Gold Cyanide Flotation Plant Ore Dressing Equipment

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Ascend
- Certification: CE/ISSO9001
- Model Number: 900x1200, 1200x1500 1500x3000 1830x3000

Product Specification

- Type: Gold Ore Dressing Equipment
- After-sales Service Provided: Engineers Available To Service Machinery Overseas
- Condition: New
- Production Capacity: 95%,10-280t/h
- Voltage: 220V/380V
- Application: Gold Mining Equipment
- Motor: 22 To 380KW
- Highlight: **Cyanide ore dressing equipment**, **Gold Cyanide mineral processing equipment**, **Flotation Plant Ore Dressing Equipment**

More Images

Our Product Introduction

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Product Description

Gold mining equipment

The gold mining equipment includes: jaw crusher, hammer crusher, roller crusher, impact crusher, vertical crusher, cone crusher, ball mill, vibrating screen, spiral separator, flotation machine, mining agitation tank, ore feeder, concentrator, mine hoist, mining conveyor belt, pre-watering into a ball plate, spiral chute, beneficiation shaker, washing machine and other equipment.

Gold mining process flowsheet

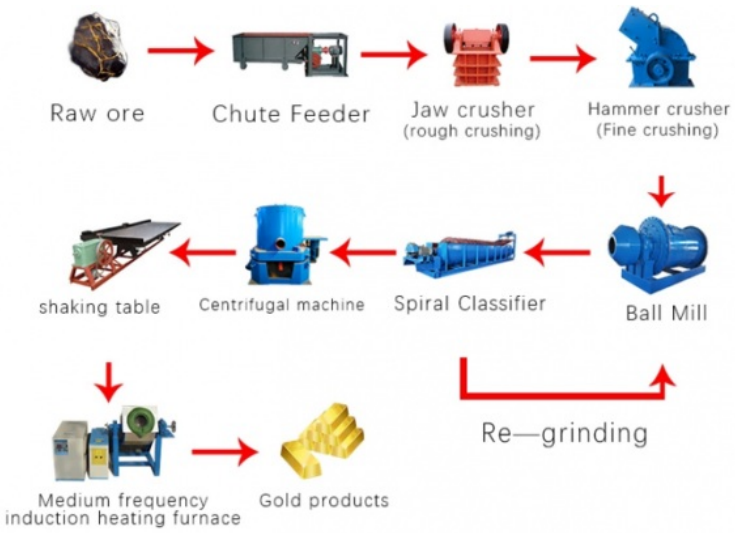
After the first stage crushing process, the ore material enters the double-layer vibrating screen, the crushed upper layer material with middle layer material enters the second crushing stage, the outlet material from the first crushing stage and the second crushing stage into the screening procedure.
The screened material is ground by the first stage ball mill, a closed circuit grinding system is composed of the ball mill and the classifier.
The staged overflow is classified by the cyclone and then enters the second-stage ball mill for re-grinding, and then forms a closed-circuit grinding with the cyclone.
The gold-plating equipment cyclone overflow firstly performs preferential flotation, and the foam products are subjected to secondary selection and a three-time selection to become concentrate products. After the preferential flotation, the tailings undergo a rough selection, a selection, and two The selection process of three selections, three selections, and one sweeping, one selected tailings and one sweeping foam product enter the cyclone for re-classification, re-selection, secondary selection and one fine The selection constitutes a closed-circuit selection, and the three selections and the second selection constitute a closed-circuit selection.

Gold mining equipment-gravity beneficiation

Gravity beneficiation is an ore dressing method which according to mineral density and plays an important role in contemporary mineral processing methods. The gravity separation equipment includes spiral chutes, shaker tables, jigs and short cone cyclones.

Gold dressing methods

1. Mercury amalgamation-gravity separation
This process involves gravity separation and then mercury amalgamation or mercury amalgamation before gravity separation. The former method is mostly used for the placer gold which with low gold content, or the surface contaminated ore. The latter is mostly used for the quartz vein gold-bearing sulfide ore.
2. Gravity separation (amalgamation)-cyanide process
This gold processing method is suited for the quartz vein type gold-bearing oxidized ore which with uneven disseminated grain size and high oxidation degree, the gold-bearing ore basically free of copper, arsenic, antimony, etc.
3. Flotation process
This processing method is suitable for the quartz vein gold-bearing ore, gold-bearing altered rock type ore and sulfides ore which with fine gold particle and good floatability, widely applied in the medium-large good mining plant.
4. Gravity separation (amalgamation)-flotation process
This procedure is applicable to the uneven disseminated grain size and low sulfur quartz veins containing gold ore. Since the monomer-dissociated gold is recovered in a timely and early manner in the grinding circuit, the total recovery of gold can be increased. This process is a widely used process in China's gold plant, in which the recovery rate of gold can reach 30-60%.
5. Cyanidation (full mud cyanidation) process
Applicable to gold with a higher emerald grain size, a deeper iron ore-bearing pyrite quartz vein type ore, or a gold-altered diorite-type ore. The ore is required to contain no elements harmful to cyanidation such as copper, arsenic or antimony.
6. Flotation-Cyanide Process
This process is suitable for the treatment of gold-bearing iron ore quartz vein ore with gold and sulfide symbiosis. It is also suitable for gold-bearing granite fracture zone altered rock type ore, especially for high sulfur ore. To apply. This process is also one of the common processes in China's gold mines.
7. Flotation-baking-cyanide combined process
This procedure is applicable to gold-bearing quartz vein type ores containing elements such as arsenic and antimony. The roasting process is a preparation for cyanidation in order to remove elements that are harmful to cyanidation.



Ball mill Specification

Model	Shell rotation speed(r/min)	Ball load	Feeding size	Discharging size	Capacity	Motor power	Weight
		(t)	(mm)	(mm)	(t/h)	(kw)	(t)
Ø 900*1800	36-38	1.5	< =20	0.075-0.89	0.65-2	18.5	4.6
Ø 900*3000	36	2.7	< =20	0.075-0.89	1.1-3.5	22	5.6
Ø 1200*2400	36	3	< =25	0.075-0.6	1.5-4.8	30	12
Ø 1200*3000	36	3.5	< =25	0.074-0.4	1.6-5	37	12.8
Ø 1200*4500	32.4	5	< =25	0.074-0.4	1.6-5.8	55	13.8
Ø 1500*3000	29.7	7.5	< =25	0.074-0.4	2.0-5.0	75	15.6
Ø 1500*4500	27	11	< =25	0.074-0.4	3.0-5.0	110	21
Ø 1500*5700	28	12	< =25	0.074-0.4	3.5-6	130	24.7
Ø 1830*3000	25.4	11	< =25	0.074-0.4	4.0-10.0	130	28
Ø 1830*4500	25.4	15	< =25	0.074-0.4	4.5-12	155	32
Ø 1830*6400	24.1	21	< =25	0.074-0.4	6.5-15	210	34
Ø 1830*7000	24.1	23	< =25	0.074-0.4	7.5-17	245	36
Ø 2100*3000	23.7	15	< =25	0.074-0.4	6.5-36	155	34
Ø 2100*4500	23.7	24	< =25	0.074-0.4	8-43	245	42
Ø 2100*7000	23.7	26	< =25	0.074-0.4	8-48	280	50
Ø 2200*4500	21.5	27	< =25	0.074-0.4	9-45	280	48.5
Ø 2200*6500	21.7	35	< =25	0.074-0.4	14-26	380	52.8
Ø 2200*7000	21.7	35	< =25	0.074-0.4	15-28	380	54
Ø 2200*7500	21.7	35	< =25	0.074-0.4	15-30	380	56
Ø 2400*3000	21	23	< =25	0.074-0.4	7-50	245	54

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