



恒昌矿山机械
HengChang mining machinery

The operating instruction of shaking table



江西恒昌矿山机械设备制造有限公司

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I. Description

6S shaking table, sometimes also known as wet tables, it consists of a vibrating riffled deck mounted on some type of support. A motor, usually mounted separately off to the side, drives a small arm that shakes the table along its length. The riffles are usually not more than half an inch high and cover only about half the table surface. Varied riffle designs are available for specific types of applications. Shaking tables are very efficient at recovering heavy minerals from minus 100 microns (150 meshes) down to 5 microns in size. Heavy minerals of a size greater than 150 meshes are better run through a jig.

6S shaking table is one of the main equipment of gravity concentration; it is widely used in the selection of gold, copper, tungsten, tin, tantalum, chrome, niobium and other rare metals and precious metal ore.

II. Application

6S shaking table is a mine separation device for fine minerals working by gravity. They are effective in processing precious and base metal, rare metal and non-metallic minerals, widely used in separation for Gold, Silver, Tin, Columbium, Tantalum, Titanium, Barium, Tungsten, Iron, Chrome, Manganese, Zircon, Lead, Zinc, Mercury, Copper, Aluminum, etc.

III. Working Principle

6S shaking table beneficiation process is conducted in a copy of the tilt table, ore grain group from the Angle of mesa feeder trough into, by lateral flushing water supply for the sink at the same time, under the influence of vibration wave, according to the proportion and granularity theory, and vertical movement and lateral movement. Shicheng proportion and granularity of different ore grain along the movement direction of the respective trapezoidal shed, respectively from the concentrate and tailings discharge side of different position; the final is divided into concentrate, middling and tailings.

IV. Structure

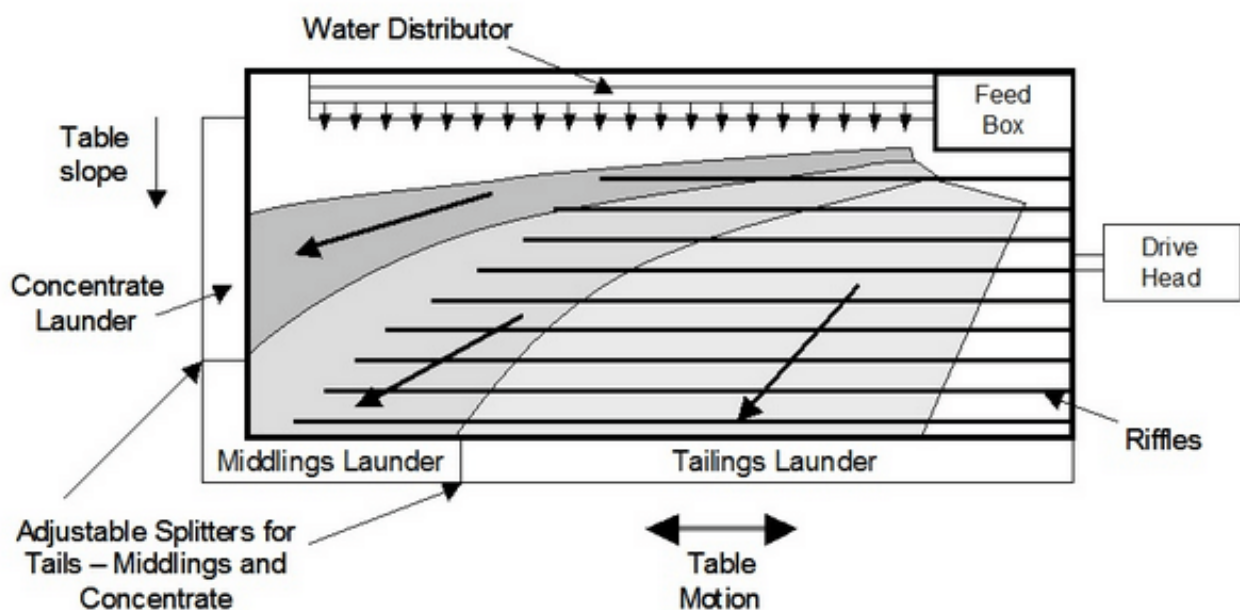
This table is mainly composed of a table head, motor, adjustable slope, the table surface, mine shafts, sink, and reflex and lubrication system of eight components.

The surface of table longitudinal reciprocating motion through a crank connecting rod type driving mechanism to realize. The electric motor through the belt drive to make the big belt wheel drives the crankshaft to rotate, the rocker made subsequently moves up and down, rocker downwards, elbow board drive rear axle and the reciprocating rod moves backwards, the spring being compressed. The table surface is through linkage seat and a reciprocating lever connected, so this is also so the table surface for backward movement, when the rocker upward movement, due to the tension spring drive, the table surface will move forward.

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V. Technical Parameter

Name		Coarse sand surface of table	Fine sand surface of table	Ore slime surface of table
Table surface Dimension	Length (mm)	4450	4450	4450
	Transmission end width (mm)	1855	1855	1855
	crude ore width (mm)	1546	1546	1546
Max. feeding size (mm)		2	0.5	0.15
Feed amount (t/h)		30-60	10-20	15-25
Feed density (%)		25-30	20-25	15-25
Capacity (t/h)		0.6-2.5	0.6-2.5	0.6-2.5
Stroke (mm)		16-22	11-16	8-16
Frequency (f)		45-48	48-53	50-57
Water quantity added(t/h)		80-150	30-60	10-17
Horizontal obliquity (°)		2°30'-4°30'	1°30'-3°30'	1 °2 °
Longitudinal obliquity (°)		1.4	0.92	--
Dressing Area (m2)		7.6	7.6	7.6
Cross-section Shape of table surface		Rectangular	Saw tooth	triangle
Motor Power (kw)		1.1	1.1	1.1
Transmission Mechanism		Eccentric linkage		

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Model	Stork (mm)	Cross Slope (°)	Feed Size (mm)	Feed density (%)	Water Consumption (t/h)	Capacity (t/h)	Power (kw)	Weight (kg)
6S-4450x1855x1546	8-22	1-4	2-0.074	15-30	0.5-6	0.6-2.5	1.1	800
LY-3000x1620x1360	6-30	0-10	2-0.074	0.3-1.5	0.3-1.5	0.4-1.5	1.1	550
LY-2100x1050x850	12-38	0-8	2-0.074	0.2-1.0	0.2-1.0	0.3-0.8	1.1	350
LY-1100x500x430	9-17	0-10	2-0.074	0.1-0.5	0.1-0.5	0.05-0.2	0.55	150

3 different types base support Shaking table with quotations have shown below:

6-S Fixed Type Shaking Table

Without mounting bracket, the use of the installation takes the mound to cement casting pile to put shaking table, not convenient to move, but relatively save cost, users can according to the economic situation to decide.

6-S Small Channel Steel Shaking Table

The first product on this page with channel bar, easy to install, just need pour cement to channel bar, embedded anchor bolts for equipment foundation. The effectiveness is same compare with the one have bracket.

The price is reasonable, being loved and esteemed by the customers. We recommend order this one.

6-S Big Channel Steel Shaking Table

6-S have the same effectiveness as the common bracket, but no need pour cement to embedded anchor bolts. Easy to install and move. Especially suitable for rough surface, sand ground and virtual earth's surface.

VI. Installation and Adjustment

- 1) On the basis of drawing, reserved anchor screw holes or pouring good foundation plate, drilling, hole expansion, the construction of concrete foundation.
- 2) The shaker frame placed on the basis, make each place, calibration and pad frame beam level.
- 3) The Department of anchor screws tightening, the cradle is fixed on the basis of.
- 4) Mounted on the drag device, table surface, table side and table and the table surface connecting rod, attention should be to the front to table side flywheel.
- 5) Connect the switch of the motor insurance, check whether the motor leakage, and then good motor wire.
- 6) The table surface is not strong beat, collision; not in high temperature and heavy pressure; avoid oil pollution and sun and rain, prevent degeneration.
- 7) After the installation, a detailed examination, the confirmation, removal of equipment and surrounding sundries.
- 8) Roller with 10-20 G oil, not to splash as well. The seat sliding rack injection oil to down the sliding bearing and the lower bearing contact fit; lever type rocking frame bearing has been manufactured with good lithium grease.

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- 9) Put the washing water air machine test machine operation, observation and examination: Starting and operation, the moving parts are not loose fever or unusual sounds. Empty test machine to normal, can load test machine, according to the selected minerals, inspection and adjustment of the stroke, stroke, springs, table longitudinal slope and transverse slope so as to achieve the optimal separation effect. After normal cleaning, it can be put into production.
- 10) Feeding volume and concentration of proper, if give mine too large volume, concentration, recovery rate.
- 11) The table surface transverse slope large, flushing water should be smaller; slope is small, flushing water shall be selected.
- 12) Stroke and frequency of stroke should be adjusted properly. Stroke is too small too big, affected grain stratification. To change the diameter of a motor belt pulley, adjustable stroke adjusting spindle and the set of eccentric combination, can have different stroke.

VII Pictures



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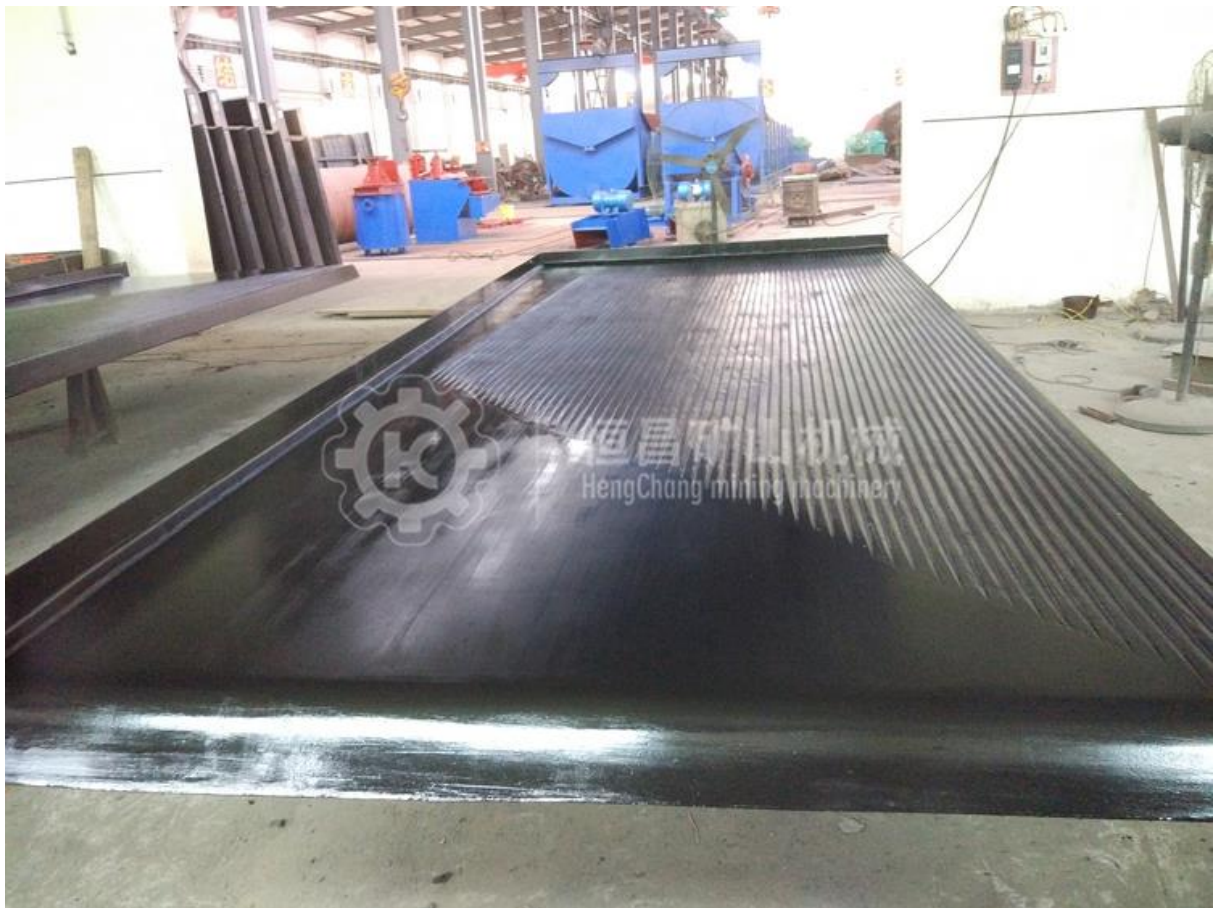
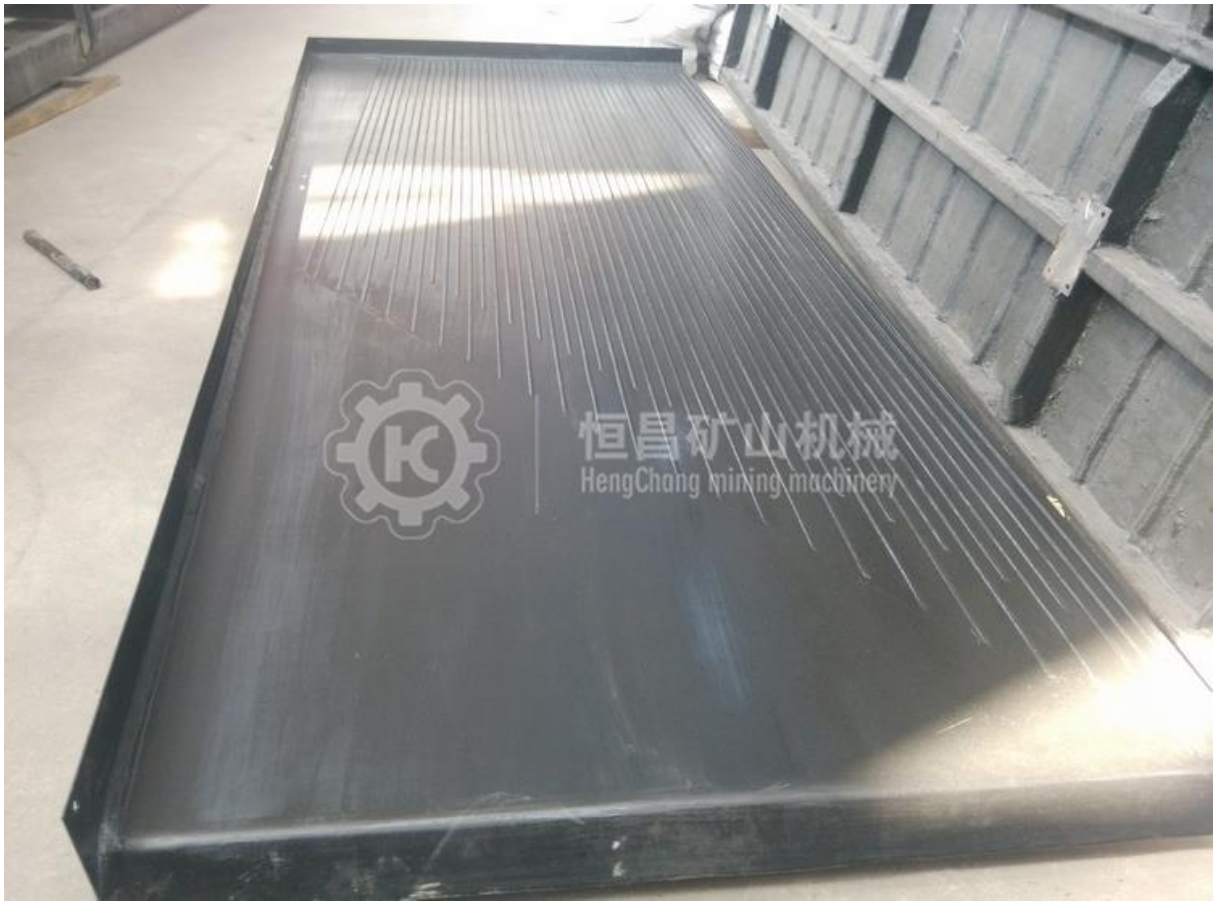
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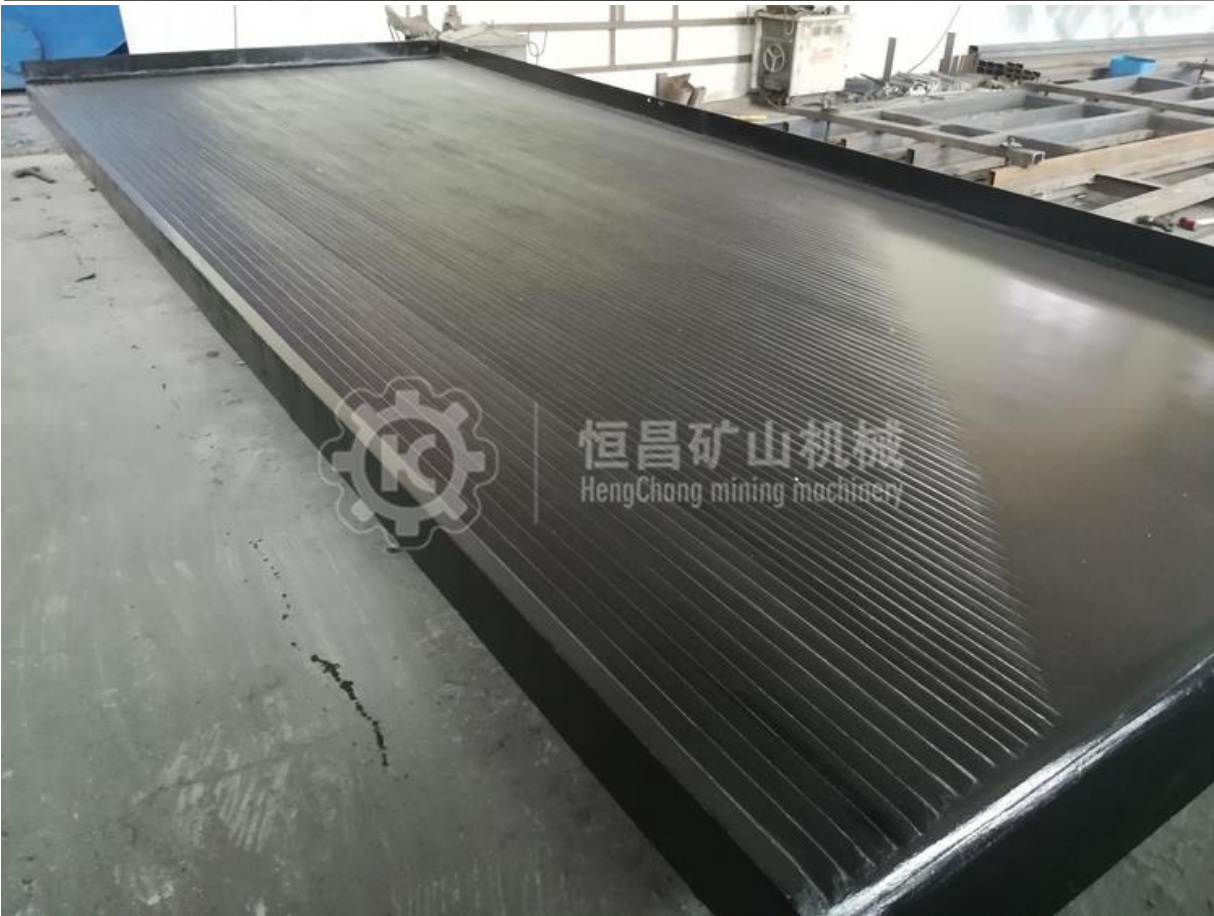
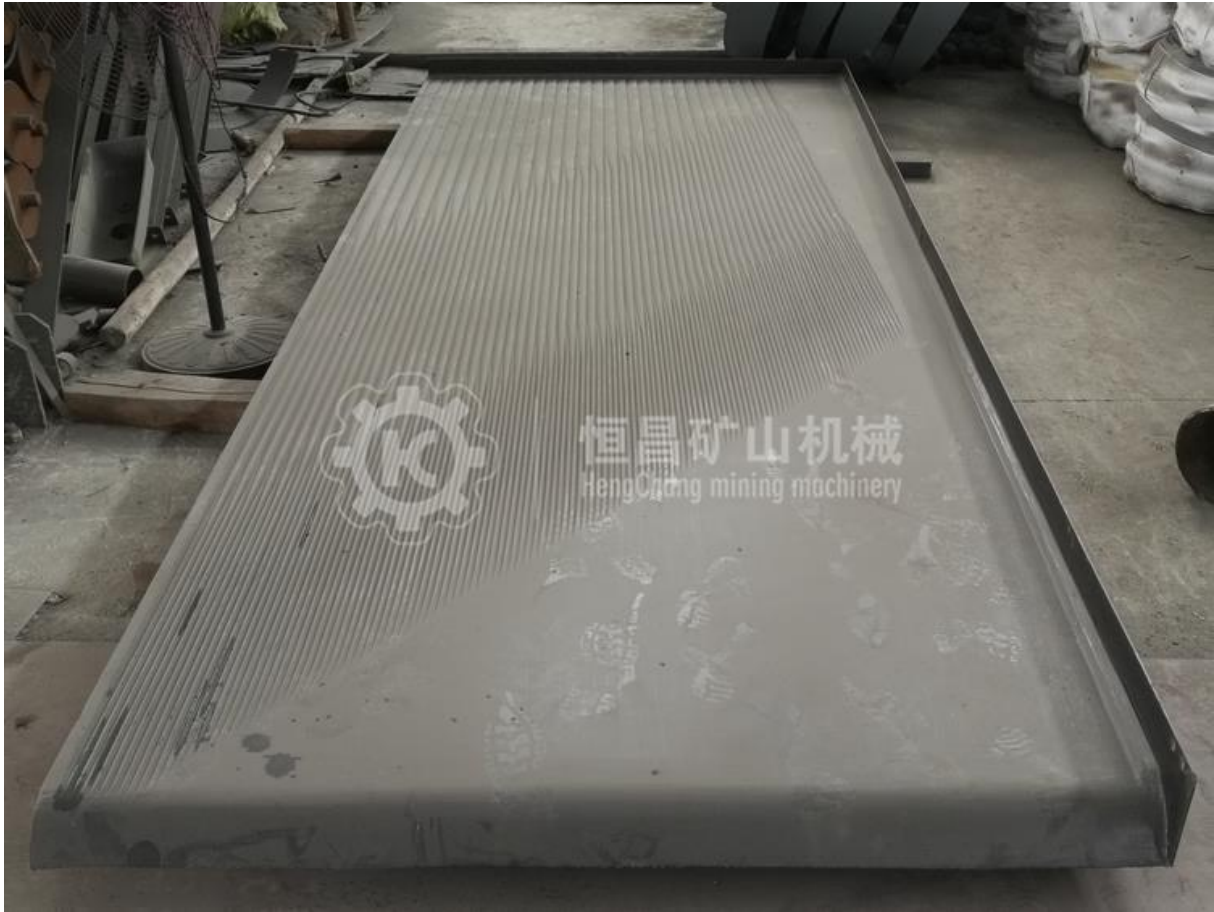
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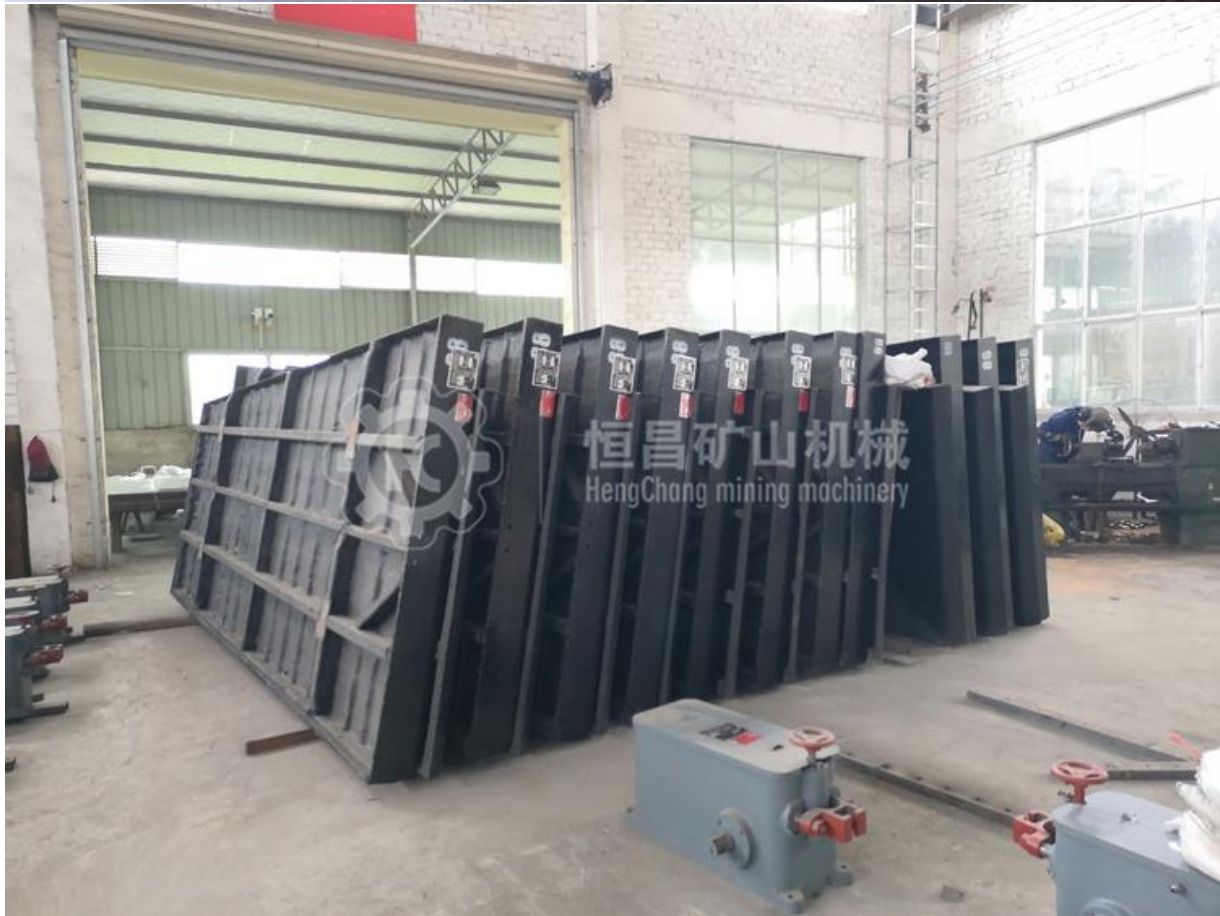
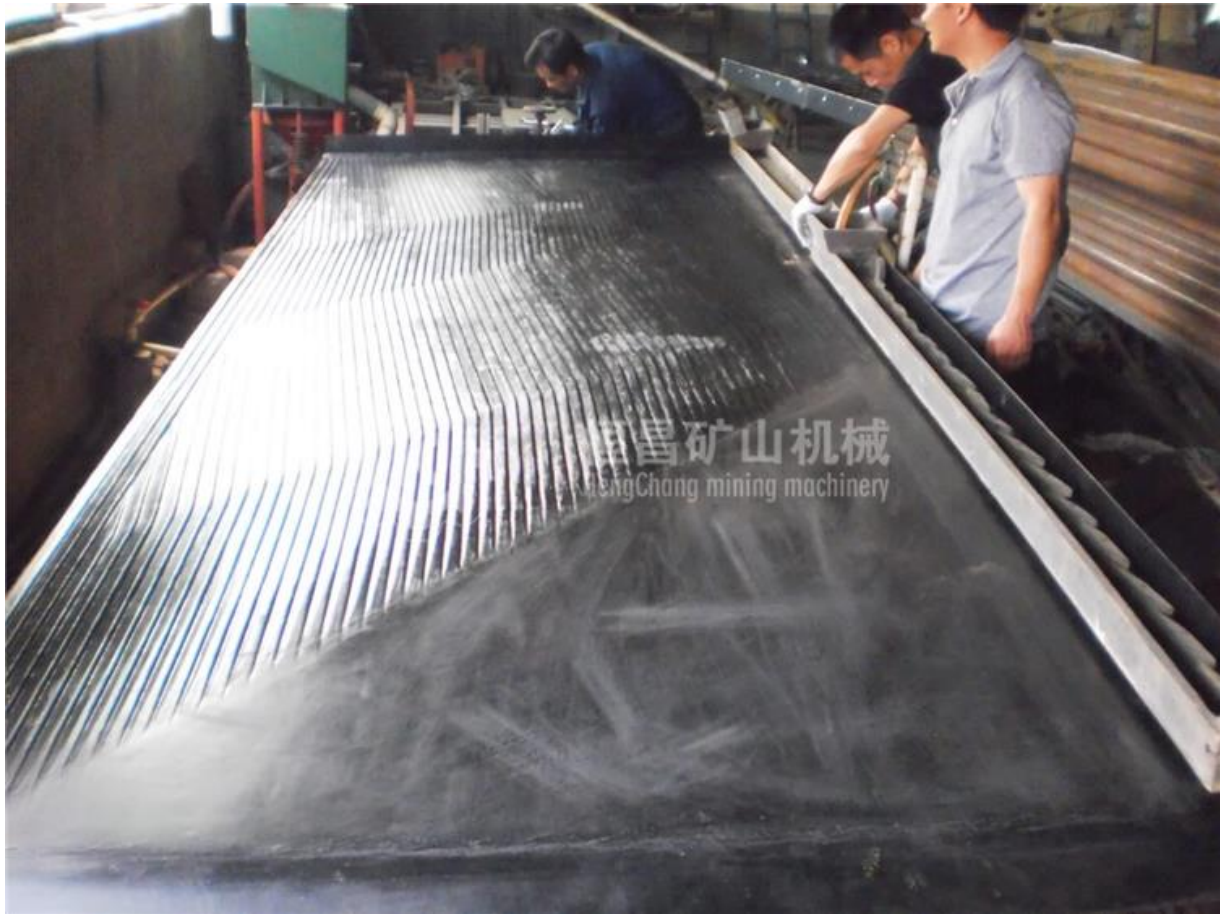
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IX About us

Jiangxi Hengchang Mining Machinery Manufacturing Co., Ltd. is one of the leading company in mining gravity separator machine designing & manufacturing in China. Up to now, we have developed four major product lines; they are mining milling machine, mining classifying separator, mining flotation machine and the mining gravity separator.

We have three senior engineers and two junior engineers on equipment designing and mining process designing. At the same time, we kept good relationship with some mining research institute and university, such as Jiangxi University of Science and Technology, Ganzhou Nonferrous Metallurgy Research Institute, Hunan Research Institute of Nonferrous Metals, and etc., to improve our designing and production, and also provide technology support for the mining project.

With more than 30 years in mining business, we have accumulated enough experience in gold mining plant, tungsten mining plant, wolfram mining plant, tin mining plant, cassiterite mining plant, coltan mining plant, columbite mining plant, and iron ore mining plant, black/beach sand mining plant designing, manufacturing, installing, commissioning and training. We could provide the customized complete mining solution to our customer.

Our major overseas market is Africa and Southeast Asia, and our products covers 43 global countries, as more and more customers are aware of our quality products and good service, this number is growing fast.

Focus areas:

Mining equipment, vibrating feeder, vibrating screen, crusher, ball mill, classifying separator, leaching tank, flotation machine, gravity separator, shaking table, spiral chute, jig machine, centrifugal concentrator and other mining equipment.

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About Us

Jiangxi Hengchang Mining Machinery Manufacturing Co., Ltd

Jiangxi Hengchang Mining Machinery Manufacturing Co., Ltd was established in 1985 with the registered capital of 500,000 USD. We covers an area of more than 30,000 square meters, owning more than 30 types of heavy processing equipments and with an annual sales Of more than 8 millions. We have a professional international level engineer team and a strong R&D department, having been cooperated with domestic and oversea Scientific Research Institutes for many years. As a professional mining machinery manufacturer, we take perfectness as our goal and are willing to make our continuous efforts.



Customers Visiting Us



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Why Choose Us ?

OEM / custom make as per customers' requests.

International level engineers team

MORE

Experienced and Advanced mineral processing technology!

MORE

Over 30 years mining machinery manufacturing

MORE

HENGCHANG ONE-STOP SERVICE:

1. Providing test of your raw ore
2. Complete processing flowchart design
3. Supplying complete line of mining equipments
4. Engineers come to mining site for installation, commissioning and workers training.



Exhibition Show



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