

AI智选·再生资源分选全场景解决方案

AI Sort · Renewable Resource Sorting Full Scene Solution



合肥泰禾智能科技集团股份有限公司

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*因公司产品技术不断革新,本画册所列示的产品若涉及外观或性能等升级的,以实际升级后的产品性能为准。
Due to continuous innovation of our product technologies and in case of any upgrading of appearance or performance if the products listed in the catalogue, the actual upgraded product performances shall prevail.

2023年2月



泰禾AI智选·数字分选技术开创者

Taiho AI Sort · Digital Sort Technology Pathfinder

2004: Taiho was founded;
合肥泰禾智能科技集团
股份有限公司成立;
2004年

2008: The first company to apply
high-speed and high-resolution CCD
technology to the field of sorting;
首家将高速高分辨率CCD
技术应用于分选领域;
2008年

2017: TAIHO was listed in
Shanghai Stock Exchange, Stock
Code: 603656;
上海证券交易所成功上市,
股票代码:603656;
2017年

2018: First application of AI
Intelligent Technology in the color
sorting industry;
首创将人工智能应用于
智能分选领域;
2018年

2022: AI Sort Digital sorting Technology
was officially released.
AI智选数字分选技术
正式发布;
2022年

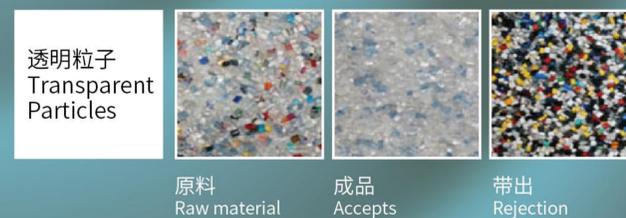
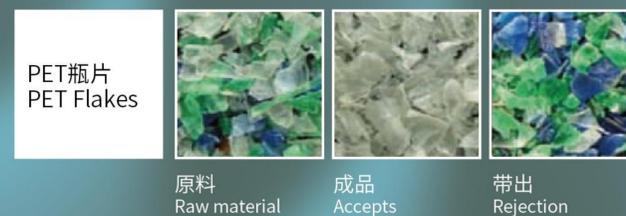
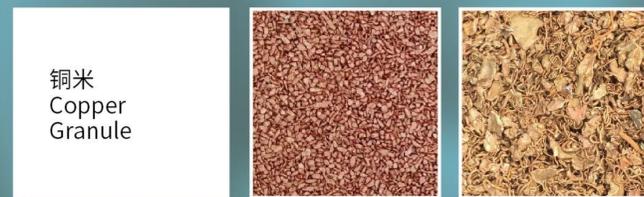


AI SORT RENEWABLE RESOURCE SORTING FULL SCENE SOLUTION

AI智选 再生资源分选全场景解决方案

一键智享100+废旧塑料、金属和玻璃等物料分选, 为全球保持良好的生态环境。

One click Smart Share 100+sorting of waste plastics, metals, glass and other materials to maintain a good ecological environment for the world.



每一次的技术突破, 都将改变一个行业的竞争新格局

Every technological breakthrough will change the new competition pattern of an industry

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AI Vision Expert
世界智造·AI视觉专家

AI SORT BEYOND WHAT IS SEEN

AI智选 超越所见

独创InGaAs红外分选技术，精准识别和分离**PET、PVC、PP、PE、PS**等颜色相近、材质不同的物料。

Unique InGaAs infrared sorting technology can accurately identify and separate PET, PVC, PP, PE, PS and other materials with similar colors and different materials.

红外材质分选技术

Infrared Material Sorting Technology

全方位形态学特征识别，在线识别和分离**大小、长短、粗细**等多形态物料，可与色选功能同时使用。

All-round morphological feature recognition, online identification and separation of multi-morphological materials such as size, length, thickness, etc., can be used simultaneously with the color sorting function.

360°形状分选技术

360° Shape Sorting Technology

多维颜色分选技术

Multidimensional Color Sorting Technology

支持**灰度、色差、SVM**等算法，分别在多维颜色坐标系中运算，实现基于物料颜色的识别和剔除。

Support grayscale, color difference, SVM and other algorithms, respectively operate in the multi-dimensional color coordinate system to realize the recognition and rejection based on material color.

融合**光、质、色、形**等多维数据，算法拟合缺陷物料数字模型，标记物料中心点，实现小气量、更精准的中心剔除。

Integrating light, quality, color, shape and other multi-dimensional data, the algorithm fits the digital model of the defective material, marks the center point of the material, and realizes a small air volume and more accurate center removal.

中心定位剔除技术

Center Positioning Removal Technology

AI SORT EXTREME SORTING

AI智选 极致分选

TAI+视觉识别系统

TAI+Visual Recognition System

适配智能全息闪视相机，灵活切换可见或红外光学镜头；融合分时光源技术，35K四维高速成像，实现3.5亿像素超清分辨；

Adapt to the intelligent holographic flash camera, and flexibly switch the visible or infrared optical lens; Fusion of time-sharing light source technology, 35K four-dimensional high-speed imaging, achieving 350 million pixels of ultra clear resolution;

TAI+光学感知系统

TAI+optical perception system

采用低温聚光LED光源，智能调光，1600万种混色，节能更耐用；匹配AI颜色还原技术，自主纠偏校色，高还原、超保真；

Low temperature focused LED light source, intelligent dimming, 16 million kinds of color mixing, energy saving and durable; Matching AI color restoration technology, self correction and color correction, high restoration and super fidelity;

TAI+智芯处理系统

TAI+Smart Core Processing System

应用SOC智芯系统架构，搭载智能分选平台，构架出集成度更高、运算更快、分选能力更强的处理系统；

The SOC smart core system architecture and intelligent sorting platform are used to build a processing system with higher integration, faster calculation and stronger sorting capacity;

TAI+智能算法系统

TAI+intelligent algorithm system

融合色选+形选+质选算法，智能采集、学习、识别物料颜色、形状、纹理、面积、材质等各维度全貌特征；

The algorithm of color selection+shape selection+quality selection is integrated to intelligently collect, learn and identify the overall features of various dimensions such as material color, shape, texture, area and material;

TAI+万物互联系统

TAI+Internet of Everything System

利用TAI+智造互联平台，4G/5G+华为云联设备，实现智慧物联、自动交互；应用微信小程序，远程运维、在线服务；

Using the TAI+intelligent networking platform, 4G/5G+Huawei cloud connected equipment, to achieve intelligent Internet of Things and automatic interaction; Application of WeChat applet, remote operation and maintenance, online services;

TAI+变频喷吹系统

TAI+variable frequency injection system

搭载智能变频电磁阀，130亿次长效喷吹，不漏气、低功耗；应用自适应喷吹技术，0.05毫秒快速响应，无尾气、低带出；

Equipped with intelligent variable frequency solenoid valve, 13 billion times of long-term injection, air tight and low power consumption; Adaptive injection technology is applied, with quick response of 0.05 ms, no tail gas and low entrainment;

TAI+除尘净化系统

TAI+dedusting and purification system

全覆盖渐变式空气净化，水、油、尘全过滤，不遗漏、零污染；自协同清灰技术，实时感应式清灰，零延时、更干净；

Full coverage gradual air purification, complete filtration of water, oil and dust, no omission and zero pollution; Self coordinated dust removal technology, real-time inductive dust removal, zero delay and cleaner;

TAI+柔性防护系统

TAI+flexible protection system

一体化防撞无损设计，软着陆柔性出料，有效减少机器磨损；耐高、低温环境，可配防尘、防水，全流程安全呵护；

Integrated anti-collision and nondestructive design, soft landing and flexible discharge, effectively reducing machine wear; It is resistant to high and low temperatures, and can be equipped with dust-proof, waterproof, and safe care throughout the process;

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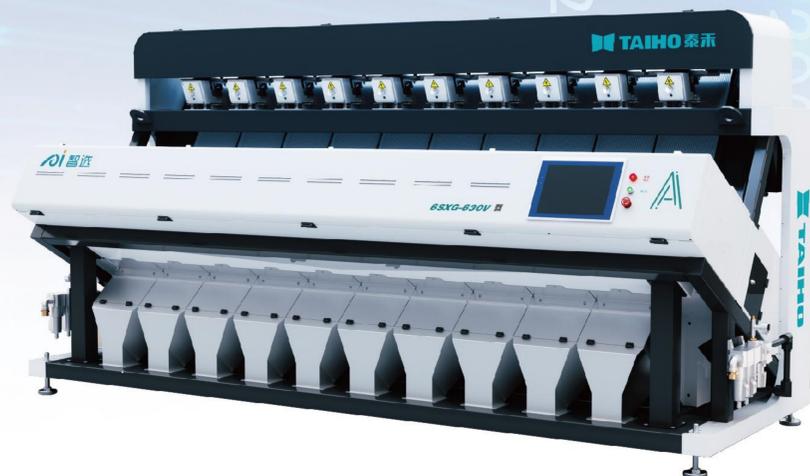


废旧塑料专用系列

AI SORT SPECIAL SERIES FOR WASTE PLASTICS

材色双选“镜”在掌握, 呈现本质格外出色

The "mirror" of both materials and colors is under control, showing the essence of being extremely excellent



产品系列 Product series	型号 Model	处理量 Throughput (t/h)	色选精度 Sorting accuracy ratio (%)	整机功率 Power (kw)	电源电压 Electricity voltage (v)	气源压力 Air pressure (mpa)	气源消耗 Air consumption (m ³ /min)	规格尺寸 Size (mm)	机器重量 Weight (kg)
AI智选A系列 AI SORT A SERIES	6SXG-504V	3.6-6.0	≥99	3.8	220V/50Hz	0.5-0.8	4.0-5.5	3443*1460*2145	2080
	6SXG-630V	4.5-7.5	≥99	4.7	220V/50Hz	0.5-0.8	5.0-6.5	4071*1460*2145	2380
智睿系列 ZERVI SERIES	6SXG-252S	1.2-2.0	≥98	2.4	220V/50Hz	0.5-0.8	1.5-2.5	2022*1520*2090	1030
	6SXG-315S	1.5-2.5	≥98	3.0	220V/50Hz	0.5-0.8	2.0-3.0	2335*1520*2090	1160
	6SXG-378S	1.8-3.0	≥98	3.6	220V/50Hz	0.5-0.8	2.5-3.5	2830*1520*2090	1355
	6SXG-441S	2.1-3.5	≥98	4.1	220V/50Hz	0.5-0.8	3.0-4.0	3134*1520*2090	1575
	6SXG-504S	2.4-4.0	≥98	4.7	220V/50Hz	0.5-0.8	3.5-4.5	3448*1520*2090	1740
	6SXG-630S	3.0-5.0	≥98	5.8	220V/50Hz	0.5-0.8	4.5-6.5	4076*1520*2090	2130
	6SXG-756S	3.6-6.0	≥98	7.2	220V/50Hz	0.5-0.8	4.8-7.5	2844*2785*1950	2466
材质机 MATERIAL SORTING MACHINE	6SXG-1008S	4.8-8.0	≥98	9.4	220V/50Hz	0.5-0.8	6.5-10.0	3474*2785*1950	2983
	6SXG-315CZ	1.5-2.5	≥98	3.6	220V/50Hz	0.5-0.8	1.3-2.1	2694*1562*2100	1350

备注 / Note



- 1、以上色选性能AI智选A系列以含杂2%，水分5%以内的原料为例，智睿系列以含杂5%以内的废旧塑料破碎料为例，材质机以含杂1%-15%的PET为例；
- 2、产品若有更新以实际机器为准。

1. The above color sorting performance AI sort A series takes raw materials containing impurities of 2% and moisture of less than 5% as an example, Zervi series takes waste plastic crushing materials containing impurities of less than 5% as an example, and the material sorting takes PET containing impurities of 1% - 15% as an example;
2. If the product is updated, please refer to the actual machine.

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废旧金属专用系列

AI SORT SPECIAL SERIES FOR SCRAP METAL

品质由我“摄”定, AI赋能多维智选

Quality is determined by me, AI enables multi-dimensional intelligent selection

AI



产品系列 Product series	型号 Model	处理量 Throughput (t/h)	色选精度 Sorting accuracy ratio (%)	整机功率 Power (kw)	电源电压 Electricity voltage (v)	气源压力 Air pressure (mpa)	气源消耗 Air consumption (m ³ /min)	规格尺寸 Size (mm)	机器重量 Weight (kg)
慢速 Slow-speed	6SXL-300MD2Q	0.25-0.5	≥98	2.2	220V/50Hz	0.4-0.8	0.2-0.55	2745*1552*1755	820
	6SXL-600MD2Q	0.5-1.0	≥98	3.1	220V/50Hz	0.4-0.8	0.5-1.0	3485*1890*1755	1200
	6SXL-1200MD2Q	0.5-3.0	≥98	3.4	220V/50Hz	0.4-0.8	0.8-1.5	3730*2495*1905	1600
	6SXL-1200MS2Q	0.5-3.0	≥98	6.6	220V/50Hz	0.4-0.9	2.5-4.4	3920*2495*2810	2780
快速 High-speed	6SXL-300KD2Y	0.25-0.5	≥98	2.4	220V/50Hz	0.4-0.8	0.2-0.5	3450*1350*1850	700
	6SXL-600KD2Y	0.5-1.0	≥98	3.1	220V/50Hz	0.4-0.8	0.5-1.0	3450*1650*1850	840
	6SXL-1200KD2Y	0.5-3.0	≥98	3.8	220V/50Hz	0.4-0.8	0.8-1.5	3450*2280*1850	1200
	6SXL-1200KS2Y	0.5-3.0	≥98	5.8	220V/50Hz	0.4-0.8	2.5-4.4	4590*2420*2240	2500

备注 / Note



- 1、以上色选性能均以含铝8%以内的散热器破碎料为例;
 - 2、产品若有更新以实际机器为准。
1. The above color sorting properties are all based on the radiator broken materials containing less than 8% aluminum as an example;
2. If the product is updated, please refer to the actual machine.

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废旧玻璃专用系列

AI SORT SPECIAL SERIES FOR WASTE GLASS

AI全“芯”升级, 天生强大与众不同

AI full "core" upgrade, naturally powerful and distinctive

应用行业最高3.5亿像素超清影像+类太阳光谱技术, 实现360度多维成像。形选+色选+质选技术, 量子级识别, 轻松实现经济、高效、高产。适用潮湿玻璃和干燥玻璃的分选, 实现各类异色玻璃和杂质的有效剔除。

Apply the industry's highest 350 million pixel ultra clear image+solar like spectrum technology to achieve 360 degree multi-dimensional imaging. Shape selection+color selection+quality selection technology, quantum level identification, easy to achieve economic, efficient and high-yield. It is applicable to the separation of wet glass and dry glass to effectively remove all kinds of different colored glass and impurities.



异色玻璃
Other Color



透明玻璃
Transparent



非玻璃杂质
CSP



破碎玻璃片
Transparent



备注 / Note



- 1、以上色选性能均以含杂低于2%的废旧玻璃为例;
- 2、产品若有更新以实际机器为准。

1. The above color sorting performance is based on waste glass with impurities less than 2% as an example;
2. If the product is updated, please refer to the actual machine.

产品系列 Product series	型号 Model	处理量 Throughput (t/h)	色选精度 Sorting accuracy ratio (%)	整机功率 power (kw)	电源电压 Electricity voltage (v)	气源压力 Air pressure (mpa)	气源消耗 Air consumption (m ³ /min)	规格尺寸 Size (mm)	机器重量 Weight (kg)
废旧玻璃专用系列 Special series for waste glass	6SXL-1200ZD1Q	12.0-20.0	≥98	2.2	220V/50Hz	0.4-0.8	2.5-4.4	3270*2316*1927	1680

Product Value 产品价值

User Application Cases 客户应用案例

We are seen everywhere in China
We are seen everywhere in the world



降本增效

提高原料品质,降低再生成本
Cost reduction and efficiency increase
Improve raw material quality and reduce regeneration cost



绿色环保

废旧资源再利用,减少环境污染
Green and environmental protection
Reuse of waste resources to reduce environmental pollution



分选精度高

分选精度 ≥ 98%, 回收效率高
High sorting accuracy
Separation accuracy ≥ 98%, high recovery efficiency



投资回报高

运维成本低,当年收回设备投资
High return on investment
The operation and maintenance cost is low, and the equipment investment is recovered in the current year



AI智选·数字分选技术开创者

在中国,我们无处不在
在世界,我们无处不在

我们的产品销售遍布国内**30**多个省市自治区,
出口**80**多个国家和地区。

Our products are sold in more than 30 provinces, cities and autonomous regions in China, and exported to over 80 countries and regions.

After-sale Services 售后服务

公司坚持“以客户为中心”为指导方针，倡导所有员工随时关注客户的需求，竭力为国内外客户提供解决方案的服务理念。

公司现有90余名售后服务人员，服务下沉至地市级，直接贴近客户，为客户提供及时、快速、周到的服务，实现24小时内上门服务。

对客户实行整机一年免费维护和保养，并及时提供专业培训和技术指导解决客户后顾之忧，充分体现快速响应，及时维护，跟踪协调的服务模式。

 **0551-68588368**

The company adheres to the “customer-centered” guideline, advocates all staff to focus on customer demand and strives to provide solutions for domestic and overseas customers.

There are more than 90 after-sales service workers in the company, and the services go to prefecture-level cities and directly approach customers. The service workers provide timely, fast and thoughtful services and achieve 24h door-to-door services.

The whole machine will be maintained free of charge for one year, and professional training and technical guidance will be provided for customers to solve their worries. These fully mirror the service mode of quick response, timely maintenance, tracking and coordination.

