哈维特
HAWIT

合肥哈维特光电科技有限公司

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Deep Learning
Sorting Technology

Intelligent Sorting Master

High Precision · High Output

COMPANY PROFILE
公司简介

Hefei HAWIT optoelectronic Technology Co., Ltd., located in Hefei, China, is a high-tech enterprise specializing in the R&D, manufacturing and sales of intelligent sorting equipment. After years of development, it has become a large-scale intelligent sorting equipment production base with nearly 100 employees and a total output value of more than 100 million yuan.

Strict quality management system to ensure the quality of the company's products and services, in the country and even the world started the "HAWIT" brand. "Color sorting, we are everywhere" is Hawit's pursuit and commitment to color sorting technology.The market share of "HAWIT" brand series intelligent color sorters is in the forefront and has been successfully exported to more than 60 countries and regions.

Hefei HAWIT optoelectronic Technology Co., Ltd. will adhere to its mission, be full of pride, adhere to the core values of "customer first, quality excellence, innovation leadership, fairness and justice", use technology and strength to pool strength, promote the upgrading of the intelligent manufacturing industry, and implement the mission of "intelligent change, easier work, and better life"!

100 People — Employees

100+ Million Yuan — Total output value



高精度 · 高产量
High Precision · High Output



Grain Color Sorter



Rice Color Sorter



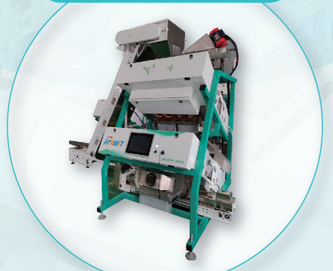
Infrared Color Sorter

产品目录
PRODUCT CATALOG

Belt Color Sorter



Tea Color Sorter



Mini Color Sorter



Rice Color Sorter
大米色选机



Functional Features

- Double-row concentrating LED light source, intelligent dimming, 16 million kinds of mixed color, energy saving and more durable.
- Color reduction degree algorithm, clear and more real. Integrate light,quality , color and shape to restore the real color of material and improve the accuracy of color selection.
- Central positioning and elimination, marking the material's center point, resulting in higher accuracy.



Full-size screen operating system
12-inch high-resolution full-size large screen + one-button boot + remote debugging.

Excellent camera image acquisition system
5400CCD industrial lens with multi-spectral confocal technology and the smallest resolution of 0.015mm, accurate rejection of evil impurities, glass.

Superalloy high-frequency solenoid valve
The integrated structure can achieve accurate elimination of more than 800 times per second, helping with greater output and lower loss.

Technical Parameter

Model	HWT-G2	HWT-G3	HWT-G4	HWT-G5	HWT-G6	HWT-G7	HWT-G10
Output (t/h)	0.5-4	1.0-5.0	1.5-6.0	2.0-7.0	2.5-8.0	3.0-9.0	4.0-11.0
Accuracy (%)	⩾99.99	⩾99.99	⩾99.99	⩾99.99	⩾99.99	99.99	⩾99.99
Optimal Carryover Rate (Bad:Good)	>80:1	>80:1	>80:1	>80:1	>80:1	>80:1	>80:1
Weight (kg)	680	840	1000	1165	1310	1505	2050
Minimum Resoultion (mm)	0.015mm	0.015mm	0.015mm	0.01 5mm	0.01 5mm	0.015mm	0.015mm
Air Consumption (m³/min)	0.5-1.0	0.8-1.5	1.0-2.0	1.3-2.1	2.0-3.5	2.5-4.3	5.0-6.5
Power (Kw)	1.5	2.0	2.4	3.0	3.6	4.2	6.0
Dimension (L*W*H/mm)	1244*1570*2090	1564*1570*2090	1864*1570*2090	2184*1570*2090	2500*1570*2090	2814*1570*2090	3756*1570*2090
Power Input (V/Hz)	220/50(110/60)	220/50(110/60)	220/50(110/60)	220/50(110/60)	220/50(110/60)	220/50(110/60)	220/50(110/60)

Grain Color Sorter
杂粮色选机



Functional Features

New design
Adopt the German industrial design concept to make the structure design is more stable, optimized for electrical and optical design, improved machine life and stability.

The brand-new AI intelligent sorting
Independent learning to distinguish good and bad materials, no manual intervention, automatic intelligent sorting.



New large-screen operating
15-inch high resolution large screen, optimize the operation interface, the key information at a glance.

Excellent Camera Image Acquisition System
5400 CCD, industrial lens with multi-spectrum confocal technology, the minimum resolution of 0.015mm, accurate removal of evil and miscellaneous, glass.

New image processing algorithm
Simulation processing algorithm, simplify imaging, minimalist operation, so that you do not learn to use the color selection machine.

Superalloy high-frequency solenoid valve
The integrated structure can achieve accurate elimination of more than 800 times per second, helping greater output and loss Lower.

Technical Parameter

Model	HWT-2S	HWT-3S	HWT-4S	HWT-5S	HWT-6S	HWT-7S	HWT-10S
Output (t/h)	0.5-4	1.0-5.0	1.5-6.0	2.0-7.0	2.5-8.0	3.0-9.0	4.0-11.0
Accuracy (%)	⩾99.99	⩾99.99	⩾99.99	⩾99.99	⩾99.99	99.99	⩾99.99
Optimal Carryover Rate (Bad:Good)	>20:1	>20:1	>20:1	>20:1	>20:1	>20:1	>20:1
Weight (kg)	680	840	1000	1165	1310	1505	2050
Minimum Resoultion (mm)	0.015mm	0.015mm	0.015mm	0.01 5mm	0.01 5mm	0.015mm	0.015mm
Air Consumption (m³/min)	0.5-1.0	0.8-1.5	1.0-2.0	1.3-2.1	2.0-3.5	2.5-4.3	5.0-6.5
Power (Kw)	1.5	2.0	2.4	3.0	3.6	4.2	6.0
Dimension (L*W*H/mm)	1244*1570*2090	1564*1570*2090	1864*1570*2090	2184*1570*2090	2500*1570*2090	2814*1570*2090	3756*1570*2090
Power Input (V/Hz)	220/50(110/60)	220/50(110/60)	220/50(110/60)	220/50(110/60)	220/50(110/60)	220/50(110/60)	220/50(110/60)

Infrared Color Sorter
红外色选机



Functional Features

Internal detection

Dual Infrared

Artificial Intelligence

By building an AI-based separation model, HAWIT enables the detection of complex internal defects such as insect damage and hemicracks that cannot be sorted by conventional optical color separation machines.

External detection

RGB

Shape

In addition to color selection based on shape and size, we used advanced RGB cameras to eliminate subtle color differences.

- Five optical wavelengths (red, green, blue, IR 1, IR 2) and advanced AI sorting and shape sorting.
- The combination of these features enables to examine the external and internal characteristics of the product.



Technical Parameter

Model	HWT-1IR	HWT-2IR	HWT-3IR	HWT-4IR	HWT-5IR
Output (t/h)	0.5-1.5	1.0-3.0	1.5-4.5	2.0-6.0	2.5-7.5
Accuracy (%)	⩾99	⩾99	⩾99	⩾ 99	⩾99
Optimal Carryover Rate (Bad:Good)	⩾10:1	⩾10:1	⩾10:1	⩾10:1	⩾10:1
Weight (kg)	625	795	1050	1300	1560
Power (Kw)	1.7	2.1	2.9	3.8	4.7
Dimension (L*W*H/mm)	1574*940*2090	1574*1244*2090	1574*1558*2090	1574*1872*2090	1574*2186*2090
Power Input (V/Hz)	220/50(110/60)	220/50(110/60)	220/50(110/60)	220/50(110/60)	220/50(110/60)

Belt Color Sorter
履带色选机



MSDC-1200



MSSC-1200

Functional Features

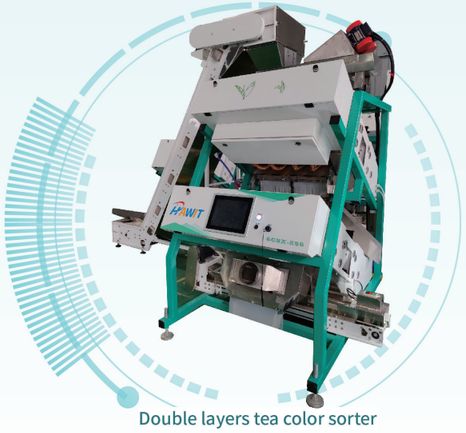
- Targeted solution to the rolling material jumping problem, the material movement is more stable.
- Double-layer design, upper layer sorting, lower layer re-selection, optimize the carry-out ratio, improve the accuracy of color sorting.
- Slow flat throwing system, material distribution is more uniform, flat throwing is more uniform.
- Dual-layer customized algorithm, achieving arbitrary exchange of accept and rejection, optimizing output ratio.
- High-quality soft materials, high-quality soft material, the crushing problem can be effectively solved.
- Latest industrial design, with better structure and higher stability.
- Remote control, real-time interaction, artificial intelligence intervention, intelligent visualization.

Technical Parameter

Product series		Model	Dimension (L*W*H/mm)	Weight (kg)	Conveyor Speed (m/s)	Frequency (Hz)	Power Input (V)	Power (Kw)	Output (kg/h)	Accuracy (%)
Slow speed	single layer	MSDC-300	2890*1350*1735	860	0.8	50/60	220/380	3	250-500	⩾99
		MSDC-600	3895*1650*1735	1020	0.8	50/60	220/380	4	500-1000	⩾99
		MSDC-1200	3895*2250*1735	1340	0.8	50/60	220/380	5.5	1000-3000	⩾99
	double layer	MSSC-1200	4246*2760*2709	2880	0.8	50/60	220/380	10.5	1000-5000	⩾99

Tea Color Sorter
茶叶色选机


Single layer tea color sorter


Double layers tea color sorter

Functional Features

Deep learning / Artificial intelligence (AI)	Equipped with deep learning technology, achieving excellent color sorting, shape sorting, and material sorting functions, suitable for line sorting of small-leaf tea such as black tea, green tea, and yellow tea.
Intelligent Shape Selection Technology	By extracting material shape information, accurately identifying shape differences such as length/circle, length/short, large/small, etc., to meet diversified grading needs.
Intelligent anti-crushing Technology	Through targeted positioning removal and soft landing design, reduces material stress and maximizes control of rushing.
NIR Infrared identification technology (optional)	It can solve all various foreign objects that cannot be recognized by traditional color sorters, such as woven bags, cigarette butts, insects, plastics, stones, etc., greatly improving the quality of tea leaves.
Superalloy high-frequency solenoid valve (electro-magnetic ejector):	The integrated structure is capable of achieving precise ejecting of over 800 times per second, helping to achieve greater output and lower wastage.
High-frequency vibrator	Adopting a high-frequency vibrator, a compact structure, high efficiency, and more stable material falling.

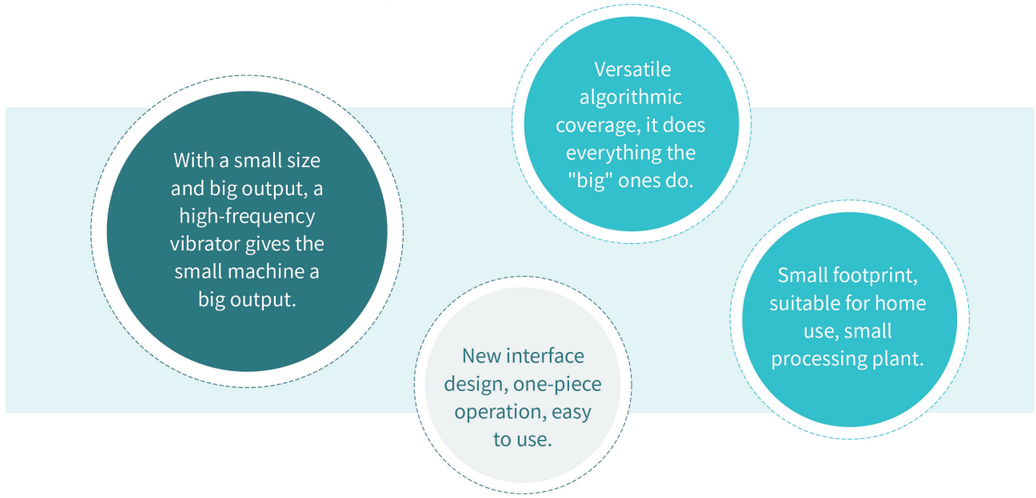
Technical Parameter

Name	Model	Power (Kw)	Air Source Pressure (MPa)	Capacity (kg/h)	Dimension (L*W*H/mm)	Weight (kg)	Accuracy (%)
Single layer tea color sorter	6CSX-128	1.5	0.5-0.8	⩽150	1555*1620*1663	450	⩾99
Double layers tea color sorter	6CSX-252	3.1	0.5-0.8	⩽200	1650*1970*2702	780	⩾99
	6CSX-504	5.2	0.5-0.8	⩽300	2435*1970*2702	1450	⩾99

Mini Color Sorter
微型机



Functional Features



Technical Parameter

Model	Output (t/h)	Accuracy (%)	Carryover Rate (Bad:Good)	Power (Kw)	Dimension (L*W*H/mm)	Weight (kg)
HWT-32C	0.3-0.5	⩾99.9	>12:1	0.8	446×1146×1580	175
HWT-63C	0.6-1.0	⩾99.9	>30:1	1.0	1110×1250×1580	350
HWT-80C	0.8-1.5	⩾99.9	>80:1	0.9	950×1750×1620	280

高精度 · 高产量

High Precision · High Output

CUSTOMER SITE

客户现场










ENTERPRISE STRENGTH

企业实力



















