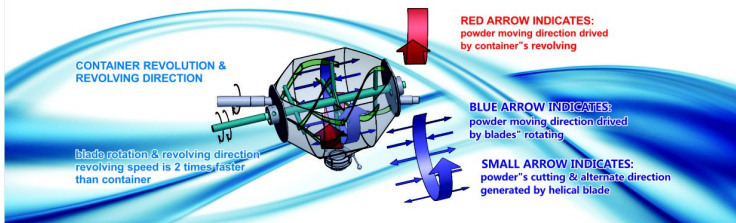


DOUBLE MOVEMENT  
MIXING PRINCIPLE



CONTINUE TO  
EXPLORE



郑州金泰金属材料有限公司  
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双运动混合机 开创全新混合时代  
Double movement mixer



公司介绍

郑州金泰制造是一家创新型企业, 同时也是一个有研发能力、有抱负、有个性的企业。在混合设备制造领域内, 大多数企业都还在生产着传统设备, 有些设备30多年来没有变化。金泰公司在这个领域内尊崇“中国制造”的精神, 潜心研究, 致力改变传统混合机, 让其提高效率, 让其节省能源! 目前我们生产的两款混合机是拥有自主知识产权、国家发明专利技术的创新型混合机。在国内混合机创新技术上, 金泰公司走在了前列。

随着时代的发展, 科技的进步, 特别是新材料, 新技术的广泛应用, 许多对产品质量要求严格的高新企业发现传统混合机无法解决混合过程中存在的混合效率低, 混合工艺有缺陷的顽症。而这些缺陷严重制约了高新材料对混合工艺高标准的要求。为了解决这一难题, 金泰公司创造性的提出了一种先进的, 全新的混合理念——双运动叠加混合方法。其内容是让容器运动从而对物料进行对流混合的同时, 叠加运动的内部叶片对物料进行搅拌混合。这样就可以极大地提高混合质量和混合效率。

为了实现设备的双运动混合, 金泰公司在技术带头人刘宏林先生的带领下开拓思想, 大胆创新, 终于在2002年设计并制造出具有全新混合理念和全新结构的金合牌双运动混合机。目前, 金合牌粉体混合设备已经销往全球50多个国家和地区, 年出口额占总销售额三成左右, 美国马林大药房, 美国联合航空航天技术(UTC), 荷兰皇家壳卡集团等国内外几十家上市公司均为我们的客户, 部分技术已经达到国际先进水平。



ENTERPRISE  
QUALIFICATION

Zhengzhou Jin Tai Metal Materials Co., Ltd.



Zhengzhou Jin Tai Metal Materials Co., Ltd. was established in 2001. It is a mixer (also known as mixing machine) professional manufacturer. The corporation has about 180 staff, including 15 senior engineers, which integrates research and manufacture during its development. The company's production department is located in No.1 Zhongxing Road in Xinzheng city and head quartered in Weilai Garden, No.71 Weilai Road Zhengzhou city, which is close to the famous Zhengdong New District.

For mixing equipment, most companies are still producing the traditional equipment, some equipment didn't change over 30 years. Over the years Jin Tai cleaves to the spirits of "Made in China" in the field, devoting research to innovating in order to improve the efficiency and save more energy. At present we have the independent intellectual rights and national patent technology of our products. In the creation part of domestic mixing equipment, Jin Tai has been taking the lead. In addition, we have awarded Quality Management System Certification of ISO9001; Production Certification of CE, China National invention patent.

PLANT  
PROCESSING  
EQUIPMENT  
AND  
PRODUCTION  
PROCESS  
CONTROL



认证  
Certificates



欧洲安全认证



中国强制认证



- 
**自主研发专利产品**  
 Independent intellectual property products  
 全球首创双运动混合  
 The world's first double movement technology
- 
**大型双运动混合机**  
 Large double movement mixer  
 适用范围广，领先同行业产品  
 Wide range of application, leading the same industry products
- 
**自动化生产线配套对接**  
 Supporting docking for automatic production line  
 满足医疗，食品等众多行业要求  
 Match the medical, food and other industry requirements
- 
**免费粉体混合实验室**  
 Free powder mixing test in laboratory  
 为各行业提供最佳混合方案  
 Provide the best mix project for each industry

交叉转轴双运动混合机  
选择金合 超乎您的想象

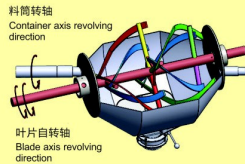
Double Movement Blender  
Beyond Your Imagination



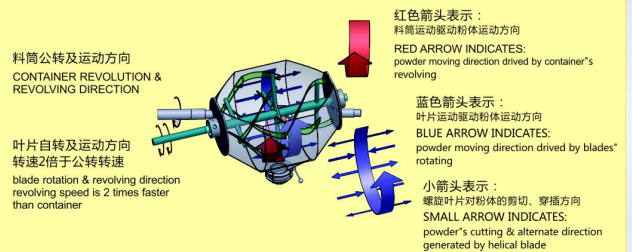
- 
**双运动混合优势**  
 The advantage of double movement mixer  
 开拓创新颠覆传统  
 Innovation and creative
- 
**解决混合工艺难题**  
 To solve the problem of mixing technology  
 轻重粉不易混合怎么办  
 light and heavy powder mixing technology
- 
**超精细化粉体混合**  
 Hyperfine powder mixing  
 混合充分均匀彻底  
 mixed evenly and thoroughly
- 
**不破坏粉体颗粒形状**  
 Do not destroy the shape of the powder particles  
 高效混合不伤害粉体原貌  
 Efficient mixing and do not harm the original powder

双运动混合原理介绍

- 双运动混合机料筒及运动方式**  
 JINHE® JHX Double movement mixer container revolving
- 双运动混合机内置螺旋叶片组及运动方式**  
 JINHE® JHX Double movement mixer container and blade revolving



双运动混合机粉体流向示意图  
DOUBLE MOVEMENT MIXING PRINCIPLE



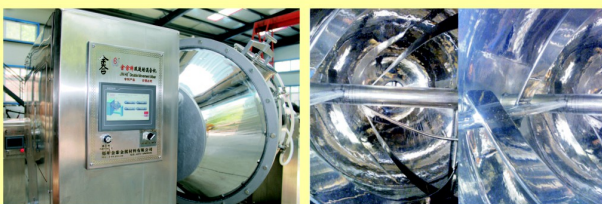
JHX双运动混合机

JINHE® MIXER

JHX SERIES DOUBLE MOVEMENT MIXER  
CLASSICAL MODELS SELL WELL IN 10 YEARS



产品介绍



JHX叶片转轴与回转筒之间由特制的密封组件密封。在出料时通过点动控制，使料筒小范围的转动，让螺旋叶片搅动从而加速出料。本混合机上所有接触物料的零部件均采用优质不锈钢制做。

1. 回转料筒在工作时沿着斜插转轴转动，一可以消除料筒内“底部”物料死角；二可以使筒内物料左右、上下对流，直接参与混合。
2. 本机对两种以上比重差异较大的粉体混合效果更好。因为本混合机内的螺旋叶片转动时对粉体有下压动作，可以将浮在上方的轻粉压入重粉中达到轻重充分混合。

Introduction

JHX series double motion mixing machine, its mainly acting part is made up of revolving double cones container which is placed declining, plus external revolving axis and internal helical blades components. Components with different revolving speed are driven by one power system. Between the helical blade's revolving axis and container it is sealed by special sealing components. When discharge material, customer can operate positive shake or reverse shake button on the panel to make container local shake and the revolving blade will speed up the discharging. All contact parts of this machine are made of high quality stainless steel.

1st The two functions of container revolving around slant axis are completely eliminate dead angle on the bottom of container and make mixtures convected left and right, up and down to participate mixing directly.

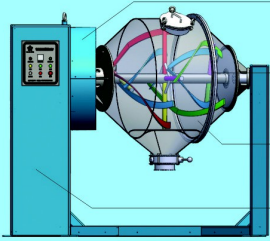
2nd This series machine has better mixing effect for powders which has big difference in specific gravity. Because the revolving helical blades inside this machine have down force to powder, floating light powder can be pressed down into the heavy powder and mixed completely.

技术参数/Technical Parameters

型号	最大容量	最大载荷	料筒速度	叶片速度	电机功率	外形尺寸	整机重量
Model	Max Capacity (L)	Max Barrel Weight Capacity(kg)	Barrel Speed (r/min)	Blade Speed (r/min)	Motor Power (kw)	Size(mm)	Weight (kg)
JHX50	40	60	25	50	1.1	1500 × 620 × 1000	430
JHX100	80	110	23	46	1.1	1700 × 720 × 1200	500
JHX200	160	240	21	42	2.2	2050 × 830 × 1400	660
JHX400	320	500	17	34	3.0	2500 × 1010 × 1600	910
JHX600	480	700	17	34	4.0	2700 × 1120 × 1750	1200
JHX600Z	480	1000	14	28	5.5	2700 × 1120 × 1750	1400
JHX800	640	1400	14	28	5.5	2900 × 1200 × 1850	2000
JHX1000	800	1800	11	22	7.5	3200 × 1300 × 2070	2300
JHX1500	1200	2200	8	16	15	3200 × 1300 × 2070	2600
JHX2000	1600	3600	6	12	18.5	3650 × 1500 × 2300	2900
JHX3000	2400	4800	6	12	22	3800 × 2100 × 2900	3500



### JHX结构介绍/JHX Principle Introduce



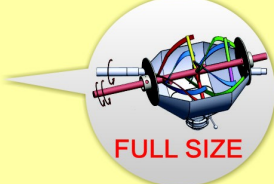
先进的机械传动机构，用一套源动力驱动两套运动系统工作。  
Advanced mechanical transmission device, two motion systems are driven by one power system.

独创卧式双锥料筒，沿斜插轴滚动运转。  
Creative horizontal double cones container, revolving around slant axis.

筒内全尺寸双层八叶片，与料筒运动方向不同，转速不同。  
Full size double layer 8 helical blades, their revolving direction and speed is different from the container's.

机壳采用喷塑烤漆工艺光滑亮丽。  
Machine shell surface all spray model and baking varnish disposal, beautiful-looking and endure cauterization.

### 全尺寸螺旋叶片无死角 FULL SIZE RIBBON BLADE WITHOUT DEAD CORNER

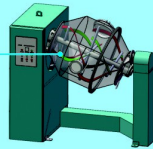


FULL SIZE

### 双运动80%高效装载率 80% HIGH LOADING RATE OF DOUBLE MOVEMENT MIXER

#### 80% FEED RATE

两套运动系统叶片转速为料筒转速两倍  
THE BLADE IS TWO TIMES FASTER THAN THE CONTAINER



### JHX优势介绍/JHX double movement mixer advantages

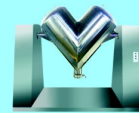
**好** Nice  
混得“好”：因为双运动混合机的料筒运动可以达到大处混合均匀，而叶片运动可以做到小处混合精细、充分的理想境界。  
At the macro mixing evenly, at the micro mixing intensively.

**快** Fast  
混得“快”：因为双运动混合机是两个运动叠加作用于混合工作，所以混合效率特别高，混合时间较三维混合机缩短60%。  
Shorten mixing time more than 60% than traditional blender machine

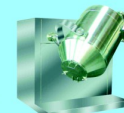
**多** Many  
装得“多”：双运动混合机比普通三维机装得多，因为由叶片起到主要混合作用，而叶片搅拌不需要很多空空空间，所以双运动混合机可以装得多，最大装载率可达到容积的80%，一台机器几乎等于两台相同容积三维混合机的装载量。  
The maximum loading reach 80% of the vessel

**省** Save  
用得“省”：双运动混合机较传统混合机省时50%以上，省电70%左右，省空间一半左右，省钱30%左右，使用更安全。  
Save time more than 50%, save about 70% electricity and save 30% costs.

### HIGH EFFICIENCY SAVE TIME / SAVE ROOM / SAVE MONEY



30mins



20mins



10mins

Save 70% Workers Operating Time

### SAVE YOUR MONEY

### JHN一机多筒双运动混合机 JHN replaceable vessel double movement mixer



#### 产品介绍

这是一款承载着设计师超凡想象力的优秀作品，她将双运动混合理念与复杂混合任务完美地结合起来。

1. 可以安装多种规格料筒，适应多种混合任务，当一台机器装上3升料筒，可以做微型混合试验，换上15升料筒，则可以完成小批次混合任务，充分挖掘一台设备的巨大潜力。
2. 同样实现双运动，继承双运动优点，在这样一款极实用的设备上，同样可以实现交叉转轴双运动混合物料，同样具备双运动混合机的好、多、快、省四大优点。
3. 安装简便方便，一个熟练工只需5分钟便可完成更换料筒的工作。
4. 由于采取一机多筒设置，可专筒专用；由于采用可拆卸料筒设置，可以做到100%清洗料筒，所以有效的防止了物料之间的交叉污染。

#### JHN Advantage Specialty:

- 1st One machine can be used as multiple machines. Different volume containers (3L~200L) can be installed whenever needed.
- 2nd Prevent cross-contaminations between batches. Easy loading and unloading. Convenient to clean the container.
- 3rd JHN run more smoothly than others. Owing to the cantilever structure, the room of this equipment is shrink.
- 4th JHN also has advantage like "Ideal mixing effect" "High loading rate" "Time saving" and "Money saving" double movement advantage.

### JHN一机多筒双运动混合机

#### 技术参数/Technical Parameters

型号	料筒容量	最大容量	最大载荷	料筒速度	叶片速度	电机功率	外形尺寸	整机重量
Model	Barrel Capacity (L)	Max Capacity (L)	Max Weight (kg)	Barrel Speed (r/min)	Blade Speed (r/min)	Motor Power (kw)	Size (mm)	Weight (kg)
JHN-15	3-18	2-13	18	23	60	0.55	1045x600x990	100
JHN-55	20-55	20-44	55	22	55	0.75	1200x780x1250	300
JHN-110	60-110	48-88	100	20	49	1.5	1300x820x1400	500
JHN-200	200	160	200	16	32	3.0	1500x960x1800	700
JHN-600	600	480	600	12	24	4.0	1900x1500x2100	1200
JHN-1000	1000	800	1000	10	20	5.5	2400x1900x2800	1800

#### 一机多筒料筒运动方式图

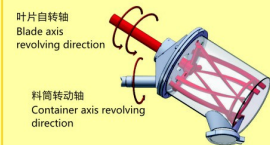
JHN Double movement mixer container revolving



料筒转轴及运动方向  
Container axis revolving direction

#### 安装叶片后两者运动方式图

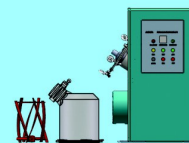
JHN mixer container and blade revolving



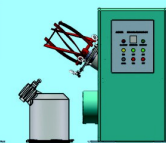
叶片自转轴  
Blade axis revolving direction

料筒转动轴  
Container axis revolving direction

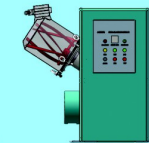
### 一机多筒安装图/JHN Vessel Installing Introduce



预备  
Preparation



安装叶片  
Install Blade



安装料筒  
Install Container



## JHS双锥混合机

### · 适用范围

1. 适用于干粉或半干粉物料的混合，常用于粉末冶金、化工、稀土、制药、食品等行业。
2. 特别适用于大批量，大吨位的物料混合。
3. 特别适用于多批次产品合批用混合，以保证产品的一致性。

### · 技术参数/Technical Parameters

型号	料筒容积	有效容积	料筒厚度	料筒速度	电机功率	外形尺寸	整机重量
Model	Barrel Volume (L)	Biggest Capacity (L)	barrel wall thickness (mm)	Barrel Speed (r/min)	Motor Power (kw)	Size (mm)	Weight (kg)
JHS300	300	150	3	24	2.2	2200*1100*1650	450
JHS500	500	250	4	24	3	2700*1280*1950	600
JHS1000	1000	500	4	10	7.5	2850*1420*2450	1400
JHS2000	2000	1000	5	10	11	3050*1550*2600	3800
JHS3000	3000	1500	6	8	18.5	3000*1800*3000	5500
JHS5000	5000	2500	6	6	30	4100*2100*3300	7800
JHS10000	10000	5000	8	5	55	4900x3200x4500	11000
JHS20000	20000	10000	8	4	75	5300x3400x5000	13000
JHS28000	28000	14000	8	4	110	5961*3390*5833	15000



## JHS双锥粉体混合机

JHS双锥合批混合机是用来将多个小批次的产品混合成为一个大批次产品(即合批),从而保证了产品性能的一致性。

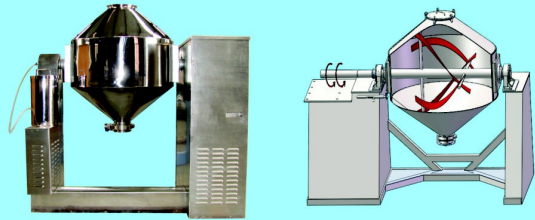
因此它对设备要求是:容量大,运转平稳,使用安全方便,而对混合均匀度的指标要求并不严格。

因此JHS双锥粉体混合机就是应上述要求而生产的,设备采用简单的单运动形式以降低设备成本。

在普通双锥混合机的基础上,为了提高混合效率,金合双动在料筒内部设置了4个巨大悬空的螺旋固定桨叶,当料筒旋转、干粉在桶底滚动时,螺旋桨叶可让干粉左右分流,从而用简单的运转结构提高了混合效率。



## JHS Double Cone Mixer



JHS double cone mixer machine is used to combine multiple small batch materials into one batch materials (batching) in order to guarantee consistent performance of products.

Because this situation needs huge capacity, operate stably, safety and convenience, JHS double cone mixer machine is adapt to the task.

JHS has its unique advantage that we design 4 huge impeding spiral fixed blades so as to improve mixing efficiency. When the barrel turning, dry powder turning over, the spiral blades could make dry powders shunt around. Therefore, this new principle greatly promotes mixing efficiency.

## JHT实验室台式混合机

工作形式: 交叉转轴双运动混合  
Operational Mods: cross shaft double movement mixer

减速电机: 国茂品牌120W  
Gear Motor: Guo Mao brand 120w

电源要求: 220V 三相 50Hz  
Power: 220V 3phase 50Hz

容积: 2L (2L/3L/5L/8L) 均可更换使用  
Barrel Capacity(L): 2 (2/3/5/8 are available)

装载系数: 80%  
Loading Coefficient: 80%

物料筒转速: 2-35转/分钟(可调)  
Barrel Revolution Speed(r/min): 2-35

物料筒材质: 优质不锈钢  
Barrel Material high quality stainless steel

物料筒厚度: 2.0mm  
Barrel Thickness(mm): 2.0

内部鹿角形叶片转速: 料筒转速的1.5倍  
Blade Revolution Speed: 1.5 times as barrel

筒内螺旋叶片及支架材料: 优质不锈钢  
Srew Blades Material: high quality stainless steel

设备重量: 26KG  
Facility Weight(kg): 26KG

## JHT Table-top Lab Powder Blender



## 粉体自动化生产线



### · 全自动混合机及自动化对接工程

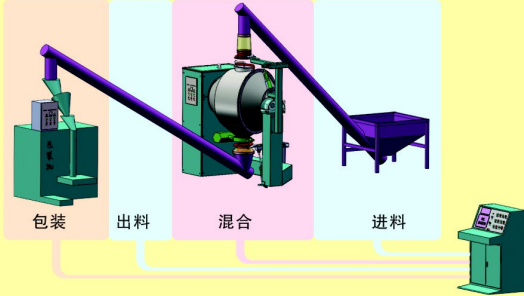
我公司在实现混合机自动化生产(进料、混合、找正、出料)的同时,还实现了让混合机与上、下游设备的自动化对接,最终实现整条生产线的全自动化生产。到目前为止,已成功为国内、外多家企业提供了自动化粉体生产线。通过设备上安装PLC控制模块,整体实现DCS分布式全自动控制系统。

### Automatic mixing machine and automatic docking project

Our company in the realization of mixer machine automation production (feeding, mixing, centring, and discharging), at the same time we achieve the mixer machine and the up stream and down stream equipment automated docking, and ultimately to achieve full automatic production of the whole production line. So far, we have provided automatic powder production line for many enterprises from home and abroad. Add the PLC board on the each equipment in order to achieve Automatic Distributed Control System.



一套自动混合与包装的粉体生产线，实现的全程操作  
For example: A automation production line of powder mixing and packaging.



自动化粉体混合生产线的标准化控制方法

Standard control method of powder mixing automation production line

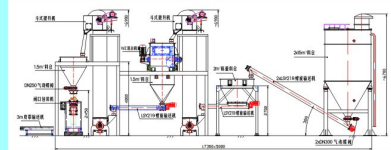
生产线中涉及的设备上料机、混合机、包装机等均有标准化接口及标准化控制程序，使用时可根据需要选取其中的传感信号和控制参数。控制单元的模块化设计大大增强了系统的可靠性和后期维护性能。

Production line involved above feeding machine, mixing machine, packaging machines were standardized to interface and standard control procedures, according to require to select the sensor signal and control parameters. The modular design of the control unit greatly enhances the reliability of system and maintenance performance.

单一混合设备的控制 Single Control of mixing equipment	升级 update	整体工艺设备流程的监控 Supervise the whole process of production
设备的分散式控制 Decentralized control of equipment	升级 update	设备生产线的集中管理 Centralized management of production line
简单的按钮式控制 Simple button control	升级 update	先进的液晶触摸屏控制 Advanced LCD touch screen control

郑州金泰根据您的工况及控制要求，为您量身定做一套高效、稳定的混合工艺自动化控制生产线。  
Zhengzhou Jintai will according to your conditions and control requirements, design a set of efficient and stable automation mixing production line for you.

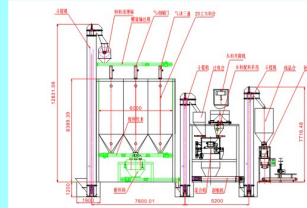
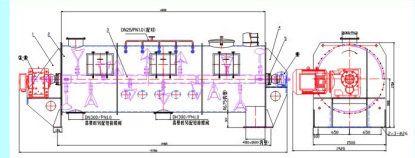
Automatic Powder Processing Line



**DESIGN**  
Front Summary Project  
Engineering design  
Expression of needs  
Definition of the solution  
Detailed preliminary draft  
Suppliers consultation  
Contract drafting  
Equipment orders

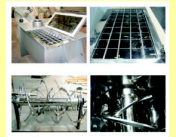
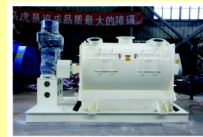
ACHIEVEMENT

Engineering realization  
Details study  
Manufacturing  
Automation  
Resource management



IMPLEMENTATION

FAT inspection  
SAT reception  
Mounting-Wiring  
TQ qualification  
Reception minutes  
Technical folder  
Maintenance Plan



部分国内合作伙伴

超硬行业


金属粉末及制品行业


大学院及科研单位


医药、食品及其他行业


International Partner