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# 天力磁电 · 锂电池行业

TIANLI MAGNET LITHIUM BATTERY INDUSTRY

TianLi

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ZHEJIANG TIANLI MAGNET TECHNOLOGY CO., LTD.

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公司集科研开发、工艺设计、安装服务于一体，是磁选、除铁、起重、涡电流分选、智能传感分选、智能分拣机器人及各种固废分选设备的专业化制造公司，公司与国内多所高校和科研单位密切合作，先后开发出磁选、除铁、起重、涡电流分选、智能传感分选、智能分拣机器人、移动分选、固废分选等几十种产品几百个规格，公司拥有多项发明专利，几十项实用新型专利。

# COMPANY PROFILE



## 公司简介

浙江天力磁电科技有限公司是景森控股的全资子公司，国家高新技术企业，成立于2006年，位于素有“中国磁都”“东方好莱坞”之称的浙江省东阳市，交通便利，距义乌机场仅20公里。

公司产品广泛应用于矿山、建材、煤炭、砖瓦、冶金、化工、造纸、橡胶、玻璃、食品、环保等行业及生活垃圾、陈腐垃圾、废旧电子电器、建筑装饰垃圾、大件垃圾、废钢尾料、垃圾发电厂焚烧炉渣处理等城市矿产行业。

公司拥有自营进出口权，产品遍布全国各地并出口三十多个国家的地区，凭借良好的企业资质、先进的生产技术、过硬的产品质量、合理的价格、完善的售后服务，与广大客户真诚合作、开拓进取、共图发展，向世界一流的企业迈进，公司全体员工热情欢迎国内外新老客户光临指导。

Zhejiang Tianli Magnet Technology co., Ltd, focus on the Magnetic&sorting, eddy current separation, sensor separation technology application, provides material recycling and processing solutions for industry such as recycling, mining, electricity and construction, etc.

Especially in recycling industry, by the innovative product like ESC machine, sensing metal separator, drum magnet, etc. and optimized solutions, we can guarantee metals recovery reach to 95-98% when they are employed in PET plastic scrap steel, waste refrigerator, sawdust, living garbage, paper pulp and other processing line and bring big profits to clients.

Tianli company attaches great importance to brand promotion and participates in conferences and exhibitions of various industries at home and abroad every year, including Shanghai, Guangzhou, Germany, America, Australia, Singapore, South Korea, etc. We always keep close communication with customers, constantly absorb and introduce foreign new ideas and technologies, and constantly develop and improve our products.

Tianli company has developed rapidly and is a direct supplier of magnetic separation, eddy current separator, induction separator and other equipment to many engineering companies, contractors and technical consulting companies at home and abroad. We look forward to further cooperation with you!

[www.dytldcsb.com](http://www.dytldcsb.com)



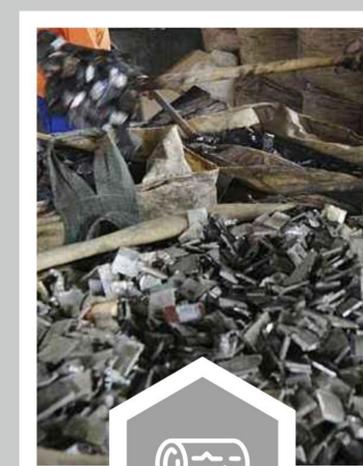
# LITHIUM MATTER

## 国内锂电池回收行业现状

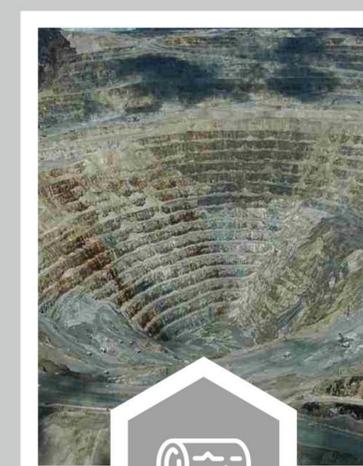
中国的能源结构不支持大力发展燃油汽车，交通工具的电动化是大势所趋！  
磷酸铁锂动力电池自2018年迎来退役告诉增长期，预计2021年退役量最大值；  
三元动力电池到2023年将迎来爆发期，退役量超过20GWh，再生利用量在2023年超过10万吨。



退役锂电池的污染问题  
日益引起重视



手工作坊式拆解低效



我国对上游矿产资源匮乏，  
锂、镍、钴80%，90%依赖度



# TLFXP ECCENTRIC EDDY CURRENT SEPARATOR

## TLFXP 偏心涡电流分选机

主要适用于从工业废料、生活垃圾中分选出铜、铝等有色金属。

- 锂电池回收
- 生活垃圾焚烧产生的炉渣;
- 生活垃圾;
- 废旧玻璃回收;
- 废旧金属回收;
- 造纸厂尾渣;
- 木屑;
- 电子垃圾回收;
- 废旧塑料回收。



It is mainly used for separating copper, aluminum and other non-ferrous metals from industrial wastes and household wastes.

- Slag from household refuse incineration.
- Household garbage.
- Tail residue of paper mill.
- Waste glass recycling.
- Scrap metal recycling.
- Recycling of waste plastics.
- Wood chips.
- E-waste recycling.



### T/产品参数 Equipment Parameters

型号 Type	给料皮带 Feed Belt				耗能 Energy Consumption		承重 Bearing		外形尺寸 Overall Dimensions		
	给料宽度(mm) Feed Width(mm)	给料长度 Feed Length(mm)	给料颗粒 Feed Size	处理能力(m³/h) Capacity(m³/h)	总功率(kw) Power(kw)	重量(kg) Weight(kg)	长度(mm) Length(mm)	宽度(mm) Width(mm)	高度(mm) Height(mm)		
TLFX(P)-5	300	1500	≥1mm²	6	5.9	730	4600	1123	1200		
TLFX(P)-6	400			10	5.9	895		1223			
TLFX(P)-6.5	400			15	5.9	950		1423			
TLFX(P)-8	600			20	5.9	1225		1623			
TLFX(P)-10	800			25	6.3	1555		1823			
TLFX(P)-12	1000			30	7.0	1875	2023				
TLFX(P)-14	1200			35	8.8	2275	2223				
TLFX(P)-16	1400			40	10	2850	2423				
TLFX(P)-17	1500			45	10	3150	2523				
TLFX(P)-20	1800			50	10.7	3650	5000	2823			
TLFX(P)-22	2000			55	13	4500	5000	3023			

### T/产品优势 Product Advantage

#### 全进口轴承

采用全进口的轴承，有效保障设备运行的稳定的；  
Imported bearings with long service life.

#### 更全面的安全保障

安装了各种检查和报警系统，实时监控每个关键部件的操作；  
Check and alarm system to monitoring machine operation.

#### 磁系终身不脱落

磁系采用独特的保护，有效保障磁系终身不脱落；  
Special design prevent the magnetic system fall off.

#### 采用喷塑处理工艺

整机采用喷塑处理，有效保证在特殊工况下的设备耐用性；  
The machine adopts spray treatment to ensure the equipment durability under special working conditions.

#### 源自世界磁都

磁材来自世界磁都，具有原产地的优势；  
Magnetic materials come from the magnetic capital of the world and have the advantage of origin.

#### 特殊的磁系结构设计

采用特殊的磁系结构设计，提供更加高效的磁源，最大提升金属的感应抛力。  
Special magnetic system structure is designed to provide a more efficient magnetic source to maximize the inductive throwing force of the metal.

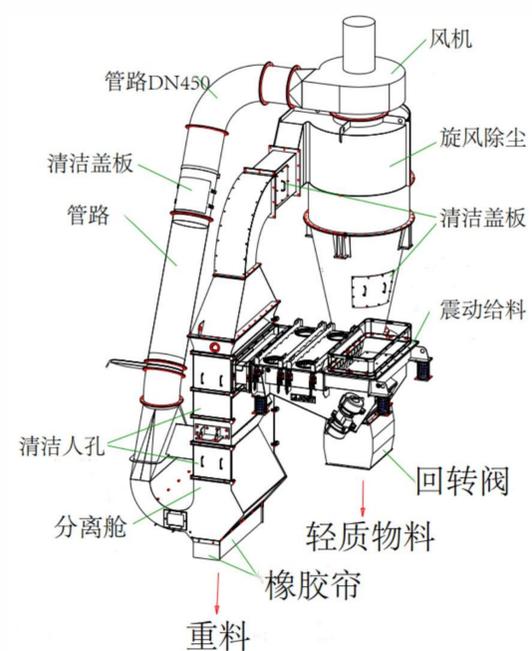


## TLZ AIR SEPARATION

### TLZ 空气分选设备

物料通过振动给料机，均匀进入到Z型斗中，物料由于自由落体向下运动，在经过Z型斗的过程中，将物料充分打散，再经过离心风机将轻飘物和泥土向上吸进旋风除尘器中，通过旋风除尘器将轻物质和泥土排出，重的物质由于重力的作用，在Z型斗中直接掉下，进入到后续的分选工序。

Material by vibrating feeder, evenly into the bucket, Z material due to free fall downward movement, after the process of Z type hopper, will break the material thoroughly, repass centrifugal fan and the light and mud sucked up into the cyclone dust collector, through the cyclone speak light material and soil, heavy material due to the effect of gravity, in direct drop in the bucket, Z into the subsequent separation process.



## TLAT AIR TABLE

### SEPARATION

### TLAT 空气摇床

该设备使进入机内的物料通过风的吸浮力作用，对不同比重和不同粒状的物料吸浮力的不同，和物料的重力及其他有效力，把不同比重物料和同种物料粒度、形状的不同，进行比重风选分离；风吸走的比重小的、粒度小的或受风面积大的薄片状物料经过集料器和收尘器收尘后排出机外，比重大的物料和同种物料受风力小的物料从机的另一端排出。

主要应用于各类金属与非金属分离、粉状物料、粒状物料、混合性物料，根据他们的比重不同、粒径或形状不同进行分离和分选；在选矿、化工、废旧物再利用等诸多行业中使用。



The equipment makes the material into the machine through the wind buoyancy effect, different specific gravity and different granular material buoyancy, and the material gravity and other effective, the different specific gravity material and the same material size, shape, specific gravity separation; The thin flake materials with small specific gravity, small particle size or large wind area absorbed by the wind are collected by the collector and dust collector and then discharged from the machine, and the material with less wind force than the material of great importance and the same material is discharged from the other end of the machine. Mainly used in all kinds of metal and non-metal separation, powder material, granular material, mixed material, according to their specific gravity, particle size or shape of different separation and separation; It is used in many industries such as mineral processing, chemical industry and waste reuse.

#### T/产品参数 Equipment Parameters

设备型号 Type	产能 Capacity (kg/h)	风机功率 Blower Power (kw)	长×宽×高 L×W×H (mm)	工台表面 Table Surface(mm)	重量 Weight(kg)
TLAT-0612	300	2.2*2	1963*1590*2193	490*1170	400
TLAT-0812	450		1963*1790*2193	690*1170	450
TLAT-0912	500		1963*1890*2193	790*1170	500

## TLYM FINE IMPACT MILL

### TLYM 研磨机

减小粒径； 颗粒由片状变为颗粒状/球状； 清洁金属表面。

Particle size reduction.

Change of particles from flakes to granules/spheres.

Cleaning of metal surfaces.



## AUTOMATIC POWDER ELECTROMAGNET SEPARATOR

### 全自动粉料电磁选机

#### T/产品优势 Product Advantage

- 能耗低、磁场梯度高、磁场分布均匀、除铁效果佳；
- 全自动脱铁、清洗简单；
- 脱铁清洗系统各阶段时间可自由调节，使用场合广泛；
- 磁介网采用高导磁不锈钢制作，工作磁场极限22000GS。
- Lower energy consumption, high magnetic gradient, magnetic field is well designed to ensure the iron removal effect.
- The remove of magnetism particles will be done automatic, easy to clean.
- The magnetism substances remove and clean process time can be adjusted flexibly, is widely to use for many different section
- Magnetic medium net is made of stainless steel with high magnetic conductivity, Highest working magnetic field is 22000GS.



## TLYB SQUARE SHAKING SIEVE

### TLYB 方型摇摆筛



## TLJX INTERMITTENT DRYER

### TLJX 间歇式干燥器

进入设备的物料直接接触加热的干燥元件(筒壁，前后端板、轴和旋转臂+搅拌铲)，并由旋转的搅拌器不断移动。

热油或蒸汽是最常用的加热流体，或电加热器（高温应用）；沿着受热表面的不断循环导致均匀的水分排出，并产生均匀的温度和产品湿度。

旋转臂搅拌铲的形状和角度确保了产品和侧壁之间的最佳热交换；单独驱动的旋转切刀避免了物料结块，进而保证了细粒到粉末的材料一致性。

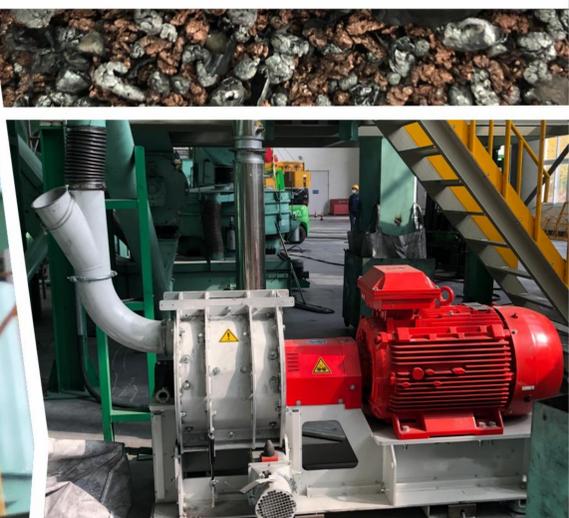
The material entering the equipment is in direct contact with the heated drying elements (cylinder wall, front and rear end plates, shaft and rotating arm + stirring shovel) and is constantly moved by the rotating stirrer.

Hot oil or steam is the most commonly used heating fluid, or electric heaters (high temperature applications); the continuous circulation along the heated surface results in uniform moisture discharge and The constant circulation along the heated surface results in uniform moisture discharge and produces uniform temperature and product moisture.

The shape and angle of the rotating arm mixing spatula ensures optimal heat exchange between the product and the sidewall; the individually driven rotating cutter avoids the need for a high temperature and humidity of the product. The individually driven rotary cutter avoids material agglomeration and thus ensures material consistency from fines to powder. Translated with www.DeepL.com/Translator (free version)



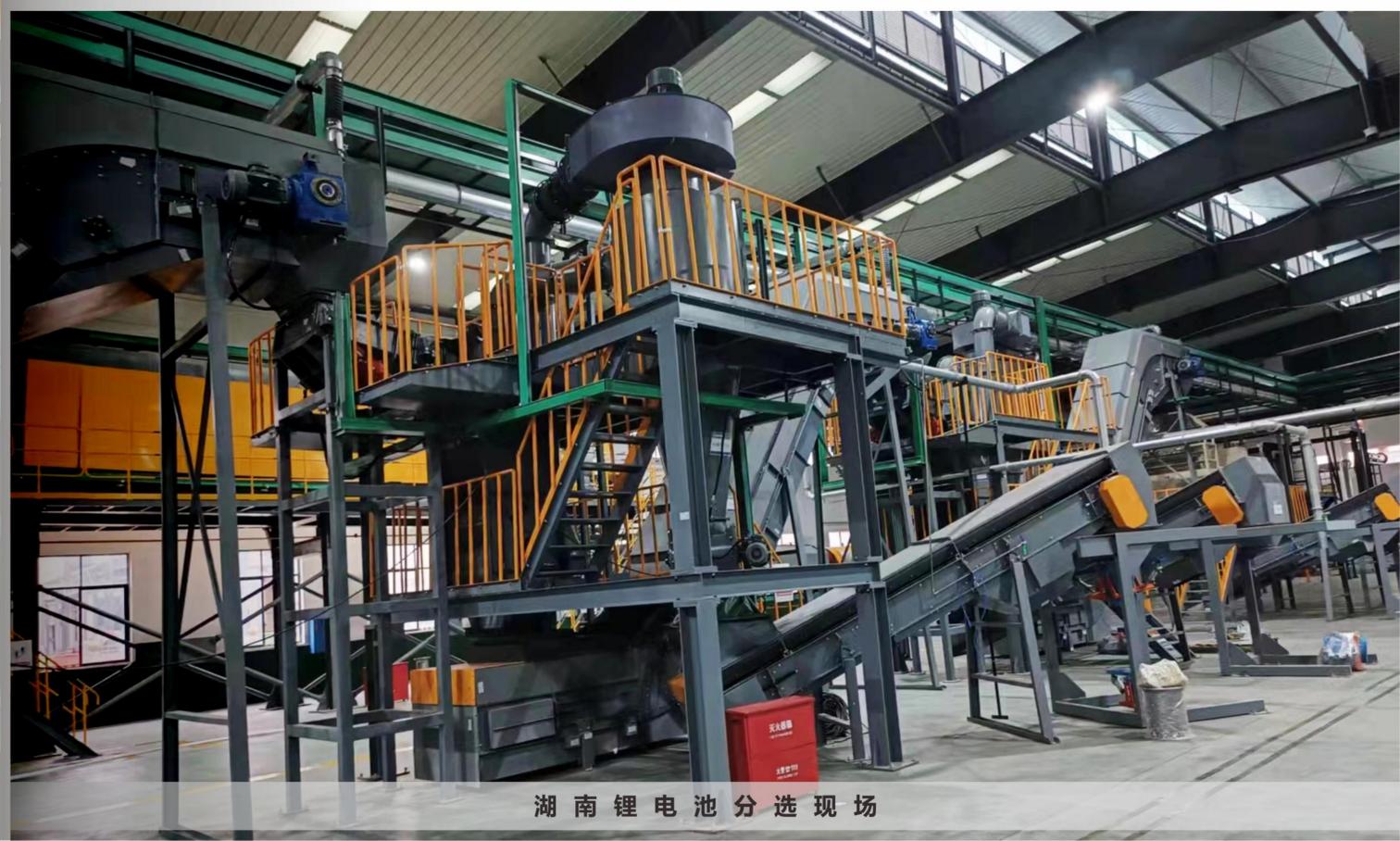




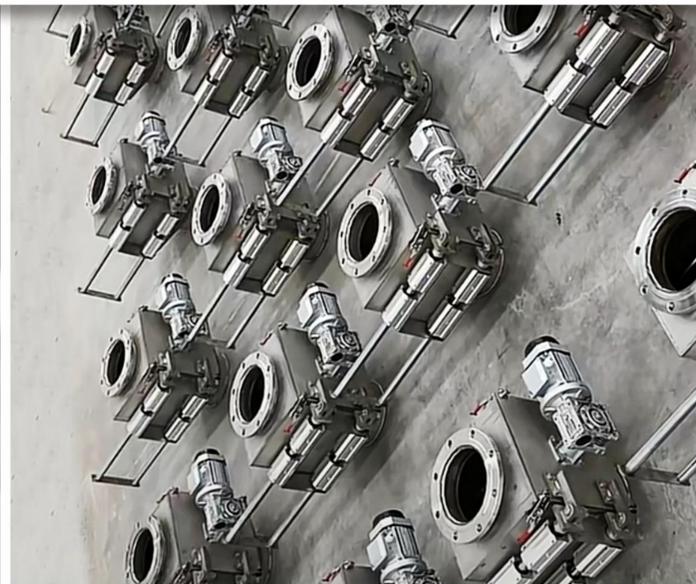
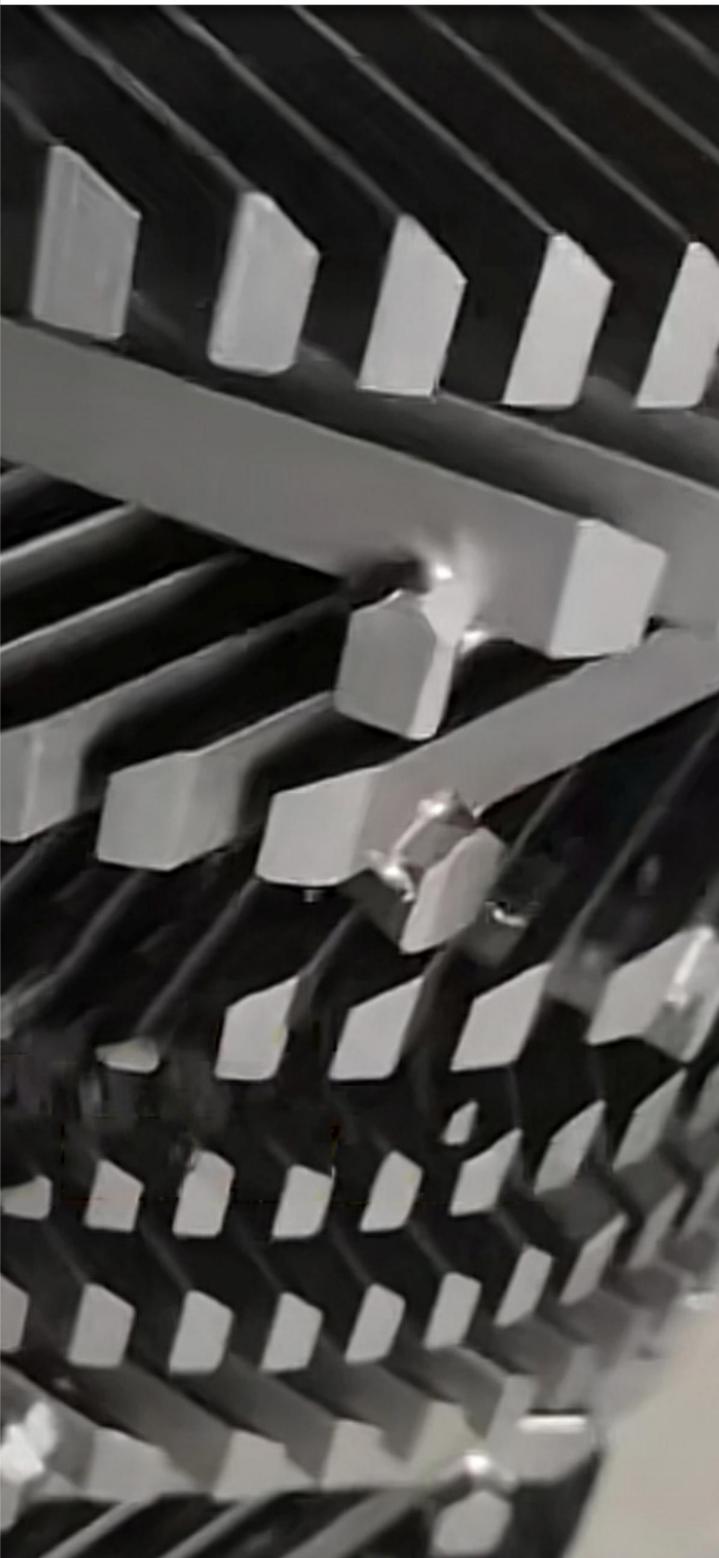
安徽锂电池分选现场



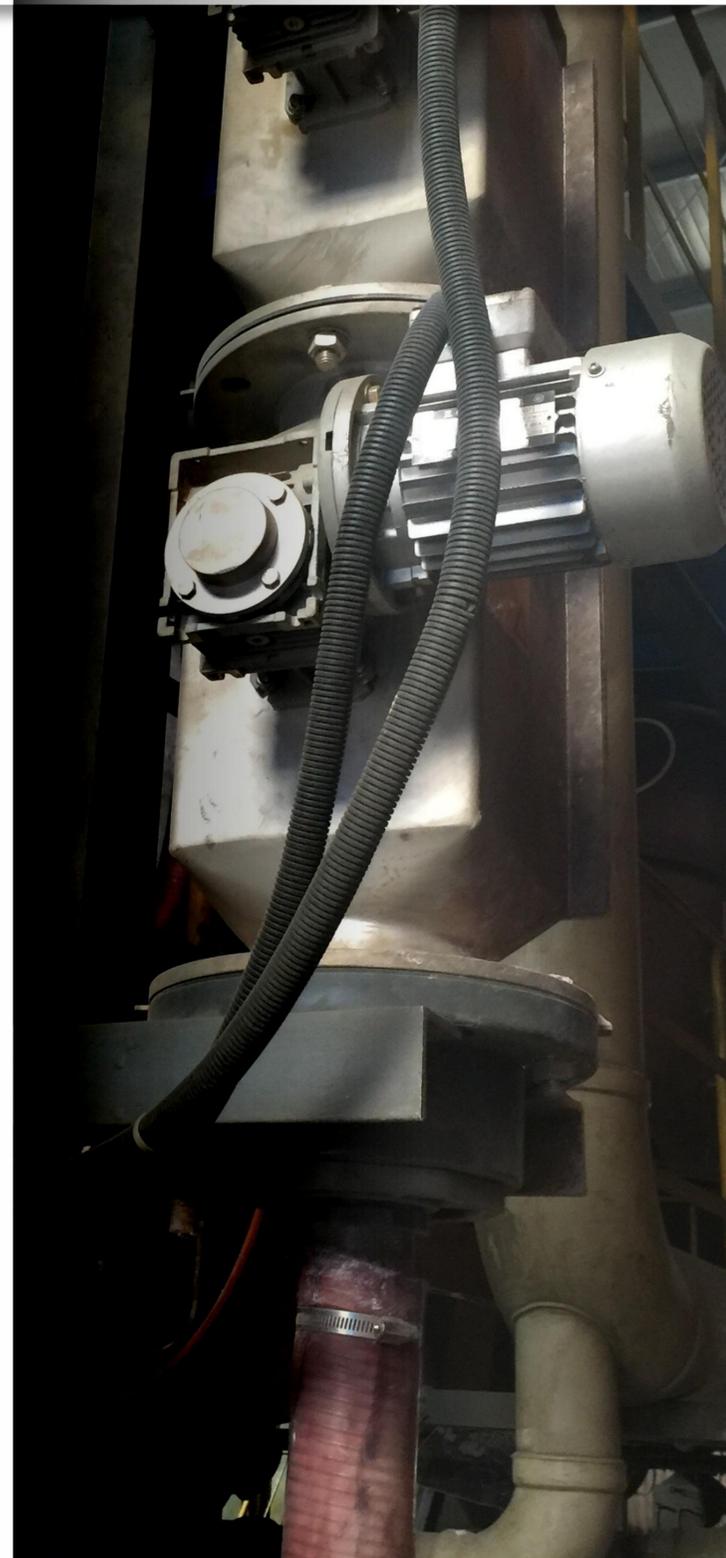
湖南锂电池分选现场



湖南锂电池分选现场



强磁棒除铁系列



管道式除铁器应用现场



粉料电磁选机  
全自动



及时提供合同相关设备的安装调试，全面配合验收。

Timely provide the installation and debugging of contract related equipment, and fully cooperate with the acceptance.



实施“一对一营销”，全面建立客户档案，服务结果请客户签字确认后存档。

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感谢您对天力磁电的信任与厚爱

THANK YOU FOR YOUR TRUST AND LOVE  
TO TIANLI MAGNET