



Concentrate Grinding Milling Machine

Basic Information

- Place of Origin: China
- Brand Name: Ascend
- Certification: CE/ISSO9001
- Model Number: 900x1200, 1200x1500 1500x3000 1830x3000
- Minimum Order Quantity: 1 set
- Price: USD 3500-35000 Per set
- Packaging Details: Water and rust proof in wooden box or cotainer
- Delivery Time: 7-10 working days
- Payment Terms: T/T, Western Union
- Supply Ability: 20 set per month



Product Specification

- Application: Gold Ore Gravity Separation
- Product Name: Jaw Crusher, Ball Mill, Gold Concentrator
- Usage: Mining Ore Grinding
- Liner Material: High Manganese Alloy
- Motor: 22 To 380KW
- Voltage: 380V
- Warranty: One Year
- Highlight: **Concentrate jaw crusher machine, gold ore jaw rock crusher**



More Images



Our Product Introduction

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Product Description

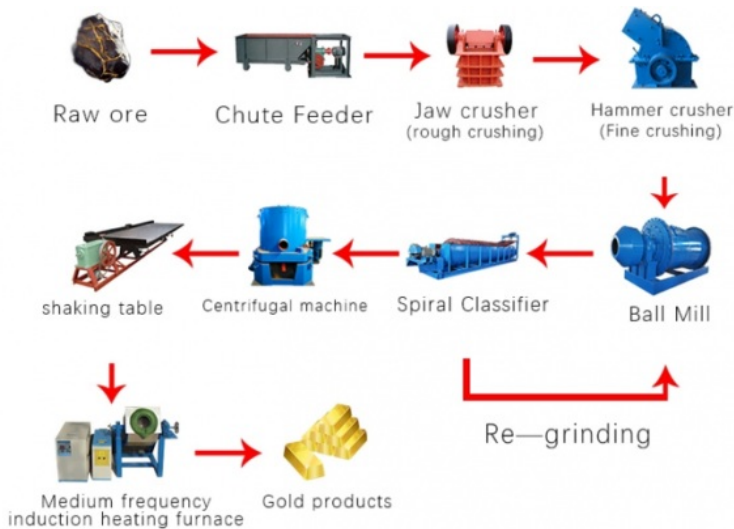
Gold ore concentrate gravity selection method

For gold ore, there is different way of selection, such as gravity, artinsinal way, Carbon in Leaching (CIL) Plant, Heap leaching and flotation way according to the ore type of gold. As for gold gravity mothded, it is mainly applied to the placer gold or rein gold ore in which there are large amount of free gold particle sizes. As the free gold particles are much heavier than the common sand and thus they can be collected by gravity method because of the gravity method.

For placer gold ore, the most commonly used equipment is rotary trommel screen machine, gold centrifugal concentrator, and sluice with gold absorption blanket, which means the sand screening process (sand less than 6mm will be screened through the trommel screen and fed into the concentrator. The centrifugal concentrator will collect around 80 to 90% free gold among the sand; remaining gold in the tailing discharged by the concentrator will be collected in the gold absorption blanket on the sluice.

For the rein gold ore, it will go through the crushing, grinding, screening and gravity separation, in which the needed equipment include jaw crusher or hammer crusher (depends on the hardness of the ore), ball mill or wet pan mill, spiral classifier, centrifugal concentrator, shaking table, amalgamation mercury mixer and gold electric furnace.

The following essay is the detailed explanation of the rein gold ore gravity beneficiation plant.



Gold gravity processing plant description

PROCESS	EQUIPMENT	DETAILED INFORMATION
Crushing	Jaw crusher	The jaw crusher is the primary crusher to crush the input stone ore into less than 20mm, which is suitable to feed the ball mill
Transportin g	Belt Conveyor	
Grinding	Ball mill	Grind the gold ore into powder size between 100 to 300 mesh for the following gravity selection.
Screening	Spiral classifier	It plays the role of screener, the oversized stone discharged by the ball mill will be returned back to ball mill for regrinding, qualified sizes are passed to the concentrator for rough selection.
Roughing and gravity selection	Gold Centrifugal Concentrator	Whole set, including discharged soft tube. It is to collect the gold ore concentrate.
Gravity separation	Shaking table	To collect the remaining gold in the tailings discharged by concentrator.

Gold collecting	Gold ore sluice	Collect the remaining gold away from the shaking table
Power	Electric Control Cabinet	Integrated control cabinet including cable.
Note: Whole process, only needs to access external power supply and four water providing points.		



Technical data

Model	Shell rotation speed (r/min)	Ball load (t)	Feeding size (mm)	Discharging size (mm)	Capacity (t/h)	Motor power (kw)	Total weight (t)
Φ900×1800	36-38	1.5	≤20	0.075-0.89	0.65-2	18.5	5.85
Φ900×3000	36	2.7	≤20	0.075-0.89	1.1-3.5	22	6.98
Φ1200×2400	36	3	≤25	0.075-0.6	1.5-4.8	30	13.6
Φ1200×3000	36	3.5	≤25	0.074-0.4	1.6-5	37	14.3
Φ1200×4500	32.4	5	≤25	0.074-0.4	1.6-5.8	55	15.6
Φ1500×3000	29.7	7.5	≤25	0.074-0.4	2-5	75	19.5
Φ1500×4500	27	11	≤25	0.074-0.4	3-6	110	22
Φ1500×5700	28	12	≤25	0.074-0.4	3.5-6	130	25.8
Φ1830×3000	25.4	11	≤25	0.074-0.4	4-10	130	34.5
Φ1830×4500	25.4	15	≤25	0.074-0.4	4.5-12	155	38
Φ1830×6400	24.1	21	≤25	0.074-0.4	6.5-15	210	43
Φ1830×7000	24.1	23	≤25	0.074-0.4	7.5-17	245	43.8
Φ2100×3000	23.7	15	≤25	0.074-0.4	6.5-36	155	45
Φ2100×4500	23.7	24	≤25	0.074-0.4	8-43	245	56
Φ2100×7000	23.7	26	≤25	0.074-0.4	12-48	280	59.5
Φ2200×4500	21.5	27	≤25	0.074-0.4	9-45	280	54.5
Φ2200×6500	21.7	35	≤25	0.074-0.4	14-26	380	61

Φ2200×700	21.7	35	≤25	0.074-0.4	15-28	380	62.5
Φ2200×750	21.7	35	≤25	0.074-0.4	15-30	380	64.8
Φ2400×300	21	23	≤25	0.074-0.4	7-50	245	58
Φ2400×450	21	30	≤25	0.074-0.4	8.5-60	320	72
Φ2700×400	20.7	40	≤25	0.074-0.4	22-80	380	95
Φ2700×450	20.7	48	≤25	0.074-0.4	26-90	480	102
Φ3200×450	18	65	≤25	0.074-0.4	As per process conditions	630	149
Φ3600×450	17	90	≤25	0.074-0.4	As per process conditions	850	169
Φ3600×600	17	110	≤25	0.074-0.4	As per process conditions	1250	198
Φ3600×850	18	131	≤25	0.074-0.4	45.8-256	1800	260
Φ4000×500	16.9	121	≤25	0.074-0.4	45-208	1500	230
Φ4000×600	16.9	146	≤25	0.074-0.4	65-248	1600	242
Φ4000×670	16.9	149	≤25	0.074-0.4	75-252	1800	249
Φ4500×640	15.6	172	≤25	0.074-0.4	84-306	2000	280
Φ5030×640	14.4	216	≤25	0.074-0.4	98-386	2500	320
Φ5030×830	14.4	266	≤25	0.074-0.4	118-500	3300	403
Φ5500×850	13.8	338	≤25	0.074-0.4	148-615	4500	525

ASCEND Henan Ascend Machinery Equipment Co., Ltd.

+86 18221130967

wilson_ascendme@163.com

mining-crushermachine.com

Shenglong block, high tech zone, Zhengzhou, China