	5.99	7.45	8.94	10.11	11.55	13.00	14.52	15.79	17.24	20.10	21.63
		90	4.60	6.09	7.65	9.25	10.80	11.79	12.85	14.95	16.40	17.76	20.30	21.90
		100	4.65	6.15	7.75	9.35	10.94	12.15	14.10	15.68	17.10	18.25	20.57	22.15