TAIHO
Stock Code：603656

COÍHUE
MAQUINARIAS

DEEP LEARNING FULL SCENARIO SOLUTION

AI INTELLIGENT SORTING
THE NEW BENCHMARK IN SORTING

2024.11

TECHNICAL ADVANTAGES

TAI + Intelligent Algorithm System

This system integrates neural network algorithms and deep learning algorithms to autonomously collect, learn, and recognize vast amounts of image information about material properties such as color, shape, texture, area, density, and material.

TAI + Smart Core Processing System

Leveraging an AI edge processing architecture, this system is equipped with an NPU (Neural Processing Unit) embedded neural network processor and a DLA (Deep Learning Accelerator) for deep learning acceleration, boasting a supercomputing power of 100 TOPS for faster and smarter performance.

TAI + Optical Perception System

Featuring a low-temperature condensed LED light source with intelligent dimming capabilities and 16 million color combinations, this system is energy-efficient and durable. Coupled with AI color restoration technology, it provides autonomous color correction and calibration for high fidelity and ultra-realism.

TAI + Ultra-Clear Vision System

Compatible with high-definition CCD industrial cameras, each camera is embedded with an AI management system. Integrating time-division lighting technology, it enables high-speed imaging and ultra-clear pixel resolution.

TAI + Internet of Everything System

Utilizing the TAI + Smart Manufacturing Interconnection Platform and 4G/5G + Huawei Cloud-connected devices, this system enables intelligent IoT and automatic interaction. With a WeChat mini-program, it facilitates remote operation and maintenance as well as online services.

TAI + Variable Frequency Blowing System

Equipped with an intelligent variable frequency solenoid valve capable of 13 billion long-lasting blows, this system ensures no leakage and low power consumption. Utilizing adaptive blowing technology, it responds in 0.05 milliseconds, resulting in no tail gas emissions and low carryover.

TAI + Dust Removal and Purification System

This system features full-coverage gradual air purification and comprehensive filtration of water, oil, and dust, ensuring no omissions and zero pollution. With self-coordinating dust removal technology, it provides real-time induction-based dust removal for zero delay and cleaner performance.

TAI + Flexible Protection System

Designed with an integrated collision-resistant and non-destructive structure, this system ensures soft landing and flexible material discharge, effectively reducing material breakage. Using food-grade contact materials, it provides safe and comprehensive protection throughout the process, ensuring healthy quality.

AI SORT DEEP LEARNING

AI self-acquisition

Neuron-like model architecture, intelligent image acquisition and autonomous data annotation

AI self-recognition

Driven by an 8-core CPU efficiently, with diverse visual algorithms and autonomous classification and combined recognition.

AI self-learning

Model distillation coordination training, data transfer learning, self-improving detection efficiency

AI self-execution

With trillions of operations per second, neural network search, and automatic and accurate positioning and sorting.

SUPERBRAIN DEEP LEARNING PLATFORM

Superbrain deep learning

High-speed data transmission

Mass information processing

Accurate recognition and sorting

AI DEEP LEARNING SERIES

INTELLIGENT SORTING MAKES PRODUCT QUALITY HIGHER
HIGH-PRECISION SORTING MAKES PRODUCT PURITY HIGHER

6SXL-1200KD2Y

6SXL-1200KS2Y

Product Introduction

▶ High intelligence: Equipped with a superbrain deep learning platform, it can independently collect and learn material characteristics and recognize them.

▶ High efficiency: It can perform trillions of calculations per second, with extremely fast reaction speed, and more accurate and efficient sorting.

▶ High configuration: New platform model with optimized structure and standardized and modularized components, making the equipment performance more stable.

▶ High purity: Ultra-high-definition camera + intelligent high-frequency solenoid valve can accurately remove various impurities such as metals, insects, stones, and glass.

▶ High adaptability: Customized sorting on demand can effectively remove imperfect materials such as moldy, off-color, damaged, and irregular ones.

Applicable cases

This product is applicable to the sorting of irregular and fragile agricultural and sideline products such as peanuts, cashews, rose petals, garlic cloves, beans, corns, raisins, almonds, dried chili peppers, sunflower seeds, Chinese prickly ash, various Chinese herbal medicines, nuts, etc.

| Roasted nuts | Grains | Traditional Chinese medicine | Spice |

| Candied fruit | Vegetable | Flower | Evaporated vegetables |

Performance specification

Product series	Model	Throughput (t/h)	Power (kw)	Electricity voltage (V)	Air pressure (MPa)	Air consumption (m³/min)	Size (mm)	Weight (kg)
AI intelligent selection deep learning sorting machine (Motor vibrator)	6SXL-1200KD2Y	6.0-13.0	4.8	AC380V 60Hz	0.5-0.8	0.8-1.5	4430*2489*1765	2018
	6SXL-1200KS2Y	7.0-14.0	9.0	AC380V 60Hz	0.5-0.8	2.5-4.4	4973*2340*2940	3420
	6SXL-1800KD2Y	8.0-15.0	5.6	AC380V 60Hz	0.5-0.8	2.0-3.5	4430*3098*1765	2231
	6SXL-1800KS2Y	12.0-20.0	10.2	AC380V 60Hz	0.5-0.8	5.0-6.5	4973*2940*2940	4110
AI intelligent selection deep learning sorting machine (electromagnetic vibrator)	6SXL-1200KD2Y	6.0-13.0	4.8	AC380V 60Hz	0.5-0.8	0.8-1.5	3602*2230*1765	1668
	6SXL-1200KS2Y	7.0-14.0	8.8	AC380V 60Hz	0.5-0.8	2.5-4.4	3602*2230*2630	3195
	6SXL-1800KD2Y	8.0-15.0	5.8	AC380V 60Hz	0.5-0.8	2.0-3.5	3602*2830*1765	2074
	6SXL-1800KS2Y	12.0-20.0	10.5	AC380V 60Hz	0.5-0.8	5.0-6.5	3602*2830*2630	3691

NOTE:1. The above color separation performance takes peanut containing less than 5% impurity as an example;2. the product configuration is constantly updated, different periods of product configuration parameters may be different, the specific physical machine shall prevail;3. The performance shown in this album has been tested and produced, and may be different in actual production due to different site enviroments.

X-RAY DETECTION SERIES

Global Intelligent Manufacturing
AI Vision Expert

X-RAY SUPER HOLOGRAPHIC IMAGE MAKES ALL KINDS
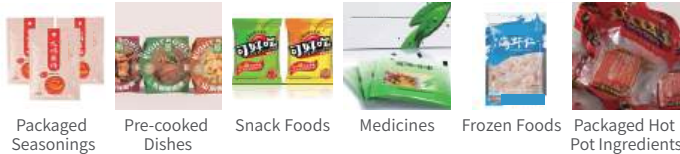OF HARMFUL AND FOREIGN IMPURITIES NOWHERE TO HIDE

THX-S400P

THX-S600B

THX-S400B (Split-type equipment)

◉ Product Introduction

▶ More intelligent: Applying AI deep learning technology, it can independently collect material characteristics and accurately identify foreign impurities.

▶ More high-precision: Imported radiation source. With X-ray transmission imaging, it can detect high and low density as well as tiny foreign objects.

▶ More professional: Multiple equipment models can conduct professional and accurate sorting for various products such as bulk materials and packaged materials.

▶ More convenient: Minimalist UI design, simple operation, multiple network connection methods, and support for remote operation.

▶ More safe: Radiation safety standards and specifications are better than international standards. It has a safety interlock monitoring function, making equipment application safer.

◉ Applicable cases

This product is suitable for sorting high and low density foreign objects and detecting defective products in various bulk materials and packaged materials such as nuts, roasted seeds and nuts, coarse cereals, candies, and medicine pieces.

Nuts	Dried Fruits	Minor Grain Crops	Traditional Chinese Medicines	Bulk Foods	Spices and Herbs
Packaged Seasonings	Pre-cooked Dishes	Snack Foods	Medicines	Frozen Foods	Packaged Hot Pot Ingredients

◉ Performance specification

| Product series	Model	Throughput (t/h)	Power (kw)	Electricity voltage (V)	Radiation leakage level (μSv/h)	Remove method	Size (mm)	Weight (kg)	Effective detection range (width * height) (mm)
Special series for bulk materials X-ray foreign body detector	THX-S400B (all-in-one equipment)	1.0-2.0	2.5	AC220V 50Hz	<1	Remove by blowing through 72 air passages	2745*1285*2200	750	/
	THX-S400B (split-type equipment)	1.0-2.0	2.5	AC220V/380V 50Hz	<1	Remove by blowing through 72 air passages	3430*1310*2200	950	/
	THX-S600B	1.5-3.0	2.9	AC220V/380V 50Hz	<1	Remove by blowing through 108 air passages	3990*1505*2200	1000	/
Special series of packaging materials X-ray foreign body detector	THX-S200P	/	1.5	AC220V 50Hz	<1	Remove by means such as swing lever, flap, or push rod.	1185*960*1680	350	226*0/202*30 /179*60/159*85
	THX-S400P	/	2.0	AC220V 50Hz	<1	Remove by means such as swing lever, flap, or push rod.	1210*1115*1775	450	380*0/341*50 /302*100/263*150

Note:1.The above color separation performance takes peanut containing less than 2% impurity as an example;2.The product configuration is constantly updated, different periods of product configuration parameters may be different, the specific physical machine shall prevail;3.The performance shown in this album has been tested and produced, and may be different in actual production due to different site environments.

SOLUTION

● Peanut sorting

● Sunflower seed sorting
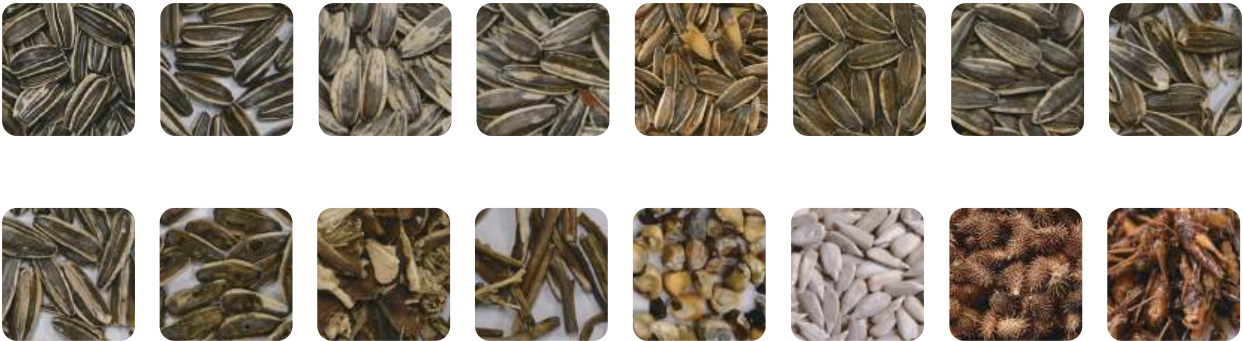
● Nut Sorting

Pine nuts

Macadamia nuts

Pecans   Coffee beans

Almonds   Cashews

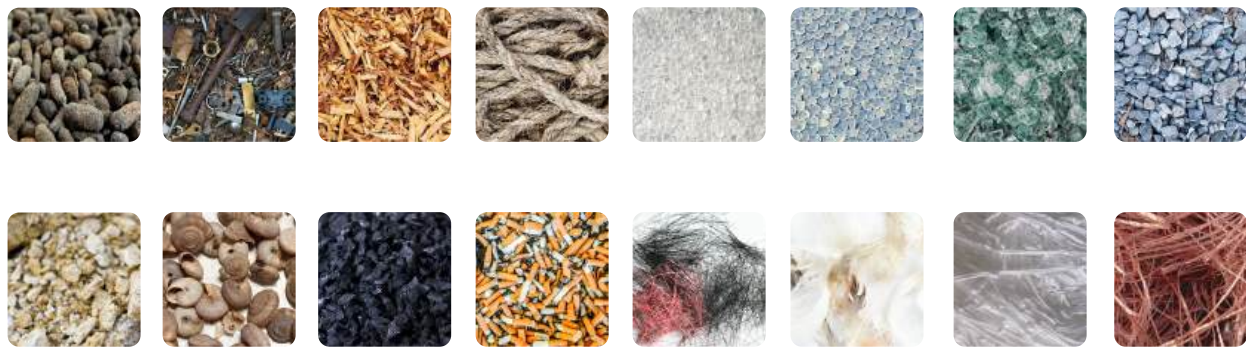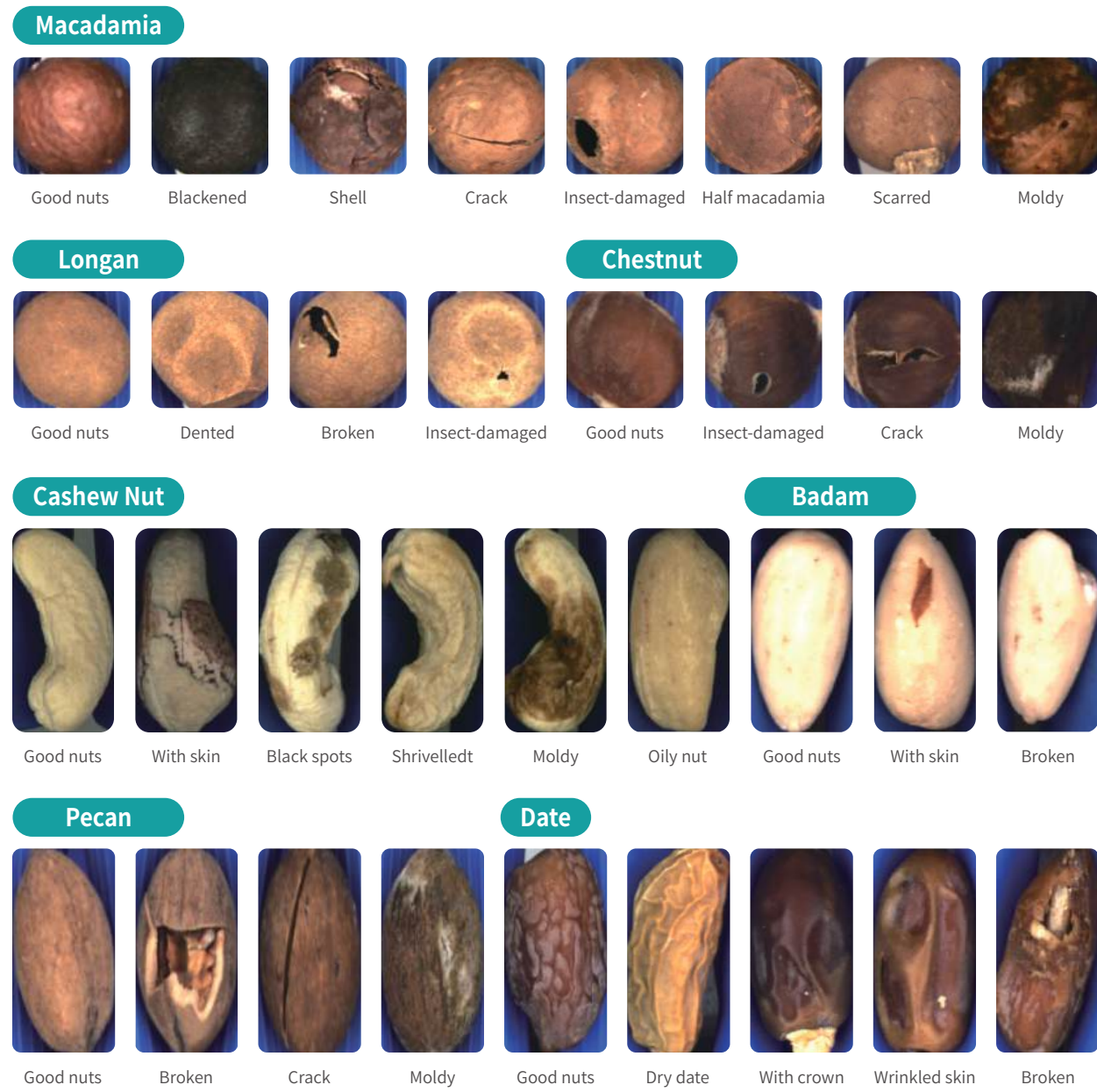### Hazelnuts   Hazelnut kernels

Others

SOLUTION

Spice sorting

Impurity sorting

Examples of Nut Sorting Scenarios:

Macadamia

| Good nuts | Blackened | Shell | Crack | Insect-damaged | Half macadamia | Scarred | Moldy |

Longan   Chestnut

| Good nuts | Dented | Broken | Insect-damaged | Good nuts | Insect-damaged | Crack | Moldy |

Cashew Nut   Badam

| Good nuts | With skin | Black spots | Shrivelledt | Moldy | Oily nut | Good nuts | With skin | Broken |

Pecan   Date

| Good nuts | Broken | Crack | Moldy | Good nuts | Dry date | With crown | Wrinkled skin | Broken |

Chinese Herbal Medicine Sorting

GLOBAL MARKETING NETWORK

UK · French · Italy · Poland · Germany · Ukraine · Russia · Bulgaria · Greek · Turkey · Uzbekistan · Kyrgyzstan · Kazakhstan · Israel · Iraq · Tajikistan · Lebanon · Iran · Pakistan · Libya · Egypt · Senegal · Sudan · Yemen · India · Bangladesh · Laos · Myanmar · Vietnam · Thailand · Cambodia · Philippines · Ghana · Nigeria · Ethiopia · Uganda · Sri Lanka · Malaysia · Tanzania · Zambia · Mozambique · Indonesia · South Africa · Australia · New Zealand · South Korea · Canada · USA · Mexico · Guyana · Brazil · Peru · Paraguay · Uruguay · TAIHO
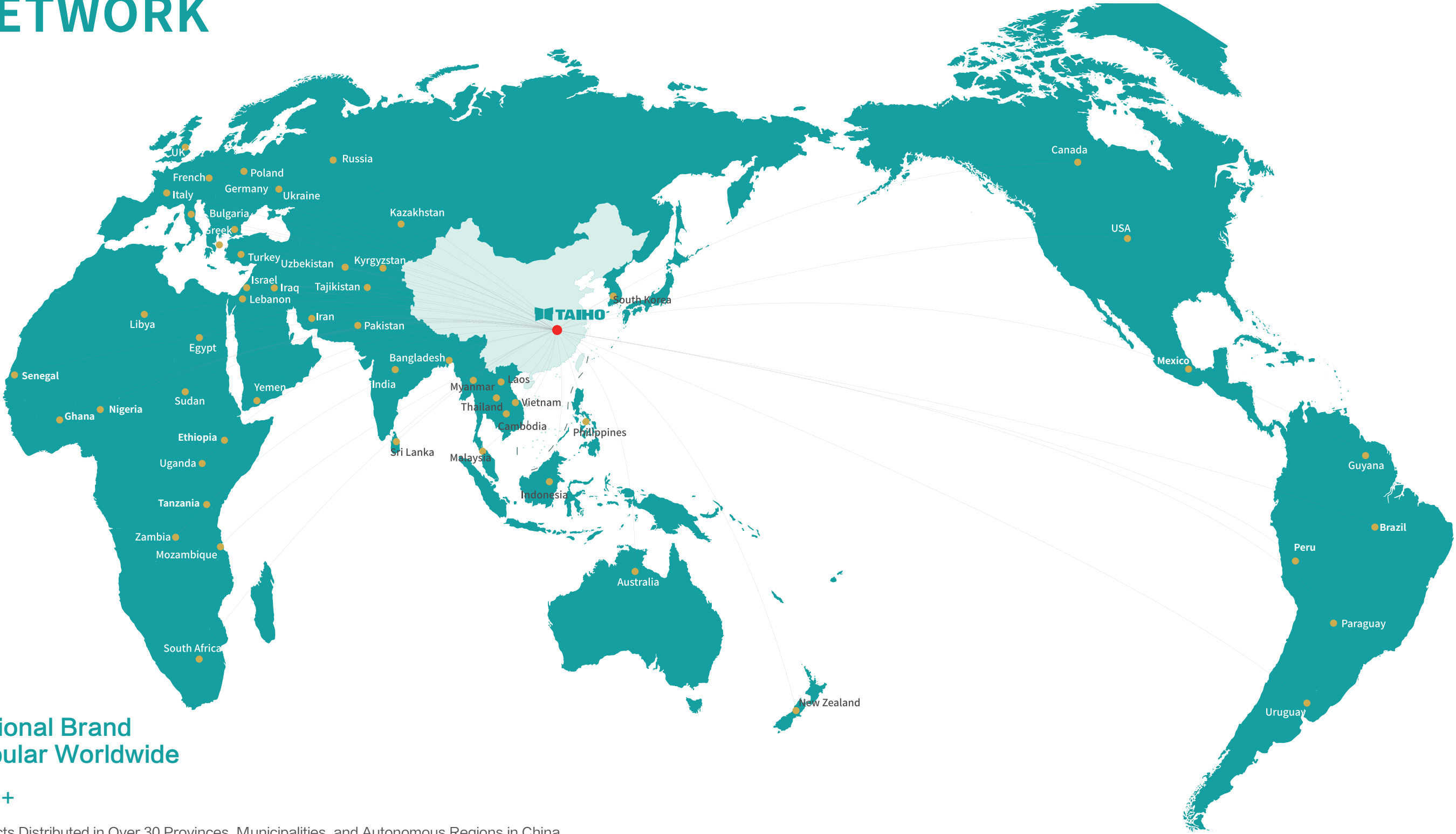
National Brand
Popular Worldwide

30+
Products Distributed in Over 30 Provinces, Municipalities, and Autonomous Regions in China

100+
Exported to Over 100 Countries and Regions

AFTER-SALE SERVICES

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.
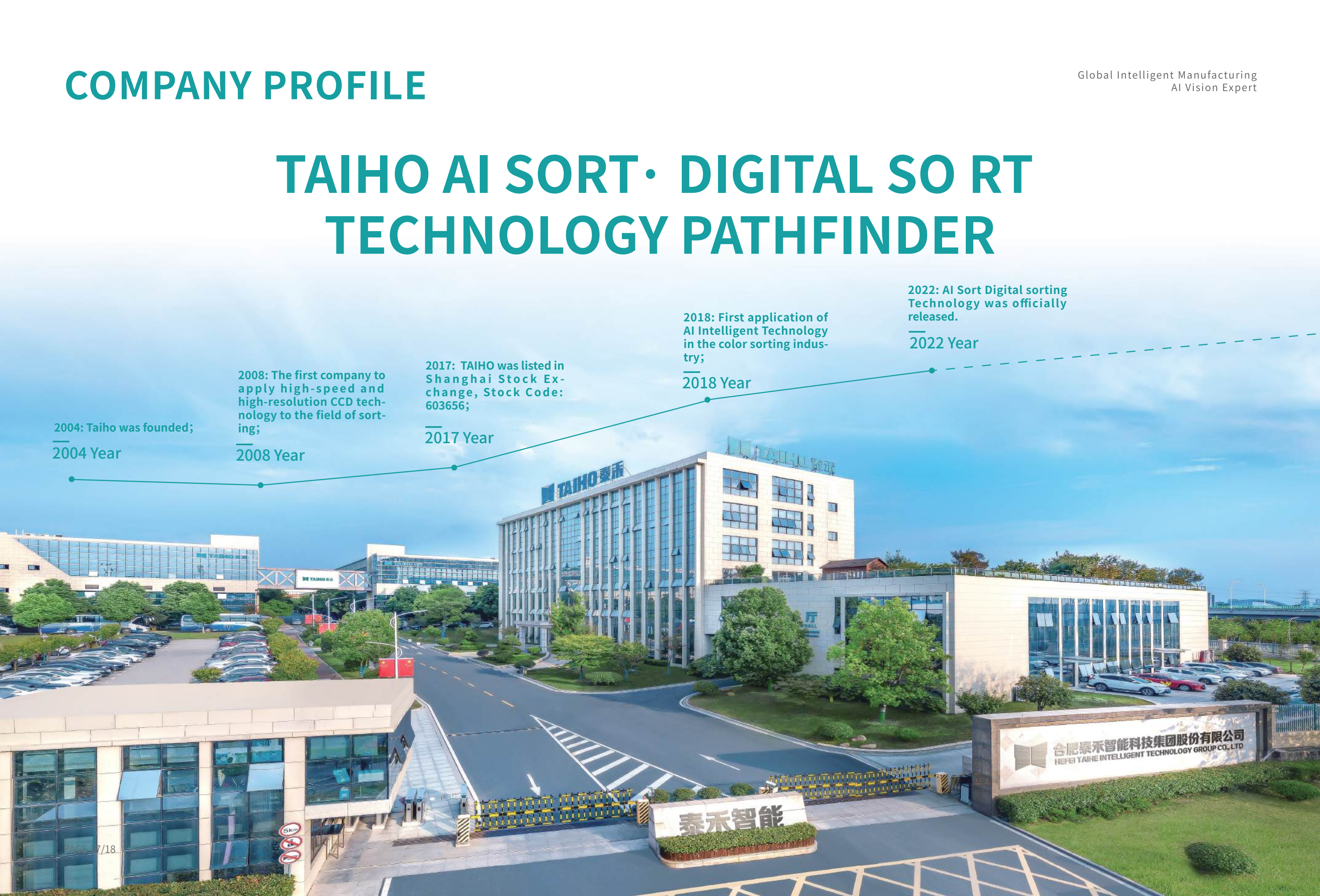
400-660-9996

One-year free warranty

24-hour local agent response

Free consultation service 7*24 hours

Establish user files, implement tracking services

COMPANY PROFILE

TAIHO AI SORT· DIGITAL SO RT TECHNOLOGY PATHFINDER

2004: Taiho was founded;
2004 Year

2008: The first company to apply high-speed and high-resolution CCD technology to the field of sorting;
2008 Year

2017: TAIHO was listed in Shanghai Stock Exchange, Stock Code: 603656;
2017 Year

2018: First application of AI Intelligent Technology in the color sorting industry;
2018 Year

2022: AI Sort Digital sorting Technology was officially released.
2022 Year