



Wash Plant Iron Ore Mine For Alluvial Gold Processing Mining Equipment

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: ASCEND
- Certification: CE/ISSO9001
- Model Number: GST50 GST100 GST150
- Minimum Order Quantity: 1 set
- Price: USD 3500-30000 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: 10 set per month



Product Specification

- Product Name: Gold Washing Equipment
- Color: Customizable
- Key Word: Alluvial Gold Washing Plant
- Recovery Rate: 98%
- Capacity: 10 20 50 100 Ton Per Hour
- Motor: 10-45KW
- Warranty: One Year
- Weight: 6-19 Ton
- Highlight: Alluvial Gold Processing Mining Equipment,
Iron Ore Mine Wash Plant,
Alluvial Gold Processing Wash Plant



More Images



Product Description

Wash Plant Iron Ore Mine For Alluvial Gold Processing Mining Equipment

Product Description

The placer gold trommel screen washing plant can be mobile type or fixed type, It is mainly used to washing, and select the particle or powder gold in the river sand or gravel. It is a complete set including the feeding hopper, trommel screen or vibrating screen, water pump and high pressure water spray gun, gold centrifugal concentrator, gold sluice and other accessories.

Work Principle of Trommel Scrubber

The rotary scrubber is an autogenous rotating drum scrubber, utilizing pebbles and rocks within the feed source to fracture and disintegrate clays, agglomerates and soft oxides. The scrubber spins slowly, similar to a giant washing machine. It churns the fines and oversize and water together, vigorously breaking up the soil matrix as well as liberating the target mineral from tough clay, schist's and rock. Disintegrated material is homogeneously slurried within the drum, whilst the autogenous load is retained within the drum by reverse flights located at the drum discharge end. Slurry and washed oversize overflows the drum discharge throat to the concentric exit trommels. This material is then passed on to the downstream process equipment which can be in various forms such as centrifugal concentrator, spiral chute, jig etc.

Main Structure of Drum Scrubber Washing Machine

1. Gold Trommel Drum : For washing sticky clay from ore.
2. Inside drum lined plate: for breaking the clay and ores, wash more clean the material, can be rubber lined plate or iron steel plate welded inside drum.
3. Sieving Screen of Gold Trommel Washing Machine : for sieving different sizes ores, the screen mesh size & layer quantity & screen materials can be customized, screen material can be manganese steel or stainless steel. Mostly use manganese steel.
4. Motor: Electric Motor or diesel according to request.
5. Reducer: works together with motor and bearing for transmission drum rotating.
6. Gold Trommel Base Frame: Supporting the whole trommel scrubber.

Advantages of gold trommel equipment

1. It is a highly economically viable option adequately suitable for small to large volume processing of materials.
2. The screen features various filters for different heavy duty drums that ensure complete separation of fine materials.
3. The design has a end user flexibility that allows for screen replacements depending on mesh sizes.
4. Multiple layers of screen to enhance the sifting process.
5. It features changeable screen plates so that worn out parts can be replaced.
6. Trommel screen has high efficiency and a big capacity for different volumes of materials.
7. The screen is uniquely designed to facilitate higher capacities, provide longer screen life and avoid material clogging.

The trommel screen is equiped with water spray pipe inside drum, with feeding hopper, water pump, diesel generator,ect

Description of the placer gold washing plant

After finishing installtion of the whole plant. Usually use excavator or payloader to feed the river sand into the hopper, then the sand go to the trommel screen. When the rotary trommel screen is rotating, big size more than 8mm sand will be screened out, small sizes less than 8mm will go to the **gold centrifugal concentrator** or vibrating gold sluice (usually we recommend concentrator, as it can achieve high recovery rate for different gold particle sizes from 40 mesh to 200 mesh). Following the concentrator is gold sluice with gold blanket, which is used to recover the remaining gold in the concentrator.

Specification

SPECIFICATIONS OF GOLD EXTRACTION EQUIPMENT FOR WASHING GOLD SEPARATOR MACHINE				
Model	GTS20	GTS50	MGT100	MGT200
Parameters				
Size /mm	6000x1600x2499	7000*2000*3000	8300*2400*4700	9800*3000*5175
Capacity	20-40	50-80 tph	100-150 tph	200-300 tph
Power	20	30 kw	50 kw	80 kw
Trommel Screen /mm	1000x2000	φ1200*3000	φ1500*3500	φ1800*4000
Sluice Box	2 set	2 sets	3 sets	4 sets
Water Supply /m³	80m³	120 m³	240 m³	370 m³
Recovery Rate	95%	98%	98%	98%

Gold centrifugal concentrator

Gold sluice with blanket

Shaking table

After collect the gold concentrate fromo the centrifugal concentrator and gold sluice blanket, the most common way is then put it on the [shaking table](#) to further improve the gold grade.

Mercury Amalgamation barrel or small ball mill

The gold ore concentrate collected from the shaking table will be put in the small ball mill, or we call it [mercury amalgamation barrel](#). Then it can mix with the mercury and form the gold and mercury mixture.

Electric gold melting furnace

After get the mixture of gold and mercury, you can put it in the [elctric gold melting furnace](#) and heat it, then you can get the pure gold bar.

Package&Delivery

After-sales Service

Contact Us

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