

CHINA'S LEADING BELT-TYPE SORTING MACHINE



INTELLIGENT
SORTING SOLUTION
FOR METAL AND
GLASS

HEFEI ANGELON ELECTRONICS CO., LTD.

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COMPANY PROFILE

HEFEI ANGELON ELECTRONICS CO., LTD.

The company, formerly known as Hefei Angelon Intelligent Control Research Institute, which was founded in 2001, is a national high-tech enterprise integrating the research, development, production, and sales of color sorter products. In 2016, Angelon was listed on the National Equities Exchange and Quotations (NEEQ), becoming the first stock in the color sorter industry on the NEEQ, with stock code: 838092.

Since its establishment, the company has always focused on product R&D investment and technological innovation, gradually building a high-quality R&D team. It has applied advanced image recognition technology in the field of color sorters. The company's self-developed Angelon intelligent CCD color sorter features high sorting precision, low damage, and low carry-over rate. It is widely used in food, traditional Chinese medicine, renewable resources, minerals, and other fields, capable of color sorting, shape sorting, and AI (artificial intelligence) intelligent recognition.

The company adopts an asset-light operating model, with over 3,000 square meters of office space and over 7,000 square meters of production workshops. It has established a marketing network covering both domestic and overseas markets, with products exported to over 40 countries and regions in Europe, America, Africa, Southeast Asia, and the Middle East.

The company always adheres to the business philosophy of "quality first, service paramount" and upholds the spirit of innovation, lean production, and dedication, embodying the craftsman ethos. We carefully select high-quality food ingredients to ensure food safety, enhance the recycling and utilization rate of renewable materials to contribute to environmental protection, and identify ore characteristics from multiple dimensions to facilitate the transformation and upgrading of the non-metallic mining industry.

Excellence comes from outstanding talent. Angelon is determined to become a responsible Chinese enterprise, striving to create first-class Angelon color sorters and leading the Chinese color sorting industry to occupy the commanding heights of the world's color sorting system.



20 YEARS OF FOCUS ON
BELT-TYPE SORTING



100 TECHNICAL
PATENTS



EXPORTS TO 45
COUNTRIES AND REGIONS

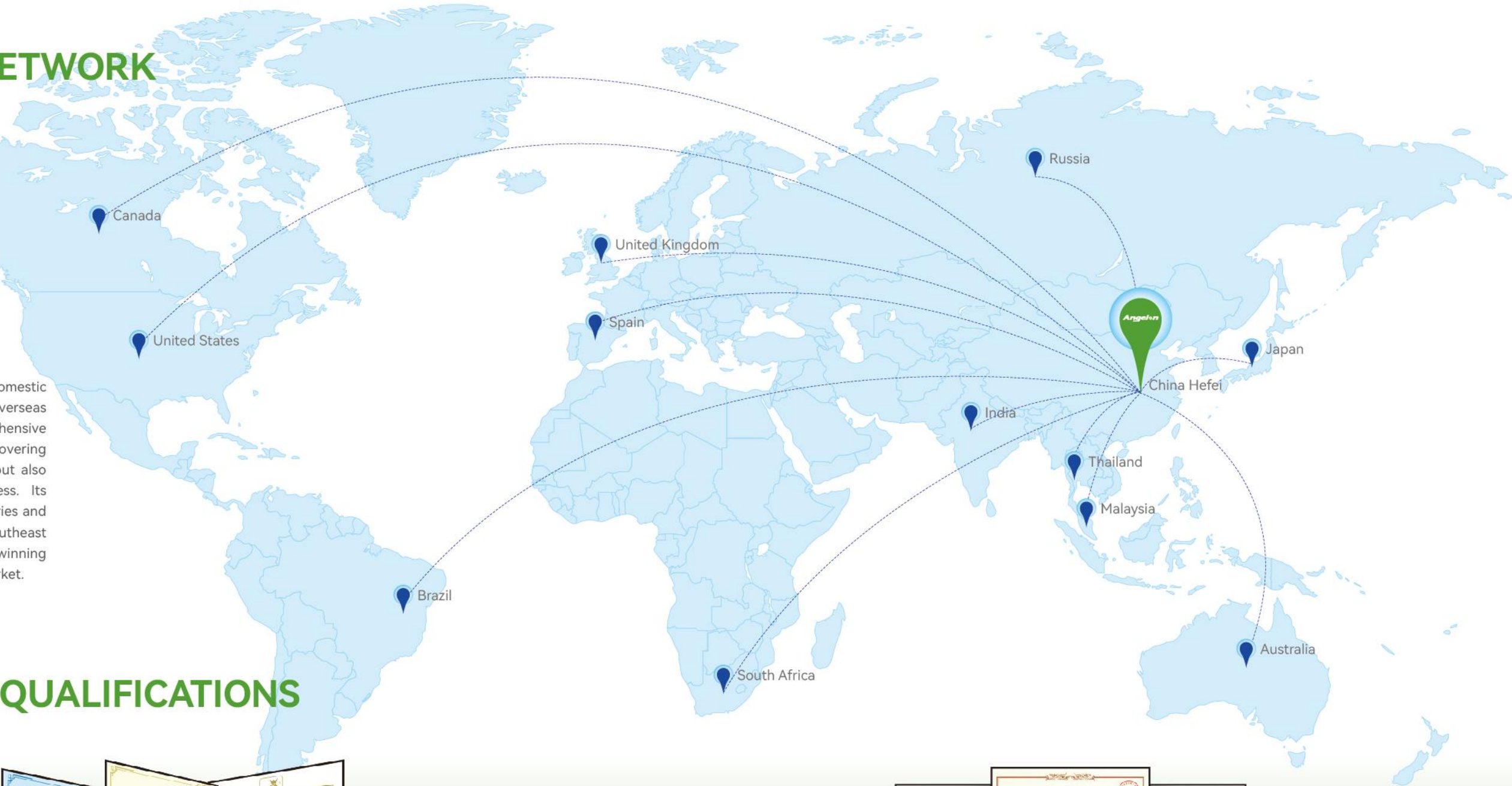
ANNUAL SALES
100+M



MARKETING NETWORK

EXPORTS TO 45 COUNTRIES AND REGIONS

Angelon not only deeply cultivates its domestic market but also actively expands its overseas business by establishing a comprehensive marketing system and service network covering various provinces and cities in China, but also actively expands its overseas business. Its products are exported to over 45 countries and regions in Europe, America, Africa, Southeast Asia, the Middle East, and other regions, winning wide recognition in the international market.



HONORS AND QUALIFICATIONS



Honor certificates: National High-tech Enterprise, Provincial Specialized, Fine, Unique and Innovative Enterprise, etc
Qualification certification: ISO series management system certification, CE certification



14 invention patents + 76 utility model patents + 10 design patents
100 TECHNICAL PATENTS

TECHNICAL ADVANTAGE

01 AI DEEP LEARNING ALGORITHM

Deep learning the characteristics of different material varieties, customize exclusive sorting models, and efficiently and intelligently identify subtle differences in color, shape, and texture among materials.

02 ULTRA-HIGH-DEFINITION VISUAL IMAGING SYSTEM

Equipped with an ultra-high-definition industrial camera and optical sensor, coupled with a professional-grade light source system, it ensures stable and clear image output even at high speeds.

03 DUAL-LIGHT FUSION RECOGNITION TECHNOLOGY

Breaking through the limitation of traditional color sorters that can only identify surface color differences of materials, it achieves precise sorting based on internal characteristics, structural variations, and hidden defects.

04 DRY-WET SEPARATION TECHNOLOGY

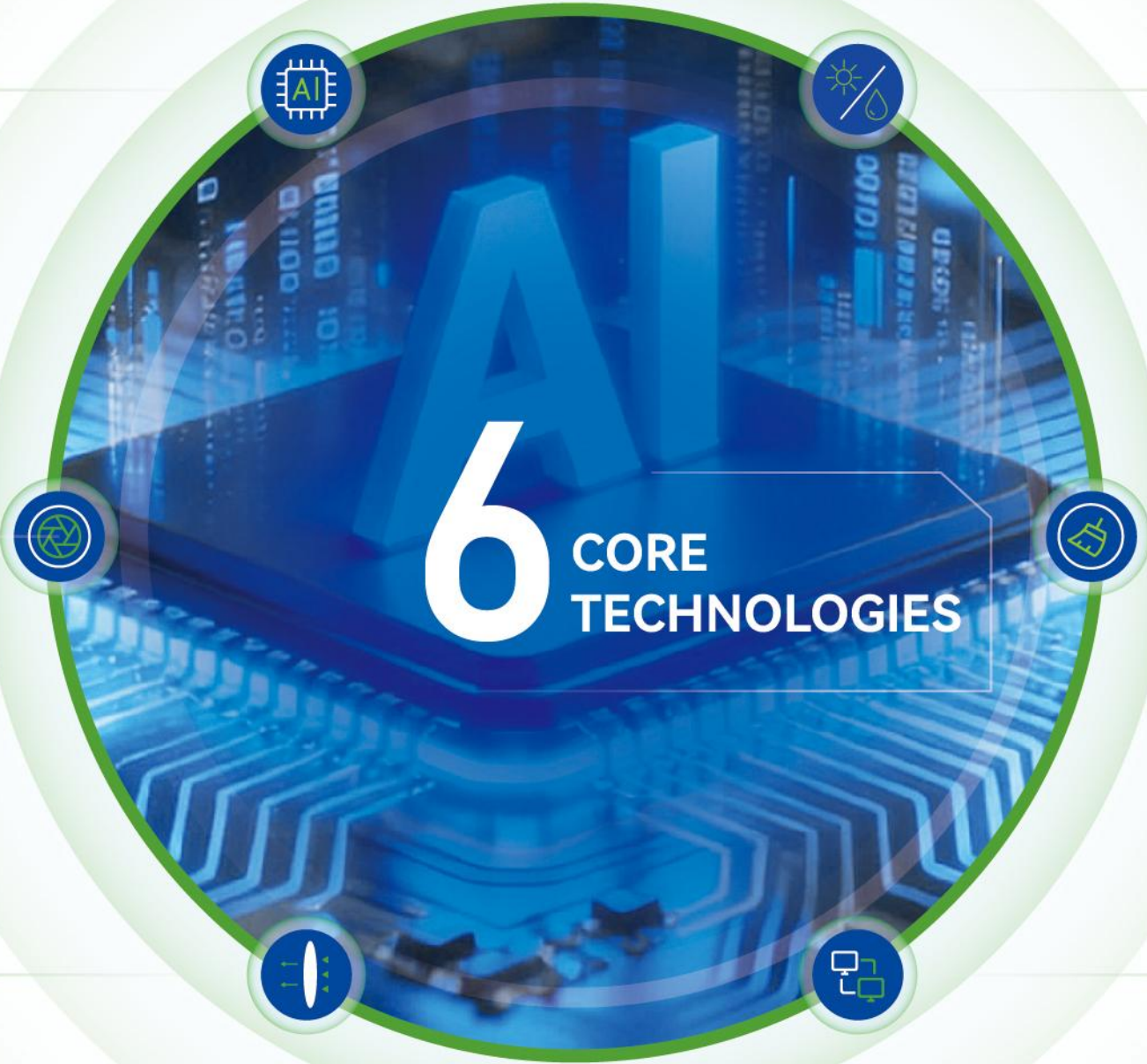
Innovative dry wet sorting compatible technology, precise adaptation to all humidity materials, compatible with dry and wet material sorting, ensuring sorting accuracy and efficiency under all working conditions, and adapting to diverse production sorting scenarios.

05 OPTICAL PATH PROTECTION SYSTEM

Optimize the spatial structure, resist the impact of dust and moisture on the optical system, and maintain long-term efficient operation of the equipment.

06 REMOTE DEBUGGING SYSTEM

It can achieve full screen remote debugging, fast response, reduce downtime, and improve maintenance efficiency.



PRODUCT INTRODUCTION

C SERIES



Core Technology

Stable performance

Intelligent configuration is easy to operate, adaptable and flexible, and the product performance has been tested for a long time with low failure rate, making it more stable and reliable.

High accuracy

Adopting the third-generation multi-dimensional color selection+shape selection technology, it easily realizes multi-dimensional feature recognition such as color, shape, texture, etc., with a sorting accuracy of over 99%.

Dry-wet separation

It can sort materials with water or wet surfaces, broaden application scenarios, achieve seamless connection throughout the entire process, save energy and increase efficiency, and optimize wet selection.

Customized Solution

Based on special requirements, model training can be conducted on the characteristics of special materials, and customized solutions for equipment combinations and sizes can be created.

Product Parameters

Product Model	Belt-type width (mm)	Throughput (t/h)	Selection rate (%)	Bring out the ratio (Bad: Good)	Total machine power (kW)	Power supply voltage (V)	Dimensions L*W*H(mm)	Machine weight (kg)
C421-512	1200	3-4	> 99	> 10 : 1	6.5	380V/50Hz	4292*1864*2429	1410

Note: The above sorting performance is based on 1-2cm size copper zinc material as an example, and the specific parameters may vary depending on the environment, material, and impurity content

K2 SERIES



Core Technology

AI-powered

AI deep learning algorithms, customized exclusive models, accurately respond to material sorting of different varieties and forms.

Dry-wet separation

It can sort materials with water or surface moisture, broaden application scenarios, achieve seamless connection throughout the entire process, and save energy and increase efficiency.

Stable and efficient

Optimizing the spatial structure, protecting the optical path system, better resisting dust and moisture, facilitating cleaning, and integrating high performance, high efficiency, and high precision.

Customized Solution

Based on special requirements, model training can be conducted on the characteristics of special materials, and customized solutions for equipment combinations and sizes can be created.

Product Parameters

Product Model	Belt-type width (mm)	Throughput (t/h)	Selection rate (%)	Bring out the ratio (Bad: Good)	Total machine power (kW)	Power supply voltage (V)	Dimensions L*W*H(mm)	Machine weight (kg)
KS421-512-AI	1200	3-4	> 99	> 10 : 1	7.3	380V/50Hz	4615*2040*2506	1730
KS621-768-AI	1800	4-5	> 99	> 10 : 1	10.25	380V/50Hz	4956*2400*1965	2210

Note: The above sorting performance is based on 1-2cm size copper zinc material as an example, and the specific parameters may vary depending on the environment, material, and impurity content

SORTING DEMONSTRATION

METAL MIXTURE



Raw material

Good material

Defective material

METAL PARTICLES



Raw material

Good material

Defective material

CIRCUIT BOARD



Raw material

Good material

Defective material

HOUSEHOLD APPLIANCE DISMANTLING MATERIALS



Raw material

Good material

Defective material

SORTING DEMONSTRATION

WINE BOTTLE GLASS COLOR SEPARATION



Raw material

White

Green

Brown

Blue

FLAT GLASS IMPURITY REMOVAL



Raw material

Good material

Defective material

WINE BOTTLE GLASS IMPURITY REMOVAL



Raw material

Good material

Defective material

PHOTOVOLTAIC GLASS IMPURITY REMOVAL



Raw material

Good material

Defective material

SLAG SELECTION GLASS



Raw material

Good material

Defective material

SORTING DEMONSTRATION



——Metal Customer Cases

SORTING DEMONSTRATION



Product value

——Glass Customer Case

Cost reduction and efficiency improvement: automated intelligent sorting, unified material sorting standards, and increased production efficiency.

Energy saving and environmental protection: optimize equipment energy consumption, reduce material waste, and enhance the value of resource utilization.

Investment Return: Low operation and maintenance costs, long equipment lifespan, and stable operation bring continuous benefits.

Industry Upgrade: Technology empowers material quality improvement, promoting intelligent transformation of the industry.

AFTER-SALES SERVICE

Angelon's after-sales service adheres to the philosophy of 'quick, professional, and reliable,' relying on an experienced and rigorously trained and certified team of professional engineers, providing a comprehensive after-sales network nationwide, and ensuring service professionalism.



 **SERVICE HOTLINE 400-0551-121**

 **AFTER-SALES HOTLINE 153 3969 3576**