GRAVITY SEPERATION

SHAKING TABLE

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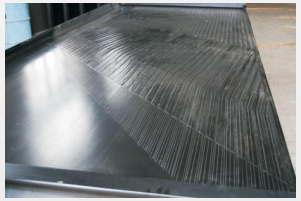
A QUALITY LEADER IN MINING INDUSTRY

01 TMT® Shaking Table

Introduction

Painted Shaking table is one of the traditional product improved and perfected in the long-term production practice in mineral gravity beneficiation . The equipment is mainly used in gravity ore dressing plant to select fine concentrates such as tin, tungsten, lead, antimony, titanium, rare earth, iron, manganese and other colored and ferrous minerals. The recycling feeding particle size is 2~0.010mm,. When used together with other equipment, it is mainly used to recover fine-grained minerals above 0.037 mm. The new shaker can recover particle size up to 0.010 mm. Therefore, it is the most important and widely used equipment in gravity ore dressing plants.



Advantages and Characteristics

1. Smooth and reliable operation method, easy adjustment and less impairment;
2. High concentrating efficiency , and the enrichment ratio can reach to 100% above.
3. Minerals with different specific gravity are clearly separated on the bed surface,
4. it can qualified concentrates and discard the final tailing during one process

SHAKING TABLE MAIN SPECIFICATION(Table 1)

Item	Table Type			
Corse Sand		Slime ,6 Decks	Ultra Fine SLime Table (WITHOUT WEARING RESISTANT)	
Main Technical Data	4395×1825	4395×1825	4395×1825	4395×1825
Stroke(mm)	16 ~ 22	11 ~ 16	8 ~ 11	5 ~ 7
Surface Horizontal Slope(degree 0)	2.5 ~ 4.5	1.5 ~ 3.5	1 ~ 2	1 ~ 1.75
Motor	Y100L—6 940r/min 1.5KW			
feeding particle size (mm)	2 ~ 0.5	0.5 ~ 0.074	0.074 ~ 0.019	0.074 ~ 0.010
Feeding volume(t/d)	20 ~ 35	10 ~ 25	3 ~ 10	1.55
feeding density (%)	25 ~ 30	20 ~ 25	15 ~ 20	10 ~ 25
Water consumption (cubic Meter per day)	80 ~ 150	30 ~ 60	15 ~ 30	4 ~ 6
weight(Kg)	1045	1030	1065 6 layer unidentifiable	1080

01-1 TMT® Shaking Table (High Efficient)

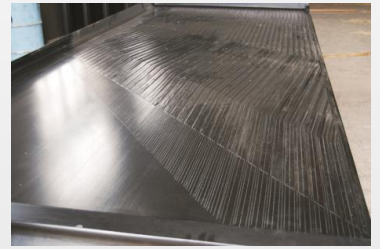
Technical Specification

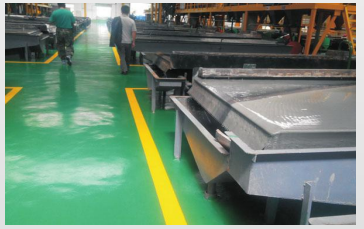
ITEM	MODLE AND SPECIFICATION (Table II))		
TABLE TYPE	YCB NEW TYPE CORSE SAND TABLE	YXB HIGH-EFFICIENT FINE SAND TABLE	YKB NEW HIGH EFFICIENT SLIME TYPE SLIME TABLE
Table Size	4395×1825	4395×1825	4395×1825
Stroke (mm)	16～22	11～14	5～7
Frequency(strock/Min)	270～290	350～370	480～520
Surface horizontal slope (o)	2.5～4.5	2～3	1.5～2.5
Motor	Y90L-6，910r/min 1.1kw	Y90S-4 1400r/min 1.1kw	
Selection Data Feeding size(mm)	2～0.5	0.5～0.019	0.074～0.010
Feeding capacity(t/d)	20～45	25～45	15～25
Feeding Density (%)	25～30	20～25	15～25
Water consumption	80～150	20～30	10～20
weight (kg)	1045	1035	1070

※The shaking table production ability is related to such factors as feeding property, particle composition, operation condition and mineral quality. While produces concentrates, the coarser the feeding size, the bigger the capacity;the production in coarse concentrate is higher than that of the fine concentrates

Take Tin and Tungsten production for example as in the table below:

Particle Size(mm)	(final concentrates/Tin)	Final coarse concentrates/Tin	Final coarse Wolframite
1.4～0.8	30	35	55
0.8～0.5	25	30	50
0.5～0.2	20	25	35
0.2～0.074	15	20	30
0.074～0.04	8	12	20
0.04～0.02	5	8	12





02 TMT® Fiber Glass Shaking Table

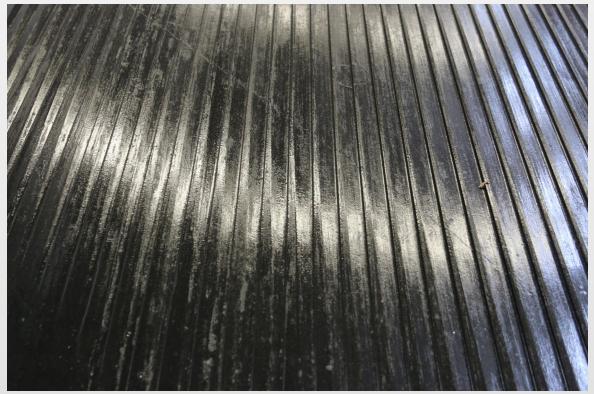
Introduction

The fiber glass shaking table has advanced surface structure, good performance, reliable operation, excellent selection index, and completely different from the wooden bed surface in terms of material, structure and manufacturing process. It is a major innovation to the traditional wooden bed surface.

Advantages and Characteristics

1.Large rigidity and strength, small deformation;
2.Very Low water absorption, no excessive on weight;
3.Anti-wearability and no impairment required;
4.Does not absorb moisture, No swelling, no warm damages;
5.Resist chemical corrosion, acid and alkali resistance, resistible to any pulp medicament;

Supporting	Rocker plate support	Sliding support
Slop Adjust	Fixed axis adjustment mechanism	Variable axis adjustment mode
Surface Structure	Polyester glass fiber reinforced plastic, pre-embedded framework composite structure	Same as LS model
Working Surface	Special wear resistant layer	Same as LS model
Surface Specification	1500～1850×4500mm	Same as LS model
Working surface	705 square meters	Same as LS model
Direction	Left Type and right type	Same as LS model
Chute Type	Coarse Sand (rectangle)	Same as LS model
	Fine sand (ladder-shaped)	
	Slime (curved)	
Cross-fall Slope	0—5 degree	Same as LS model
Stroke	10—30mm	8—22MM
Stroke frequency	240—360 per min	Same as LS model



04 TMT® Rubber Deck Shaking Table

Introduction

Since the successful development of the rubber shaking surface, it has been favored by users worldwide for its large surface friction coefficient , high beneficiation yielding ratio, good wear resistance, long service life and basic maintenance-free.The rubber shaking table bear the following features while compared with the traditional shaking table.

Advantages and Characteristics

1.Due to the addition of specific functional materials in ordinary rubber compounding, its actual beneficiation efficiency is much higher than the traditional raw lacguer Paint-deck type,

2.The large surface friction assures strong adhesion ratio and garrantee zero-lost on the concentrates;

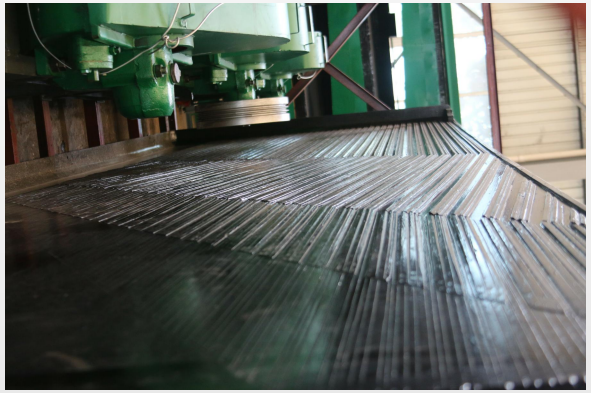
3.The surface hardness of rubber table is 50% higher in hardness than the ordinary type, super wearing resistance and long service life

Name		Unite	Coarse Sand	Fine Sand	Slime
Surface Size	Length	MM	4450	4450	4450
	Gear Side width	MM	1855	1855	1855
	Concentrates end width	MM	1546	1546	1546
Max feeding Size		MM	2	0.5	0.15
Feeding Volume		t/d	30—60	10—20	15—25
Feeding Density		%	25—30	20—25	15—25
Stroke distance		MM	16—22	11—16	8—16
Frequency		F	45—48	48—53	50—57
Cleaning Water volume		t/d	80—150	30—60	10—17

05 TMT®Triple Deck Lift Shaking Table

Introduction

The three-deck lift shaking table has obtained the national invention patent authorization, patent number: ZL 2016 1 0654925.9. The equipment is selected to separate mineral from 2mm to 0.010mm, and is mainly used in the fine-grained and ultra fine-grain minerals separating process for tin, tungsten and gold. This type of shaking table has a high enrichment ratio, able to select high-grade concentrates and throw out the final tailing in one stage, and can obtain multiple products at the same time.



※※Features and Characteristics

1. Has a good Platt-Olyse motion curve conducive to mineral sorting;
2. The bed support skeleton is made of high quality wood or steel, of the highest quality with Chinese lacquer fine workmanship,featured with light weight, un-deformable smooth surface, reasonable friction coefficient, and good resistance to any harmfully chemical like acid and alkali and high abrasion ration.
3. The surface structure of the shaking table is unique with reasonable geometry design . It can eliminate the rapid flow phenomenon near the quenching line, thus reducing the loss of heavy minerals. One to three slope faces are provided in the longitudinal direction of the groove between the strips to improve the minerals. Sorting effect;
4. The efficiency of the selection is very high, with an enrichment ratio above 100%;

※※Table type and Technical Specification

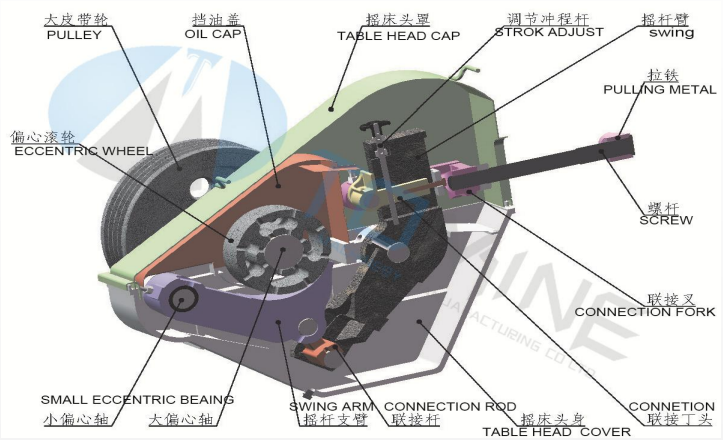
The three-layer shaking table is usually divided into five types according to the size range of the selected minerals: coarse sand surface, fine sand surface, slime (grooved) surface, fine slime surface, new coarse sand surface, new type fine sand surface and new grooved surface, there are seven categories, each of which can be subdivided in the following manner

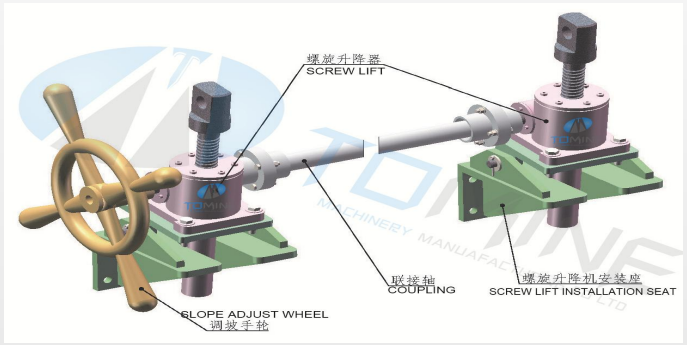
1.According to the location of the ore, it is divided into two types: left-hand and right-handed (according to the head of the shaker, the left side of the bed is left-left and the right is right-hand);
2.There are four types as classified into made-of material : lacquer surface, fiber glass surface, rubber surface and wearing-resistance
3.According to the support skeleton, it is divided into wooden and steel platform frame shaking table
4.According to the support base , it is divided into cement foundation support and steel structure foundation support;

05-1 TMT®Triple Deck Lift Shaking Table

Technical Specification

Table Type	Stroke (mm)	Stroke frequency (r/Min)	Slope (O)	Surface Size（mm）	Motor and power/RPM	Weight(T)	FOR TIN SEPERATION			
							Feed Size (MM)	Capacity(in dry mineral/t/d)	Feeding Density (%)	Water consumption(t/set/day)
Coarse	16～22	270～290	2.5～4.5	4395×1825	YE3-132M-6 B3 4kW 940r/min	～6	2～0.5	60～105	25～30	240～450
Fine sand	11～16	290～320	1.5～3.5	4395×1825	YE3-132M-6 B3 4kW 940r/min	～6	0.5～0.074	30～60	20～25	90～180
Slime(Grooved)	8～11	320～360	1～2	4395×1825	YE3-132M-6 B3 4kW 940r/min	～6	0.074～0.019	27～90	15～20	45～90
Ultra fine Slime	5～7	480～520	1～1.75	4395×1825	YE3-132M-6 B3 4kW 940r/min	～6	0.074～0.010	4.65	10～25	12～18
New Coarse table	16～22	270～290	2.5～4.5	4395×1825	YE3-132M-6 B3 4kW 940r/min	～6	2～0.5	60～135	25～30	240～450
New fine sand	11～14	350～370	2～3	4395×1825	YE3-132M-6 B3 4kW 940r/min	～6	0.5～0.019	75～135	20～25	60～90
New grooved	5～7	480～520	1.5～2.5	4395×1825	YE3-132M-6 B3 4kW 940r/min	～6	0.074～0.010	45～75	15～25	30～60



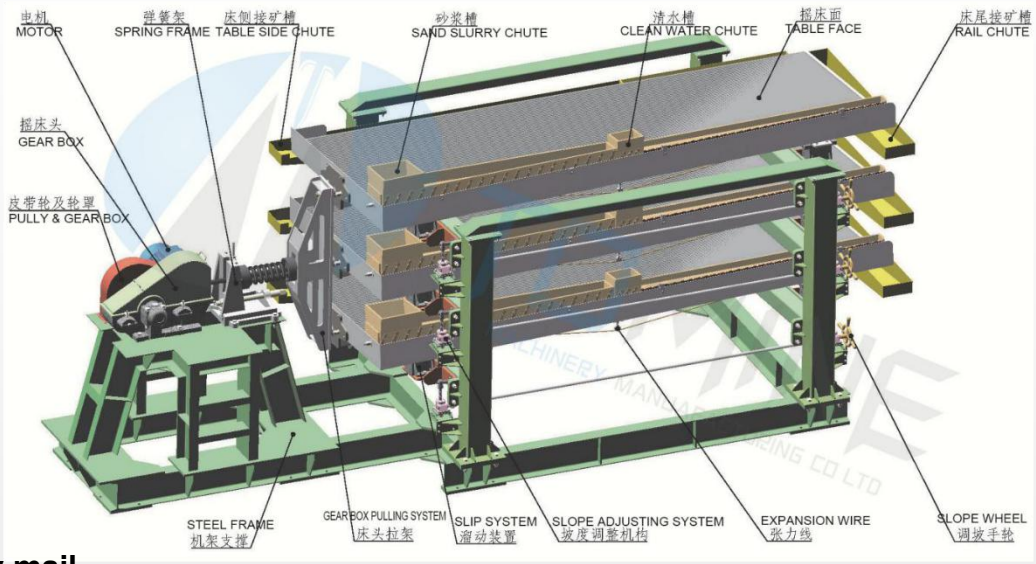
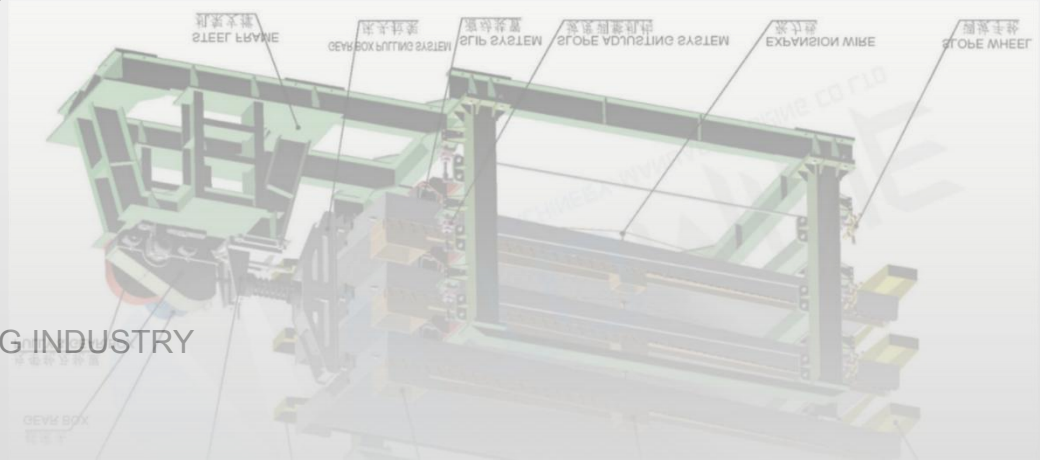


Slope Adjustment Device

05-2 TMT®Triple Deck Lift Shaking Table

Production Ton/Set.D

Particle feed size(mm)	Tin concentrates	Tin coarse concentrate	Wolframite Coarse Concentrates
1.4 ~ 0.8	90	105	165
0.8 ~ 0.5	75	90	150
0.5 ~ 0.2	60	75	75
0.2 ~ 0.074	45	60	90
0.074 ~ 0.04	24	36	60
0.04 ~ 0.02	15	24	36



>> There are also two and six decks table, for information please contact by mail