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2018年11月



主板A股代码:603656
Stock code: 603656

X-RAY FOREIGN SUBSTANCE DETECTOR

X光异物检测机

03



X光机——独创-独到-独具慧眼

X-ray machine—original, unique and discerning

X-RAY MACHINE

Original
Unique
Discerning

X光机

独创、独到、独具慧眼！

15年，

懂你说的，懂你没说的；

未来，

预测未来，不如创造未来；

当众人追随你的步调，
“打破节奏”的时候到了。

X光机，

精准自现 · 微毫之间

15 years,

Understand what you say,
understand what you don't say;

In the future,

It is better to create the future than
to predict it.

It is time to "break the beat" when
everybody is following your steps.

X-ray machine,

Precise · slight difference

X-RAY MACHINE

Sensitive
Smart and stable

X光机

精准灵敏·智享稳定

前进·与您更近！

纵观世界，缔造传奇，
用科技智造革新工业生产，
把人类智慧融入智能分选；

挑战，智能融合，
适应，多种环境，
灵敏源于全方位精准感知！

Forward·Closer with You!

Throughout the world, to create a legend,
innovate industrial production with technical
intelligent manufacture, integrate human
wisdom into intelligent sorting;

Challenge intelligent integration,
Adaptation to multiple environments,
Sensitiveness comes from all-round precision
perception!

X-RAY MACHINE

Sensitive, precise and efficient!

X光机

灵敏、智精准，超效率！

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



微米感知系统 / Micron sensing system

高灵敏度微小异物识别 / High-sensitivity, tiny and foreign substance identification
高精度、高速度、高通量在线检测 / High precision, high speed, high throughput online detection



产品性能卓越 / Excellent product performance

美国进口X射线源，使用寿命超长 / The service life of US-imported X-ray source is super long
芬兰进口X射线探测器，超高分辨能力 / The Finland-imported X-ray detector is ultra-high resolution



黑盾防护系统 / Black shield protection system

符合行业食品卫生安全设计，防护优越 / Conform to industry food hygiene and safety design, protection is superior
X射线泄露远小于1μsv/h，远低于国际卫生组织制定标准 / X-ray leakage is much less than 1μsv/h and far below the standards set by WHO



全智能互联 / Fully intelligent interconnection

15寸睿脑智控屏，可视化便捷操作，一键智能分选 / 15-inch Ruinao intelligent control screen, visual and convenient operation, one-button intelligent sorting
手机/电脑远程实时监测控制，实现无人值守 / Mobile phone/computer remote and real-time monitoring and control to achieve unattended operation
远程在线软件升级，简便实用 / Remote online software upgrade, easy and practical
意外停机数据无损自恢复，降低生产风险 / Self-recovery without data loss during unexpected downtime, reducing production risk



一体化集成设计 / Integrated design

一体化设计，安装、调试、移动更便捷 / Integrated design, easy to install, debug and move
维护简单方便，皮带更换“一步到位” / Easy maintenance, belt replacement, “one step in place”



自适应服役 / Adaptive service

耐高温、耐低温环境自适应 / Self-adaption to high and low temperature resistant environment
整机防尘、部分防水设计 / The whole machine is dustproof and partially waterproof
产品稳定性、可靠性强 / Strong product stability and reliability

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

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-01

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	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-SS210SL	THX-SS150XBZ
X射线源 / X-ray source		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50kV、最大电流3mA，额定功率 150W Maximum voltage: 50kV; maximum current: 3mA; rated power: 150W
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×2 mm Stainless steel ball>φ0.3mm; stainless steel wire>φ0.2 mm×2 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)
传送带速度 / Conveyor speed		90米/分钟 90m/min	20～60米/分钟 20～60m/min
传送带材质及宽度 / Conveyor material and width		食品级聚氨酯摩擦带，宽度420mm Food-grade polyurethane friction belt, width: 420mm	食品级聚氨酯摩擦带，宽度280mm Food-grade polyurethane friction belt, width: 280mm
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)		2400 mm*1270 mm*2390mm(含三色灯) 2,400 mm*1,270 mm*2,390mm (including three-color lamp)	1160 mm*825mm*1870mm(含三色灯) 1,160 mm*825mm*1,870mm (including three-color lamp)
整机功率 / Total power		2000W	1000W
整机重量 / Total weight		600kg	150kg
剔除系统 / Elimination system		吹阀 Blowing valve	摆杆 Oscillating bar
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℃-40℃ Temperature: -10℃-40℃	温度：-10℃-40℃ Temperature: -10℃-40℃
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	0.1-0.4MPa
空压机 / Air compressor		4.8kw	3.6kw

TECHNICAL
PARAMETER
SHEET /
技术参数表-02

性能参数 / Performance parameter	产品型号 / Product model	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-SS210ZBZ	THX-SS400DBZ
X射线源 / X-ray source		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
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 ×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	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
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AC220V±10%，50/60Hz Single phase AC220V ± 10%, 50/60Hz
机器尺寸（长宽高） / Machine dimension (length, width and height)		2757mm*1268mm*2141mm(含三色灯) 2,757 mm*1,268mm*2,141mm (including three-color lamp)	2690mm*1490mm*2310mm(含三色灯) 2,690mm*1,490mm*2,310mm(including three-color lamp)
整机功率 / Total power		2000W	3300W
整机重量 / Total weight		500kg	1130kg
剔除系统 / Elimination system		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
工作环境 / Working environment		温度：-10℃-40℃ Temperature: -10℃-40℃	温度：-10℃-40℃ Temperature: -10℃-40℃
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		0.1-0.5MPa	0.4-0.8MPa
空压机 / Air compressor		3.6kw	3.6kw

RANGE OF APPLICATION/
应用范围

适用物料
APPLICABLE MATERIALS

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	
石头 Stone		密致塑料 Dense plastic		橡胶 Rubber	

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
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TAIHO

Innovate and serve the world

泰禾光电

革新视界·服务全球

当众人追随你的步调，“打破节奏”的时候到了。

When the multitude is following your steps;
It is the time to "Break the Rhythm".

集

15年
智研成果

Focus of 15 years
intellect and research
achievements

敬

15年
产业责任

Respect for 15 years
industry
responsibility

领

15年
行业之路

Lead of 15 years
industry
development

践

15年
业界护航

Practice of 15 years
business escort

融

15年
世界荣誉

Combination
of 15 years
world honor

2004

2004年底，合肥泰禾光电科技股份有限公司成立！

At the end of the year 2004, Hefei Taiho Optoelectronic Technology Co., Ltd. was established.

2017

2017年3月，合肥泰禾光电正式登陆上海证券交易所主板，成为上市企业！

In the march 2017, Hefei Taiho was officially logged in the main board of Shanghai Stock Exchange and became a listed company!

