

STLB gold concentrator for gold separating



Gold concentrator of description.

Gold centrifugal concentrator is a kind of centrifugal concentration equipment. It can be used not only for placer gold mining, but also for hard rock mining to recover the natural gold, replacing amalgamation. It is also used to recover gold from the old tailings.

Five models are available. Application shows that the recovery can be as high as 90%, especially for the case in recovering the natural gold in lode ore with 65% of the ore having a milling size of 0.074mm, the recovery for the natural gold is expected up to 98%. For that natural gold of 0.004mm in particle size, the recovery is 97%. The cleaning up cycle is 1~4 hours, and the upgrade ratio is up to 1,000 times. The equipment is patented in China.

Gold concentrator of operation.

Before starting the preparation and check:

1. According to the instructions of motor required for the preparation and check before use.
2. Check the equipment whether the anchor is stable.
3. Check the state of V-belt tension and adjust appropriately (factory test machine has made adjustments)

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4. Check the equipment without interference of moving parts, manual turning checks.

5. Check the discharge port (10) is closed.

Gold concentrator of working principle.

The materials are uniformly fed to the belt. When materials go through the permanent magnetic drum, the non-magnetic and low-magnetic particles will leave the belt surface because of the centrifugal force and gravitation. Meanwhile, strong-magnetic particles are absorbed to the belt by magnetic force and then fall into the magnetic trough when the belt leaving the magnetic pulley.

Gold concentrator stop:

The equipment need clean up concentrates per normal work shift. Before stop, first stop feed mine, then stop the equipment, wait for equipment is stationary, unscrew the drain plug concentrate outlet , the ore concentrate into the ore tank (prepared in advance) can be. Cleaning concentrate time to 15 to 20 minutes. Then, tighten drain plug, the next cycle of operation.

Gold concentrator main Technical data

TYPE	STLB20	STLB30	STLB60	STLB80	STLB100
CAPACITY (T/h)	0.2-1	2-8	10-40	35-70	75-120
PARTICLE SIZE (mm)	0-3	0-4	0-6	0-6	0-6
FEEDING CONCENTRATION(%)	0-50%	0-50%	0-50%	0-50%	0-50%
BACKWASH WATER(T/h)	1.5-2	4-6	10-15	17-25	40-60
OUTPUT (KG/TIMES)	2-3	10-20	30-40	60-70	70-80
POWER (kw)	0.75	1.5	4	15	18.5
REVOLUTION (r)	800	600	460	400	360
PRESSURE WATER (Mpa)	0.04	0.12	0.4	0.4	0.6
DIMENSION (mm)	930*700*900	1180*1140*1250	1970*1670*1750	2300*1800*2200	2500*2000*2400
WEIGHT (kg)	205	400	1300	1500	2000

