BELT-TYPE & CHUTE-TYPE **OPTICAL SORTERS**



Optical sorters automatically detect and eliminate defective materials in bulk products using advanced optoelectronic technology. Systems identify visual differences, and compare against user-defined criteria – swiftly remove defective product and contaminants, or separate products by grade/type.

Applications

Identify and sort foreign matter and impurities in...

- Nuts Seeds Spices
 - Grains
- Beans
- Rice
- Plastics Snacks
- Fresh/Frozen/Dehydrated Fruits & Vegetables











Example: Raw Almonds (Whole & Kernels)



Whole Almonds





Reject



Almond Kernels



Accept



Reject

Detect and reject even the smallest contaminants -Protect your product, your customers, and your business!



Disease Spots



Half Kernels



Damaged



Insect Bites



Mildew



Empty Shells













Animal Droppings

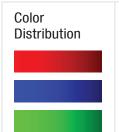


Cigarette Butts

System Highlights

Intelligent Algorithms + Deep Learning

• TDI Packsys's advanced AI inspection suite learns your products, and inspects based on:



Shape Distribution



Subtle Quality & Size Differences



Foreign Contaminants



- Detect subtle color differences even those unable to be discerned manually.
- Identify Foreign objects and defective products through differences in shape and size.
- Infrared technology identifies foreign objects made of different materials - even nuts and shells with similar shapes can be identified.
- Achieve unprecedented levels of inspection with custom inspection programing tailored to your products and process.



Key Features

- LED & broad-spectrum lighting + IR & near-IR imaging detects translucent material and foreign material that's same as product
- High-precision ejection system minimize false rejects of good product
- Customized Al inspection algorithms ensures maximum detection based on shape, size, color, and material composition

Chute-Type Optical Sorter

- Customized industrial wide-angle lens; ultra clear 5400-pixels CCD sensors delivers fully enhanced imaging
- Combining color sorting and shape sorting maximizes sorting accuracy



Model	Channel Number	Total Power	Voltage	Air Pressure	Max. Air Consumption	Dimensions (L x D x H)	Weight
CS-3T	3 X 63	8.7 A	220-240V, 60Hz	87-116 PSI	70.6 CFM	66" x 63" x 80"	1650 lbs
CS-4T	4 X 63	10.9 A			84.8 CFM	78" x 63" x 80"	1980 lbs
CS-5T	5 X 63	13 A			98.9 CFM	88" x 63" x 80"	2650 lbs
CS-6T	6 X 63	14.8 A			113 CFM	103" x 63" x 80"	3090 lbs
CS-7T	7 X 63	16.5 A			123.6 CFM	117" x 63" x 80"	3530 lbs
CS-8T	8 X 63	18.2 A			141.3 CFM	129" x 63" x 80"	3970 lbs
CS-10T	10 X 63	20.9 A			169.5 CFM	141" x 63" x 80"	4850 lbs
CS-12T	12 X 63	23 A			190.7 CFM	169" x 63" x 80"	5730 lbs

Belt-Type Optical Sorter

- · Identifies foreign materials and product abnormalities based on color, shape and size
- Intelligent algorithms identify insect-eaten defects, mechanical damage, and other physical irregularities



Model	Number	Power	Voltage	Pressure	Consumption	L x D x H (mm)	Weight
	2 X 63	10.9 A	220-240V, 60Hz	87-116 PSI	42.4 CFM	152" x 59" x 79"	2430 lbs
	4 X 63	17.4 A			84.8 CFM	152" x 83" x 79"	3090 lbs
CS-DB-B-C	6 X 63	20.9 A			113 CFM	152" x 113" x 79"	3530 lbs
	2 X 63	11.7 A			42.4 CFM	198" x 59" x 79"	2650 lbs
	4 X 63	18.3 A			84.8 CFM	198" x 83" x 79"	3310 lbs

Note: Product models and specifications are subject to change. For more information, contact TDI Packsys.

TDI Packsys



TDI Packsys is a premier provider of inspection solutions and packaging automation systems. Our expert team is dedicated to delivering state-of-the-art solutions that meet your budget. Contact us to see how we can help optimize your operation.







There's More

Inspection Systems

- Metal Detectors
- X-Ravs
- Checkweighers
- Color Sorters
- Combo SystemsVision Systems

Packaging Automation

- Palletizers
- Flow Wrappers
- Form, Fill & Seal
 Robotic Packing
- Scaling & Dosing