



Suspended center drive mud scraper

Purpose and introduction

HGZ hanging center drive mud scraper is suitable for scraping, collecting and discharging sludge from radial flow (circular) sedimentation tanks with a diameter of no more than 20 m in water plants or sewage treatment plants in water supply and drainage projects.



Structure and working principle:

The suspended center drive mud scraper is mainly composed of deceleration drive mechanism, transmission vertical shaft, scraper arm, underwater bearing and mud collecting tank scraper. The load of the whole mud scraper acts on the center of the working bridge fixed across the pool diameter.

The raw water flows radially to the overflow tank around the tank after being simply distributed through the central water distribution. With the decrease of flow rate, the suspended solids in the water body are separated and settled at the bottom of the tank. Through deceleration drive and transmission of suspension components, the sludge is scraped and collected to the central sludge tank by scraper and discharged out of the tank by hydrostatic force or pump.

Specifications and main technical parameters:

Model and specification	Applicable pool diameter ϕ (m)	Motor power (kw)	Peripheral walking linear speed (m/min)		Number of wiper arms	Load on both sides (KN)	Mounting dimensions				
			Primary sedimentation	Secondary sedimentation			A	B	C	D	
HGZ-6	6	0.37-2.2	2~3	1.5-2.5	2	19	340	320	105	420	
HGZ-7	7										22
HGZ-8	8										24
HGZ-9	9										26
HGZ-10	10										29
HGZ-11	11										31
HGZ-12	12										34
HGZ-13	13										36
HGZ-14	14										39
HGZ-15	15										41
HGZ-16	16										44