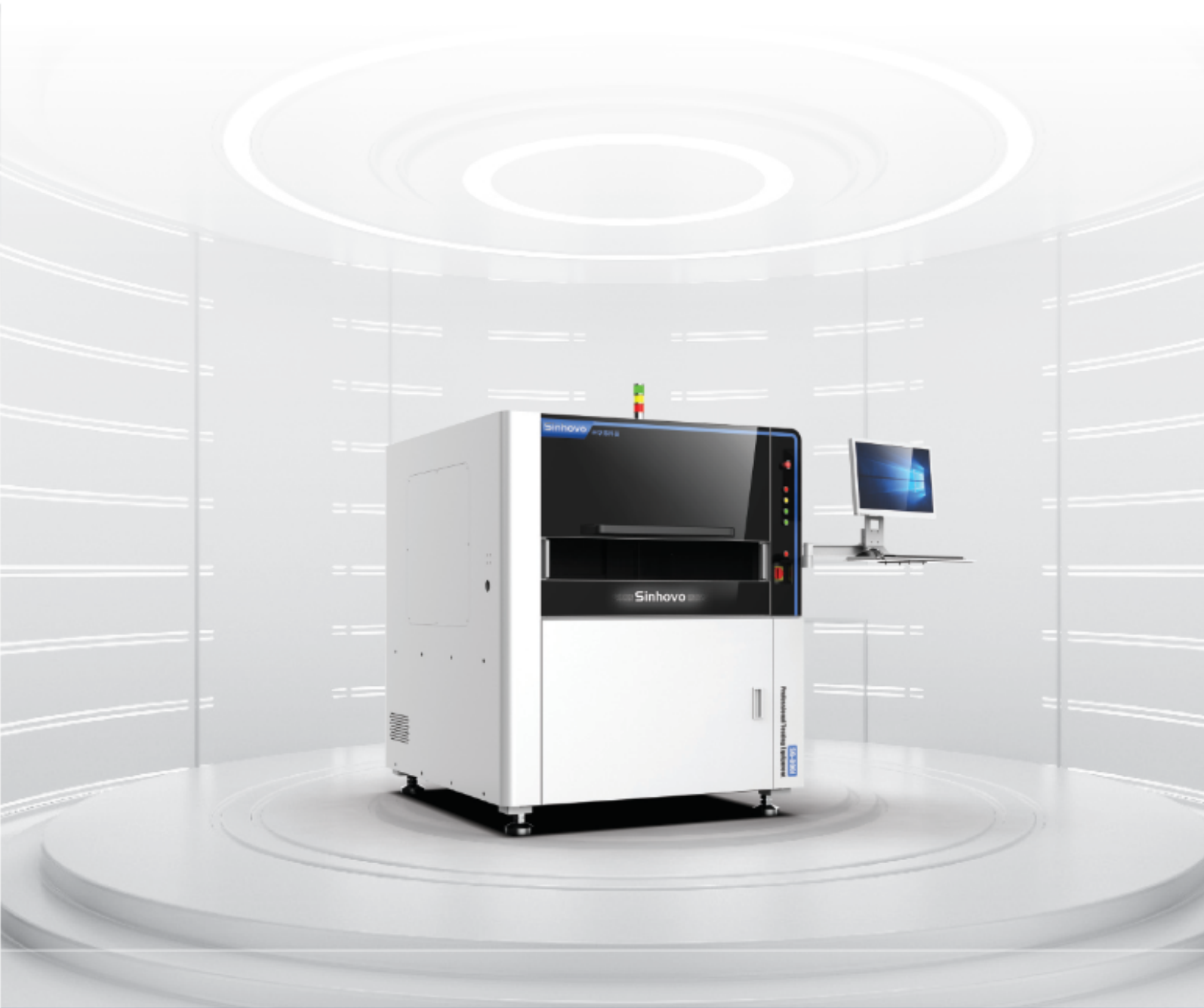


MODEL	SG800L	SG830
GENERAL		
Dimensions: L x W x H	1,300 x 1,600 x 1,700 mm	
Weight	Approx. 1,200 kg	Approx. 1,300 kg
Operating system	Windows 11	
Gantry structure	Full marble platform	
Transmission system	DC motor + 3 grating scales for closed-loop position control (±1 μm resolution)	Linear motor + 3 grating scales for closed-loop position control (±1 μm resolution)
Power supply	AC 220V±10%, single phase, 50/60 Hz, 1000VA	
Air pressure	0.4 - 0.55 MPa	
PRODUCT		
Stencil frame size	300 x 300 x 45 mm - 800 x 1,200 x 45 mm	
Maximum effective inspection area	610 x 680 mm	
Stencil placement method	Automatic width adjustment and clamping	
INSPECTION SYSTEM		
Inspection items	Position, size, quantity, foreign object, tension, burr, excessive aperture	
Inspection speed	0.7 - 1.2 s/FOV	
Dimension measurement accuracy	±4.6 - 6.9 μm (One pixel), GR&R <5%	±3.45 - 6.9 μm (One pixel), GR&R <5%
Area measurement accuracy	±2%, GR&R <5%	±1%, GR&R <5%
Positioning accuracy	±7 μm, GR&R <5%	±3 μm, GR&R <5%
Tension check accuracy	±1 N/cm (Range: 0 - 60 N)	±1 N/cm (Range: 0 - 60 - 100 N)
Minimum size of aperture opening	50 x 50 μm (by 4.6 μm) / 80 x 80 μm (by 6.9 μm)	40 x 40 μm (by 3.45 μm) / 80 x 80 μm (by 6.9 μm)
Maximum size of aperture opening	12 x 8 mm (by 4.6 μm) / 18 x 10 mm (by 6.9 μm)	9 x 6 mm (by 3.45 μm) / 18 x 10 mm (by 6.9 μm)
Minimum detection pitch	40 μm (by 4.6 μm) / 80 μm (by 6.9 μm)	30 μm (by 3.45 μm) / 80 μm (by 6.9 μm)
Maximum quantity of aperture opening	0.5 million	1.2 million
OPTICAL SYSTEM		
Camera	12 MP	12 MP (Optional: 25 MP)
Lens	12 MP custom dual-side telecentric optical lens	
Lighting	Top: Ring LED top light, coaxial LED light source; Bottom: High-power green coaxial LED light	
Resolution	4.6 - 6.9 μm/pixel	3.45 - 6.9 μm/pixel
Equipment measurement resolution	0.2 μm	
FOV size	18 x 14 mm (by 4.6 μm) / 28 x 21 mm (by 6.9 μm)	14 x 10 mm (by 3.45 μm) / 28 x 21 mm (by 6.9 μm)
Laser focusing	Automatic	
PROGRAMMING		
Programming method	Gerber file programming, importing CAD file	
Programming time	2 - 5 mins (For up to 10,000 apertures)	
STANDARD FEATURES		
Aperture opening inspection		
Tension check		
Deformation detection		
Barcode scanning		
Offline programming		
Statistical process control (SPC)		
OPTIONAL FEATURES		
Stencil thickness measurement (3D)		
Squeegee flatness inspection		
Upgrade to 25 MP camera		
Upgrade to larger size (Max. stencil frame size of 1,200 x 900 x 60 mm, max. effective inspection area of 780 x 980 mm)		
High-precision calibration glass plate		



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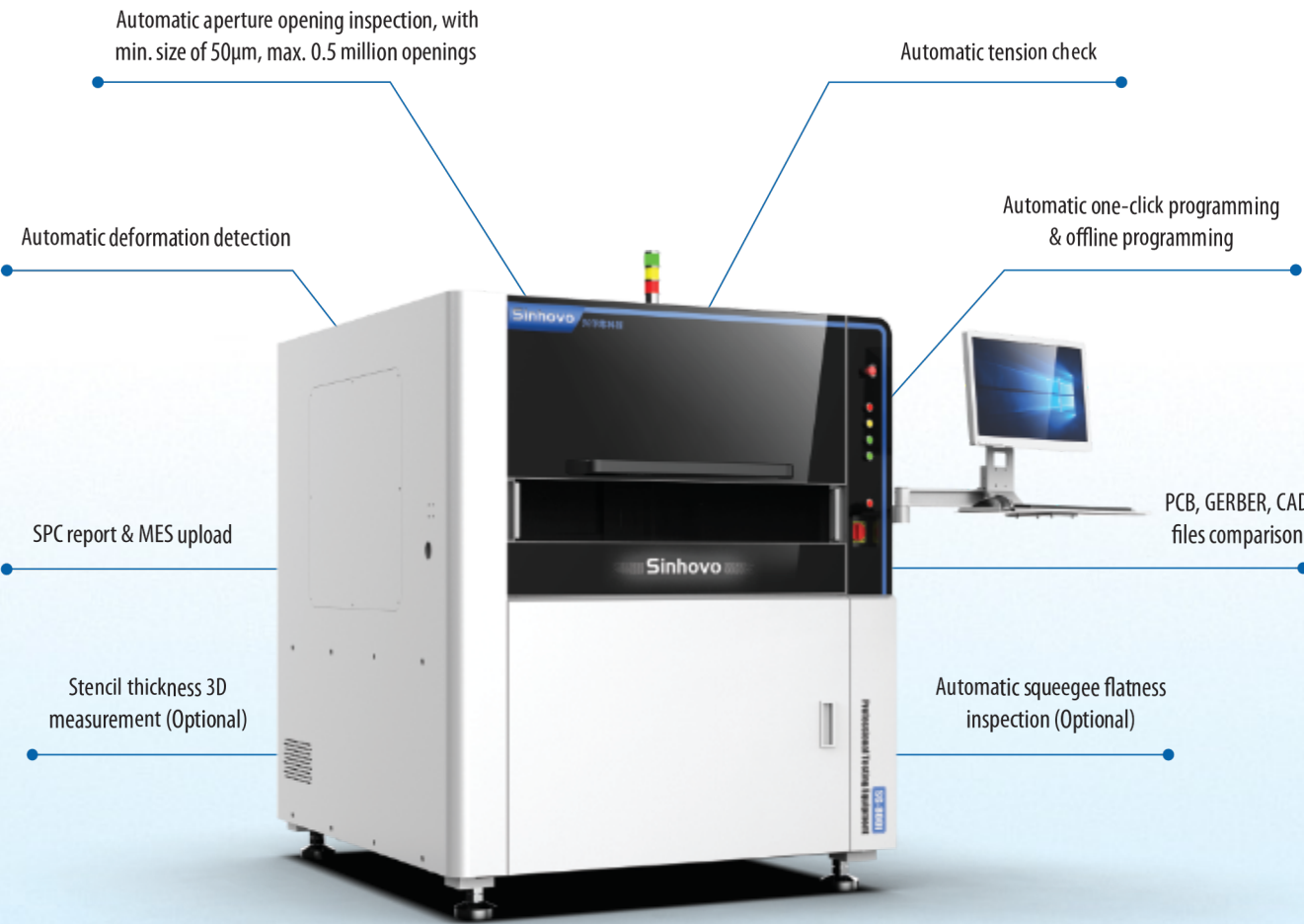


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Intelligent Automatic Stencil Inspection, Storage,
and Management Overall Solution

Automatic Stencil Inspection Machine



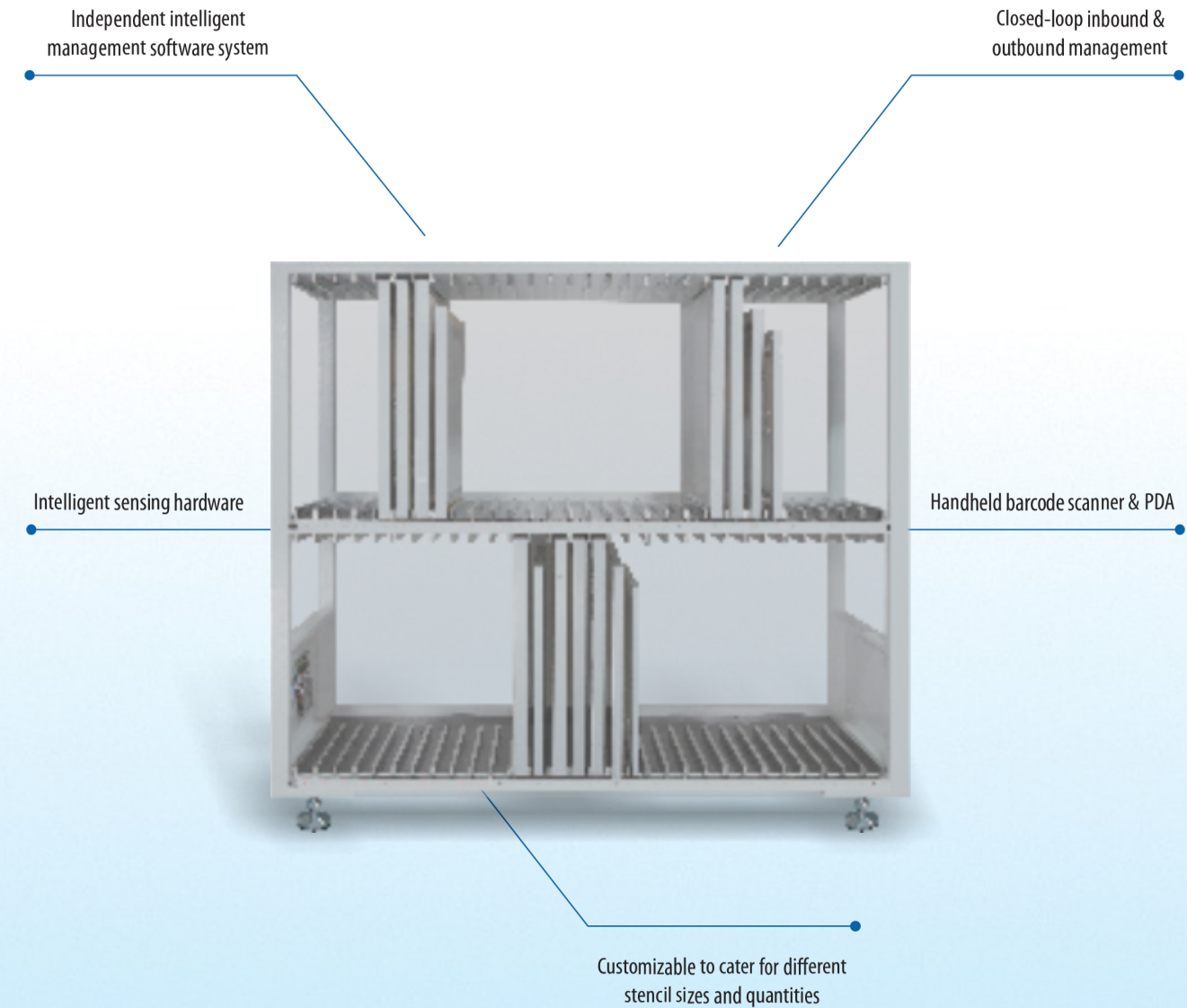
Full marble platform

Closed-loop position control

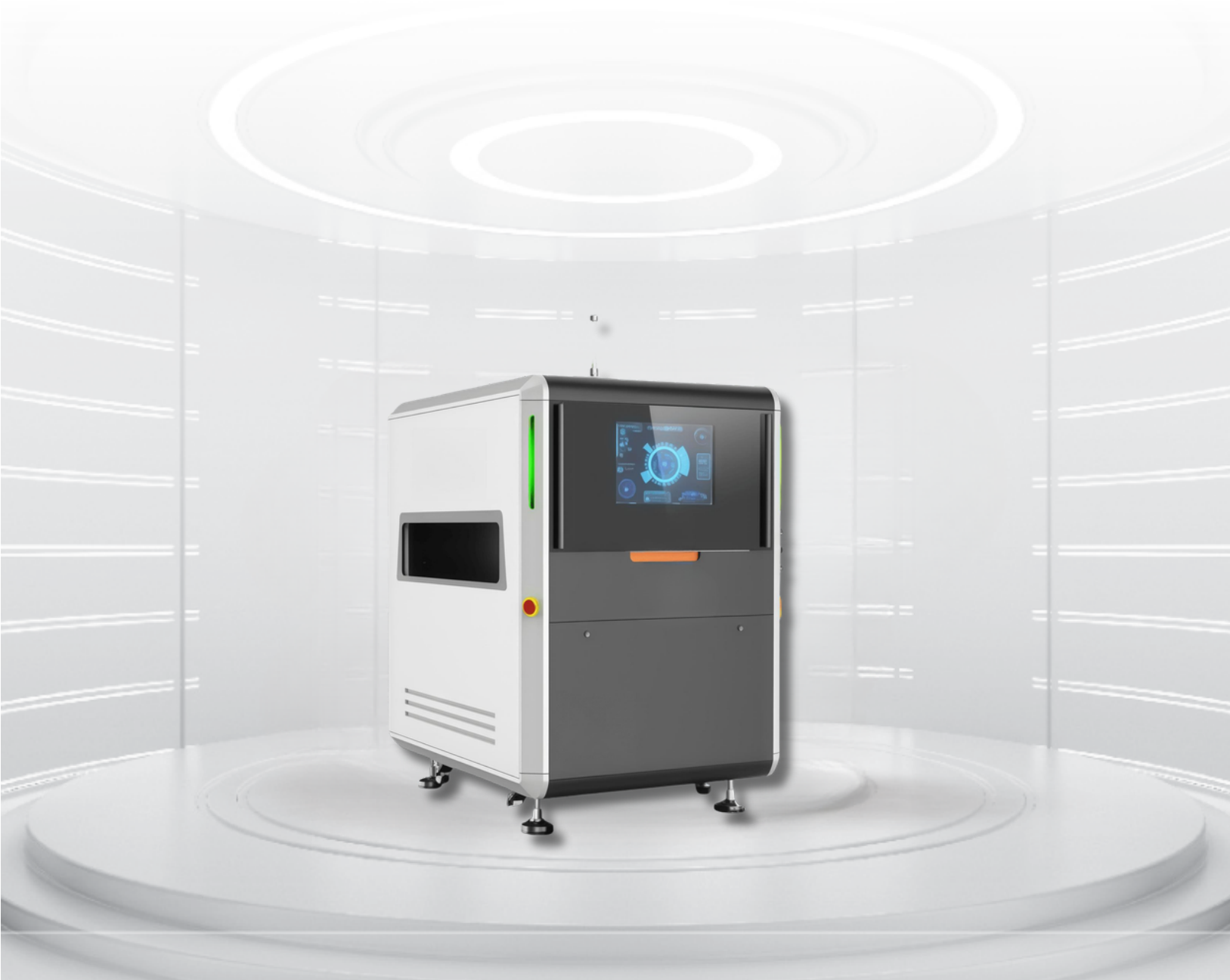
Linear motor (SG830)

High-resolution optical system

Stencil Storage Management Cabinet



Technical Parameter	D1200 Stencil Inspection Machine
Measurement Items	Aperture area, position, offset, size, foreign matter, burrs, clogged apertures, missing apertures, extra apertures, tension
Measurement Time	50s (for standard 130mm × 100mm stencil, data: 25,122 apertures)
Aperture Area Measurement Accuracy	Gage R&R <5.0% (actual measurement GR&R <1–2%)
Aperture Position Measurement Accuracy	±10 μm
Transmission Mechanism Accuracy	Repeatability ±4 μm; servo system (resolution: 0.5 μm)
Tension Measurement	±0.1 N·cm, tension range 0–50 N.cm
Camera	5MP / 10MP / 12MP (default) / 20MP
Lens	Dual telecentric lens
Illumination	Special white LED backlight (linear light source)
Resolution	Default 7.3 μm, customizable
FOV	24mm × 16mm (optional)
Motor	Linear motor
Platform	Granite platform
Scanning Range	550mm × 550mm
Frame Size	Maximum 736 × 736 mm
SPC	Aperture position, area, size; SPC data analysis and summary reports, including tables and charts
Gerber File	RS-274, RS-274X
Offline Programming	Supports offline programming and preview
Power Requirements	220V, 50/60Hz, Power: 1.5 kW
Machine Dimensions	1327 × 1266 × 1500 mm (L × W × H), excluding signal tower
Air Source	0.4–0.6 MPa
Machine Weight	1000 kg
Data Traceability	Automatic saving of inspection data
Comparison Function	New vs. old stencil data comparison
Report Generation	Automatic generation of inspection reports
MES Integration	Open communication protocol, capable of real-time data interfacing with market MES systems
3D Thickness Measurement Module	Optional
Squeegee Inspection Module	Optional
Custom MES	Optional



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Stencil Inspection Machine D-1200

Hardware Structure

