GRAVITY SEPARATING

Diaphragm Jig

Principle

Diaphragm jig is divided into two kinds of models including left-hand machine and right-hand jig cover. With fixed sieve, the jig is suitable for metal ore classification such as placer contained tungsten and gold, tin concentration ore. This jig can be used not only for classification of fine-grained materials but also for that of raw materials with the largest size of 6-8 mm, but in the individual case of placer classification, the largest size is up to 12 mm.

Application

It is used for classifications of gold, tin, tungsten, titanium, iron ore, coal and other minerals, especially widely used in the field of manganese mineral processing.

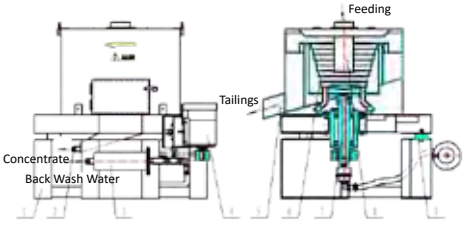
Technical Parameters

Name & Spec.	Jig Chamber	Sieve Chamber Area (m^2)	Feed Size (mm)	Capacity (t/h)	Stroke (mm)	Jig Frequency (time/min)	Adding Water Yield (t/h)	Water Pressure (kg/ cm^2)	Motor		Weight (kg)
									Model	Power (kW)	
100×150 Diaphragm Jig	1	0.015	-3	0.018~0.6	-	420	-	1~1.5	Y80L-4	0.55	130
300×450 Double-Chamber Diaphragm Jig	2	0.27	-12	3~6	0~26	322	2~4	1~1.5	Y90S-4	1.1	745
1000×1000 Bottom Driven Cone Jig	2	2	1~5	10~25	0~26	200~350	60~80	0.6~2	Y100L-6	1.5	1700
370×360 Bottom Driven Cone Diaphragm Jig	2	0.274	6	1~3	5~25	200~250	2~5	-	Y90S-4	1.1	240
Trapezoid Side Driven Diaphragm Jig	3	2.7	-3	12.5~37.5	13~21	170~230	60~90	2	Y90S-4	1.1	2000
670×920 Jig	2	1.44	4~8	7~10	18~24	240~300	-	-	-	-	-

Centrifugal Separator

Principle

Centrifugal separator is a kind of gravity separation equipment. The high-speed rotation can make large centrifugal force with intensifying gravity separation process, and making more effective recovery of the fine ore particle. Experiments show that it is especially effective for monomer gold in vein gold ore. It also can be widely used for the recovery of monomer gold in other metals.



1. Rack 2. Concentrate Outlet 3. Back Wash Water Inlet
4. Motor Drive Part 5. Tailings Launder 6. Rotating Endotheca
7. Rotating Spindle 8. Feed Pipe 9. Isolation Spring

Structural Drawing of Centrifugal Separator

Technical Parameters

Model	Power (kW)	Capacity (t/h)	Slurry Water (L/min)	Back Wash Water (L/min)	Concentrate Output (kg/time)
LX19	0.75	0.25	16	30	1.5~2.5
LX25	1.1	1~1.5	60	50	3~5
LX30	1.5	2~3	120	80	5~8
LX60	5.5	8~12	400	130~180	20~30

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