

VALOR MINI



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X-Ray Imaging Sorter

The Valor Mini X-ray Imaging Sorter is designed for space-constrained and medium to small-scale production environments, delivering efficient and stable sorting in a compact footprint. With high-resolution X-ray inspection and dual RGB cameras, it detects internal defects and surface irregularities while maintaining accuracy, efficiency, and flexibility.

Model	VALOR MINI
X-Ray Output	320 W
X-Ray Leakage	< 0.2 uSv / h (without shielding)
Display Size	17 - inch
Air Guns	56
Machine Dimensions	2405 × 804 × 1882 mm
Feeder Dimensions	700 × 700 × 300 mm
Air Pressure	0.6 Mpa
Power Consumption	5.5 kW
Power Supply	220 VAC; 50 Hz

● 01

COMPACTNESS

Compact machine layout with a smaller footprint, ideal for space-limited environments. Enables efficient installation and improves line flexibility and space utilization.

● 03

STABILITY

Maintains stable detection and sorting accuracy during continuous operation. Delivers reliable performance across varying materials and processing conditions.

● 02

VERSATILITY

Combines X-ray and dual RGB cameras for synchronized detection of internal and surface defects. Accurately identifies mold, cracks, insects, and hollow shells.

● 04

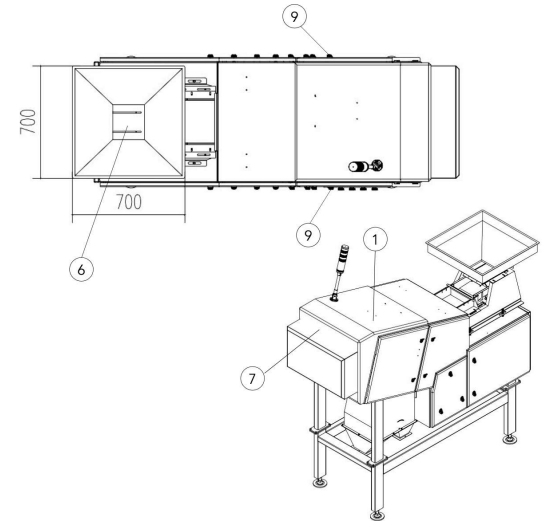
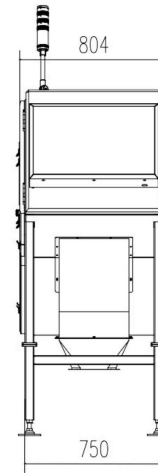
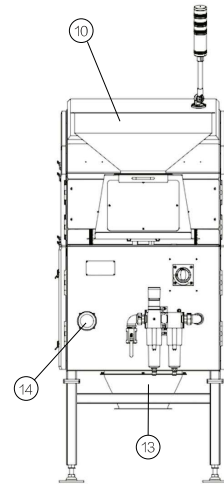
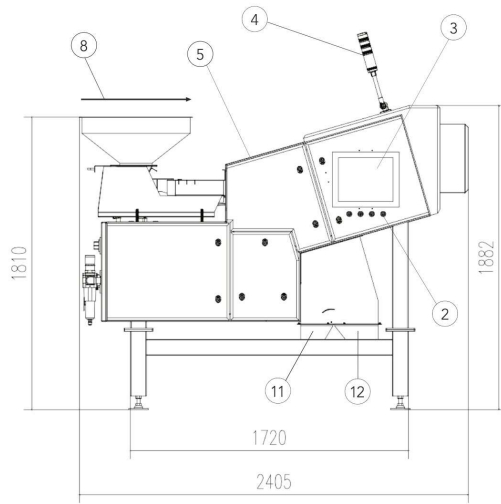
FLEXIBILITY

Adapts to different production line configurations and small-to-medium processing needs. Ensures precision while balancing efficiency and space utilization.

SPECIFICATIONS

Compact Design with Reliable Performance

Valor Mini Imaging Sorter delivers stable and efficient sorting performance while requiring minimal installation space. The balanced system design supports consistent throughput and high sorting precision allowing producers to maintain productivity and quality even in compact processing areas.



- 1 X-Ray System
- 2 Control Components
- 3 Touchscreen Display
- 4 Signal Tower Red / Yellow / Green
- 5 Protective Cover
- 6 Conveyor Belt
- 7 Air Conditioner
- 8 Conveying Direction
- 9 Door Opening
- 10 Infeed Port
- 11 Accept Chute 150 × 150 mm (L × W)
- 12 Reject Chute 110 × 240 mm (L × W)
- 13 Air Inlet DN25 G1 Connection
Air Pressure 0.4 - 0.6 MPa
- 14 Power Consumption 6 kW
Power Supply 220V, 28 A

Model	Capacity	Scan Width	Detection System	Resolution	Air Gun
Valor Mini	1 - 2 t/h	250 mm	X-Ray Camera	0.1 - 0.4 mm	500 - 1000 Hz Frequency
					5 mm Interval

Model	Radiation Protection	Algorithm	Material	X-Ray Tube	Operating Environment
Valor Mini	<ul style="list-style-type: none"> ✓ < 0.2 uSv/h ✓ Magnetic Shielding 	<ul style="list-style-type: none"> ✓ Traditional ✓ Deep Learning 	SUS 304 (3mm Thickness)	40 kV, 8 mA (320 W)	<ul style="list-style-type: none"> ✓ -10 - 40 °C ✓ ACIP55