



## Screw Washing Machine

The [screw washing machine](#) is mainly used for sand processing, electric pole factory, building work site and concrete dam, various sands classifying and dewatering. The screw washing machine adopts inclination of 15°, under the water tub, three weir plates form the sediment pool, the screw head is immersed in this pool, the screw is driven by electric motor through reducer rotating continuously, the fresh water is feeding from porous plate at bottom of sediment pool, this machine have three functions of washing, dewatering, classifying.



### **Washing:**

The sand is feeding into the sediment pool from the feeding box, acting by rotating screw blade, the sand is turning and rolling and grinding each other to eliminate impurity and water-air layer around sand to facilitate de-water. The fresh water rising current from the porous plate carry foreign matter to water



surface and overflow the weir plate, to finish washing processing.

## De-watering:

The sand with bigger density is sunken down to tub bottom, the screw blade push this sand upwards, when passing through upper tub of proper length above water level, the water is draining into sediment pool from another drainage ditch, the de-watered sand is out from the discharging opening.

## Classifying:

Material classifying is realized by overflowing the non-needed fines, the controlling method is adjusting height of overflowing weir and adjusting speed of screw.

## Technical Data Of Screw Washer

Type (m)	Rotary Speed (r/min)	Capacity(t/d)		Chute Slope	Power ( kw)	Weight (T)
		Sand of Return	Flooding			
300	8.3-22	30-80	10-30	12	Y1.1-6	1.0
500	8-15.5	140-260	32	14-18	Y1.1-6	1.6
750	4.5-10	250-570	65-154	14-18	Y3-6	2.7
1000	1.6-7.4	216-1000	50-260	14-18	Y5.5-6	4.1
1200	5-7	1170-1600	155	12	Y7.5-6	7.5
1500	2.5-6	1340-2740	235	16	Y7.5-6	10.5



Shanghai Yuanhua [Crusher](#) Machinery: E-mail :shyhlq@crusher-mill.com

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## **Contact Us**

**Add: Gucun Industrial Park, Shanghai, China**

**Zip: 201907**

**Tel: 0086-21-36040745**

**FAX: 0086-21-33854292**

**E-mail: [shyhlq@crusher-mill.com](mailto:shyhlq@crusher-mill.com)**

**Website: <http://www.crusher-mill.com>**