

# Submerged Spiral Classifier



## **Descriptions**

Submerged Spiral Classifier With the help of the principle that the solid particle size is different, the specific gravity is different, and its settling speed in the liquid is different, when the slurry is sent to the spiral classifier, the fine ore particles float in the water and flow out as overflow, and the coarse ore particles sink at the bottom of the tank and are pushed to the upper part by the spiral.

The feed inlet of the submerged classifier is located in the middle of the settlement area. Below the obliquely installed water tank is the pulp grading settlement area. The screw rotates at a low speed to stir the pulp to suspend the fine particles above and overflow at the overflow weir. Coarse particles sink to the bottom of the tank and are transported to the discharge port by screw as return sand.

The spiral blade of submersion classifier at lower end completely submerged under the liquid level, the classifying area is big and smooth, suitable for fine particle classification, which is less 0.15mm, and with higher overflow productivity.

## **Features:**

**1:spiral at the overflow end sinks below the liquid level in the settlement area, which is deep and large.**

**2:Submerged spiral classifier is good for fine particle classification equipment;**

## Technical Specifications of Submersion Type Spiral Classifier

Type	Model	Spiral diameter (mm)	Spiral rotation speed (r/min)	Tank		Inclination angle (°)	Capacity		Power (Kw)		Weight (Kg)
				Length (mm)	Width (mm)		Overflow (m³)	Sand return (m³)	Driving motor	Lifting motor	
Submersion Type Single Spiral	FLC-10	1000	6-7.4	8400	1112	14°-18°30'	75	473-1026	5.5	--	6000
	FLC-12	1200	5-7	8400	1372	14°-18°30'	120	1170-1630	7.5	2.2	11020
	FLC-15	1500	2.5-6	10500	1664	14°-18°30'	185	1140-2740	7.5	2.2	15340
	FLC-20	2000	3.6-5.5	12900	2220	14°-18°30'	320	3890-5940	11/15	3	29060
	FLC-24	2400	3.64	11130	2600	14°-18°30'	455	6800	18.5	4	37267
	FLC-30	3000	3.2	14300	3200	14°-18°30'	705	11650	30	4	43500
Submersion Type Double Spiral	2FLC-12	1200	6	8400	2600	14°-18°30'	240	1770-2800	7.5×2	1.5×2	19610
	2FLC-15	1500	2.5-6	10500	3200	14°-18°30'	370	2280-5480	7.5×2	2.2×2	27450
	2FLC-20	2000	3.6-5.5	12900	4280	14°-18°30'	640	7780-11880	11×2 15×2	3×2	50000
	2FLC-24	2400	3.67	11130	5100	14°-18°30'	910	13700	37	4×2	65283
	2FLC-30	3000	3.2	14300	6300	14°-18°30'	1410	23300	45	4×2	84870

## Applications



**silica sand spiral classifier**



**spiral classifier machine**



**sand classifier**