

WBZG半桥周边传动刮泥机

WBZG half-bridge perimeter drive mud scraper

工作原理

周边传动刮泥机由工作桥、刮臂及刮泥板组件、中心支座、驱动机构、集电器、电控箱等主件和出水三角堰板、稳流筒、挡渣板、浮渣刮板等组成。

工作桥由安装在周边的驱动机构带动，绕安装在池中心支墩上的中心支座旋转。悬挂在工作桥下的刮臂拖动对数螺旋线刮泥板旋转，沉淀在池底的污泥由刮泥板收集至中央集泥坑。液面上的浮渣在浮渣刮板和周边挡渣板形成的渐缩区域内集中，由浮渣刮耙扒到集渣斗，排出池外。

Working principle

Peripheral driven sludge scraper is composed of working bridge, scraping arm and scraping plate components, center base, driving mechanism, current collector, electric control box, as well as the triangular weir plate, flow stabilizing tube, scum baffling plate, and scum scraping plate.

The working bridge is driven by the driving mechanism installed in the surrounding area, for rotation around the center base installed on the supporting buttress in the pool center. The scraping arm hung under the working bridge ties the scraping plate of logarithmic spiral line for rotation, and the sludge settled in the pool bottom is collected by the scraping plate into the central sludge pit. The scum on the surface is collected into the convergent zone formed by the scraping plate and the surrounding scum baffling plates, and is then pulled by the scum rake into the hopper, and discharged out of the pool.



型号意义 Meaning of the model



应用领域

主要用于辐流式初沉，二沉池的排泥，也可用于浓缩池的排泥，是一种新型的刮泥机。

Application field

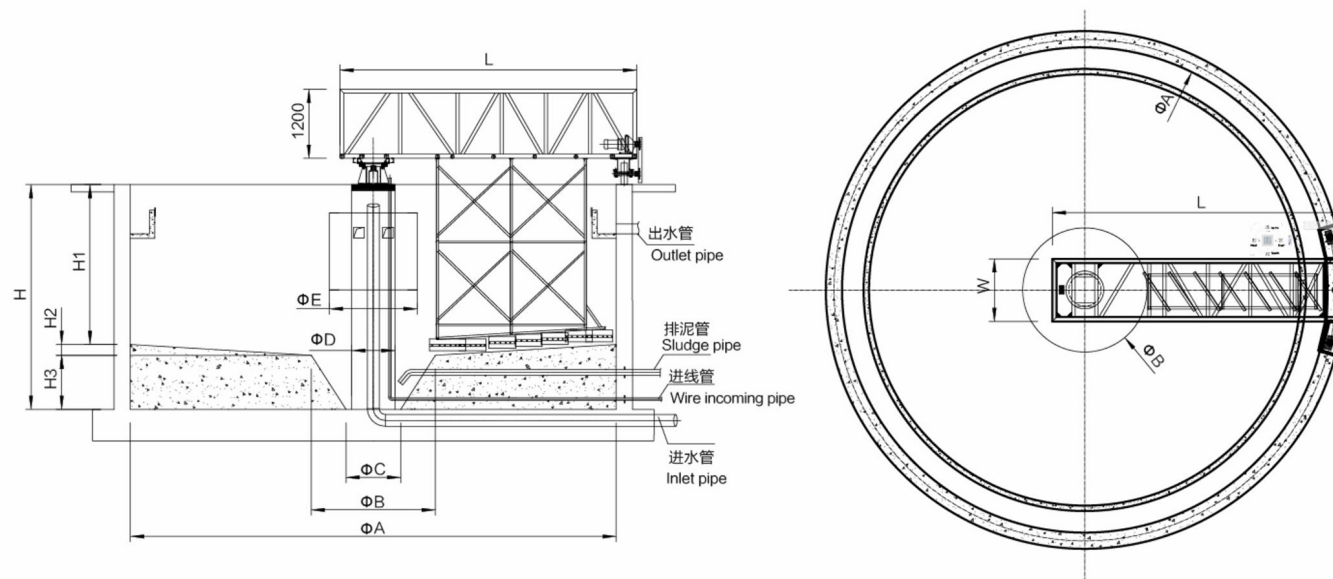
It is mainly used for sludge discharge of primary settling and secondary settling tanks of radial flow type, and can also be used for sludge discharge of the concentration tank. It is a new-type sludge scraper.

技术优势

- ▶ 工作桥采用桁架结构，简洁、美观、轻巧。
- ▶ 维护简单方便，运行费用低。
- ▶ 传动减速机多种选择：采用轴装式，结构简单紧凑，检修方便；采用摆线针轮减速机，价廉物美、传动效率高。
- ▶ 根据用户需要，行走轮轮面材料可以选用工程橡胶轮(标准配置)、钢轮、尼龙轮、聚氨酯轮。
- ▶ 高效率的对数螺旋线刮泥板，保证了刮集污泥的可靠性。
- ▶ 电气元件均采用户外型，安全可靠，可随机控制和远程控制。
- ▶ 设备可以按用户特定尺寸制造。与水接触的部件可以用不锈钢制作。

Technical advantages

- ▶ Working bridge is designed with the truss structure, brief, beautiful and lightweight.
- ▶ It is characterized by convenient installation and maintenance and low operation cost.
- ▶ There are multiple types of the driving speed reducers available for choice: shaft-mounted type, characterized by simple and compact structure, and convenient inspection and maintenance; the cycloidal needle wheel speed reducer is characterized by low price and fine quality, and high driving efficiency.
- ▶ According to the needs of users, surface material of the traveling wheel may be chosen from engineering rubber wheel (standard configuration), steel wheel, nylon wheel, and polyurethane wheel.
- ▶ High-efficiency scraping plate of logarithmic spiral line guarantees the reliability of sludge scraping and collection.
- ▶ Electrical elements are of the outdoor type, safe and reliable, allowing for random control and remote control.
- ▶ Equipment can be manufactured according to the specific 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 %
WBZG-3	3	3.0~4.0	2	0.55	0.8	5~8
WBZG-4	4	3.0~4.0	2	0.55	1	5~8
WBZG-5	5	3.0~4.0	2	0.55	1.2	5~8
WBZG-6	6	3.0~4.0	2	0.55	1.4	5~8
WBZG-7	7	3.0~4.0	1.8	0.75	1.4	5~8
WBZG-8	8	3.0~4.0	1.8	0.75	1.5	5~8
WBZG-10	10	3.0~4.0	1.8	1.1	1.5	5~8
WBZG-12	12	3.0~4.0	1.8	1.1	1.5	5~8
WBZG-14	14	3.0~4.0	1.8	1.1	1.5	5~8
WBZG-16	16	3.0~4.0	1.8	1.5	1.8	5~8
WBZG-18	18	3.0~4.0	1.8	1.5	2	5~8
WBZG-20	20	3.0~4.0	1.8	1.5	2.2	5~8