



合肥泰禾智能科技集团股份有限公司

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Url: www.chinacolorsort.com

*因公司产品技术不断革新,本画册所列的产品若涉及外观或性能等级升级的,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.

2022年6月



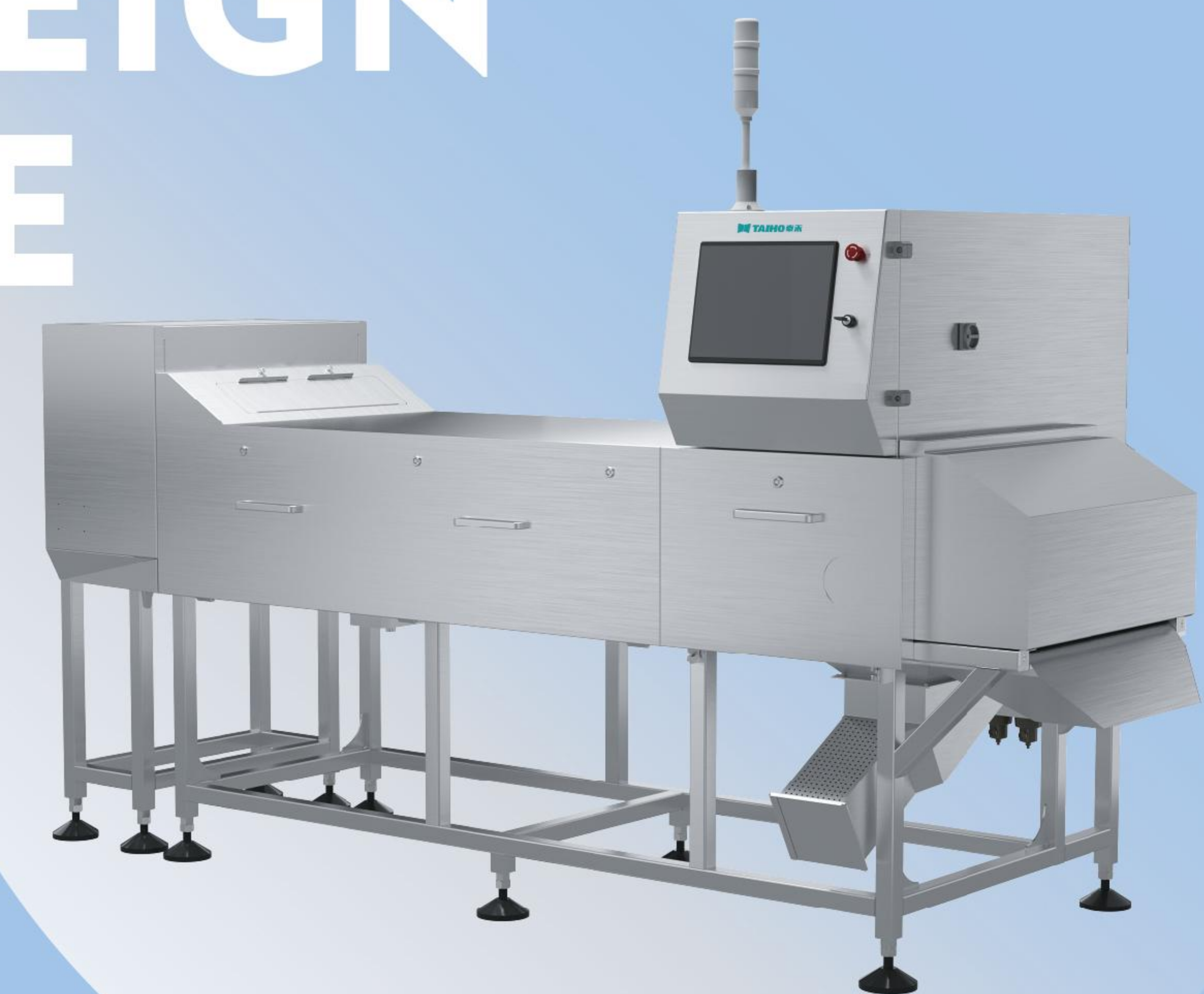
主板A股代码 (Stock code) : 603656

X-RAY FOREIGN SUBSTANCE DETECTOR

X光异物检测机

AI智选 · 数字分选技术开创者

AI Sort · Global Intelligent Manufacturer



X-RAY MACHINE

Sensitive, precise and efficient!

X光机

灵敏、超精准，高效率！

探索，未知世界

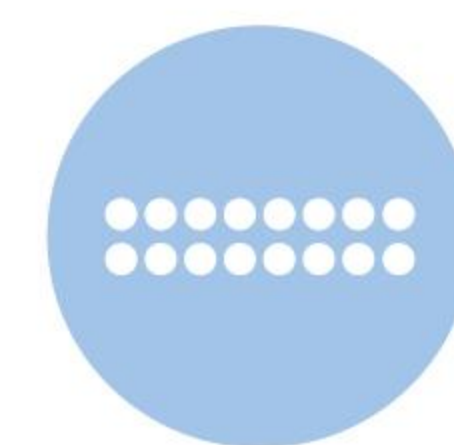
为分选未来启程领航！

Explore the unknown world
Start and lead the journey for the sorting future!



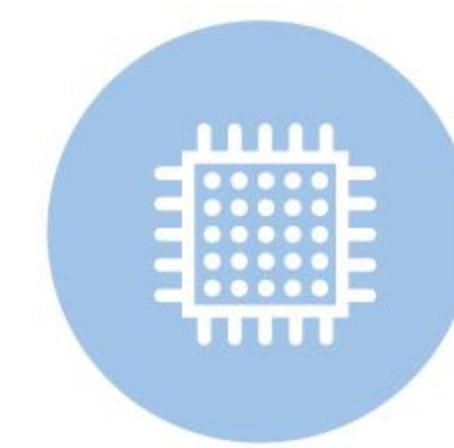
TECHNICAL FEATURES OF PRODUCTS /

产品技术特点



TAI+X光成像系统 / TAI+X-ray imaging system

搭载美国进口小焦点X射线源，功率大、发光稳定；匹配芬兰进口超感GOS探测器，360°多维成像，0.4mm超清分辨；
Equipped with a small focus X-ray source imported from the United States, with high power and stable luminescence; matching the super-sensing GOS detector imported from Finland, 360° multi-dimensional imaging, 0.4mm ultra-clear resolution;



TAI+智芯处理系统 / TAI+Intelligent Core Processing System

应用AI边缘处理架构，搭载NPU嵌入式神经网络处理器，匹配DLA深度学习加速引擎，21TOPS超强算力，速度快更智能；
Applying AI edge processing architecture, equipped with NPU embedded neural network processor, matching DLA deep learning acceleration engine, 21TOPS super computing power, faster and smarter;



TAI+智能算法系统 / TAI+ intelligent algorithm system

融合神经网络算法+深度学习算法，自主采集、学习、识别物料各维度全貌特征，实现海量信息处理，精度高适应性强；
Integrate neural network algorithm + deep learning algorithm to collect, learn and identify the overall characteristics of materials in all dimensions independently, realize massive information processing, high precision and strong adaptability;



TAI+万物互联系统 / TAI+ Internet of Everything System

利用TAI+智造互联平台，应用4G/5G+华为云，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；
Utilize TAI+Intelligent Manufacturing Interconnection Platform, apply 4G/5G+HUAWEI CLOUD, realize intelligent IoT and automatic interaction; apply WeChat applet, remote operation and maintenance, and online services;



TAI+变频喷吹系统 / TAI+ frequency conversion 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 frequency conversion solenoid valve, 13 billion long-term injection, no air leakage, low power consumption; application of adaptive injection technology, 0.05 millisecond fast response, no exhaust, low carry-out;



TAI+黑盾防护系统 / TAI+ Black Shield Protection System

一体化封闭设计，耐高、低温环境，防尘、防水、防辐射（辐射泄漏 $<1\mu\text{Sv/h}$ ）；食品级接触材料，全流程安全呵护，健康品质有保障。
Integrated closed design, resistant to high and low temperature environments, dust-proof, waterproof, and radiation-proof (radiation leakage $<1\mu\text{Sv/h}$); food-grade contact materials, safe care throughout the process, and guaranteed health and quality.

散料专用一体式X射线异物检测机

BULK MATERIAL INTEGRATED X-RAY FOREIGN SUBSTANCE DETECTOR



THX-SS350SL

产品描述 / Product description

实现散装流动产品的独特处理和检测要求,助力食品原料及食品生产供应商遵循严格的 HACCP 协议和食品安全法规。

Achieve unique processing and testing requirements for bulk and mobile products, assist food ingredients and food production suppliers in complying with strict HACCP and food safety regulations.

适用物料 / Applicable materials

食品原料(如花生、瓜子等)、脱水蔬菜、葡萄干、坚果、糖果等散料中物理异物的无死角检测识别和全面准确剔除。比如能够有效检出散料(如花生)中各种金属及非金属异物(如石头、玻璃、密致塑料、陶瓷、硬骨及橡胶等)以及镶嵌在花生上的石子等。

Physical and foreign substances in food raw materials (such as peanuts and melon seeds), dehydrated vegetables, raisins, nuts, candies and other bulk materials can be fully detected, identified and eliminated comprehensively and accurately. For example, it can effectively detect various metal and non-metallic foreign substances (such as stone, glass, dense plastic, ceramic, hard bone and rubber etc.) in bulk materials (such as peanuts) and stones embedded in peanuts.

小包装产品专用X射线异物检测机

X-RAY FOREIGN SUBSTANCE DETECTOR FOR SMALL PACKAGE PRODUCTS



THX-SS150XBZ

产品描述 / Product description

实现小包装产品中各种金属及非金属异物(如石头、玻璃、密致塑料、陶瓷、硬骨及橡胶等)检测,以及产品缺件检测等功能,助力产品生产供应商遵循食品、药品安全法规。

It can detect various metal and non-metallic foreign substances (such as stone, glass, dense plastic, ceramic, hard bones and rubber etc.) in the small packaged products as well as missing parts of products and assist product manufacturers in complying with food and drug safety regulations.

适用物料 / Applicable materials

可以应用于最大1Kg烘焙食品、休闲食品、袋装乳制品、冷冻食品、袋装调味料、火锅料、咖啡以及药品等小包装产品。

It can be applied to small package products such as baking food, snack food, packaged dairy food, frozen food, packaged seasoning, hot pot material, coffee and medicine etc.

中型包装产品专用X射线异物检测机

X-RAY FOREIGN SUBSTANCE DETECTOR FOR MEDIUM-SIZED PACKAGE PRODUCTS



THX-SS210ZBZ

产品描述 / Product description

实现中包装产品中各种金属及非金属异物(如石头、玻璃、密致塑料、陶瓷、硬骨及橡胶等)异物检测, 以及产品缺件检测等功能, 助力产品生产供应商遵循食品、药品安全法规。

It can detect various metal and non-metallic foreign substances (such as stone, glass, dense plastic, ceramic, hard bones and rubber) in the medium-sized packaged products as well as missing parts of products and assist product manufacturers in complying with food and drug safety regulations.

适用物料 / Applicable materials

可以应用于1Kg至10Kg重的粮食、坚果、烘焙食品、休闲食品、袋装乳制品、冷冻食品等中型包装产品。

It can be applied to medium packaging products such as grains, nuts, baked food, snack food, packaged dairy products and frozen food, which weigh 1Kg to 10Kg.

大包装产品专用X射线异物检测机

X-RAY FOREIGN SUBSTANCE DETECTOR FOR LARGE PACKAGE PRODUCTS



THX-SS400DBZ

产品描述 / Product description

可以实现大包装产品中各种金属及非金属异物(如石头、玻璃、陶瓷、硬骨等)检测, 以及产品缺件检测等功能。

It can detect various metal and non-metal foreign objects (such as stone, glass, ceramic and hard bone etc.) in the big packaged products as well as detect missing parts of products.

适用物料 / Applicable materials

可以应用于10-25Kg重粮食、坚果、烘焙食品、休闲食品、冷冻食品等大型包装产品。

It can be applied in large packaged products which weigh 10-25Kg such as grain, nuts, baked food, snack food and frozen food etc.

TECHNICAL
PARAMETER
SHEET /
技术参数表

性能参数 / Performance parameter	产品型号 / Product model	散料专用一体式X射线异物检测机 Bulk material integrated x-ray foreign substance detector	散料专用一体式X射线异物检测机 Bulk material integrated x-ray foreign substance detector
		THX-SS210SL	THX-SS350SL
X射线源 / X-ray source		最大电压80kV、最大电流5mA，额定功率 210W Maximum voltage 80kV, maximum current 5mA, rated power 210W	最大电压80kV、最大电流8mA，额定功率 350W Maximum voltage: 80kV; maximum current:8mA; rated power: 350W
安全性 / Safety		X射线泄漏远低于1μSv/h，安全互锁装置 X-ray leakage is much less than 1μSv/h, safety interlock	X射线泄漏远低于1μSv/h，安全互锁装置 X-ray leakage is much less than 1μSv/h, safety interlock
检测灵敏度 / Detection sensitivity		不锈钢球>φ0.3mm，不锈钢线>φ0.2 mm × 5 mm Stainless steel ball>φ0.3mm, stainless steel wire>φ0.2 mm × 5 mm	不锈钢球>φ0.3mm，不锈钢线>φ0.2 mm × 5 mm Stainless steel ball>φ0.3mm; stainless steel wire>φ0.2 mm × 5 mm
检测尺寸 / Detection size		-	-
传送带速度 / Conveyor speed		90-120米/分钟 90-120m/min	90~120米/分钟 90~120m/min
传送带材质及宽度 / Conveyor material and width		食品级聚氨酯摩擦带，宽度440mm Food-grade polyurethane friction belt, width: 440mm	食品级聚氨酯摩擦带，宽度650mm Food-grade polyurethane friction belt, width: 650mm
显示屏 / Display screen		15寸睿脑智控屏 15-inch Ruinao intelligent control screen	15寸睿脑智控屏 15-inch Ruinao intelligent control screen
支持数据接口 / Support data interface		LAN & USB接口 LAN & USB interface	LAN & USB接口 LAN & USB interface
电源输入 / Power input		单相AC220V±10%，50/60Hz Single phase AC220V ± 10%, 50/60Hz	单相AC 220V±10%，50/60Hz Single phase AC220V ± 10%, 50/60Hz
机器尺寸（长宽高） / Machine dimension (length, width and height)		2788mm*1270mm*2366mm	3975mm*1483mm*2325mm
整机功率 / Total power		2000W	2900W
整机重量 / Total weight		750kg	1000kg
剔除系统 / Elimination system		吹阀 Blowing valve	吹阀 Blowing valve
防护等级 / Protection grade		传动部分IP66，其他IP54 Transmission part IP66, other IP54	传动部分IP66，其他IP54 Transmission part IP66, other IP54
工作环境 / Working environment		温度：-10°C-40°C Temperature: -10°C-40°C	温度：-10°C-40°C Temperature: -10°C-40°C
机体材质 / Body material		304不锈钢 304 stainless steel	304不锈钢 304 stainless steel
气源压力 / Air pressure		0.4-0.8MPa	0.4-0.8MPa
空压机 / Air compressor		4.8kw	4.8kw

性能参数 / Performance parameter	产品型号 / Product model	小包装产品专用x射线异物检测机 X-ray foreign substance detector for small package products	中型包装产品专用x射线异物检测机 X-ray foreign substance detector for medium-sized package products	大包装产品专用X射线异物检测机 X-ray foreign substance detector for large package products
		THX-SS150XBZ	THX-SS210ZBZ	THX-SS400DBZ
X射线源 / X-ray source		最大电压50kV、最大电流3mA，额定功率 150W Maximum voltage: 50kV; maximum current: 3mA; rated power: 150W	最大电压60kV、最大电流5mA，额定功率 210W Maximum voltage: 60kV; maximum current: 5mA, rated power: 210W	最大电压120kV、最大电流8mA，额定功率400W Maximum voltage: 120kV; maximum current: 8mA, rated power: 400W
安全性 / Safety		X射线泄漏远低于1μSv/h，安全互锁装置 X-ray leakage is much less than 1μSv/h, safety interlock	X射线泄漏远低于1μSv/h，安全互锁装置 X-ray leakage is much less than 1μSv/h, safety interlock	X射线泄漏远低于1μSv/h，安全互锁装置 X-ray leakage is much less than 1μSv/h, safety interlock
检测灵敏度 / Detection sensitivity		不锈钢球>φ0.3mm，不锈钢线>φ0.2 mm×2 mm Stainless steel ball>φ0.3mm; stainless steel wire>φ0.2 mm×2 mm	不锈钢球>φ0.3mm，不锈钢线>φ0.2 mm×2 mm Stainless steel ball>φ0.3mm; stainless steel wire>φ0.2 mm×2 mm	不锈钢球>φ0.3mm，不锈钢线>φ0.2 mm×5 mm Stainless steel ball>φ0.3mm; stainless steel wire>φ0.2 mm×5 mm
检测尺寸 / Detection size		最大宽度250mm，最大高度120mm(不能同时满足) Maximum width: 250mm; maximum height: 120mm(unable to meet the requirements at the same time)	最大宽度400mm，最大高度150mm(不能同时满足) Maximum width: 400mm; maximum height: 150mm(unable to meet the requirements at the same time)	最大宽度690mm，最大高度300mm(不能同时满足) Maximum width: 690mm; maximum height: 300mm(unable to meet the requirements at the same time)
传送带速度 / Conveyor speed		20~60米/分钟 20~60m/min	20~60米/分钟 20~60m/min	12~60米/分钟 12~60m/min
传送带材质及宽度 / Conveyor material and width		食品级聚氨酯摩擦带，宽度280mm Food-grade polyurethane friction belt, width: 280mm	食品级聚氨酯摩擦带，宽度420mm Food-grade polyurethane friction belt, width: 420mm	食品级聚氨酯摩擦带，宽度690mm Food-grade polyurethane friction belt, width: 690mm
显示屏 / Display screen		15寸睿脑智控屏 15-inch Ruinao intelligent control screen	15寸睿脑智控屏 15-inch Ruinao intelligent control screen	15寸睿脑智控屏 15-inch Ruinao intelligent control screen
支持数据接口 / Support data interface		LAN &USB接口 LAN & USB interface	LAN &USB接口 LAN & USB interface	LAN &USB接口 LAN & USB interface
电源输入 / Power input		单相AC 220V±10%，50/60Hz Single phase AC220V ± 10%, 50/60Hz	单相AC220V±10%，50/60Hz Single phase AC220V ± 10%, 50/60Hz	单相AC220V±10%，50/60Hz Single phase AC220V ± 10%, 50/60Hz
机器尺寸（长宽高） / Machine dimension (L,W,H)		1160 mm*825mm*1870mm(含三色灯) 1160 mm*825mm*1870mm (including three-color lamp)	2757mm*1268mm*2141mm(含三色灯) 2757 mm*1268mm*2141mm (including three-color lamp)	2690mm*1490mm*2310mm(含三色灯) 2690mm*1490mm*2310mm(including three-color lamp)
整机功率 / Total power		1000W	2000W	3300W
整机重量 / Total weight		150kg	500kg	1130kg
剔除系统 / Elimination system		摆杆 Oscillating bar	摆杆 Oscillating bar	侧推臂 Side push arm
防护等级 / Protection grade		传动部分IP66，其他IP54 Transmission part IP66, other IP54	传动部分IP66，其他IP54 Transmission part IP66, other IP54	传动部分IP66，其他IP54 Transmission part IP66, other IP54
工作环境 / Working environment		温度：-10°C-40°C Temperature: -10°C-40°C	温度：-10°C-40°C Temperature: -10°C-40°C	温度：-10°C-40°C Temperature: -10°C-40°C
机体材质 / Body material		304不锈钢 304 stainless steel	304不锈钢 304 stainless steel	304不锈钢 304 stainless steel
气源压力 / Air pressure		0.1-0.4MPa	0.1-0.5MPa	0.4-0.8MPa
空压机 / Air compressor		3.6kw	3.6kw	3.6kw

RANGE OF APPLICATION/ 应用范围

适用物料 APPLICABLE MATERIALS

花生米 Peanuts		葵花籽 Sunflower seeds		核桃 Walnut		腰果 Cashew	
脱水蔬菜 Dehydrated vegetables		休闲食品 Snack food		袋装调味料 Bagged seasoning		袋装乳制品 Bagged dairy products	
糖果 Candies		药品 Drug		袋装粮食 Bagged rice and grain		冷冻食品 Frozen food	

识别杂质 IDENTIFY IMPURITIES

金属 Metal		玻璃 Glass		陶瓷 Ceramic		土块 Clod	
石头 Stone		密致塑料 Dense plastic		橡胶 Rubber		贝壳 Shell	

AFTER SALES SERVICE / 售后服务



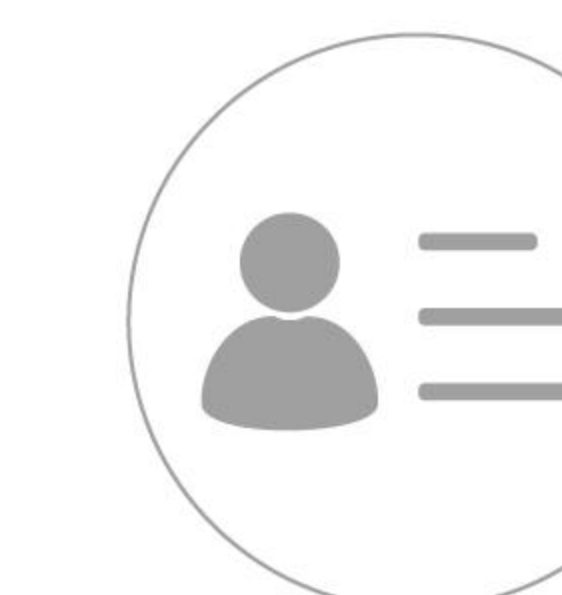
及时、周到
上门服务
24-hour On-site service
Fast response and considerate



整机一年
免费维护和保养
One-year Warranty
Free maintenance



7x24小时
用户咨询服务
7*24 hours free consultation service



建立用户档案
实行跟踪服务
Establish user files, implement tracking services

泰禾AI智选·数字分选技术开创者

Taiho AI Sort · Global Intelligent Manufacturer

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

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 on A-share
main board, 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

