

GTEK Flotation Cell

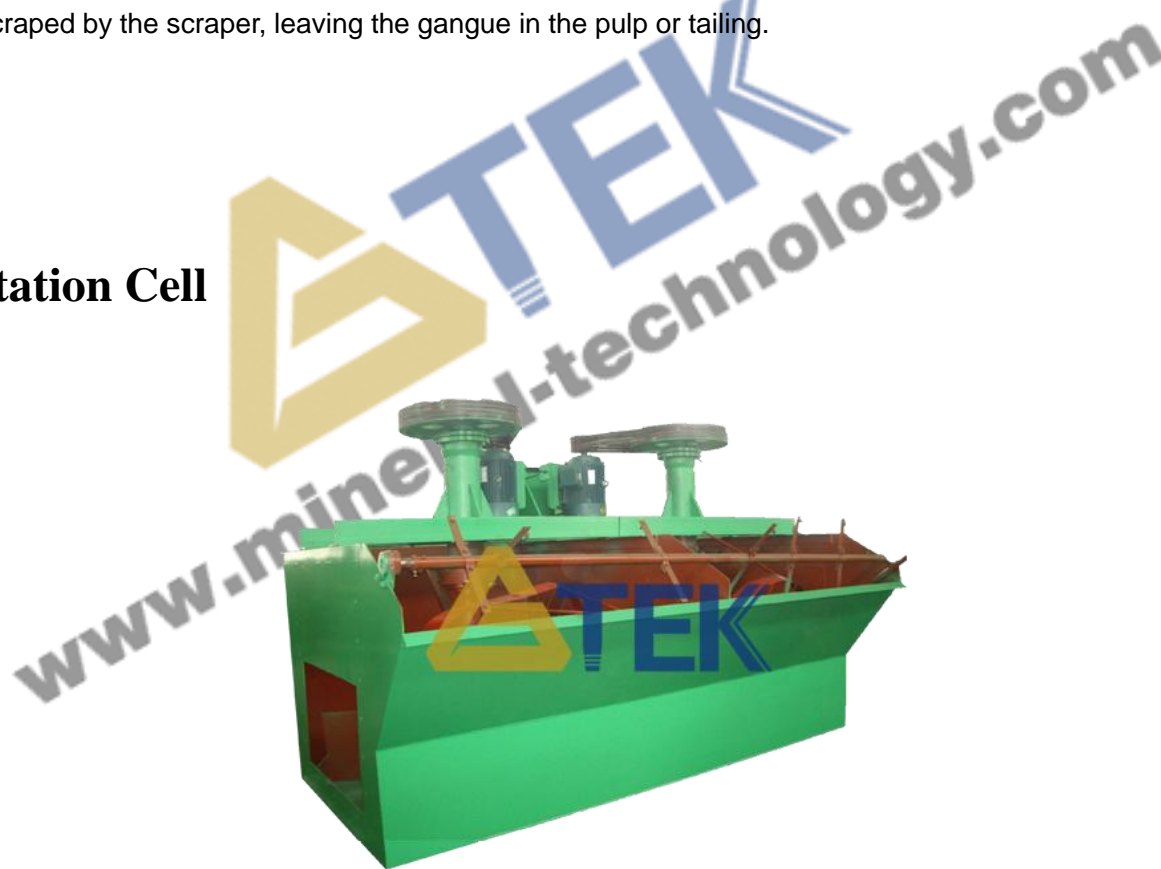
● Description

Flotation machine, which is also called flotation separator, can be used to achieve specific separations from complex ores such as lead-zinc, copper-zinc, etc. Initially developed to treat the sulphides of copper, lead, and zinc, the field of flotation has now expanded to include the oxidized minerals, non-metallic ores and fine coal. Flotation machine can forms different bank to be applied for roughing, scavenging and cleaning concentration.

● Working Principle

The motor drives the impeller through V-belt, which produce centrifugal effect to form negative pressure, on one hand, sufficient air is inhaled to be mixed with slurry, on the other hand, slurry and chemical reagent are mixed, at the meantime, the bubbles are micronized and make the mineral particles easier to stick on the bubbles. The mineral is then usually transferred to the froth, or float fraction, and then scraped by the scraper, leaving the gangue in the pulp or tailing.

XJK(A) Flotation Cell



● Technical Specification

Model	Volume (m ³)	Impeller Diameter (mm)	Capacity (m ³ /min)	Impeller Speed (r/min)	Motor Power (kW)	Dimensions (L*W*H) (mm)
XJK-1A	0.13	200	0.05-0.16	593	1.5	2195*1080*1074
XJK-2A	0.23	250	0.12-0.28	504	1.5	2680*1190*1283
XJK-3A	0.35	300	0.15-0.5	500	1.5	1028*1327*1285
XJK-4A	0.62	350	0.3-0.9	400	3	3936*1740*1831
XJK-5A	1.1	500	0.6-1.6	330	5.5	1100*1100*1100
XJK-6A	2.8	600	1.5-3.5	280	11	1750*1600*1100

SF Flotation Cell



● Features

1. Large suction capacity, lower power consumption
2. Each cell has the capacity to suck air and slurry automatically
3. Lower rotational speed of impeller, long service time
4. Slurry in flotation cell cycled up and down in fixed way, which is favorable to the suspension of coarse particles

● Technical Specification

Model	Volume (m ³)	Impeller Diameter (mm)	Capacity (m ³ /min)	Impeller Speed (r/min)	Motor Power (kW)	Dimensions (LxWxH) (mm)
SF-0.37	0.37	300	0.2-0.4	352	0.55	700*700*750
SF-0.7	0.7	350	0.3-0.9	400	1.1	920*820*950
SF-1.2	1.2	450	0.6-1.2	312	1.5	1100*1100*1100
SF-2.8	2.8	550	1.5-3.5	268	1.5	1700*1600*1150
SF-4	4	650	2-4	238	1.5	1850*2050*1200

BS-K Flotation Cell



● Features

1. Easy installation, adjustment and maintenance
2. Simple Structure of impeller, easy to manufacture and strong mixing power
3. Does not require froth peddle, it can ensure the grade of concentrate. In thin foamy layer, it can use froth peddle, it is equipped with froth peddle
4. Adopt U-type chute
5. Low power consumption and reliable operation

- **Technical Specification**

<i>Model</i>	<i>Volume (m³)</i>	<i>Capacity (m³/min)</i>	<i>Rotor Speed (r/min)</i>	<i>Motor Power (kW)</i>	<i>Inner Dimensions (LxWxH) (mm)</i>	<i>Weight of Single Cell (kg)</i>
BS-K2.8	2.8	0.4-3	248	5.5	1550*1550*1350	1740
BS-K4	4	0.5-4	210	7.5	1850*1850*1550	2568
BS-K8	8	1.0-8.0	180	15	2350*2350*1950	3100