



## Peripheral drive mud scraper suction machine

### Purpose and introduction:

The equipment is mainly used for radial flow sedimentation tanks with a diameter greater than 20m in water supply or drainage projects.



### Characteristic:

- Large processing capacity can save floor area.
- The equipment scrapes mud, sucks mud and scrapes scum at the same time, with less energy consumption and about 50% power saving compared with the equipment of the same specification.
- The sludge is sucked while traveling. The discharged activated sludge has high concentration and good sludge discharge effect.
- The scraper suction port has the advantages of simple structure, not easy to be blocked, safe and reliable operation and convenient maintenance.
- Strong adaptability and easy to realize full-automatic control.

### Structure and working principle:

HXB type peripheral drive mud scraper and suction machine mainly includes main beam (truss beam or folded plate beam), overflow weir, transmission device, steady flow cylinder, central mud tank, mud discharge tank, scraper, mud suction device, Scum Collection and removal facilities and power transmission device.

The water to be treated enters from the inlet pipe of the central cylinder, flows steadily into the sedimentation tank through the flow stabilizing cylinder, and then diffuses and precipitates around. The clean water flows out of the overflow weir at the side of the tank, in which the sediment is scraped and collected to the mud suction port by the mud scraper. According to the principle of connecting pipe, the sludge at the bottom of the tank is sucked into the sludge discharge tank by using the water level difference; It enters the central cylinder through the siphon and is discharged through the sludge discharge pipe. At the same time, the scum in the tank is collected by the scum scraper and discharged out of the tank through the slag bucket.

### Specifications and main technical parameters

Model	Pool diameter (m)	Pool depth (m)	Peripheral velocity (m/min)	Motor power (kw)
HXB-20	20	3-5.6	1.6	0.37x2
HXB-25	25		1.7	
HXB-30	30		1.8	0.55x2
HXB-37	37		2.0	
HXB-45	45		2.2	0.75x2
HXB-55	55		2.4	
HXB-60	60		2.6	1.5x2
HXB-80	80		2.7	
HXB-100	100		2.8	2.2x2