



WZXG中心传动刮泥机

WZXG Center-driven sludge scraper

工作原理

中心传动刮泥机采用中心传动、悬挂式，污水从工作桥下进水管流入导流筒扩散后，均匀的向周边呈辐射状流出，呈悬浮状的污泥经沉淀后沉积于池底，驱动装置带动中心立轴旋转，并带动刮臂及刮泥板转动，将污泥从池周刮向中心集泥槽后，靠池内静水压由排泥管排出池外，水面上的浮渣通过旋转撇渣装置撇向池边，再由刮渣耙刮进排渣斗内排出池外；而上清液则通过三角形出水堰板溢入出水槽内排出。

Working principle

Center-driven sludge scraper is suspended. When the sewage is diffused from the water inlet tube under the working bridge into the flow guide tube, it uniformly flows in the radial direction, and the suspended sludge is settled in the bottom of the pool, while the driving unit drives the rotation of the center shaft and motivates the rotation of the scraping arm and scraping plate, scraping the sludge from around the pool to the central sludge collecting tank, discharging the sludge from the sludge discharge tube under the static water pressure in the pool out of the pool, and the scum on the water surface is skimmed by the rotating scum skimming device to the sides of the pool and is then scraped by the scum rake into the scum hopper for discharge out of the pool; while the supernatant liquor is discharged from the triangular water outlet weir plate by overflow into the water outlet tank.



型号意义 Meaning of the model



应用领域

中心传动悬挂式刮泥机适用于中心进水、周边出水、中心排泥的中小型池径的沉淀池，主要用于工业废水处理和城镇污水处理项目的沉淀池排泥。

技术优势

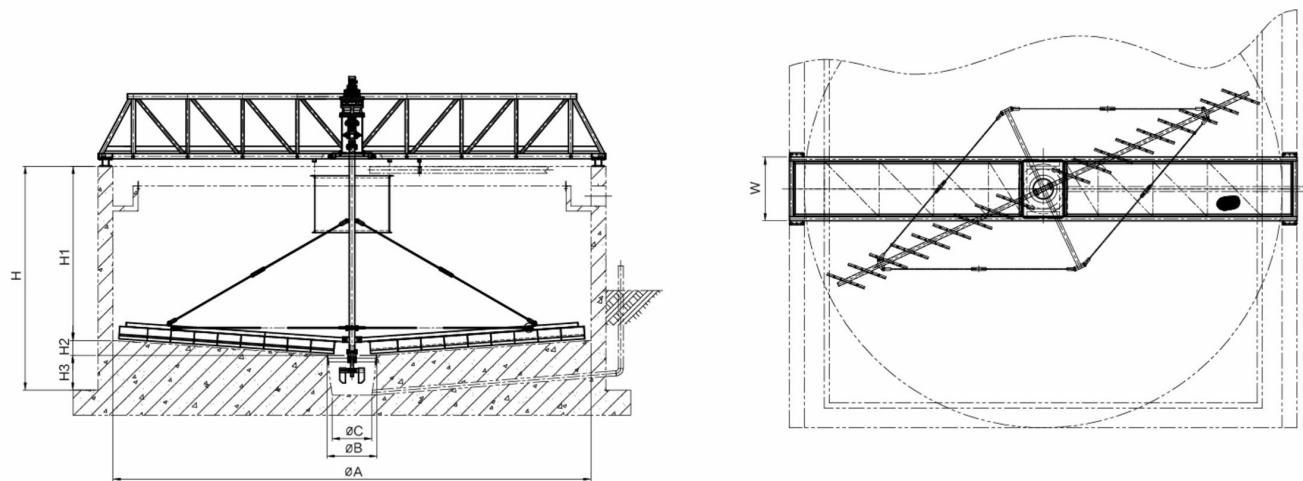
- ▶ 工作桥采用钢桁架结构，简洁、美观且轻巧，也可以采用钢砼梁平台。
- ▶ 具有安装、维护简便、运行费用低。
- ▶ 传动减速机有多种选择：采用三级摆线减速机直接驱动，结构简单紧凑，检修方便；采用减速机，传动齿轮、回转轴承组合驱动，能获得极大的驱动扭矩，适用于重载场合。
- ▶ 设备操作简便，可直接就地/远程控制设备的运行。
- ▶ 设备可按照用户尺寸制造。与水接触部件可以用不锈钢制作。

Application field

Suspended center-driven sludge scraper applies to the sedimentation tank with small and medium-sized diameter with central water intake, surrounding water discharge and center mud discharge, mainly used for sludge discharge in the sedimentation tank of the industrial wastewater treatment and municipal sewage treatment project.

Technical advantages

- ▶ Working bridge is designed with steel truss structure, being brief, beautiful and lightweight, and may also be used with the reinforced concrete beam platform.
- ▶ It is characterized by convenient installation and maintenance and low operation cost.
- ▶ Driving speed reducer may be available in multiple choices: Three-level speed reducer is used for direct driving, characterized by simple and compact structure and convenient inspection and maintenance; speed reducer is driven by the driving gear in combination with the slewing bearing, capable of achieving very large driving torque, applicable for heavy-load scenarios.
- ▶ Equipment is convenient for operation, allowing for direct local/remote control of the equipment operation.
- ▶ Equipment can be manufactured according to the sizes provided by the user. Components in contact with water can be fabricated with stainless steel.



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型号规格及相关技术参数 Model specifications and related technical parameters

型号 Model	池径(A) Capacity m	池周边深 (H1) Depth m	周边线速度 Peripheral line velocity m/min	驱动功率 Driving KW	导流筒ΦE Flow guide tube m	池底坡度 Slope of the pool bottom %
WZXG-3	3	3.0~4.0	2	0.55	0.5	5~8
WZXG-4	4	3.0~4.0	2	0.55	0.6	5~8
WZXG-5	5	3.0~4.0	2	0.55	0.7	5~8
WZXG-6	6	3.0~4.0	2	0.55	0.8	5~8
WZXG-7	7	3.0~4.0	1.8	0.75	1	5~8
WZXG-8	8	3.0~4.0	1.8	0.75	1.2	5~8
WZXG-10	10	3.0~4.0	1.8	1.1	1.4	5~8
WZXG-12	12	3.0~4.0	1.8	1.1	1.6	5~8
WZXG-14	14	3.0~4.0	1.8	1.1	2	5~8
WZXG-16	16	3.0~4.0	1.8	1.5	2	5~8
WZXG-18	18	3.0~4.0	1.8	1.5	2.4	5~8
WZXG-20	20	3.0~4.0	1.8	1.5	2.5	5~8