



# Screw sand washing machine





Screw sand washing machine is mainly used for sand processing, electric pole factory, building work site and concrete dam, various sands classifying and dewatering.

This sand washer adopts inclination of  $15^{\circ}$ , 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.

## Working Principle

**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 Parameter:

Models	LSX-920	2LSX-920	LSX-1120	2LSX-1120
Diameter of screw (mm)	920	920	1120	1120
Length of tub (mm)	7585	7585	9750	9750
Feed Size (mm)	$\leq 10$	$\leq 10$	$\leq 10$	$\leq 10$
Capacity (t/h)	100	200	175	350
Speed of screw (r/min)	21	21	17	17
Electric Motor Power (kW)	11	2x11	18.5	2x18.5
Water Consumption (t/h)	10-80	20-160	20-150	40-300
Dimension (mm) (L×B×H)	8420×2180×3960	8420×3970×3960	10770×3950×4860	10770×5260×4860
Weight (t)	6.2	11.5	10.9	17.8

Note: Any change of Screw Sand Washing Machine technical data shall not be advised additionally.