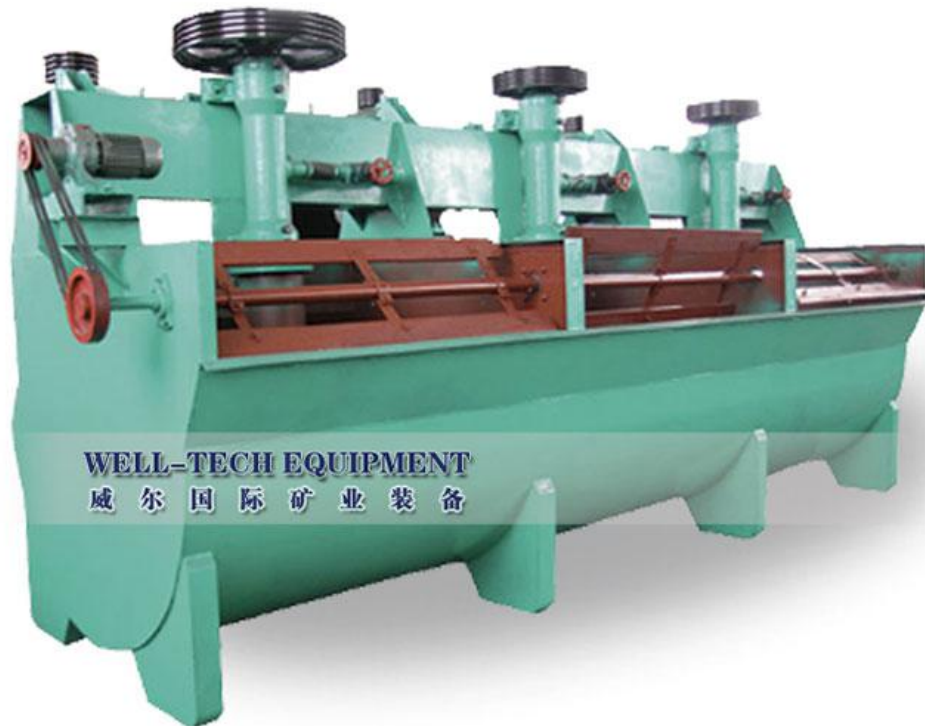


BS-K Air Flotation Machine



Description:

This product is divided into several units, such as single tank, double tank, three tanks, four tanks, five tanks and six tanks, etc. Since this product has no ability of imbibing the ore pulp and air spontaneously, the flow of ore pulp needs terrace arrangement, and a foam pump is required for returning the ore pulp.

Applicable material : Nonferrous metal mineral, black metal, nonmetal

Production capacity : 0.5-50m³/min

Effective volume : 2.2-70 m²

When flotation machine works, slurry is inhaled from the bottom of the cell to the space between impellers. Meanwhile, the low-pressure air send by fan is sent to this area through the air distributor in the hollow shaft. After sufficient mixing, the slurry is pushed out by the impeller, and then goes to the whole cell.

When the froth rises to the stable level, after the enrichment processing, froth overflows to the froth trough from the overflow weir. Another part of ore slurry flows to lower part of impeller for the re-mix with air. The remained slurry flows to the next cell until becomes tailing.

Notes: Mechanical agitation, non self air inhalation, non pulp suction and required height difference (300-400mm) between flotation groups. It can be combined with XHF cells to be direct cells.

Advantages and Characteristics

- Main shaft is hanging on the machine frame, light structure and easy installation
- Impeller is cone shape; stator is radial, strong agitation and lower power consumption
- U shape tank is made and lower sand settlement
- The diameter of the impeller is smaller thus lower peripheral speed
- Lower power consumption and saving 30-50% energy
- Well floated particles and higher recovery
- Light wearing of the spare parts so longer service life of them

Main Technical Parameters

Model	Effective volume (m ³)	Capacity (m ³)	Diameter of impeller (mm)	Impeller rotation (r.p.m)	Pressure of blower (Kpa)	Maximum air inhalation (m ³ /m ² .min)	Power of scrapper (Kw)
BS-K2.2	2.2	0.5-3	420	260	≥15	2~3	0.75
BS-K4	4	0.5-4	500	220,230	≥17	3~6	0.75
BS-K6	6	1.0-6	650	197	≥27	4~10	1.1
BS-K8	8	1.0-8	650	180,190	≥21		
BS-K16	16	2.0-15	750	160,170	≥27	6~15	
BS-K24	24	7.0-20	830	154,159	≥29	8~18	
BS-K38	38	10.0-30	910	141	≥34	10~20	