



南科重工
NANKE HEAVY INDUSTRY

南匠精铸 科创智造

Forging Excellence with Craftsmanship Technology and Intelligence Driving Innovation

智慧矿业全产业链定制化服务EPC+M+O一站式运营商
Full-Industry-Chain Customized EPC+M+O One-Stop Operator for Smart Mining



跳汰机 JIG

Td复合双动跳汰机

TD Composite Double-Action Jig

TTB下动式圆锥隔膜跳汰机

TTB Downward-Moving Conical Diaphragm Jig

锯齿波跳汰机 Sawtooth Wave Jigger

DYTA-7750液压径向跳汰机

DYTA-7750 Hydraulic Radial Jigger

广西南科重工机械有限公司

GUANGXI NANKE HEAVY INDUSTRY MACHINERY CO., LTD.

TD复合双动跳汰机

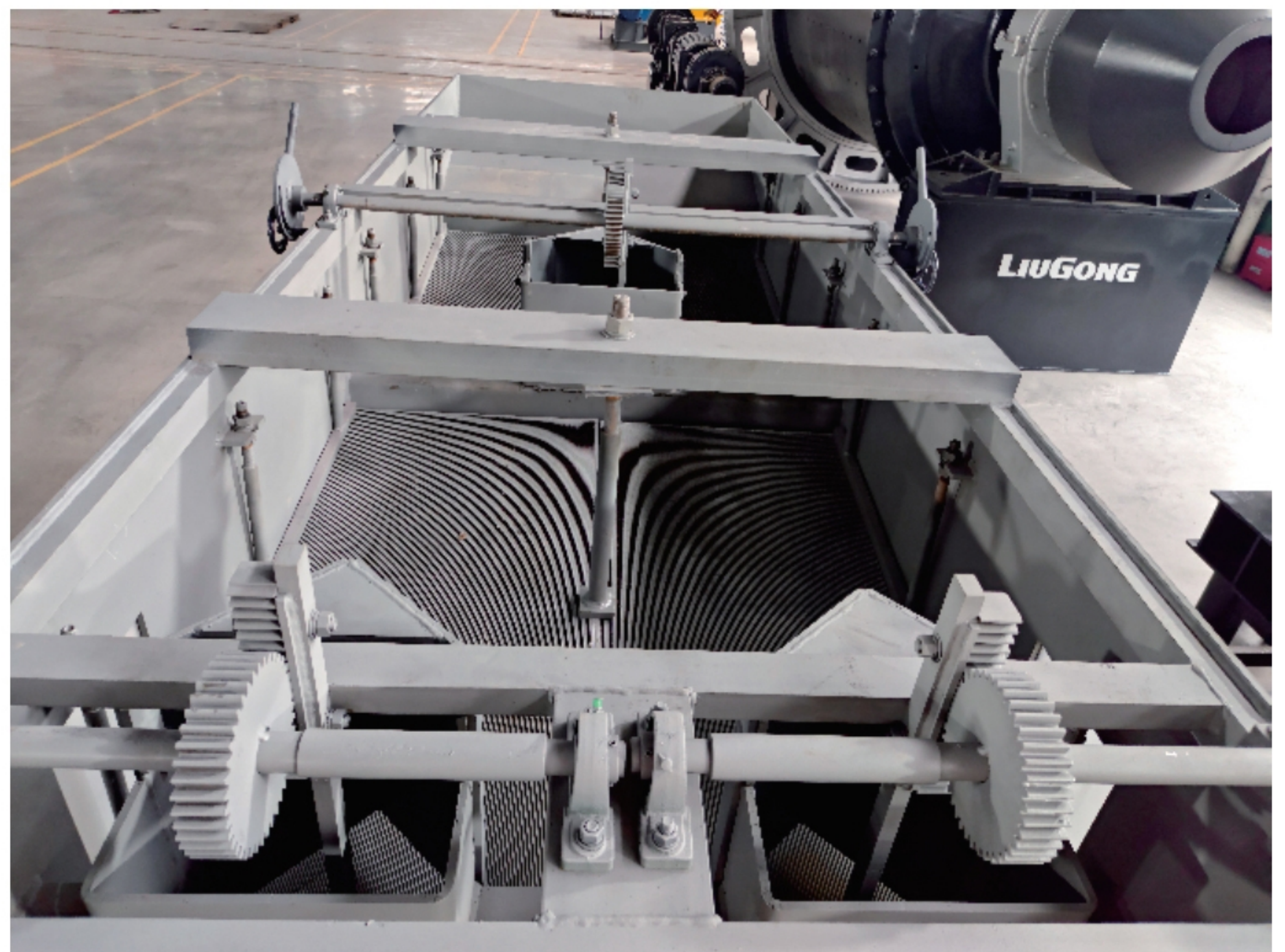
TD Composite Double-Action Jig



产品简介 PRODUCT INTRODUCTION

适合各种稀有金属矿（钨、锡、金、铜、铅、锌、铬、钛、锆、稀土、金红石、独居石、钽铌、石榴石、石英、高岭土）等产品的提纯。重矿物通过网筛进入下动锥体，由细矿排矿阀排入细精矿池，粗矿自动形成垫层，垫层超过所需厚度时由筛上排矿阀排出，流入粗精矿池。改变粗矿垫层厚度，可控制选矿品质。轻矿物、废砂进入尾矿槽排出。

Suitable for the purification of various rare metal ores (tungsten, tin, gold, copper, lead, zinc, chromium, titanium, zirconium, rare earths, rutile, monazite, tantalum-niobium, garnet, quartz, kaolin) and other products. Heavy minerals pass through the screen and enter the lower moving cone, and are discharged into the fine concentrate pool through the fine ore discharge valve. The coarse ore automatically forms a layer, and when the layer exceeds the required thickness, it is discharged through the screen top discharge valve and flows into the coarse concentrate pool. Changing the thickness of the coarse ore layer can control the beneficiation quality. Light minerals and waste sand enter the tailings tank and are discharged.



TD复合双动跳汰机主要技术参数 Technical Parameters of TD Composite Double-Action Jig

型号 Model	载面形式 Section Form	跳汰室数 Jigging Chamber Quantity	入选粒度 Feed Particle Size (mm)	冲次(次/分钟) Stroke Frequency (times/min)	处理能力 (t/h) Capacity	电机功率 Motor Power (kw)	循环用水 Circulating Water (t/h)
TD1400	矩形	2	1-50	0-150	40-50	30	150-280

注：技术参数如有变动，恕不另行通知。 Note: Any change of technical data shall not be advised additionally.

TTB下动式圆锥隔膜跳汰机TTB Downward-Moving Conical Diaphragm Jig

产品简介 PRODUCT INTRODUCTION



下动式圆锥隔膜跳汰机采用偏心连杆机构，具有上升水流稳定有力的特点，该机具有单机处理量大，占地面积小，回收率高的选矿优势，广泛用于砂金，钨，锡，硫铁，重晶石，天青石，萤石，各种冶炼渣等矿物选矿，选矿效果良好。

Under-driven conical diaphragm jigs utilize an eccentric connecting rod mechanism, characterized by a stable and powerful upward water flow. This design offers significant beneficiation advantages, including high single-unit processing capacity, a small footprint, and high recovery rates. They are widely and effectively employed in the concentration of various minerals such as placer gold, tungsten, tin, iron pyrite, barite, celestite, fluorite, and various smelting slags.

应用领域 APPLICATION FIELDS

广泛用于砂金，钨，锡，硫铁，重晶石，天青石，萤石等矿物选矿，选矿效果良好。重矿物通过网筛进入下动锥体，由细矿排矿阀排入细精矿池，粗矿自动形成垫层，垫层超过所需厚度时由筛上排矿阀排出，流入粗精矿池。改变粗矿垫层厚度，可控制选矿品质。轻矿物、废砂进入尾矿槽排出。

It is widely used in the mineral processing of alluvial gold, tungsten, tin, pyrite, barite, celestite, fluorite and other minerals, with excellent beneficiation effect. Heavy minerals pass through the screen and enter the lower moving cone, then are discharged into the fine concentrate tank via the fine ore discharge valve. Coarse minerals automatically form a cushion layer; when the cushion layer exceeds the required thickness, it is discharged through the on-screen discharge valve and flows into the coarse concentrate tank. Adjusting the thickness of the coarse mineral cushion layer allows control over the beneficiation quality. Light minerals and waste sand enter the tailings trough and are discharged. Changing the thickness of the coarse mineral cushion layer can control the mineral processing quality. Light minerals and waste sand enter the tailings tank and are discharged.

TTB下动式圆锥隔膜跳汰机TTB Downward-Moving Conical Diaphragm Jig

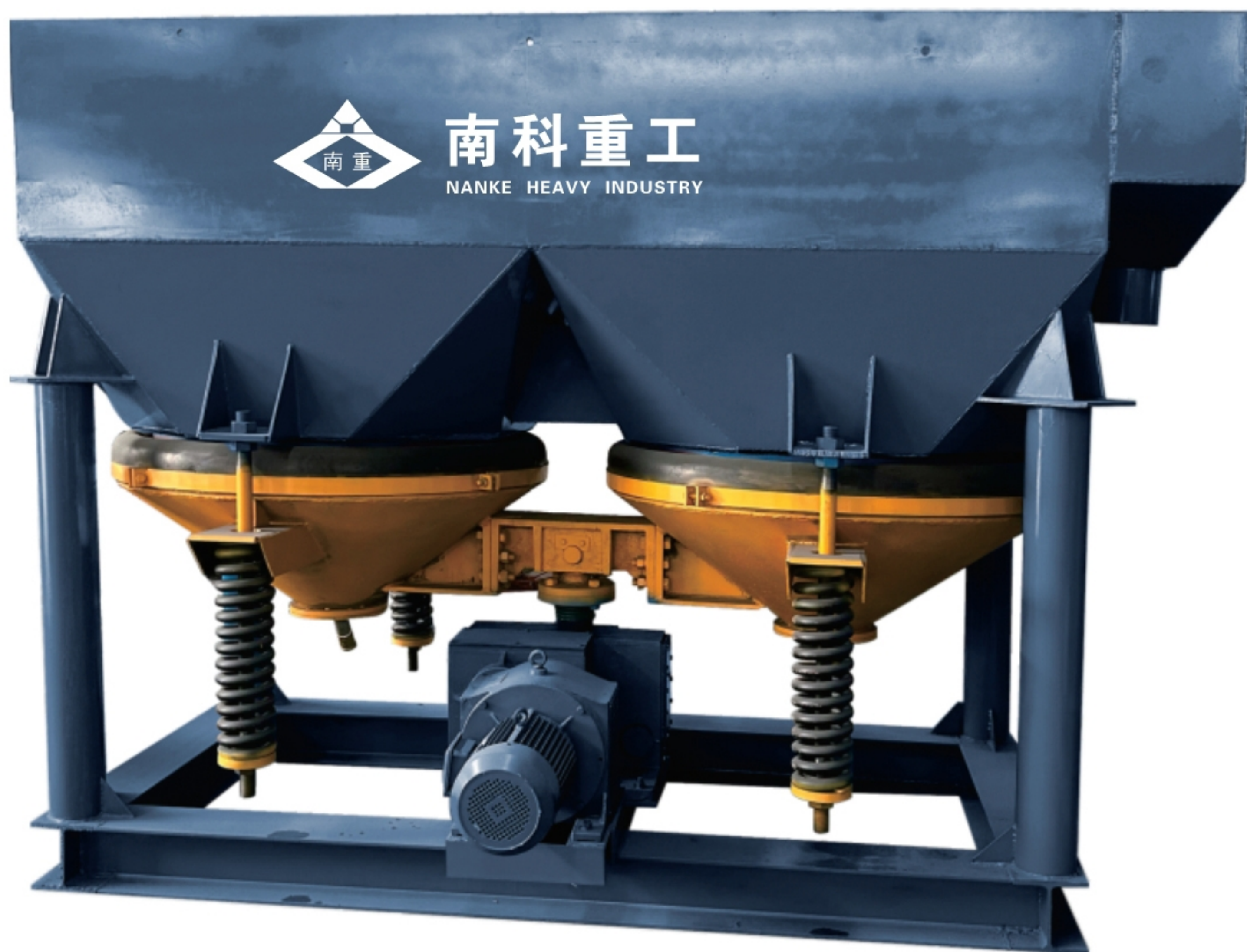
型号 Model	载面形式 Section Form	跳汰室数 Jigging Chamber Quantity	入选粒度 Feed Particle Size (mm)	冲次(次/分钟) Stroke Frequency (times/min)	处理能力 (t/h) Capacity	电机功率 (kw) Motor Power	循环用水 (t/h) Circulating Water
TTB1100	矩形	2	1-25	0-105	20-25	11	150-200

注：技术参数如有变动，恕不另行通知。Note: Any change of technical data shall not be advised additionally.

锯齿波跳汰机

Sawtooth Wave Jig

产品简介 PRODUCT INTRODUCTION



锯齿波跳汰机是在传统正弦波跳汰机基础上进行研制和改进的一种高效节能的重选设备，作为原矿富集、粗选及精选作业，锯齿波跳汰机广泛应用于低度锰矿、褐铁矿的品位提高，工业炉渣回收有色金属以及回收河砂中的有用矿物，如金、钨、锡、锰、铁、铅、锌、金刚石等金属，效益显著。

The sawtooth wave jig is an efficient and energy-saving heavy separation equipment developed and improved based on the traditional sine wave jig. It is widely used in the concentration of raw ore, coarse selection and fine selection operations. The sawtooth wave jig is extensively applied in increasing the grade of low manganese ore and limonite, recovering rare metals from industrial furnace slag, and recovering valuable minerals such as gold, tungsten, tin, manganese, iron, lead, zinc, diamond, etc. from river sand, achieving remarkable benefits.

锯齿波跳汰机主要技术参数 Technical Parameters of Sawtooth Wave jig

项目参数型号 Type	跳汰室Jigging Room		隔膜 Jigging Membrane		给矿粒度 Inlet Size(mm)	筛下补给水量 Water replenishing (m³/t)	处理量 Capacity (t/h)	电机功率 Motor Power (kw)	外形尺寸长x宽x高 (mm) Overall Size L.xW. xH. (mm)
	形状Jigging	面积 Area(m²)	冲程 Stroke(mm)	冲次frequency (次/min)					
JTO.57-1	梯形Trapezoid	0.57	(M12口轮G/W) 8.5~12	60~160	<6	1~2	1.5~3	1.5	1550x780x1530
JT1-1	梯形Trapezoid	1.04	(M17口轮G/W) 10~17		<10	2~3	2.5~5	2.2	2270x1110x1890
JT2-2	矩形Rectangle	2.28	(M21口轮G/W) 12~21		<10	2~4	5~10	3	3225x1550x2050
JT3-1	梯形Trapezoid	3	25~57	50~125 80~110	<10	3~6	7.5~15	5.5	2745x2000x3030
JT4-2	矩形Rectangle	4	12~30		<25	4~8	8~20	7.5	4240x1990x2750
JT4-2A	矩形Rectangle	4	25~57		<25	4~8	8~20	4X2	4240x1990x2750
JT5-2	梯形Trapezoid	4.86	12~30		<10	3~6	12~25	7.5	3600x2000x2600
JT5-2A	矩形Rectangle	4	12~30		<15	4~8	8~20	5.5X2	4240x1990x2750
JT6-3	梯形Trapezoid	6	12~30		<20	7.5~12.5	12~25	5.5X7.5	5650x2080x3030

注：技术参数如有变动，恕不另行通知。 Note: Any change of technical data shall not be advised additionally.

DYTA-7750液压径向跳汰机

DYTA-7750Hydraulic Radial Jigger



产品简介 PRODUCT INTRODUCTION

液压径向跳汰机是重力选矿的关键设备。由于它处理能力大，选别粒度范围广，回收率高，效果好，故广泛用于选别砂金、锡、钨、铅、锌、锑、锰、金刚石、铁矿等有色冶金矿山和采金船上。DYTA型系列跳汰机成功替代了传统采金船上的皮带溜槽。

The DYTA-7750 hydraulic radial jigger is a key equipment in gravity mineral separation. Due to its large processing capacity, wide range of separation particle size, high recovery rate and excellent performance, it is widely used in the separation of precious metals such as sand gold, tin, tungsten, lead, zinc, antimony, manganese, diamond, iron ore, etc. in metallurgical mines and on gold mining ships. The DYTA series jig has successfully replaced the belt troughs used on traditional gold mining ships.

性能特点 PERFORMANCE FEATURES

这款液压跳汰机采用机械液压驱动与电磁调速技术，以±0.5mm的精准冲程实现55%的显著节能与低于75dB的静音运行；其独特的扇形槽体设计适配0.5–30mm矿物，对金、锡等重矿物回收率超90%，单台处理量高达10–300t/h；同时较传统设备省水60–70%，结构紧凑且支持移动采矿船作业，兼具高效产能与环保效益。

This hydraulic jig adopts mechanical-hydraulic drive and electromagnetic speed control technology, achieving significant energy savings of 55% with a precise stroke accuracy of ±0.5 mm and quiet operation below 75 dB. Its unique fan-shaped tank design is suitable for processing minerals of 0.5–30 mm, delivering a recovery rate exceeding 90% for heavy minerals such as gold and tin, with a single-unit capacity reaching 10–300 t/h. Moreover, it saves 60–70% of water compared to conventional jigs, features a compact structure, supports mobile mining vessel applications, and combines high efficiency with environmental benefits.

DYTA-7750液压径向跳汰机主要技术参数 Technical Parameters of DYTA-7750Hydraulic Radial Jigger

跳汰气数 RoomsQuantity	3室 3-chamber	4室 4-chamber	5室 5-chamber	6室 6-chamber	7室 7-chamber	8室 8-chamber	9室 9-chamber	10室 10-chamber	11室 11-chamber	12室 12-chamber
选别面积(m²) Area of Separating	9.9	13.2	16.5	19.8	23.1	26.4	29.7	33	36.3	39.6
处理能力(t/h) Capacity	50~75	66~100	78~125	100~150	116~175	132~197	150~220	166~245	182~270	200~300
给矿粒度(mm) Inlet Size	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
电机功率(kw) Motor Power	5.5	7.5	7.5	7.5	11	11	11	15	15	15
液压站电机功率(kw) hydraulic power	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
设备重量(t) Weight	6	8	10	12.5	14.2	15.8	17.5	18	19.2	21
机外形尺寸(mm) Overall Size	Φ7750x3094									

注：技术参数如有变动，恕不另行通知。Note：Any change of technical data shall not be advised additionally.



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