# Peripheral drive mud scraper

## Purpose and introduction:

HGA peripheral drive mud scraper is suitable for mud scraping and skimming of radial flow (circular) sedimentation tank with large diameter (Φ> 15m) in water plant or sewage plant in water supply and drainage engineering.

## Characteristic:

a. The utility model has the advantages of simple structure, low energy consumption and convenient maintenance and management.
b. Stable operation, safe and reliable operation.
c. Good sludge scraping effect and low moisture content of discharged sludge.

## Structure and working principle:

The peripheral drive mud scraper is mainly composed of central rotating support, main beam (truss beam, folded plate beam), guide cylinder, mud scraper, slag scraper, power collector, driving mechanism, etc.

The raw water flows out from the bottom of the pool through the upper part of the central pier, and after water distribution through the diversion cylinder, it flows radially to the water collecting tank around the pool. With the decrease of radial velocity, the suspended solids in the raw water are separated and settled at the bottom of the pool. The rotating truss takes the central support as the center, and the end walking wheel rotates along the circumference of the tank under the action of the driving device to drive the lower mud scraper to rotate slowly, scrape and collect it to the central mud collecting tank of the sedimentation tank, discharge it out of the tank by hydrostatic pressure or pump, and the upper scum is scraped to the slag bucket by the slag scraper.

## Specifications and main technical parameters:

| Model | | HGA-16 | HGA-18 | HGA-20 | HGA-22 | HGA-24 | HGA-25 | HGA-28 | HGA-30 | HGA-35 | HGA-37 | HGA-40 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Applicable pool | | 16 | 18 | 20 | 22 | 24 | 25 | 28 | 30 | 35 | 37 | 40 |
| Motor power | | 1.1 | | 1.5 | | | 2.2 | | | 3.0 | | |
| Linear velocity of outer edge | Primar | 2~3 | | | | | | | | | | |
| | Secon | 1.5-2.5 | | | | | | | | | | |
| Embedded parts and civil engineering conditions (mm) | D | 2800 | 2800 | 3000 | 3000 | 3500 | 4000 | 4000 | 4200 | 4200 | 4500 | 4500 |
| | 0 | 1350 | | | | | | | | | 1400 | |
| | H1 | 1800 | | | | | | | | | | |
| | a | 1200 | | 1400 | | | | 2000 | | | | 2000 |
| | | 800 | | 900 | | | | 1000 | | | | 1200 |
| | c | 280 | | 300 | | | | 320 | | | | 350 |
| | d | 200 | | | | | | | | 250 | | |
| | h2 | 700 | | 800 | | | | 900 | | | 1000 | 1000 |
| | e | | | | | | | | | | 900 | |
| Load(N) | P | 39240 | 44145 | 49050 | 53955 | 58860 | 63765 | 68670 | 78480 | 93195 | 10791 | 11281 |
| | w | 44145 | 49050 | 53955 | 58860 | 63765 | 68670 | 73575 | 83385 | 98100 | 11281 | 11772 |