

● 用途 Applications

中心传动单（双）管吸泥机是我公司在吸收国内外先进技术的基础上开发成功的新产品，主要适用于周边进水、周边出水的大型圆形沉淀池中、排除沉淀池底部的污泥，使水质净化。该机型具有沉降面积大、沉降效率高、处理效果好等优点。我公司经专业人员深入研究、消化吸收国内外先进技术，建立了一套完善的水力模型，经多年实践证明，可以确保布水均匀、排泥均匀、充分发挥周边出水沉淀池的优点。

ZXX type Center Transmission Single (Double) Pipe Dirt Sucking Machine is the new product our company has developed by referring to new technology from both at home and abroad, which is mainly used for big round sedimentation tanks of periphery water feeding and discharging types to get rid of the dirt sediment on the bottom of the pools to purify water. This machine has the advantages of large sediment area, high sediment efficiency and good treatment result. After looking into and absorbing the advanced technology from both at home and abroad, we have established a perfect hydrostatic model. After several years of test and experiment, our products can ensure even water distribution and even dirt discharge to bring into full play the advantages of periphery water feeding and discharging sediment pools.

● 特点 Features

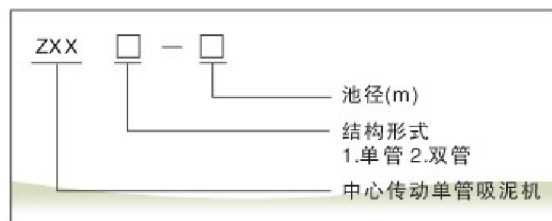
1. 采用新型结构，根据污泥沉降量采用一根或2根排泥总管，结构轻，排泥均匀。
2. 采用新型传动机构，传递扭矩大，可达50000N·m，工作可靠。
3. 单（双）管吸泥机一侧设吸泥管，另一侧设刮泥板，或两侧均为排泥管，使排泥更彻底。
4. 根据不同的流量及池径设计周边进出水槽，详细资料另行提供。
5. 设有过载报警，超载停机，扭矩保护等多重措施，确保安全运行。

● 工作原理及构造 Working Principle and Strucure

周边进水、周边出水的沉淀池是一种先进的污水处理构筑物。污泥混合物进入配水槽内，经槽底配水孔均匀地流入池内，在周边进水挡板的作用下，水流从池底部流向中心，从上部返回四周出水槽内（详见下图），在此过程中，污泥在重力作用下沉积于池底，完成泥水分离。周边配水槽采用变断面，配水孔不均匀分布设计，以保证配水槽在变水头、变流量状况下周边配水的均匀性。

吸泥机悬挂于沉淀池中心柱上，驱动机构带动桁架与吸泥管旋转，在静水压力的作用下，污泥均匀地进入吸泥管上经独特设计的排泥孔口，在排水井内套筒阀的控制下排出池外，排泥量的大小由套筒阀的开启度来控制。池表面的浮渣通过表面撇渣装置撇入排渣斗，排入集泥坑。

● 型号示例 Type and Its Indication



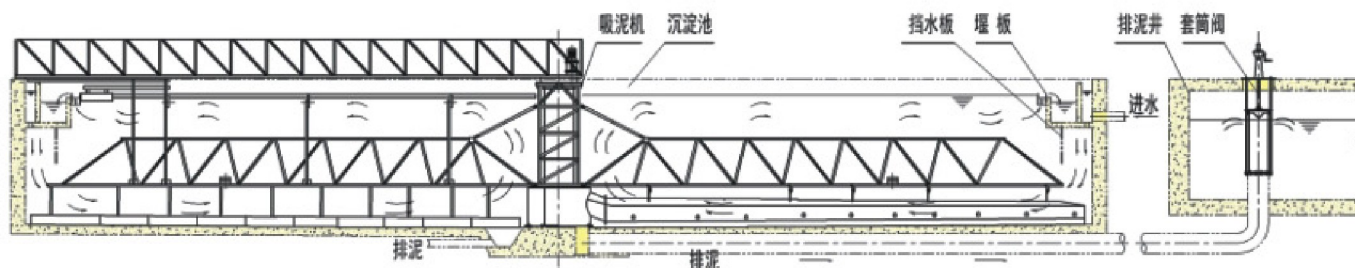
垂架式中心传动吸泥机

1. Being a new type of light structure, the sucker has one or two main pipe for discharge of sediment on each side and can evenly discharge sediment.
2. The sucker adopts a new type of reliable transmission device, whose torsion can reach as high as 50000N·m, reliable in work.
3. Single(Double) pipe dirt sucking machine has one sucking pipe on the one side and a scraper on the other or sucking pipes on either side to ensure thorough dirt discharge.
4. The circular water trough for feeding or discharging is designed and based on different water volumes and tanks' diameters, the detailed reference will be available separately.
5. Overload alarm is set; the sucker will stop working if overload occurs, the kind of protective measure and the torsion protection device all ensure the system to be safely in operation.

The settling tank, in which water is fed and discharged from its circular wall, is an advanced structure for waste water treatment. Firstly, the mixture of water and sediment enter water distribution trough, then evenly flow into the tank through holes at the bottom of the trough, blocked by the fender on the wall, the water converges toward the center of the tank, then overflows into the circular trough for water discharge. In the process, the sediment settles on the bottom of the tank, due to the effect of its gravity, finally is separated from water. The water distribution trough on the circular wall adopts a design that holes are unevenly distributed on changing sections, and that makes water in the trough wall distributed even when water pressure and water volume are changing.

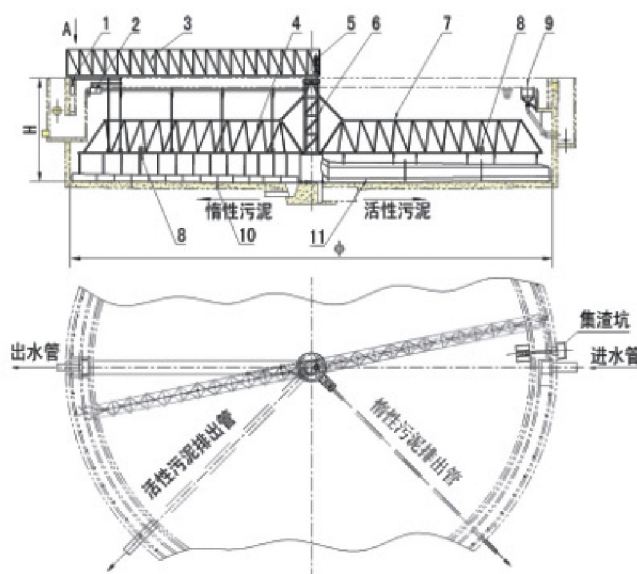
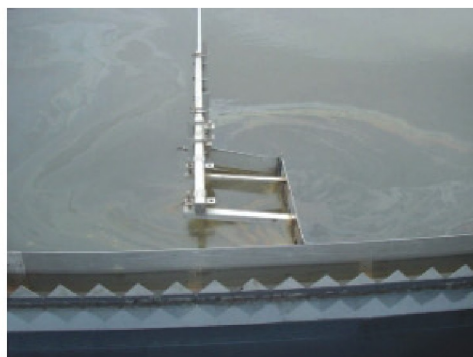
The Sucker is suspended on the pole in the center of the settling tank, and the truss and sucking pipe are driven to rotate by the driving device. Due to the effect of the static head of water, the sediment is evenly absorbed to the specially designed discharge port on the sucking pipe, and discharge well; the discharge volume is determined by the opening of the muff valve. Suspending dregs on the water surface are skimmed off and discharged to a hopper for dregs discharge, and later brought into a pit for collection of scum.

● 单管吸泥机水力示意图 Single Sucker Machine's Hydraulic Diagram



外形尺寸与性能参数 Shape and Size Parameters

参 数 型 号	池 径 Φ (m)	周 边 线 速 (m/min)	电 机 功 率 (kW)	池 深H (m)
ZXX-25	Φ 25	3~4.5	0.55	3.5~4.5
ZXX-36	Φ 36			
ZXX-40	Φ 40		0.75	
ZXX-42	Φ 42			
ZXX-50	Φ 50			



1、进水槽撇渣板 2、撇渣机构 3、工作桥 4、刮泥架 5、传动机构
6、中心竖架 7、吸泥架 8、配重块 9、排渣斗 10、刮泥板 11、吸泥管

订货说明 Requirements for Order

1. 订货时请提供二沉池的设计流量(最大、最小、平均值), 池径、池深、回流比等工艺设计基本参数及吸泥机的数量。
2. 需要溢流堰板, 挡水板、排渣斗、套筒阀等配件时, 请予注明。若远程控制时, 套筒阀需用电驱动, 请予注明, 渣斗及堰板安装参见周边传动吸泥机。
3. 注明主体设备的材质(碳钢或不锈钢等), 防腐有特殊要求时请注明。
4. 用户有特殊要求时, 经双方协商后作出调整。
5. 我公司可根据用户要求为用户设计50m以内的任何规格的吸泥机。
6. 我公司可为用户提供安装、调试等完善的售后服务。

1. When placing an order, note the basic parameters such as the design capacity of flow (the maximum capacity, the minimum one, the average one), the diameter of the tank, the depth, reflux ratio, and etc, and note how many suckers are needed.
2. In the case of remote-control, please specify if muff valve should be electrically driven. The installation of overflow weir and hopper for discharge of dregs refers to the peripheral transmission dirt scrapping and sucking machine, note that; for the installations of the hopper and overflow weir, refer to SLUDGE SUCKING MACHINE BY PERIPHERAL TRANSMISSION (P89) .
3. Note material of the principal parts of the sucker (carbon steel, or stainless steel, or something else), also note the special corrosion-resisting requirements if necessary.
4. When customers place orders with special requirements, the size and parameters of the sucker may be revised according to the agreement reached between them and the seller.
5. Based on the requests of customers, the company can design every sediment sucker which has a diameter of less than 50m.
6. The company provides customers with perfect after-sale services such as installation, debugging and so on.