



# Rotary Drum Screen

wasteX

# ROTARY DRUM screen



## | Product Introduction

Drum-type grille decontamination machine integrates the functions of traditional mechanical grille, conveying and screw press. Rotary drum filter screen contains all function of traditional mechanical filter screen, conveyer and screw press. Waste water enters into drum through rotary drum inlet, and flows through side screen rotates at the speed of 4-6r/min. Residue in screen gap will be cleaned by the nylon brush and wash nozzle on upward side of drum. All suspended solids and Residues will be pressed and dewatered through screw press conveyer, and conveyed to hopper on the top, and conveyed away. Rotary drum filter screen is widely used in pretreatment of urban sewage.

## | Main feature

The whole machine has compact structure, small floor space and easy installation, operation and maintenance; The gap between equipment bars is small, which can generally be designed in the range of 6~12mm; High pollution interception efficiency, closed transportation, no pollution to the environment; The equipment can be fully controlled with stable operation, low energy consumption and low noise; Automatic cleaning is carried out during the operation of the equipment, and it will never be blocked.

## Principle of operation

The equipment is installed in the water channel at 35° to the horizontal plane. The sewage flows into the drum from the end of the drum, the water flows out through the grid slits of the grid, and the solid waste is filtered in the grid basket. The cleaning arm with rake teeth moves in a circle. When cleaning the grille gap, the rake teeth extend into the grille to take out the solids. When the cleaning arm is at a high point, the rubbish is re-moved from the rake tines and falls into the rubbish by the washing of water and the action of the slag baffle. In the screw conveying bucket of the collecting device, it is dehydrated by the action of changing the pitch during the conveying process, squeezed dry in the upper compression area, and the squeezed water is returned to the water channel, and the garbage is sent to the container or subsequent equipment for further processing.



## | Model Reference

Model	WT-ZGGS-600	WT-ZGGS-800	WT-ZGGS-1000	WT-ZGGS-1200	WT-ZGGS-1400	WT-ZGGS-1600	WT-ZGGS-1800	WT-ZGGS-2000	WT-ZGGS-2200	WT-ZGGS-2400	
Rotary drum diameter (mm)	φ600	φ800	φ1000	φ1200	φ1400	φ1600	φ1800	φ2000	φ2200	φ2400	
Channel width (mm)	640	840	1040	1240	1440	1640	1840	2040	2240	2440	
Power (kw)	1.5			1.5			2.2				
Screen gap (mm)	Water flow rate (m <sup>3</sup> /h)										
0.5	70	130	220	290	420	560	700	800	1050	1280	
1	120	220	370	500	720	950	1200	1500	1800	2100	
2	190	330	550	760	1100	1400	1800	2250	2700	3250	
3	230	400	680	930	1300	1760	2200	2700	3300	3800	
4	240	430	720	1000	1400	2050	2700	3300	4000	4600	
5	252	460	800	1100	1580	2200	2900	3600	4300	5200	



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