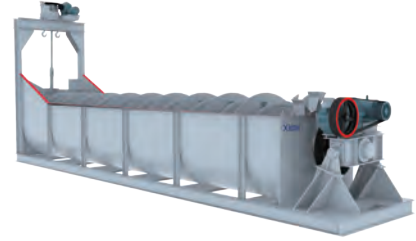


▶ Submerged Spiral Classifier

Principle

The grinded slurry is fed into water tank from the inlet located in the middle of depression area, and the slurry classification depression area is under the inclined water tank. The spiral with low speed rotation stirs the slurry, so that the fine particles suspended in the upper flow into overflow weir and overflow. Meanwhile, the coarse particles sink to the bottom of tank, and then they are delivered to the outlet by the spiral and discharged as sand return.



Features

The whole spiral of overflow end is sunk under the liquid surface of depression area with larger area and depth.

A sand return automotive lifting device is added on sand return end, and the configuration of big spoon bit is canceled for ball mill.

1-1.5 degrees of electricity can generally be saved per ton of ore.

Frequent maintenance of big spoon bit is avoided.

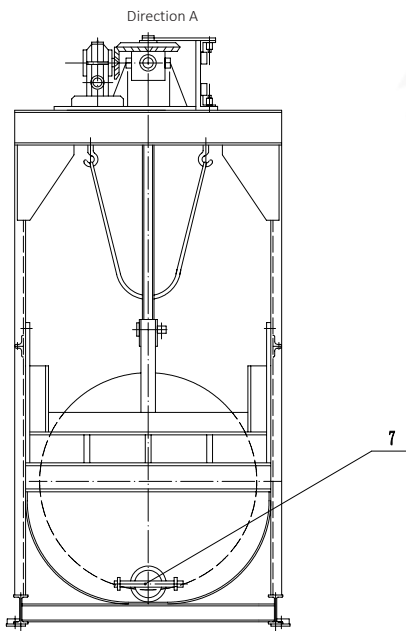
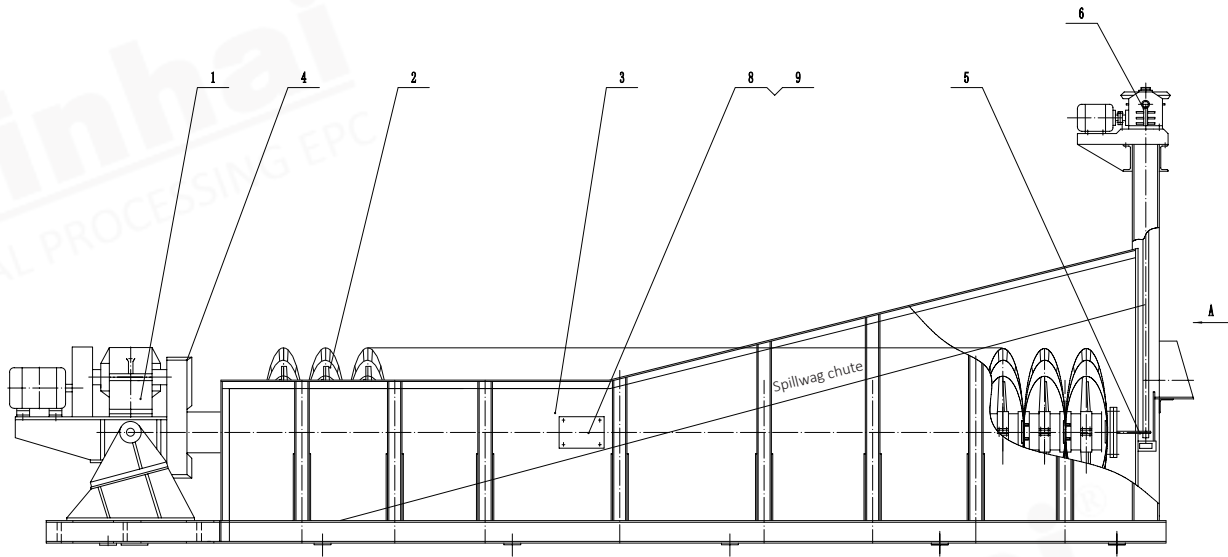
Uneven impact on large and small gear is retarded.

Application

Fit for fine size classification.

Technical Parameters

| Type | Model | Rotating Speed of Spiral (r/min) | Capacity of Sand Return (t/d) | Capacity of Overflow (t/d) | Spiral Diameter (mm) | Spiral Length (mm) | Slope of Water Tank | Drive Motor Model | Drive Motor Power (kW) | Lifting Motor Model | Lifting Motor Power (kW) | Weight (kg) |
|-------------------------------------|-------------------------------------|----------------------------------|-------------------------------|----------------------------|----------------------|--------------------|---------------------|-------------------|------------------------|---------------------|--------------------------|-------------|
| High Weir Single Spiral Classifier | FLG-300 | 7.7 | 30~80 | 10-30 | φ300 | 3900 | 14~18 | Y100L1-4 | 2.2 | Manual driven | — | 668 |
| | FLG-500 | 8 | 145~260 | 21-32 | φ500 | 4390 | | Y112M-6 | | | | 1600 |
| | FLG-750 | 7.8 | 256~654 | 31-65 | φ750 | 5500 | | Y132S-6 | 3 | | | 2716 |
| | FLG-1000 | 6.7 | 473~1026 | 85 | φ1000 | 6556 | | Y132M2-6 | 5.5 | | | 4000 |
| | FLG-1200 | 5,6,7 | 1145~1600 | 150 | φ1200 | 6500 | | Y132M2-6 | 5.5 | Y90L-4 | 1.5 | 7943 |
| | FLG-1500 | 2.5,4,6 | 1140~2740 | 235 | φ1500 | 8265 | | Y160M-6 | 7.5 | Y100L1-4 | 2.2 | 11827 |
| | FLG-2000 | 3.6,5,5 | 3890~5940 | 400 | φ2000 | 8700 | | Y160L-6/4 | 11; 15 | Y100L2-4 | 3 | 20814 |
| | FLG-2400 | 3.6 | 6800 | 580 | φ2400 | 9130 | | Y200L2-6 | 22 | Y112M-4 | 4 | 24194 |
| High Weir Double Spirals Classifier | FLG-3000 | 3.2 | 11625 | 890 | φ3000 | 12500 | | Y200L-4 | 30 | Y112M-4 | 4 | 42188 |
| | 2FLG-1200 | 5,6,7 | 2340~3200 | 310 | φ1200 | 6500 | | Y132M2-6 | 5.5 × 2 | Y90L1-4 | 1.5 × 2 | 15840 |
| | 2FLG-1500 | 2.5,4,6 | 2280~5480 | 470 | φ1500 | 8230 | | Y160M-6 | 7.5 × 2 | Y100L1-4 | 2.2 × 2 | 22903 |
| | 2FLG-2000 | 3.6,5,5 | 7780~11880 | 800 | φ2000 | 8400 | | Y160L-4 | 15 × 2 | Y100L2-4 | 3.0 × 2 | 34621 |
| | 2FLG-2400 | 3.63 | 13600 | 1160 | φ2400 | 9130 | | Y200L2-6 | 22 × 2 | Y112M-4 | 4 × 2 | 42460 |
| Submerged Single Spiral Classifier | 2FLG-3000 | 3.2 | 23300 | 1785 | φ3000 | 12500 | | Y200L-4 | 30 × 2 | Y112M-4 | 4.0 × 2 | 73030 |
| | FLC-1000 | 2.5~7.4 | 160~700 | 50-260 | φ1000 | 8397 | | Y132M2-6 | 5.5 | Manual driven | — | 5225 |
| | FLC-1200 | 5~7 | 1150~1640 | 120 | φ1200 | 8400 | | Y160M-6 | 7.5 | Y90L-4 | 1.5 | 9583 |
| | FLC-1500 | 2.5~6 | 1140~2740 | 185 | φ1500 | 10500 | Y100L1-4 | | | 2.2 | 14226 | |
| | Submerged Double Spirals Classifier | FLC-2000 | 3.6~5.5 | 3240~5940 | 320 | φ2000 | 13000 | Y160L-4 | 15 | Y100L2-4 | 3 | 27753 |
| FLC-2400 | | 3.6 | 6800 | 455 | φ2400 | 14130 | Y200L1-6 | 18.5 | Y112M-4 | 4 | 32467 | |
| FLC-3000 | | 3.2 | 11650 | 705 | φ3000 | 14300 | Y200L-4 | 30 | Y112M-4 | 4 | 43500 | |
| Submerged Double Spirals Classifier | 2FLC-1200 | 3.8~6 | 1770~2800 | 240 | φ1200 | 8040 | Y160M-6 | 7.5 × 2 | Y100L1-4 | 2.2 × 2 | 19610 | |
| | 2FLC-1500 | 2.5~6 | 2280~5480 | 370 | φ1500 | 10500 | | | | | 27450 | |
| | 2FLC-2000 | 3.6,5,5 | 7780~11880 | 640 | φ2000 | 12900 | Y200L2-6, Y200L-4 | 22;30 | Y100L2-4 | 3.0 × 2 | 50621 | |
| | 2FLC-2400 | 3.67 | 13700 | 910 | φ2400 | 14130 | Y25S-4 | 37 | Y112M-4 | 4.0 × 2 | 65283 | |
| | 2FLC-3000 | 3.2 | 23300 | 1410 | φ3000 | 14300 | Y225M-4 | 45 | Y112M-4 | 4.0 × 2 | 84900 | |



■ Structure Drawing of Submerged Spiral Classifier

- ⊙ Notes:
- | | |
|---------------------------|----------------------|
| 1. Transmission mechanism | 2. Spiral |
| 3. Sink | 4. Gear guard |
| 5. Lower bracket | 6. Lifting mechanism |
| 7. Ore discharging valve | 8. Label |
| 9. Rivet | |