

QMAX



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Multichannel Optical Sorter

The QMAX Multichannel Optical Sorter is built on a high-speed detection system and multichannel architecture, focusing on surface defect detection in agricultural products. Combining multi-angle inspection, high-resolution imaging, and intelligent recognition algorithms, it accurately identifies color variations, surface defects, foreign materials, and shape irregularities.

Model	QMAX
Screen Size	17 - inch
Air Guns	150 - 180
Air Pressure	0.6 Mpa
Air Consumption	1800 L / min
Power Rating	7.5 kW
Power Supply	220 V AC; 50 Hz

Machine Dimensions	Feeder Dimensions	Scanning Width	Cameras
4910 × 800 × 2115 mm	900 × 700 × 700 mm	600 mm	2 - 5
4910 × 1400 × 2115 mm	900 × 1300 × 700 mm	1200 mm	4 - 10
4910 × 2000 × 2115 mm	900 × 1900 × 700 mm	1800 mm	6 - 15
4910 × 2600 × 2115 mm	900 × 2500 × 700 mm	2400 mm	8 - 20

01

FULL-VIEW INSPECTION

Multi-angle inspection with 360° coverage and 8 - 20 high-resolution cameras for accurate surface defect detection.

02

MULTICHANNEL EFFICIENCY

10 - 20 configurable channels enable parallel processing and higher throughput in complex sorting tasks.

03

HIGH-SPEED OPERATION

Conveying speeds of 2.5 - 3 m/s support efficient processing with reliable performance in continuous operation.

04

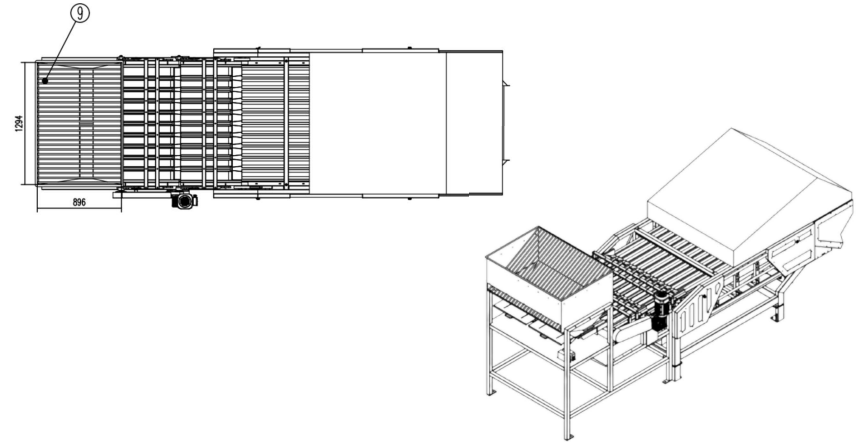
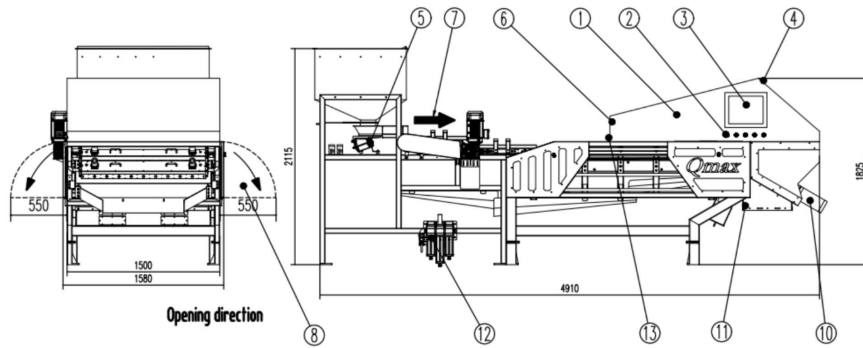
FLEXIBLE CLASSIFICATION

Supports 4-class sorting for flexible classification and more consistent results across different product types.

SPECIFICATIONS

High-throughput Processing and Capacity Optimization

With a multi-channel parallel architecture the QMAX Multichannel Optical Sorter increases processing capacity per unit time. It delivers stable throughput in complex sorting scenarios making it a key configuration for improving overall efficiency.



- 1 Color Sorter System
- 2 Control Units
- 3 Touch LCD Display
- 4 Signal Tower Red / Yellow / Green

- 5 Conveyor Belt
- 6 Blower Fan
- 7 Conveying Direction

- 8 Door Opening

- 9 Infeed Port

- 10 Accept Outlet 400 / 800 / 1200 / 1600 mm (W)

- 11 Reject Outlet 650 / 1300 / 1950 / 2600 mm (W)

- 12 Inlet Airpipe DN25 G1

- Intake Pressure 0.4 - 0.6 Mpa

- 13 Power Rating 7.5 kW

- Power Supply 220 V, 34 A

Model	Capacity	Scan Width	Sensor Configuration	Sorting Accuracy
QMAX	2-10 t/h (Varies by configuration)	600 - 2400 mm	RGB Optical Cameras	0.125 - 0.5 mm

Model	Frequency	Algorithm	Material	Operating Environment
QMAX	500 Hz	✓ Traditional	SUS 304 (3mm Thickness)	✓ -10 - 40 °C
	1 mm Interval	✓ Deep Learning		✓ AC IP55