

MAKE LIFE SECURE AND QUALITY



TCS-GB SERIES

DOUBLE LAYER CONVEYOR INTELLIGENT OPTIC SORTER



For oily materials, water-bearing materials, ores, easily broken nuts, dehydrated garlic, cereals, dehydrated vegetables, Chinese medicinal materials, condiments and other complex sorting, grade problems, Techik double layer conveyor intelligent optic sorter Through the independent research and development of intelligent algorithms, we can tailor flexible intelligent sorting solutions for customers, effectively replace manual and improve production efficiency. Through the double layer conveyor structure, the equipment can carry on the upper sorting, the lower resort, processing capacity is larger, the sorting rate is higher, less carryover ratio, help enterprises improve product output and quality, reduce loss.



INTELLIGENCE ALGORITHM

Techik independent research and development of AI algorithm, can simulate AI image recognition. Recognition of nuts, seed kernel, Chinese herbal medicine, vegetables and other materials foreign matter and foreign color, abnormality, surface texture problems. Sorting efficiency, accuracy, environmental adaptability and other aspects have significantly improved. Can effectively replace manual sorting.



FLEXIBLE SOLUTIONS

Through the intelligent algorithm, Techik double layer conveyor intelligent optic sorter can distinguish the defect categories, such as the identification of moth-eaten defects, mechanical damage and other defects of different categories, according to the needs of customers to define the need to detect and eliminate the defect range, to fit the customer's personalized material classification requirements.



DOUBLE LAYER CONVEYOR STRUCTURE










Techik double layer conveyor intelligent optic sorter high efficiency and stable transmission system, convenient belt replacement, for easy to break the fragile materials have better protection, lower breakage, double layer conveyor structure design makes this equipment to the upper material sorting, the lower resort, improve product yield and sorting rate, reduce the good material to be bring out.



INTELLIGENT REJECTION

Intelligent double layer conveyor optic sorter use high-performance rejector valve, with longer service life, can adjust different intelligent elimination mode according to different unqualified products, to achieve lower power consumption, higher efficient rejection function, to ensure long-term stable working.

> SCOPE OF APPLICATION

MATERIAL	REJECTS
 <p>PEANUT</p>	<p>Color defect: Pollution dark, rust yellow.</p> <p>Appearance: Leopard pattern, bud, bread grain, mildew, damaged, atrophy, disease spot.</p> <p>Foreign matter : shell, rod, thin plastic, thin glass, clay, stone, plastic tie, buttons, cigarette butts, etc.</p>
 <p>SUNFLOWER SEEDS</p>	<p>Color defect : dark pollution, yellow, other color defect.</p> <p>Appearance: Mosaic, three prism, multiple connection seed, mildew, tear, damage, wormhole, atrophy, defect spots</p> <p>Foreign matter: shell, sunflower stem, thin plastic, thin glass, clay, stone, plastic tie, buttons, cigarette butts, etc.</p>
 <p>DRIED CHILLI</p>	<p>color defect : dark pollution, other color defect.</p> <p>Appearance: parti-color, damaged, mildew.</p> <p>Foreign matter : stem, rod, thin plastic, thin glass, clay, stone, plastic tie, buttons, cigarette butts, etc.</p>
 <p>GARLIC SLICES</p>	<p>color defect : dark pollution, light green yellow, other color defect.</p> <p>Appearance: smaller, damaged, mildew, germination.</p> <p>Foreign matter : thin plastic, thin glass, clay, stone, plastic tie, buttons, cigarette butts, etc.</p>
 <p>ASTRAGALUS ROOT SLICES</p>	<p>Color defect : dark pollution, other color defect.</p> <p>Appearance: malformed, too long, too small, damaged, red core, mildew.</p> <p>Foreign matter : thin plastic, thin glass, clay, stone, plastic tie, buttons, cigarette butts, etc.</p>
 <p>RADIX OPHIOPEGONIS</p>	<p>Color defect : dark pollution, other color defect.</p> <p>Appearance: rust spot, damaged, irregular shape, fullness, atrophy, too short.</p> <p>Foreign matter : fibrous root, thin plastic, thin glass, clay, stone, plastic tie, buttons, cigarette butts, etc.</p>
 <p>CHINESE PEPPER</p>	<p>Color defect : dark red, green, other color defect.</p> <p>Appearance: connecting branch.</p> <p>Foreign matter: Seeds, rods, snail shells, thorns, thin plastic, thin glass, clay, stone, plastic tie, buttons, cigarette butts, etc.</p>
 <p>WALNUT KERNEL</p>	<p>Color defect : dark pollution, other color defect.</p> <p>Appearance: smaller, damaged, mildew, maigri.</p> <p>Foreign matter: shell, diaphragma juglandis, thin plastic, thin glass, clay, stone, plastic tie, buttons, cigarette butts, etc.</p>
 <p>BADANMU KERNEL</p>	<p>Color defect : dark pollution, other color defect.</p> <p>Appearance: smaller, split, damaged, worm hole, maigri, plumpness.</p> <p>Foreign matter :shell, thin plastic, thin glass, clay, stone, plastic tie, buttons, cigarette butts, etc.</p>
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> SORTING RESULTS



Raw material of peanut



Accept peanut



Defective peanut



Peanut kernel raw material



Accept peanut kernel



Defective peanut kernel



Sunflower seed material



Accept sunflower seed



Defective sunflower seed



Pumpkin kernel material



Accept pumpkin kernel



Defective pumpkin kernel



Dried chilli material



Accept dried chilli



Defective dried chilli



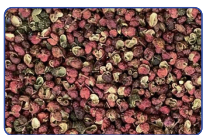
Chilli cut material



Accept chilli cut



Defective chilli cut



Pepper material



Accept pepper



Defective pepper



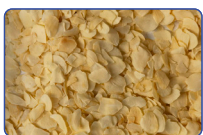
Black pepper material



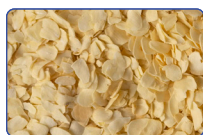
accept black pepper



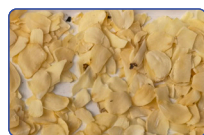
Defective black pepper



Garlic slice raw material



Garlic slice accept



Garlic slice reject



Radix Astragali raw material



Radix Astragali accept



Radix Astragali reject



Radix Ophiopogonis raw material



Radix Ophiopogonis accept



Radix Ophiopogonis reject



Glycyrrhiza raw material



Glycyrrhiza accept



Glycyrrhiza reject



Walnut raw material



Walnut accept



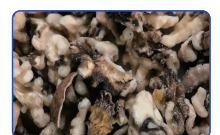
Walnut reject



Walnut kernel raw material



Walnut kernel accept



Walnut kernel reject



Badanmu raw material



Badanmu accept



Badanmu reject



Badanmu kernel raw material



Badanmu kernel accept



Badanmu kernel reject

> DETAILED DESCRIPTION



Double layer conveyor intelligent optic sorter (small vibrator)



Double layer conveyor intelligent optic sorter (large vibrator)

LIST OF TECHNICAL INDICATORS

NAME	MODEL	NUMBER OF EXECUTION UNITS	Machine POWER	POWER VOLTAGE	AIR PRESSURE	AIR CONSUMPTION	DIMENSIONS(MM)	MACHINE WEIGHT
TCS-GB-BD SERIES	GB600-BDS (Small vibrator)	4 × 63	4.5 kW	180~240V	0.6~0.8MPa	≤2.4 m ³ /min	3850×1500×2650	1900kg
	GB1200-BDS (Small vibrator)	8 × 63	6.5 kW			≤4.5 m ³ /min	3850×2100×2650	2100kg
	GB600-BDS (Large vibrator)	4 × 63	4.5 kW	50Hz		≤2.4 m ³ /min	5050×1500×2500	2200 kg
	GB1200-BDS (Large vibrator)	8 × 63	6.5 kW	≤4.5 m ³ /min		5050×2100×2500	2500 kg	

Note :1. This parameter takes peanut as an example (impurity content is 2%), and the specific parameter index varies with different materials and impurity content.

2. Product is subject to change without notice, subject to the actual machine.

LIST OF PERFORMANCE INDICATORS

ITEMS	PERFORMANCE SPECIFICATION
15 inch LCD screen	★
Visible light ultra resolution sensor	★
Compound eye lighting system	★
Anti-crushing ejector	★
Geometric center location	★
Soft reject	☆
Shape sorting and size recognition	super configuration
AI sorting scheme	Peanuts, sunflower seeds, Macadamia nuts, walnuts, pepper, Dangshen, Astragalus slices, Ophiopogon, etc

ITEMS	PERFORMANCE SPECIFICATION
Malignant impurities sorting	Plastic, stones, insect carcasses, glass, etc
Ejector life	>5,000 millions times
LED Visible light life	>50000h
Power supply life	>50000h
Enhanced point-to-point dust remove system	☆
Sorting cabinet long distance protection	★
Waterproof and sealed IP65	☆
Super drive structure	☆

Note: ★ indicates standard configuration. ☆ Represents optional. —Indicates none.

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