



CF SERIES COLOR SORTER



Main Features

Increased Productivity

- ◆ Dedicated digital sorting engine to deliver high speed sorting
- ◆ Wide flat chutes to increase throughput

Maximized Sorting Yield

- ◆ High speed and precise ejection to minimize good product in reject
- ◆ Resort capability reclaims good product from reject

Highest Sorting Accuracy

- ◆ High speed, high resolution, full color RGB CCD camera (2048 pixels) to detect tiny defects
- ◆ Advanced imaging technology to sort defects with minimum contrast
- ◆ Enclosed feeding system to provide better feeding and chute protection
- ◆ Infrared sorting (optional) to effectively sort foreign materials

User Friendly Operation

- ◆ High resolution touch screen with user-friendly graphics
- ◆ Real time monitor of machine status
- ◆ Easy software upgrade with USB

Ejection

- ◆ Specially made ejectors and optimized timing for low carryover, reduced air consumption
- ◆ Dual air supply for stable air pressure under high defect sorting



Real-time Machine Status Monitor



RGB CCD Sensor (2048 pixels)



Novel Dedicated Special Ejection System



New Generation FPGA Processor



Optional NIR Technology



Large Touch Screen Panel

Technical Data(CF Series)

Model	CF3	CF6	CF7
Channels	180	300	420
Capacity(lbsh)	4,500-22,000	7,000-35,000	10,000-55,000
Electrical	Single phase, 110V/220V, 50/60Hz, 1.8Kw	Single phase, 110V/220V, 50/60Hz, 2.9Kw	Single phase, 110V/220V, 50/60Hz, 3.5Kw
Air Consumption	64 CFM @ 90-120 PSI	106 CFM @ 90-120 PSI	150 CFM @ 90-120 PSI
Weight	2,200	3,000	3,900
Size (L x W x H)in	57 x 63 x 84	82 x 63 x 84	103 x 63 x 84



R Series Color Sorter

New!

- * LED lighting
- * Remote control
- * Shape sorting



Main Features

Advanced Vision System:

- ◆ Specially designed optical to reduce shadow and distortion
- ◆ High speed, sensitive CCD camera with 2048 pixel resolution to detect tiny spot defects
- ◆ Optional NIR (Near Infrared) to detect foreign material with same color as good rice grain

Intelligent software and Powerful Digital Image Processing

- ◆ 4th Generation FPGA + high speed DSP to deliver power sorting algorithms
- ◆ Customized color model to support sophisticated defect processing including Spot, Area, Size defects
- ◆ Support multiple sorting modes to minimize product change over time
- ◆ Bi-chromatic (visible + NIR) sorting to support Light, Dark sort on both visible and NIR wavelengths, which cover all kinds of defects and foreign materials

Optimized Ejection

- ◆ Fast valve response to ensure accurate ejection on defects
- ◆ Optimized blow time to reduce good rice carried over into reject
- ◆ Ejection protection by hardware to save ejector life

Easy Operation

- ◆ Big touch screen graphic interface
- ◆ Automatic faults monitoring and alarm
- ◆ Configurable re-sort capability
- ◆ Remote debug and easy software upgrade by USB

Technical Data(R Series)

Model	R3	R5	R7
Channels	180	300	420
Capacity(lbsh)	4,500-22,000	7,000-35,000	10,000-55,000
Electrical	Single phase, 110V/220V, 50/60Hz, 1.8Kw	Single phase, 110V/220V, 50/60Hz, 2.9Kw	Single phase, 110V/220V, 50/60Hz, 3.5Kw
Air Consumption	64 CFM @ 90-120 PSI	106 CFM @ 90-120 PSI	150 CFM @ 90-120 PSI
Weight	2,000	2,800	3,500
Size (L x W x H)in	57 x 60 x 84	82 x 60 x 84	103 x 60 x 84

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LD60 Belt-type Color Sorter



Sorting samples



Cashew nut



Peeled peanut



Peeled broad bean



Broad bean

Advanced Vision System

- High sensitivity, high resolution CCD camera to detect tiny defects
- Special camera lens to minimize image distortion on edges
- High speed digital image processing to identify defects with weak color contrast

Proprietary Sorting Software

- Sophisticated defect processing algorithms with customized color model to enable precise defect identification
- Contrast Recognition Model to automatically adjust sensitivity when sorting environment changed
- Live monitoring of machine status, alarms on faults
- Multiple sorting modes to reduce time for product change over
- Easy software/firmware upgrade with USB

Stable Feeding

- Belt feeding to ensure stable product flow
- Predictable speed of product at scanline to achieve accurate ejection

Accurate Ejection

- Specially designed ejectors with fast response
- Long ejector life
- Easy for maintenance

Technical Support

- Remote troubleshooting & software upgrade
- Supported by domestic technical team

Technical Data (Belt Sorter)

Model	LD 60
Channels	60
Capacity(lbs/h)	3,000-8,000
Electrical	Two-phase 380V, Single phase, 110V/220V, 50/60Hz, 1.8Kw
Air Consumption	30 CFM @ 90-120 PSI
Weight (lb)	1,600
Size (L x W x H) in	110 x 59 x 73

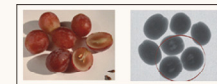
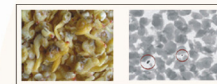
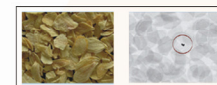


X-ray Foreign Object Detector



X-SM Sorting Machine for Bulk Materials

- Scan products in bulk
- Detect defect shapes: hollow hearts, pits etc
- Detect metal: metal, glass, rock, rubber



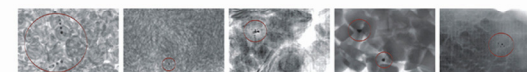
X-BT Foreign Object Detector for Bottles/Tin-packed Products

- Detect foreign objects in bottles and tins
- Two x-ray sources for improved accuracy
- Low power x-ray
- Easy to operate



X-BB Foreign Object Detector For Products in Bottles and Tins

- Detect foreign objects in bags and boxes
- Work for package made of aluminum, plastic, paper, glass, etc
- Detect foreign materials: metal, rock, ceramic, sand, shell, etc
- Advanced image processing capability to detect incomplete packed products
- Wide range of applications
- Easy to upgrade by USB
- Low power x-ray



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