

Diaphragm Jig / Twin- Diaphragm Jig



Descriptions

Rectangle Compartment Side Way Action Type Jig has two types. One is left compartment side way jig, another is right compartment side way jig. The jig has fixed screen. It is available in separating metallic ores, such as tungsten and gold placer deposits as well as beneficiated tin ore, which not only can be separated fine materials, but coarse also. The largest feed size is 6-8mm but it can be 12mm in few cases.

Rectangle Compartment Side Way Action Type Jig is mainly composed of jig box, drive device, water distribution, diaphragm and bibcock. There are two jig buckets with different sizes and each diaphragm is divided into jig area and diaphragm area by clapboard. The rubber diaphragm pumping to make medium (water) moving is the jigging course. The triangle belt drives big belt pulley by electromotor so connecting rod of the eccentric gear and rocker are up and down moving. Another connecting rod is connected with the rubber diaphragm which is moving up and down to jig.

Based on the size of ore, we can change the stroke of connecting rod and choose different stroke to make the best jigging effect. The method of altering stroke per minute is to exchange a smaller belt pulley but there are two strokes per minute: 322r/m; 420r/m. The method of choosing stroke is to loose bolt and screw cap, take out bowel and move the relative place between eccentric adjusting sieve and eccentric shaft so there are 11 different strokes (0-25.3mm).

Because of a sieve added on the working screen, the jig can be processed the uneven sizes of material. (note: the sieve can be requested to supply or not). After the feed ores are sent to jig chamber, the ores are separated to different layers in the medium by the pulsation of diaphragm. The light but weight is sank to the tank of jig bucket through the spaces of materials of artificial bed layer and its sieve holes but the coarse but light is washed to the discharge end of screen by medium. Because the back jig chamber is lower 50mm than front jig chamber, the light ores is overflowed through front jig chamber to the back chamber and jigged again. If needed, the place of end plate can be adjusted to control the discharge amount. The concentrate in tank can be discharged by discharge tube regularly.

Diaphragm Jig Technical Specifications

Model	Jig chamber	Jig Area (m2)	Feeding Size (mm)	Capacity (t/h)	Stroke (mm)	Stroke Per Minute (r/min)	Hutch Water (t/h)	Water Pressure (kilo/cm2)	Power (kw)	Weight (kg)
100x150 Diaphragm Jig	1	0.015	-3	0.018-0.6	--	420	--	1-1.5	0.55	130

300×450 Double Chamber Diaphragm Jig	2	0.27	-12	3-6	0-26	322	2-4	1-1.5	1.1	745
1000×1000 Below Pulsating Cone Diaphragm Jig	2	2	1-5	10-25	0-26	200-350	60-80	0.6-2	1.5	1700
370x360 Below Pulsating Cone Diaphragm Jig	2	0.274	6	1-3	5-25	200-250	2-5	--	1.1	240
Trapezoid Side Action Diaphragm Jig	3	2.7	-3	12.5-37.5	13-21	170-230	60-90	2	1.1	2000
670x920 Jig	2	1.44	4-8	7-10	18-24	240-300	--	--	--	--

Diaphragm Jig Application:



gold mining jigging machine