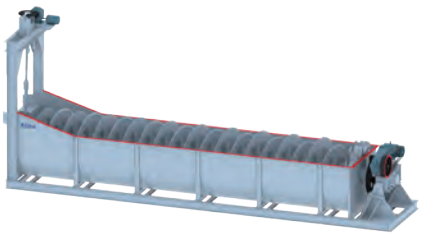
High Weir Spiral Classifier

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. The location of overflow weir is above the bearing center which is under screw shaft, and underneath the upper border of overflow end.



Features

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

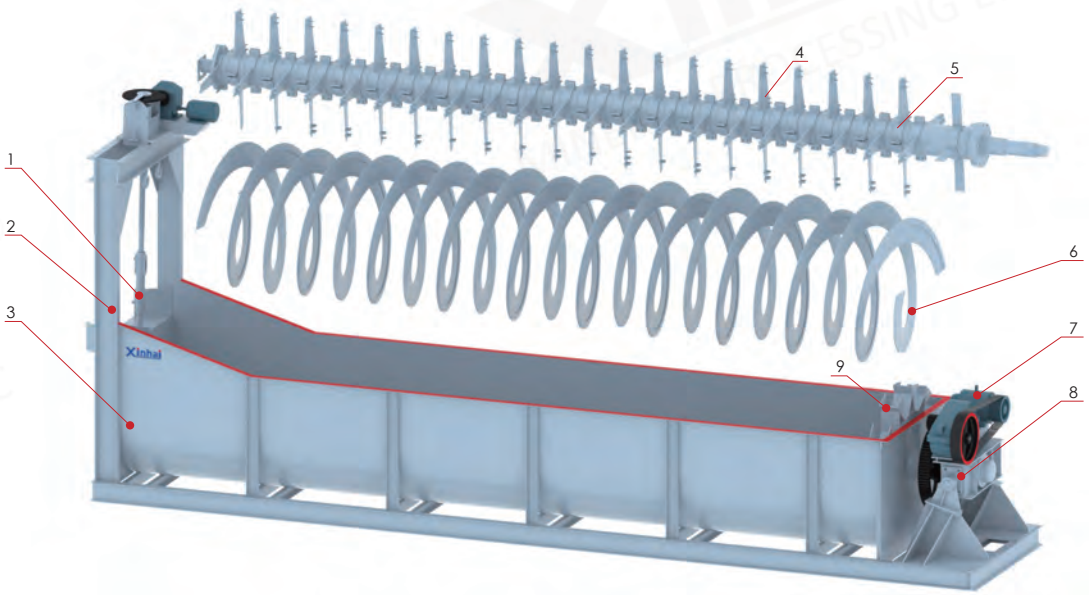
1-1.5 degrees of electricity can generally be saved per ton of ore.

Frequent maintenance of big spoon bit is avoided.

Uneven impact on large and small gear is retarded.

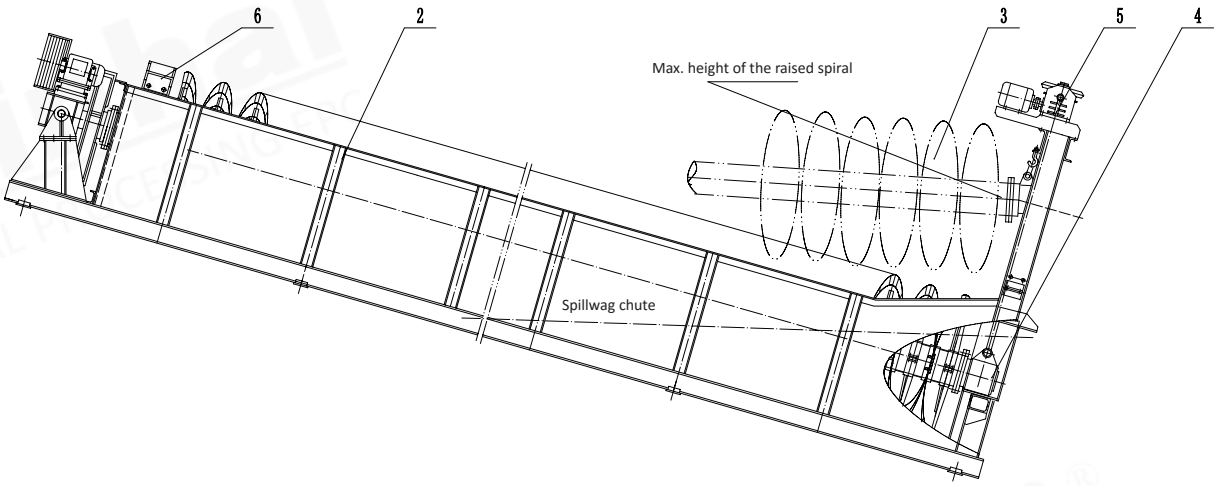
Application

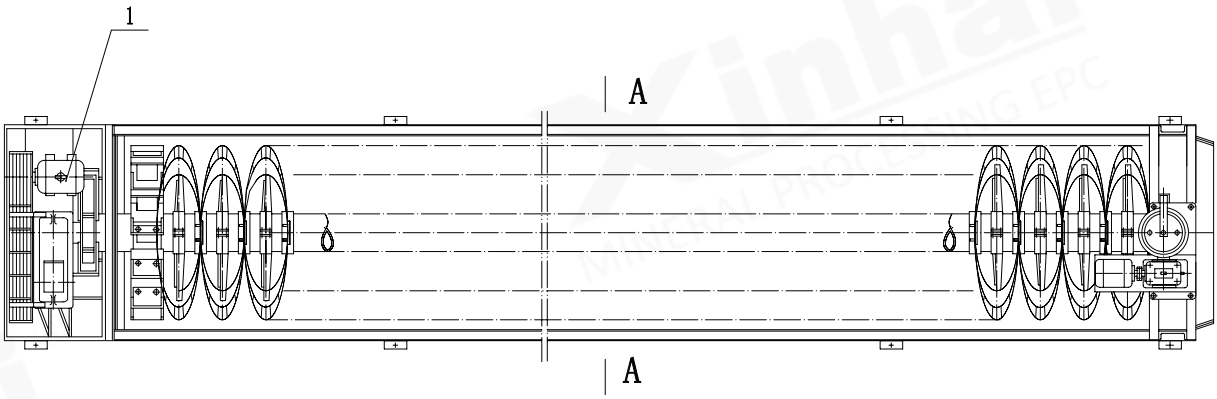
Fit for coarse size classification.

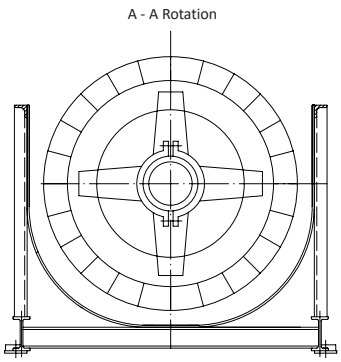


Separation Drawing of High Weir Spiral Classifier

◎ Notes: 1. Spiral shaft 2. Stand 3. Chute 4. Right stand
5. Hollow shaft 6. Right spiral blade 7. Motor 8. Reducer
9. Sand return lifting device







Structure Drawing of High Weir Spiral Classifier

◎ Notes: 1. Transimmision
2. Sink
3. Right-hand screw
4. Lower support
5. Lifting gear
6. Sand return lifting device