

# Color Sorting Machine

## Product Description

We offer two types of color sorters to meet different sorting needs: chute color sorters and crawler-type color sorters (also known as belt-type color sorters or belt-type color sorters). These sorters primarily use intelligent recognition technology to quickly identify impurities, discolored particles, or defects (such as mold, stones, and plastics) in the material and precisely remove them through airflow.

## COLOR SORTING MACHINES



# TWO STYLES



**Chute color sorter**



**Crawler color sorter**

Model	Power	Voltage	Air Source Pressure	Air Consumption	Dimensions	Weight	Processing Capacity	Packaging Dimensions
0.5channel	0.5kw	220V	0.6-0.8mpa	0.1-0.3m <sup>3</sup> /min	42*110*132cm	100kg	0.2-0.4t/h	125*62*150cm
1channel	0.8kw	220V	0.6-0.8mpa	0.3-0.8m <sup>3</sup> /min	88*150*176cm	300kg	0.8-1.5t/h	110*168*210cm
2channel	1.3kw	220V	0.6-0.8mpa	0.5-1.0m <sup>3</sup> /min	131*150*176cm	400kg	1.2-2.5t/h	165*167*210cm
3channel	1.9kw	220V	0.6-0.8mpa	0.8-1.5m <sup>3</sup>	165*150*176	500kg	2.5-4t/h	195*167*210cm

	w			/min	cm			
4channel	2.4kw	220V	0.6-0.8mpa	1.0-2.0m <sup>3</sup> /min	198*150*176 cm	650kg	3-3.5t/h	230*167*210cm
5channel	3kw	220V	0.6-0.8mpa	1.3-2.1m <sup>3</sup> /min	232*150*176 cm	800kg	4.0-8t/h	260*167*210cm
6channel	3.6kw	220V	0.6-0.8mpa	2.0-3.5m <sup>3</sup> /min	266*150*176 cm	1000kg	5.0-10t/h	300*167*210cm
7channel	4.1kw	220V	0.6-0.8mpa	2.5-4.3m <sup>3</sup> /min	300*150*176 cm	1200kg	6.0-12t/h	322*167*210cm
8channel	4.7kw	220V	0.6-0.8mpa	3.0-4.5m <sup>3</sup> /min	333*150*176 cm	1400kg	7.0-14t/h	350*167*210cm
9channel	5.2kw	220V	0.6-0.8mpa	5.0-6.5m <sup>3</sup> /min	367*150*176 cm	1800kg	8.0-15t/h	415*167*210cm
10channel	5.7kw	220V	0.6-0.8mpa	6.0-7.0m <sup>3</sup> /min	400*150*176 cm	2200kg	9.0-16t/h	450*167*211cm
11channel	6.2kw	220V	0.6-0.8mpa	6.5-7.5m <sup>3</sup> /min	433*150*176 cm	2600kg	10.0-17t/h	485*167*212cm
12channel	6.7kw	220V	0.6-0.8mpa	7.0-8.0m <sup>3</sup> /min	466*150*176 cm	3000kg	11.0-18t/h	500*167*213cm

Model	Power	Voltage	Air Source Pressure	Air Consumption	Dimensions	Weight	Processing Capacity	Packaging Dimensions
FXS-300	1.25KW	220V	0.6-0.8mpa	0.3-0.8m <sup>3</sup> /min	295*95*170cm	550kg	500-600t/h	305*105*195cm
FXS-600	1.6KW	220V	0.6-0.8mpa	0.5-1.0m <sup>3</sup> /min	295*130*170cm	640kg	800-1000t/h	305*140*195cm
FXS-1200	2.7KW	220V	0.6-0.8mpa	1.0-2.0m <sup>3</sup> /min	295*165*170cm	950kg	1200t/h	305*175*195cm

## Product Application

**Food Industry:** Widely used in sorting grains (like rice, wheat, soybeans), nuts, and vegetables (such as garlic, chili, onions, green peppers).

**Other Industries:** Applicable for sorting materials in industries like mining (with Belt - type Ore Color Sorter) where color - based sorting of particles is required.

# Raw material



Finished product



Raw material



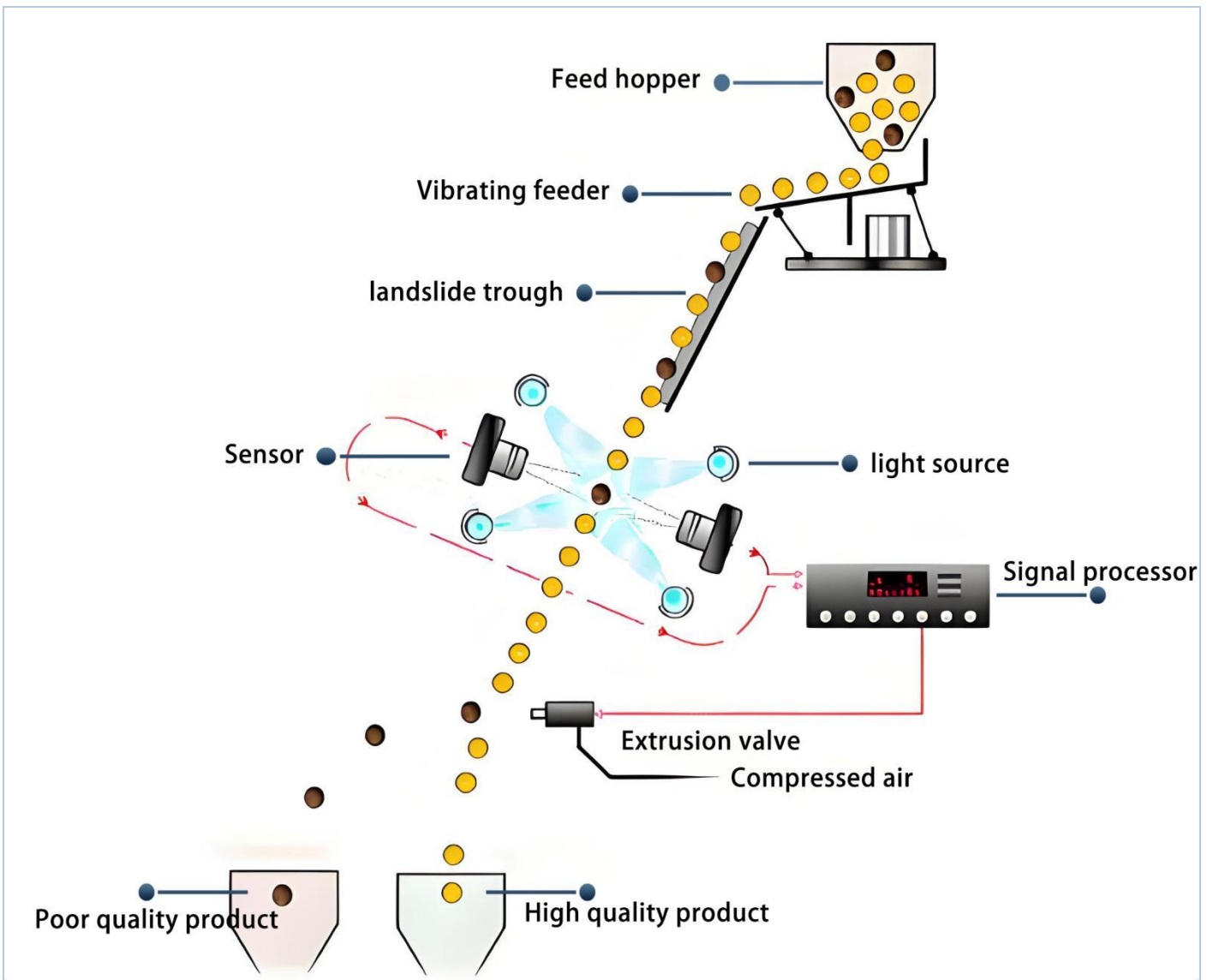
Finished product



### Working Principle

Both sorters utilize advanced optical detection systems. When products pass through the sorting area, high-resolution cameras capture images of the products. The intelligent software then analyzes the color information of

each product. For products that do not meet the set color standards (indicating inferior quality or being of a different color), high - speed ejection devices remove them, while qualified products of the desired color pass through smoothly. The Chute color sorter relies on the flow of materials through a chute for sorting, while the Crawler - type Color Sorter (Belt - type Color Sorter) uses a belt to transport materials, enabling continuous and efficient sorting of larger or irregular items.



## Product Features

- 1. High-Precision Sorting:** Advanced image recognition technology accurately distinguishes subtle color differences and shape features, achieving high sorting accuracy and effectively improving product quality.
- 2. Intelligent Operation:** Equipped with a user-friendly smart screen, it's easy to operate. Users can easily set sorting parameters, monitor the sorting process in real time, and flexibly adjust the sorting process to meet specific needs.
- 3. Efficient and Stable:** The chute-type color sorter uses the rapid flow of materials through the inspection area, while the crawler-type color sorter relies on a stable crawler conveyor, enabling continuous and efficient operation. Both systems offer high stability and a low failure rate.
- 4. Customized Services:** We offer customized services tailored to specific customer needs, including optimization

of equipment size, sorting capabilities, and processing capacity to meet the needs of diverse production scenarios.

## TWO MODELS



**Chute color sorter**



**Crawler color sorter**



### Product Advantages

- 1.Precision Sorting :** With advanced optical and sensing technologies, both sorters can achieve high - precision color sorting, ensuring the purity and quality of the sorted products.
- 2.Customization :** We offer customization services. Whether adjustments for specific product sizes, colors, or sorting precision are needed, we can tailor the Color Sorter to meet exact customer requirements.
- 3.Versatility :** Beyond food processing, our Belt - type Color Sorter has potential applications in other industries, such as being a Belt - type Ore Color Sorter for mineral sorting.



## FEED HOPPER

This is a stainless - steel feed hopper with a tapered shape, smooth inner surface, and a middle partition for even material distribution.

## DELIVERY METHOD

The color sorter has two feeding and discharging conveying methods: chute type and crawler (belt) type.



Chute type

Crawler type



## SMART HD SCREEN

This intelligent screen, with a built - in HD camera, enables precise color and product quality distinction.

## INSIDE THE DISCHARGE PORT

The internal structures of the color sorter's discharge end include chute - type and crawler (belt) - type.



Chute type

Crawler type

### Product Packaging & Shipping

#### 1. Packaging

In order to ensure the safety of the product during transportation, we have adopted strict packaging measures. The main body of the equipment will be fully wrapped with high-strength plastic film to prevent erosion by dust, moisture, etc. during transportation, and to avoid damage due to collision during transportation.

In terms of overall packaging, the equipment will be loaded into a customized wooden box. The wooden box has a sturdy structure and is equipped with a special fixing device inside, which can firmly fix the equipment and prevent the equipment from shaking in the wooden box. At the same time, the name, model, weight, transportation precautions and other information of the equipment will be clearly marked on the wooden box, which is convenient for transportation and handling personnel to identify and operate.

#### 2. Transportation

For international customers, sea transportation is mainly used. Before loading, the equipment will be strictly inspected and reinforced to ensure that the equipment is not damaged during long-term sea transportation. At the same time, we will cooperate with professional freight forwarding companies to handle relevant transportation procedures and insurance, and provide customers with one-stop transportation services, so that customers have no worries.



After the machine test is completed, we will wrap the machine with plastic wrap to avoid scratches



Put the plastic film packed machine into wooden box



1set machine/package  
Wooden Case Packing



# FACTORY SHOWCASE



LIVE SHOT



## Company Introduction:

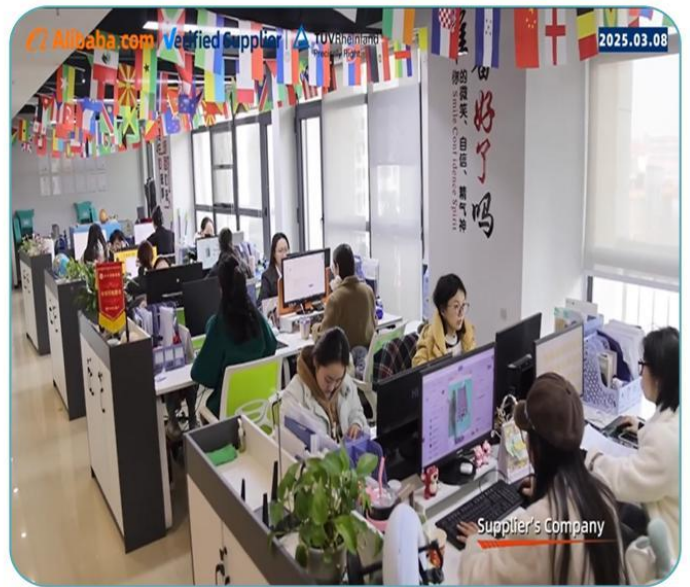
Zhengzhou Runxiang Machinery Equipment Co., Ltd. is an enterprise focusing on the research and development, production and sales of agricultural and food processing equipment. Over the years, it has been committed to providing customers with high-quality, high-performance equipment and perfect solutions. The company has a team of professional engineers, technicians and sales staff who have rich experience and expertise in their respective fields.

In terms of research and development, the company continues to invest a lot of resources, pays attention to the latest technology and market demand in the industry, and has established cooperative relations with many scientific research institutions and universities at home and abroad to jointly carry out technical research and product innovation. Through continuous efforts, the company has launched a series of advanced equipment with

independent intellectual property rights, including this fully automatic dumping machine.

In the production process, the company strictly follows the international quality management system, from the procurement of raw materials to the assembly and testing of products, every link is strictly controlled to ensure the stable and reliable quality of the products. The company has a modern production base and advanced production equipment, which can meet the customized needs of different customers for equipment.

## COMPANY INTRODUCTION





## Customer visits

Zhengzhou Runxiang Machinery Equipment Co., Ltd. has attracted many customers from various countries to visit, including Armenia, Tanzania, Cote d'Ivoire, etc. Customers personally inspected and communicated, demonstrating the attractiveness and influence of our company in the international market.

# CUSTOMER VISIT



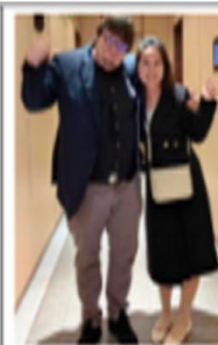
**ARMENIA**



**Tanzania**



**Côte d'Ivoire**



**Germany**



**Congo**



**Cameroon**



**South Africa**



**Ethiopia**



**Thailand**



**Uzbekistan**



**India**



**Ghana**