

Manual discharge centrifugal concentrator Gold Concentrator



Descriptions

Centrifugal gold concentrator is a new type of gravity concentrator . The principles of a centrifuge to enhance the gravitational force experienced by feed particles to effect separation

based on particle density. The key components of the unit are a cone shaped "concentrate" bowl, rotated at high speed by an electric motor and a pressurized water jacket encompassing the bowl.

It is an efficient equipment for recovering free gold in all particle size ranges, specially for recovery of fine gold which is lost during the operation of the gravitational concentrators(slucice boxes and jigs). It can be used not only for placer gold mining, but also for hard rock mining to recover the natural gold.

Application shows that the recovery can be as high as 99%, and the concentrating ratio is up to 1,000 times. In recovering the natural gold in lode ore with size -0.074mm, the gold is up to 98%, For 0.04mm in particle size, the gold recovery is 97%.

Features

- ◆ **High concentrating ratio and high recovery**
- ◆ **Steady recovery performance**
- ◆ **Environmentally friendly(no chemical,just use water)**
- ◆ **Low water and electricity requirements**
- ◆ **Low production costs, durable wear parts, easy to maintenance.**
- ◆ **Compact design requiring less space, easy merged into the existing mining processing**
- ◆ **Quick payback on investment, typically less than half year**

Manual discharge centrifugal concentrator Technical Specifications

Model	STL20	STL30	STL60	STL80	STL100
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Feeding Capacity (T/h)	0-0.6	2-3	8-12	40-45	80-120
Fluidization Water Required (m³/h)	2-3	3-5	7-10	30-36	60-80
Slurry Water Required (m³/h)	1.5-4	5-7	8-12	40-45	70-100
Feeding Density (%)	0-50	0-50	0-50	0-50	0-50
Feeding Size (mm)	0-1	0-3	0-5	0-5	0-6
Concentration Cleaning Up Cycle	Vein gold 1-3 Hours Placer gold:2-6 Hours				
Concentrate Weight (Kg)	2	3-5	10-20	40-50	70-85
Power Requirements (Kw)	0.75	1.5	4	11	18.5
Approximate Shipping Weight (Kg)	205	380	1100	2300	3200
Approximate Dimensions (mm)	914×700× 900	1160×885× 1165	1926×1320× 1721	2535×2032× 1981	2849×2129 ×2411

Gold concentrator Processing details



Applications:



Gold concentrator



knelson concentrator operating manual

Lab Centrifugal Type

WELL-TECH EQUIPMENT
威尔国际矿业装备

Fine gold recovery equipment

