

China's Leading Belt-type Sorting Machine



**INTELLIGENT
SORTING SOLUTION
FOR PLASTICS**

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 color CCD color sorter features high 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
CRAWLER-TYPE SORTING



100 TECHNICAL
PATENTS



EXPORTS TO 45
COUNTRIES AND REGIONS

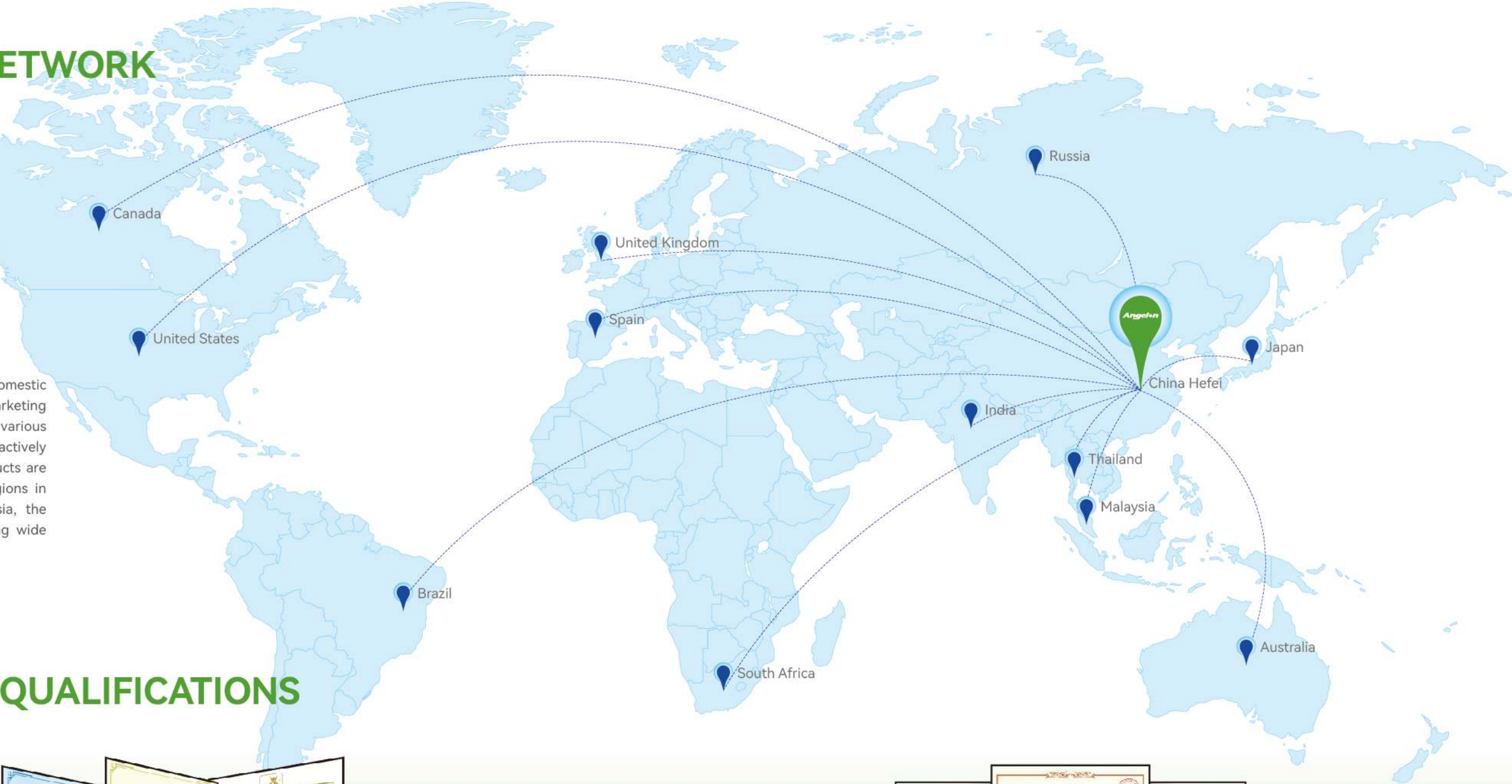
ANNUAL SALES
100000⁺ 万



MARKETING NETWORK

EXPORTS TO 45 COUNTRIES AND REGIONS

Angelon not only deeply cultivates its domestic market, 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

Deeply learn 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 BRAND-NEW UV SORTING TECHNOLOGY

Using ultraviolet fluorescence excitation and a high-sensitivity imaging system, it is possible to sort plastic pieces such as aged pieces, fluorescent agent pieces, and rosin, which are difficult to identify under visible light.

03 COMPREHENSIVE SORTING TECHNOLOGY

Multi-dimensional morphological feature extraction and intelligent judgment enable precise sorting of wires, copper wires, circuit boards, stainless steel, etc., within metals and plastics.

04 NEAR-INFRARED MATERIAL SORTING

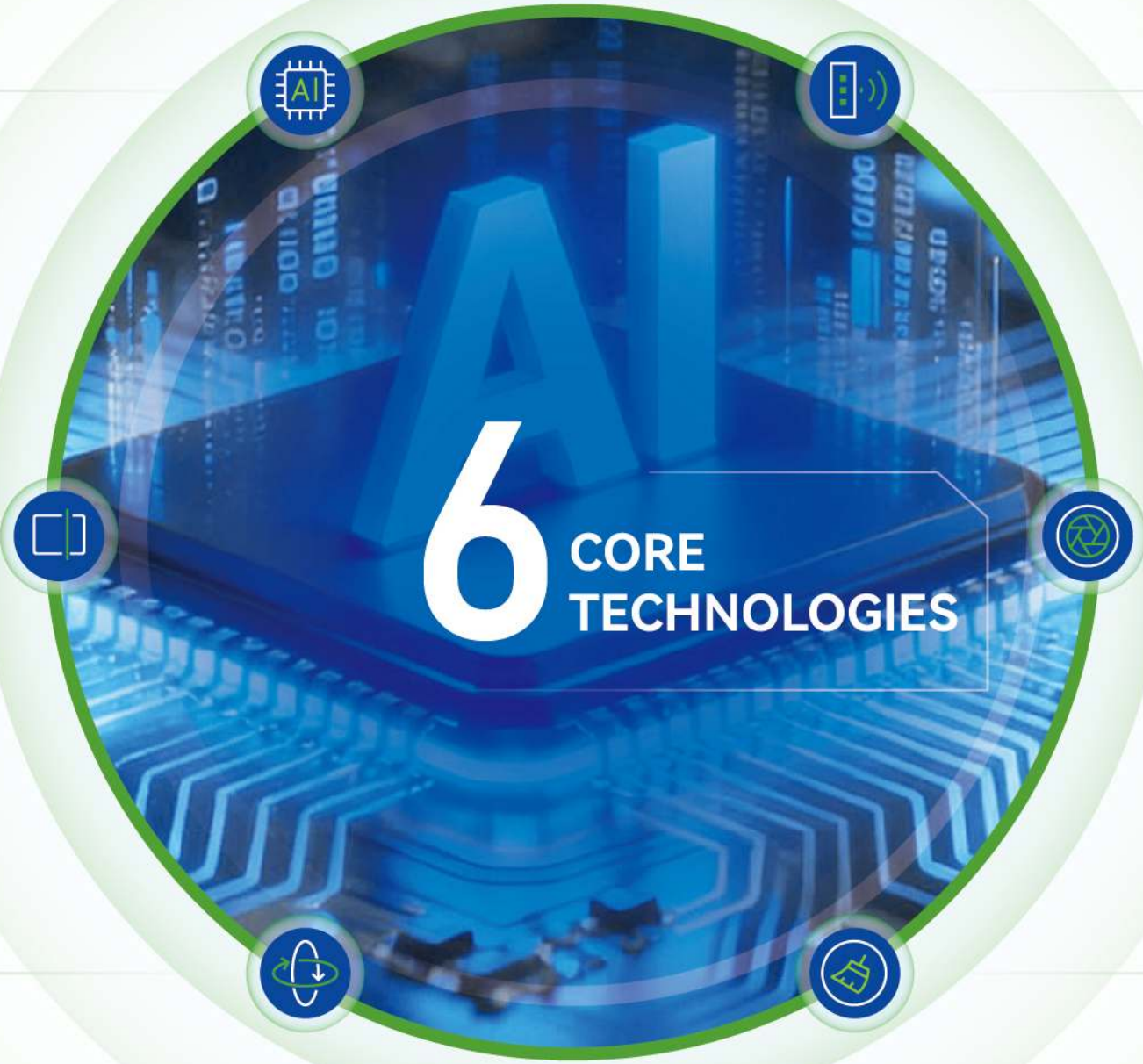
When near-infrared light illuminates materials such as PET, PVC, PP, and PE, the system can instantly identify the material by analyzing the reflected spectrum.

05 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.

06 SELF-CLEANING SYSTEM

The multi-layer self-cleaning system comprehensively resists dust and moisture, effectively ensures color sorting accuracy, and reduces manual maintenance costs.



PRODUCT INTRODUCTION

K2 SERIES

Sortable size range:
0.5-5.0cm



Core Technology

AI-powered

Utilizing AI deep learning algorithms, we have customized a dedicated model specifically for large-particle plastics, enabling precise sorting of plastics of various colors and shapes.

Multi-purpose machine

Tailored sorting solutions based on customer needs, offering both dry and wet sorting options, support multi-dimensional sorting including size, color, and integrity, doubling practical value.

Stable and efficient

Optimize the spatial structure, protect the optical path system, better resist dust and moisture, facilitate cleaning, and integrate high performance, high efficiency, and high precision.

Dry-wet separation

It can sort plastics with water or wet surfaces, broadening the application scenarios, achieving seamless connection throughout the entire process, and saving energy and increasing efficiency.

Product Parameters

Product Model	Track 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)
KS422-512-AI	1200	1-4	> 99	> 20 : 1	7.5	380V/50Hz	4615*2040*2506	1700
KS622-768-AI	1800	2-5	> 99	> 20 : 1	12.5	380V/50Hz	5260*2660*2515	2210

Note: The above sorting performance is exemplified by salt base material and strong magnetic material. Specific parameters may vary depending on the environment, material, and impurity content

T3 SERIES

Sortable size range:
0.3-3.0cm



Core Technology

AI-powered

Utilizing AI deep learning algorithms, we efficiently and intelligently learn and collect data on various types of plastics, establishing a dedicated sorting model with higher recognition accuracy.

Multi-dimensional sorting

Self-developed third-generation multi-dimensional shape selection + color selection technology comprehensively screens issues such as color irregularities, impurities, and size, resulting in superior product quality.

Precise identification

The tracked system can effectively maintain a stable conveying trajectory for materials, while exhibiting more precise recognition capabilities for plastic sheets and granular materials.

Customized Solution

Based on special requirements, we conduct model training for specific material characteristics and can develop customized solutions for equipment combinations and dimensions.

Product Parameters

Product Model	Track 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)
T3-222-256-AI	600	0.5-1	> 99	> 20 : 1	7.3	380V/50Hz	3776*1362*3160	1400
T3-422-512-AI	1200	1-2	> 99	> 20 : 1	9.5	380V/50Hz	3776*1962*3160	2050
T3-622-768-AI	1800	2-3	> 99	> 20 : 1	10.5	380V/50Hz	3830*2562*3200	2690

Note: The above sorting performance is based on hard impurity materials with impurity content less than 10%. Specific parameters may vary depending on the environment, material, and impurity content

PRODUCT INTRODUCTION

R SERIES

Sortable size range:
0.3-3.5cm



Core Technology

High accuracy

Using a high-resolution near-infrared camera, it can identify fine particles and subtle differences within 0.5mm².

Customized solution

Based on special requirements, we conduct model training tailored to the unique characteristics of specific materials, and can develop customized solutions for equipment combinations and dimensions.

Wide coverage

It is suitable for sorting plastics of various materials such as PET, PVC, PP, PE, ABS, PA, and PC.

Bring out the ratio lower

Customize image processing algorithms for various plastic materials to reduce the carry-over ratio of materials and minimize losses.

Product Parameters

Product Model	Track 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)
R211-128	600	1	> 99	> 30 : 1	3.8	380V/50Hz	2662*2140*1224	900
R611-384	1800	2	> 99	> 30 : 1	4.1	380V/50Hz	3226*2454*2050	1400

Note: The sorting performance mentioned above is based on PET material with impurity content below 2%. Specific parameters may vary depending on the environment, material, and impurity content

UV series

PRINCIPLE

The phenomenon that materials exhibit unique fluorescence characteristics under ultraviolet (UV) irradiation can be utilized for sorting, and various models of UV systems can be equipped with this function.



Core Technology

UV identification

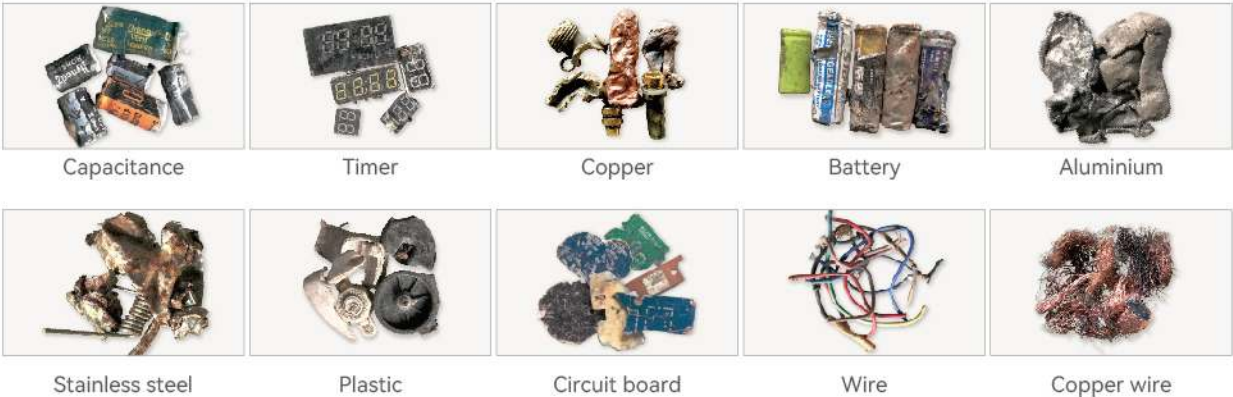
Equipped with an ultraviolet sorting system, it can sort plastic pieces such as aged pieces, fluorescent agent pieces, and rosin, which are difficult to identify under visible light.

Deep learning

Utilizing AI deep learning technology, combining high-precision recognition with intelligent screening, we empower selection and optimization, achieving quality improvement and efficiency enhancement.

SORTING DEMONSTRATION

DISASSEMBLED MATERIALS FROM HOME APPLIANCES AND AUTOMOBILES



POM



PET



ABS



BOTTLE CAP



PLASTIC PARTICLES



FIVE-COLORED BOTTLE CAPS



CUSTOMER CASE



Product value

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**