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PROVIDE A COMPLETE SET OF SORTING & INSPECT SOLUTIONS

BUILD A PERFECT ANTI-CONTAMINANT SYSTEM TO HELP FULLY REALIZE 0 IMPURITY



● Metal Detector → ● Color Sorter → ● X-ray Inspection System → ● Weighing & Filling → ● Checkweigher



THE SOLUTION OF COFFEE BEANS

INTELLIGENT SORTING

INTELLIGENT HIGH DEFINITION
HIGH PRECISION HIGH YIELD

TECHIK INSTRUMENT (SHANGHAI) CO., LTD



NEW GENERATION

FULLY UPGRADED PERFORMANCE,
FUNCTION & APPEARANCE





MINI COLOR SORTER TCS SERIES

- It is small in size and does not take up space. It can be used in scientific research institutes, small coffee bean sorting households and other occasions where production requirements are not high.
- Equipped with a high resolution 5400 pixel full-color sensor, high resolution snapshot function, ultra-high-speed linear scanning speed, improvement of the ability to accurately identify little defects.
- Intelligent multiple-type and easy-sorting algorithm system, with one-key setting of sorting modes. Equipped with a quadruple quick-installation high-frequency injection valve, which reduces the installation space, increases productivity, has a wide range of applications, and is highly flexible.
- The whole machine can be equipped with stainless steel full anti-corrosion treatment body, which is suitable for food, coffee bean, condiment, mineral industries and laboratories.



X-RAY INSPECTION SYSTEM FOR BULK PRODUCTS TXR SERIES

- Techik 48-channel air blowing X-ray machine can simultaneously perform online detection of foreign objects with different attributes. The unique 27-level image analysis technology separates the foreign objects from the product layer by layer, so as to achieve accurate and efficient detection of foreign objects. The addition of 48-channel high-speed spray valve rejection system achieves greater output, lower losses, and higher returns.
- Suitable for the sorting and detection of bulk materials such as peanuts, nuts, beans and other agricultural products and of small-bag packaging materials, bringing greater output, higher precision, and less raw materials to carry out.



COMPACT COLOR SORTER TCS SERIES

- Small size, small space occupation, 5400 pixel camera, strong applicability for occasions with low output.
- Equipped with a high resolution 5400 pixel full-color sensor, high resolution snapshot function, ultra-high-speed linear scanning speed, improvement of the ability to accurately identify little defects.
- Intelligent multiple-type and easy-sorting algorithm system, with one-key setting of sorting modes. Equipped with a quadruple quick-installation high-frequency injection valve, which reduces the installation space, increases productivity, has a wide range of applications, and is highly flexible.
- The whole machine can be equipped with stainless steel full anti-corrosion treatment body, which is suitable for food, coffee bean, condiment, mineral industries and laboratories.



CONVEYOR BELT METAL DETECTOR IMD SERIES

- Made of materials, with the original phase tracking, product tracking and automatic balance correction functions, the detection sensitivity and stability of the metal detector have been improved, and the detection range is wider. The optimized circuit structure can keep the detection accuracy constant in a wide speed range.
- Based on the II-generation machine, new functions such as dual-channel detection, high and low frequency switching, etc., have improved the detection performance and adaptability of the equipment. For products with more types and greater differences, different frequency detection can be replaced to improve the detection effect. The panel adopts double-row LED strips, which is simple and beautiful.



GRAVITY FALL METAL DETECTOR IMD SERIES

- Detecting and rejecting metal contaminants in powder and particles.
- Using flip-type rejection, increasing production capacity and production efficiency.
- A variety of probes are available for option, which is an indispensable testing equipment on the particle production line.
- Optimized the main board circuit parameters, compared with the previous accuracy and stability have been significantly improved.



CHECKWEIGHER FOR LARGE PACKAGES IXL SERIES

- High-speed, high-precision, high-stability dynamic detection, with high-precision sensors.
- Instead manual to complete the re-inspection of the weight of large package goods, with continuous and efficient inspection as you go.
- Can be connected with front-end packaging equipment, improve production line efficiency.
- Ensure the stability of packaging weight, maximum reinspection accuracy (3σ) ± 2g.
- Applicable scope: woven bags, plastic bags, aluminum foil bags, vacuum packaging, etc.



HIGH-QUALITY COFFEE BEANS COME FROM PROFESSIONAL SORTING

EASY TO SORTING AND CHOOSE TECHIK

TECHIK EQUIPMENT POWERFUL SORTING FUNCTION CAN ELIMINATE MORE THAN 30 KINDS OF MALIGNANT IMPURITIES

COLOR SORTER CONFIGURATION INDEX LIST

UNIT	ITEM CONTENT		CHUTE COLOR SORTER			CONVEY BELT COLOR SORTER	
	ITEM	TECHNICAL DESCRIPTION	TCS™ SERIES	TCS SERIES	TCS+ SERIES	TCS SERIES	TCS+ SERIES
Core components	15 inch touch screen	Strong anti-interference ability, high resolution, high brightness	-	★	★	★	★
	10-inch touch screen	Strong environmental resistance, high temperature and low temperature resistance	★	-	-	-	-
	Swing arm touch-screen structure	Can be rotated 180 degrees at any Angle	-	-	-	★	★
	Full color ultra-definition sensor	Full color, 5400 pixels, 0.08mm per pixels	-	★	★	★	★
	Natural cold lighting system	Full orientation light, no blind Angle	-	★	★	★	★
	Colorful background light	Can change different background color	-	★	★	★	★
	Imported high frequency valve	Imported from Italy	☆	☆	☆	☆	☆
	Preferred customize high frequency valve	Preferred customize ultra-high speed valve	★	★	★	★	☆
Core technology	Linear high frequency vibrator	The material can be evenly transported to the feeding place	★	★	★	★	★
	Easy sorting technology	Independent research and development of AI intelligent technology	★	★	★	★	★
	Hd snapshot	It can realize 8 times magnification of photos	★	★	★	★	★
	Easy operate software with touch screen	Easy operation interface	★	★	★	★	★
	Shape sorting function	Shape recognition technology	★	★	★	★	★
	High speed shape sorting technology	Can be used in high speed and large capacity condition	☆	☆	☆	☆	☆
	Tracking and rejecting function	Improve the rejection accuracy of ejector	☆	★	★	★	★
	High pressure low pulse width spray valve system	Ejector high-speed response technology, improve the drive efficiency	★	★	★	★	★
Life indicators	Ejector life	Optimize the response speed of ejector valve	>5 billion	>5 billion	>5 billion	>5 billion	>5 billion
	Lighting Life	24 hours of continuous service life	>50000 h	>50000 h	>50000 h	>50000 h	>50000 h
	Design Life of Whole Machine	High strength frame design concept	>50000 h	>50000 h	>50000 h	>50000 h	>50000 h
	Contact material part	Stainless	★	★	★	★	★
Machine structure	Anti-crushing treatment	Buffer optimized structure design	★	★	★	★	★
	Equipment framework	All stainless steel anti-corrosion treatment	☆	☆	☆	☆	☆
Configuration	Taiwan Mingwei Industrial power supply	Taiwan Mingwei special power supply is preferred	★	★	☆	★	☆
	SMC Pneumatic Unit	SMC Pneumatic Unit is preferred	-	☆	★	★	★
	YSC Pneumatic Unit	YSC Pneumatic Unit is preferred	-	★	☆	☆	☆

Note: the above parameters are measured at room temperature 25°C, raw material containing 2% impurities, specific indicators vary with different environments, materials and impurities; ★ represents the standard; ☆ Represents optional; - None

COLOR SORTER TECHNICAL INDEX LIST

CATEGORY	SERIES	MODEL	CAPACITY	NUMBER OF EXECUTION UNITS	POWER	RATED VOLTAGE	AIR PRESSURE	GAS CONSUMPTION	SPECIFICATION & DIMENSION	WEIGHT
Mini series	TCS	IT-MI	0.3 ~ 1.0t/h	32	0.8kW			≤0.3m³/min	1214×426×1412	150kg
Chute series	TCS/TCS+	1T	0.6 ~ 1.2t/h	64	1.0kW	180 ~ 240V 50Hz	0.6 ~ 0.8MPa	≤0.6m³/min	1030×1600×1600	400kg
		2T	1.0 ~ 2.5t/h	128	1.5kW			≤1.2m³/min	1330×1660×2185	615kg
		3T	2.0 ~ 4.0t/h	192	2.0kW			≤2.0m³/min	1645×1660×2185	763kg
		4T	3.0 ~ 6.0t/h	256	2.5kW			≤2.4m³/min	2025×1660×2185	915kg
		5T	3.0 ~ 8.0t/h	320	3.0kW			≤2.8m³/min	2355×1660×2185	1250kg
		6T	4.0 ~ 9.0t/h	384	3.4kW			≤3.2m³/min	2670×1660×2185	1450kg
		7T	5.0 ~ 10.0t/h	448	3.8kW			≤3.5m³/min	2985×1660×2195	1650kg
		8T	6.0 ~ 11.0t/h	512	4.2kW			≤4.0m³/min	3300×1660×2195	1850kg
Single belt series	TCS/TCS+	10T	8.0 ~ 14.0t/h	640	4.8kW			≤4.8m³/min	4100×1660×2195	2250kg
		300S	0.7 ~ 1.3t/h	63	1.5kW			≤1.5m³/min	3780×1050×2000	950kg
		600S	1.0 ~ 2.6t/h	126	2.0kW			≤2.5m³/min	3780×1350×2000	1100kg
		900S	2.0 ~ 4.0t/h	189	3.0kW			≤3.0m³/min	3780×1650×2000	1250kg
		1200S	3.0 ~ 6.0t/h	252	4.5kW			≤4.5m³/min	3780×1950×2000	1400kg
		300SD	0.7 ~ 1.3t/h	126	-			-	-	-
Double layer belt series	TCS/TCS+	600SD	1.0 ~ 2.6t/h	252	-	-	-	-	-	-
		900SD	2.0 ~ 4.0t/h	378	-	-	-	-	-	-
		1200SD	3.0 ~ 6.0t/h	504	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-

Note: This parameter table takes coffee bean as an example (containing 2% impurity), the specific parameters vary with different materials and impurity content; The product is subject to update without prior notice. This machine does not attach conveyor, air supply system and other auxiliary equipment, optional; The whole machine can be equipped with stainless steel anti-corrosion models.

X-RAY INSPECTION SYSTEM FOR BULK PRODUCTS TECHNICAL INDEX

CATEGORY	SERIES	MODEL	MAXIMUM DETECTION WIDTH	MAXIMUM DETECTION HEIGHT	X-RAY SOURCE	REJECTER MODE	OPTIMUM DETECTION ACCURACY	
							Stainless steel ball	Stainless steel wire
Low speed type		4080LP	400mm	50mm	MAX.80KV210W	32valves blowing out	Φ0.3mm	Φ0.2*2mm
High speed type	TXR	4080GP	400mm	50mm	MAX.80KV350W	48valves blowing out	Φ0.3mm	Φ0.2*2mm
High speed type		6080GP	400mm	50mm	MAX.80KV350W	72valves blowing out	Φ0.3mm	Φ0.2*2mm

CONVEY BELT METAL DETECTOR TECHNICAL INDEX

CATEGORY	SERIES	MODEL	detection width	detection height	belt width	loading capacity	Optimum detection sensitivity	
							Fe ball	SUS304
II型	IMD	4008	400mm	80mm	360mm	10kg	Φ0.5mm	Φ1.2mm
		4012		120mm			Φ0.6mm	Φ1.5mm
		4015		150mm			Φ0.7mm	Φ1.5mm
		4018		180mm			Φ0.8mm	Φ2.0mm
III型	IMD	5020	400mm	200mm	460mm	100kg	Φ1.0mm	Φ2.0mm
		5025		250mm			Φ1.2mm	Φ2.5mm
		-		-			-	-

POWDER PARTICLES METAL DETECTOR TECHNICAL INDEX

SERIES	DETECTION DIAMETER (mm)	A (mm)	B (mm)	C (mm)	D (mm)	DETECTION CAPACITY (t/h) ^{①②}	REJECTER MODE	PRESSURE REQUIREMENT	POWER	MAIN MATERIAL	DETECTION SENSITIVITYΦD(mm) ^{③④}	
											Fe	SUS
IMD-I-P	50	486	182	696	661	1	Automatic flap rejecter	≥0.5MPa	180 ~ 240V 50Hz	SUS304	0.5	1.2
	75	486	224	738	665	3					0.5	1.2 ~ 1.5
	100	537.5	256	882	665	5					0.7	1.5
	150	666	324	1032	665	10					0.8	1.5

Note: The optimal detection accuracy mentioned by the above X-Ray inspection system for bulk products and metal detector is in the state of empty machine, and the actual detection accuracy is subject to the accuracy of the tested product; Metal detector can be selected to exclude a variety of ways, detailed consultation sales representative; Product is subject to change without notice, subject to the actual machine shall prevail; The above machine specifications are standard specifications, other sizes and special requirements can be customized.

Note 1: When the above detection sensitivity is in the state of empty machine, the actual detection sensitivity is affected by the product environment, or changes due to the different position of metal mixing.

Note 2: The inspection capacity per hour is related to the specific gravity of the product. The density of the object (water) measured in the table is 1000kg/m³.



MULTIFUNCTION COLOR SORTER TCS SERIES

- Equipped with a high resolution 5400 pixel full-color sensor, high resolution snapshot function, perfect restoration of the true color of the material, 8 times magnification of photos, ultra-high-speed linear scanning speed, improvement of the ability to accurately identify little defects.
- The intelligent multiple-type easy-sorting algorithm system enhances parallel analysis and processing capabilities, with one-key setting of sorting modes, which can realize multiple color independent sorting, normal sorting, reverse sorting, multiple sorting, etc., so eventually achieving the durable and stable sorting with more prominent effect.
- High-brightness LED cold light source, shadowless lighting, to ensure stable and durable lighting environment.
- Targeted dust removal system and anti-breakage system, design for coffee bean sorting.

MULTIFUNCTION CONVEY BELT COLOR SORTER TCS SERIES

- Equipped with a high resolution 5400 pixel full-color sensor, high resolution snapshot function, perfect restoration of the true color of the material, 8 times magnification of photos, ultra-high-speed linear scanning speed, improvement of the ability to accurately identify little defects.
- The intelligent multiple-type easy-sorting algorithm system enhances parallel analysis and processing capabilities, with one-key setting of sorting modes, which can realize multiple color independent sorting, normal sorting, reverse sorting, multiple sorting, etc., so eventually achieving the durable and stable sorting with more prominent effect.
- High-brightness LED cold light source, shadowless lighting, to ensure stable and durable lighting environment.
- Efficient and stable transmission system, convenient for belt replacement, good for protecting fragile materials, with wide range of use and high sorting efficiency, special for green coffee bean.

