

# High weir Spiral Classifier



WELL-TECH EQUIPMENT  
威尔国际矿业装备

## Descriptions

Spiral classifier with ball mill be closed-circuit grinding system, overflow to next machine such as centrifugal concentrator or shaking table, Sinking sand return to ball mill for grinding again.

Spiral classifiers suitable for dewatering, de-medium, desliming and wet and dry classifying in mine. This machine is mainly used in the production flow of metal processing, according to the difference in sedimentation rate of mineral particles and mud, the ore with particle size 14-325 meshes can be classified, it also can separate waste mud or dewatering for the ore. According to liquid level the spiral classifier can be divided into high weir type and submersion (or sinking ) type, The overflow weir of high weir classifier is higher than the center of the spiral axis at lower end, but lower than the upper edge of the spiral blade. The length of liquid level is short, so its surface can directly gets the stirring effect by the spiral blade, therefore it suitable for coarse particle classification, usually the classified particle size is over 0.15mm. The spiral blade of submersion classifier at lower end completely submerged under the liquid level, the classifying area is big and smooth, suitable for classification for fine particle which is less than 0.15mm, its overflow productivity is higher.

## Technical Specifications of High Weir 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 (m <sup>3</sup> )	Sand return (m <sup>3</sup> )	Driving motor	Lifting motor	
High	FLG-5	500	8.5-11.5	4500	555	14°-18°30'	32	143-261	1.1	0	1600

Weir Type Single Spiral	FLG-7	750	4.5-9.9	5500	830	14°-18°30'	65	256-564	3	0	2900
	FLG-10	1000	3.5-7.6	6500	1112	14°-18°30'	85	473-1026	5.5	0	4400
	FLG-12	1200	6	6500	1372	14°-18°30'	155	1170-1600	5.5	1.5	8800
	FLG-15	1500	2.5-6	8265	1664	14°-18°30'	235	1140-2740	7.5	2.2	11680
	<b>FLG-20</b>	<b>2000</b>	<b>3.6-5.5</b>	<b>8400</b>	<b>2200</b>	<b>14°-18°30'</b>	<b>400</b>	<b>3890-5940</b>	<b>11/15</b>	<b>3</b>	<b>20450</b>
	FLG-24	2400	3.64	9130	2600	14°-18°30'	580	6800	15	3	25650
	FLG-30	3000	3.2	12500	3200	14°-18°30'	890	11650	22	4	37000
High Weir Type Double Spiral	2FLG-12	1200	6	6500	2600	14°-18°30'	310	2340-3200	5.5×2	1.5×2	15840
	2FLG-15	1500	2.5-6	8250	3200	14°-18°30'	470	2280-5480	7.2×2	2.2×2	22100
	2FLG-20	2000	3.6-5.5	8400	4280	14°-18°30'	800	7780-11880	11×2 15×2	3×2	36400
	2FLG-24	2400	3.67	9130	5100	14°-18°30'	1160	13600	30	3×2	45874
	2FLG-30	3000	3.2	12500	6300	14°-18°30'	1785	23300	45	4×2	73030

## Applications



**Rock gold plant grinding machine**



**high weir ore spiral classifier for gold mining**



**Spiral Classifier for Mineral Processing**