

AI Multifunctional Chute Optical Sorter



AI large-model technology for the sorting industry

From recognition to understanding, and from chute sorting to intelligent factory operation.

PRODUCT ADVANTAGES

• High-Purity Sorting

Multispectral and ultra-high-definition AI vision supports color, shape, micro-impurity and appearance sorting. It detects mold spots, insect damage, paper scraps, hair, film fragments and dust clusters.

• High Throughput

A streamlined structure and efficient pneumatic system improve material handling efficiency and overall output.

• Self-Learning

Recognition accuracy improves through continuous data iteration.

• Stable Operation

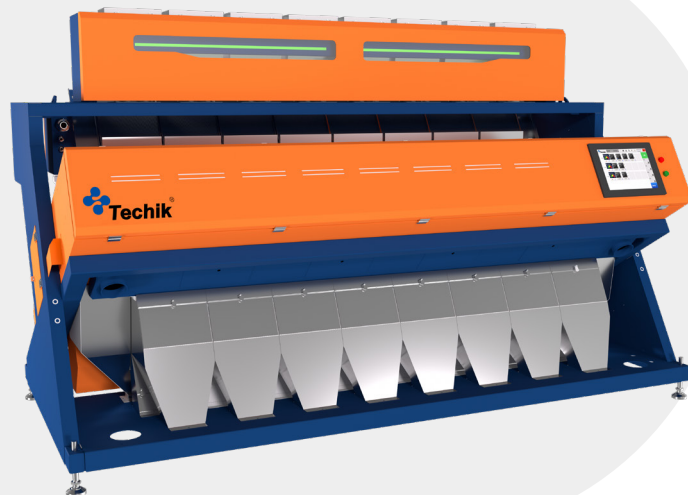
Industrial-grade hardware provides strong interference resistance and stable operation in complex environments.

• Easy Operation

A simplified appliance-style interface reduces the operating threshold and makes setup and management easier.

• Smart O&M

IoT connectivity supports remote monitoring, data analysis and online upgrades for process optimization and intelligent maintenance.



APPLICATIONS

Grains, oil crops, tea, Chinese medicinal herbs, dehydrated vegetables, nuts and seeds, and recycled plastics. Typical materials include rice, wheat, soybeans, rapeseed, green tea, black tea, astragalus, angelica, dehydrated radish, sunflower seeds and recycled plastic flakes.

Specifications										
Model	TCS-DS1T	TCS-DS2T	TCS-DZ3T	TCS-DZ4T	TCS-DZ5T	TCS-DZ6T	TCS-DZ7T	TCS-DZ8T	TCS-DZ10T	TCS-DZ12T
Ejector Units	1×63	2×63	3×63	4×63	5×63	6×63	7×63	8×63	10×63	12×63
Total Power	1.0 kW	1.5 kW	2.0 kW	2.5 kW	3.0 kW	3.4 kW	3.8 kW	4.2 kW	4.8 kW	5.5 kW
Air Consumption	≤0.8 m³/min	≤1.2 m³/min	≤1.8 m³/min	≤2.4 m³/min	≤2.8 m³/min	≤3.2 m³/min	≤3.8 m³/min	≤4.2 m³/min	≤5.0 m³/min	≤6.0 m³/min
Dimensions	950×1675×1650	1260×1675×1650	1700×1700×2020	2000×1700×2020	2250×1700×2020	2650×1700×2020	3000×1700×2040	3280×1700×2040	3900×1700×2040	4500×1700×2040
Weight	480 KG	650 KG	800 KG	980 KG	1200 KG	1400 KG	1700 KG	1880 KG	2200 KG	2700 KG
Air Pressure	0.6–0.8 MPa									
Display	15-inch Display									
Network Communication	4G (Wireless / Wired)									
Processor	Board-Level Chip Processor									
Camera Configuration	2048×2048									
Solenoid Valve	High-Pressure Low-Pulse Ejector Valve System									
Solenoid Valve Service Life	>15 Billion Cycles									
Light Source Service Life	>100000 h									
Body Material	Carbon Steel / Stainless Steel									
Environmental, Electrical & Operating Specifications										
Operating Temperature	0–40 °C									
Power Supply	220 V, AC, 50/60 Hz									

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