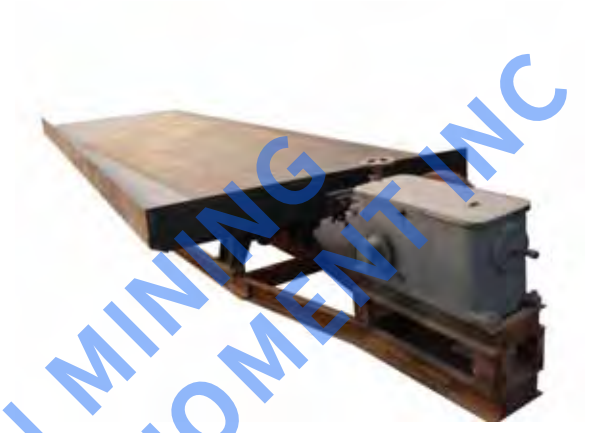
XS Shaking Table

Principle

The table is mainly composed of eight parts including bed head, motor, slope modulator, bed surface, bunker, water tank, rifle bar and lubricating system.

The vertical reciprocating motion of the bed surface is driven by the crank-connecting rod mechanism. The motor through the belt drive makes the pulley drive the rotation of the bent axle with up-and-down motion of the rocker. When the down motion of the rocker, the bracket drives rear axle and reciprocating lever to move backward, by which the spring is compressed. The bed surface is connected with reciprocating lever through linkage base, so at this time it moves backward, and the rocker is pushed by the tension force of the spring when it does the upward motion with the forward motion of the bed surface.



Application

XS shaking table is one of the main equipment of gravity separation, and it is widely used in the mineral classifications of tungsten, tin, tantalum, niobium, gold and other rare metals and precious metals. It is also used for different operations such as roughing, selection, and scavenging; different particle-size classifications of coarse sand (2-0.5 mm), fine sand (0.5-0.074 mm), slurry (-0.074) and so on; classifications of iron, manganese ore and coal. The effective recycling particle size range of table is 2-0.22 mm when processing the minerals such as tungsten and tin.

Technical Parameters

Model		XS 7.6			XS 4.08	XS 1.95	XS 0.5
Bed Surface Type		Coarse Sand Bed Surface	Fine Sand Bed Surface	Slurry Bed Surface	3 Kinds Of Bed Surfaces Selectable		
Beneficiation Area of Bed Surface (m^2)		7.6	7.6	7.6	4.08	1.95	0.5
Bed Surface Dimension	Length (mm)	4500	4500	4500	3000	2100	1100
	Width of Driving End (mm)	1850	1850	1850	1320	1050	500
	Width of Concentration End (mm)	1550	1550	1550	1100	850	430
Max. Feed Size (mm)		2	0.5	0.074	Ore Sand -2 Slurry -0.1	Ore Sand-2 Slurry -0.074	Ore Sand -2 Slurry -0.074
Capacity (t/h)		1~1.8	0.5~1	0.3~0.5	0.4~1.5	0.3~0.8	0.05~0.2
Feed Density (%)		20~30	18~25	15~20	10~30		
Stroke (mm)		16~22	11~16	8~16	6~30	12~28	9~17
Jig Frequency (r/min)		220	250	280	210~320	250~450	280~460
Water Consumption (t/h)		0.7~1	0.4~0.7	0.4~0.7	0.3~1.5	0.2~1	0.1~0.5
Notch Groove Section Shape		Rectangle	Sawtooth Wave	Triangle	Rectangle, Sawtooth Wave and Triangle Selectable		
Motor Power (kW)		1.1	1.1	1.1	1.1	1.1	0.55