



## Stacked screw sludge dehydrator

### Product introduction

The stacked screw sludge dehydrator is a new type of solid-liquid separation equipment which uses the screw extrusion principle to realize the extrusion dehydration of sludge through the strong extrusion pressure generated by the change of screw diameter and pitch and the small gap between the swimming ring and the fixed ring.



### Construction principle

The main body of the spiral sludge dehydrator is a filtering device formed by multiple fixed rings and swimming rings, and the spiral shaft runs through them. The front section is the concentration section and the rear section is the dehydration section, which completes the sludge concentration and pressing dehydration in one barrel, replacing the traditional filter cloth and centrifugal filtration mode with a unique and subtle filter body mode.

### Dehydration principle

After gravity concentration in the concentration section, the sludge is transported to the dehydration section. In the process of moving forward, with the gradual reduction of filter joint and pitch and the blocking effect of back pressure plate, great internal pressure is generated and the volume is continuously reduced, so as to achieve the purpose of full dehydration.



### Product advantages

- a. Self cleaning, no blockage
- b. The design has compact structure, small floor area and convenient installation
- c. Low speed operation, low energy consumption and low noise
- d. Fully automatic control, simple operation and maintenance
- e. Stainless steel integrated body, durable
- f. Closed operation to reduce the generation of odor
- g. The moisture content of sludge after thickening is 91% - 95%, with large output, stable effect

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and flexible regulation

- h. It is suitable for sludge from municipal sewage, construction sewage, food processing, textile printing and dyeing, pharmaceutical, oil exploration, animal husbandry and other industries

**Type selection table of stacked screw sludge dehydrator:**

Model	Absolute dry sludge treatment capacity(kg-DS/hr)	size (mm)			weight(kg)		Total motor power(KW)
		Length (L)	Width (W)	Height (H)	Net weight	Operation weight	
HDL-201	9 ~ 15	2240	590	1380	320	470	0.3
HDL-202	18 ~ 30	2650	960	1380	470	730	0.6
HDL-301	30 ~ 50	3370	940	1670	910	1310	0.8
HDL-302	60 ~ 100	3570	1260	1670	1350	2130	1.2
HDL-303	90 ~ 150	3830	1620	1670	1820	2880	1.95
HDL-401	90 ~ 150	4356	1170	2400	2500	3400	2.25
HDL-402	180 ~ 300	4900	1640	2440	3480	5200	4.5
HDL-403	270 ~ 450	5030	2240	2400	4550	7050	6.7
HDL-404	360 ~ 600	5350	3240	2400	6550	9660	8.2