

CHINA'S LEADING BELT-TYPE SORTING MACHINE



INTELLIGENT  
SORTING SOLUTION  
FOR ORES

**HEFEI ANGELON ELECTRONICS CO., LTD.**

Add: Building 6, NO.16 Hehuan Road, High-tech District, Hefei City, Anhui Province, China

Mobile&Whatsapp: +8618010853105 Email: been.cui@angelon.com.cn Tel: +8618056033098

<https://www.ajlong.cn>

# 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  
1000M<sup>+</sup>



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 DEEP INTELLIGENT SILICON CONTENT ANALYSIS TECHNOLOGY

Equipped with unique deep intelligence technology, it can achieve qualitative analysis of various colors of silica, cobblestones, and other materials with silicon content, effectively improving the purification and impurity removal of ores.

## 04 DRY AND WET SORTING TECHNOLOGY

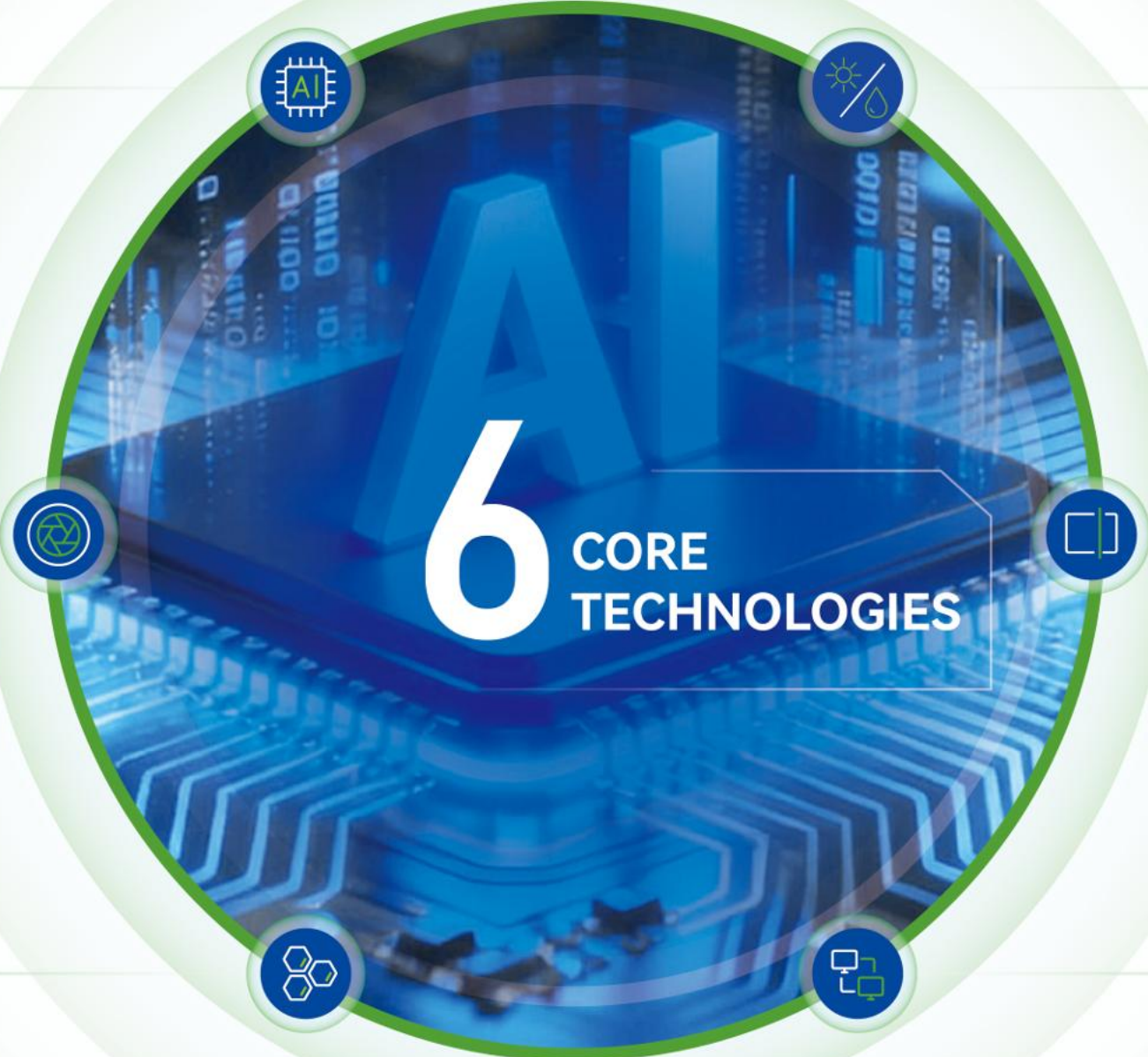
Innovative dry and wet sorting compatible technology, precise adaptation to materials of all humidity levels, compatible with sorting of both dry and wet materials, ensuring sorting accuracy and efficiency under all working conditions, and adaptable to diverse production sorting scenarios.

## 05 BRAND-NEW UV SORTING TECHNOLOGY

Utilizing ultraviolet fluorescence excitation and a high-sensitivity imaging system, and combining the characteristic that specific minerals emit unique fluorescence under ultraviolet light exposure with an intelligent recognition system, more precise ore separation can be achieved.

## 06 REMOTE DEBUGGING SYSTEM

It enables full-screen remote debugging, with rapid response, reducing downtime and enhancing maintenance efficiency.



PRODUCT INTRODUCTION

Q3 SERIES

Sortable size  
4-15cm



Core Technology

AI-powered

Utilizing AI deep learning algorithms, we have customized a dedicated model for large-grained ores, enabling precise handling of ore sorting for various varieties and shapes.

Dry-wet separation

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

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) |
|---------------|----------------------|------------------|--------------------|---------------------------------|--------------------------|--------------------------|----------------------|---------------------|
| Q2-412-512    | 1200                 | 50-80            | > 99               | > 10 : 1                        | 11.45                    | 380V/50Hz                | 4381*2240*1976       | 2180                |

Note: The specific parameters above may vary depending on the environment, material, and impurity content

K2 SERIES

Sortable size  
0.5-4cm



Core Technology

AI-powered

Utilizing AI deep learning algorithms, we have customized a dedicated model for small-particle ores, enabling precise handling of ore sorting for various varieties and shapes.

Dry-wet separation

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

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) |
|---------------|----------------------|------------------|--------------------|---------------------------------|--------------------------|--------------------------|----------------------|---------------------|
| KS412-256-AI  | 1200                 | 15-20            | > 99               | > 10 : 1                        | 5.8                      | 380V/50Hz                | 4589*1800*1970       | 960                 |
| KS422-512-AI  | 1200                 | 15-20            | > 99               | > 20 : 1                        | 7.5                      | 380V/50Hz                | 4615*2040*2506       | 1700                |
| KS612-384-AI  | 1800                 | 20-30            | > 99               | > 10 : 1                        | 6.7                      | 380V/50Hz                | 4956*2400*1965       | 1200                |
| KS622-768-AI  | 1800                 | 20-30            | > 99               | > 20 : 1                        | 12.5                     | 380V/50Hz                | 5260*2660*2515       | 2210                |

Note: The above sorting performance is exemplified by ores with a size of 1-3cm and a contamination content within 15%. Specific parameters may vary depending on the environment, material, and contamination content

# UV series

## PRINCIPLE

Utilizing the unique fluorescence characteristics that specific ores exhibit under ultraviolet (UV) irradiation, this phenomenon can be utilized for sorting. All 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

## MARBLE



## CALCIUM CARBONATE



## COBBLESTONE



## POTASSIUM FELDSPAR



## QUARTZ



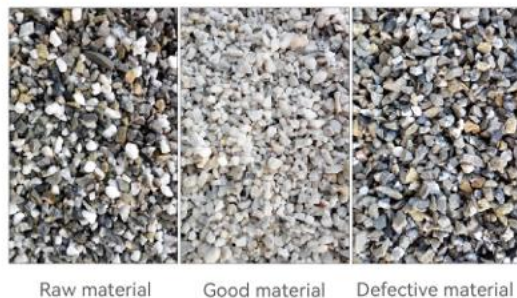
## RAIN FLOWER PEBBLE



## TALC



## BARITE



# SORTING DEMONSTRATION

## MAGNESITE



Raw material    Good material    Defective material

## CALCITE



Raw material    Good material    Defective material

## METALLIC SILICON



Raw material    Good material    Defective material

## COPPER MINE



Raw material    Good material    Defective material

## LITHIUM ORE



Raw material    Good material    Defective material

## WOLLASTONITE



Raw material    Good material    Defective material

## FLUORITE



Raw material    Good material    Defective material

## TUNGSTEN ORE



Raw material    Good material    Defective material

# 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.

