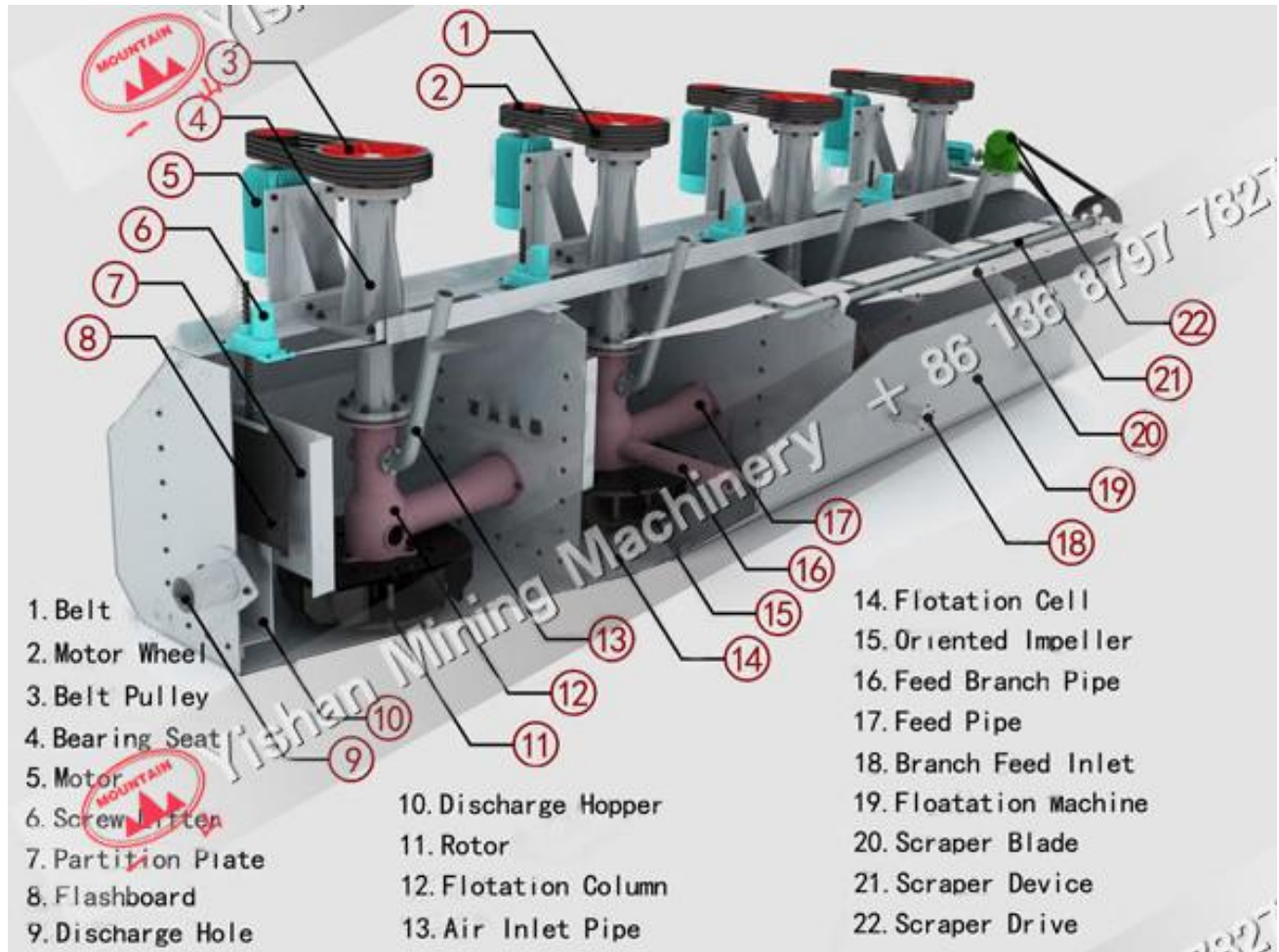


XJK flotation machine

1、 Application



- 1) XJK series flotation machine can be used for separating copper, lead, zinc, molybdenum, gold and other non-ferrous metal, black metal and non-metallic mineral roughing, concentration and reverse flotation.
- 2) XJK-1, XJK-2, XJK-4 in the four and six grooves for basic groove, wherein XJK-1, XJK-2 two slot for a motor body, XJK-3A, 4A, 5A, 6A in two, four, six slots for basic groove. XJK-11 to one or two, four slots for basic groove, connecting several basic groove series flotation machine, can be used as a coarse, fine, scavenging activity.

2、 The structure and working principle

- 1) The series flotation machine consists of a tank, gate, transmission components (stator, rotor) scraping device, motor and other components.
- 2) Flotation tank general into even, common four groove joint. Between slots is provided with the intermediate chamber gate. In general, each two groove as a unit, including a suction feeding tube groove and a direct-current groove. Such as the special needs of users, can also each groove are arranged and the suction pipe is equipped with an intermediate chamber gate, each groove is arranged in the stator and rotor. Transmission parts (mixer) is composed of a belt pulley, bearing,

Jiangxi yishan International Mining Machinery Manufacturing Co.,Ltd

Engineer: Baron Mobile\Whatsapp\WeChat:008613687977827 baron@jxyishan.com

spindle, a stator, rotor, air suction pipe and other parts. In addition, in order to make the mine paddle stable and bubble uniform dispersion, in each slot at the bottom are provided with baffle plates.

3) Flotation is a paddle (water, mineral powder mixture) by pharmacy adjustment after inhalation of a flotation tank, due to the rotation of the rotor (stator and rotor centrifugal effect, the structure is similar to the centrifugal pump) hand make mine paddle to be fully stirred, on the other hand from the suction pipe of the inhalation of a large amount of air, and air is broken into tiny bubbles. Before joining the flotation reagent under the action of formation of ore, with foam. Usually positive flotation by treating hydrophobic mineral adhesion to bubbles, floating to the surface to form a mineralized mine paddle bubble Tim layer, the scraper scraping become concentrate. Water minerals and adhesion of bubbles, and in the coal mine with mining paddle paddle from the outlet slot, usually referred to as tailings. In order to give the different properties of the mineral separation purposes.

3、Specification

Models and specifications	Effective volume m ³	Length mm	Width mm	Height mm	Production capacity m ³ /min	Diameter of impeller mm	Speed of impeller r/min	Spindle drive motor power kw	Scraper motor power kw	Scraper speed r/min	Single Weight tkg
XJ-0.13	0.13	500	500	550	0.05-0.16	200	593	1.5(Two slots)	0.6	17.5	266
XJ-0.23	0.23	600	600	650	0.12-0.28	250	504	3.0(Two slots)	0.6	17.5	389
XJ-0.35	0.35	700	700	700	0.18-0.40	300	483	1.5	0.6	20	430
XJ-0.62	0.62	900	900	850	0.3-0.9	350	400	3.0	1.1	16	630
XJ-1.1	1.1	1100	1100	1000	0.6-1.6	500	330	5.5	1.1	26	1300
XJ-2.8	2.8	1750	1600	1100	1.5-3.5	600	280	10	1.1	16	2325
XJ-2	2	2680	1455	2040	1-2.5	330	350	7.5	1.1	16	1445
XJ-4	4	3224	2628	2803	2-5	400	315	11	1.1	16	

4、Installation and use

1) Flotation machine installation is simple, do not need to irrigate the ground without anchor bolt fixing. Flotation machine installation according to the processing company designed flotation process flow diagram for. Assembly has a variety of forms, feeding tube position and quantity to process needs, general

Jiangxi yishan International Mining Machinery Manufacturing Co.,Ltd

Engineer: Baron Mobile\Whatsapp\WeChat:008613687977827 baron@jxyishan.com

by the users themselves can determine, determined by orders, factory combination.

2) Before starting preparations

- A、Cleaning tank, waste oil;
- B、Motor check;
- C、Check whether the locking phenomenon of rotor;
- D、Check the scraper is run smoothly;
- E、Check the safety cover is firmly;
- F、Examination of the intermediate chamber gate handwheel is flexible, gate and door frames are close;
- G、Check around the bolt is loose, and in all the moving parts and the lubricating oil gas;
- H、Check for ore concentration, particle size, flow paddle whether meet the process design requirements, and the required flow, stable concentration.
- I、Check the delivery device.

3) Operation

- A、Flotation machine is composed of a plurality of slots together, each groove or every two grooves have a motor, start, from front to back, in that order;
- B、Open motor of scraper scraper, so that the normal operation of;
- C、The intermediate chamber gate adjustment handwheel, the flotation machine to achieve the required height of liquid level;
- D、Check the delivery system is consistent with the provisions;
- E、Check mine paddle concentration, fineness, flow, timing were measured, and make a record;
- F、Regularly check the motor, reducer, bearing whether fever, abnormal, must be timely treatment;
- G、Check the bolts are tightened;
- H、Check whether the normal to the mine;
- I、Check the concentrate discharge is normal;
- J、Check whether the normal tailings discharge;
- K、The moving parts should be regularly add lubricating oil. Don't make the oil into the mine to paddle, otherwise it will damage the flotation process.

4) Shutdown

- A、Stop to the mining;
- B、Cessation of Drug Administration;
- C、Flotation machine downtime, from back to front, turn down;
- D、Stop scraper operation;
- E、If a longer period of time to stop, should put the net groove ore flotation machine and paddle, will be washed clean.

5、Maintenance

1) The periodic replacement of the impeller and rotor;

- A、The impeller and rotor is the key part of the flotation machine. Impeller and rotor for the distance between the 3 ~ 6 mm. When the wear gap is too big, it should be replaced, the replacement cycle, according to specific production condition and decide, generally 3 ~ 6 months.

Jiangxi yishan International Mining Machinery Manufacturing Co.,Ltd

Engineer: Baron Mobile\Whatsapp\WeChat:008613687977827 baron@jxyishan.com

B、 In the replacement of the impeller, the rotor at the same time, should check the protection of spindle in the hose is worn, such as wear, you should replace the new.

2) If bearing wear and axial clearance is too large, adjustable bearing cover. If damaged, replace the bearing.

3) Check the sealing ring of the sealing of the bearing body, special attention should be paid to the lubricating oil in the don't leak into the mine paddle, so as not to affect the precision of flotation.

4) Replace the belt should pay attention to keep the length of the belt line, otherwise, we should replace the belt.