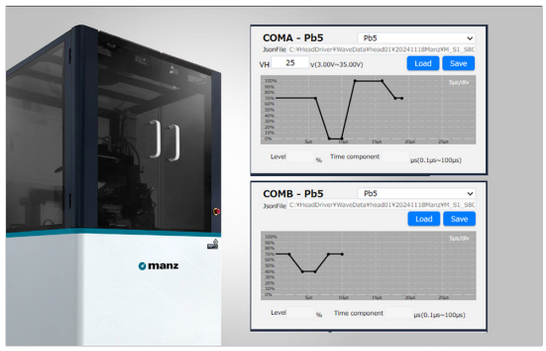
manz

PRINTHEAD Power by EPSON

Digital Printing - RDJet100

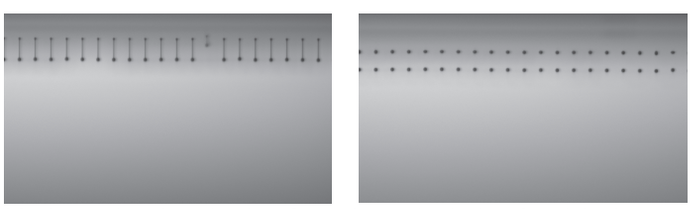
Semiconductor Process R&D Validation Equipment

Technical Specifications

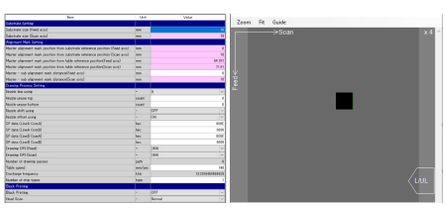


RDJet100

Max. Substrate Size	Min.100 x 100 (mm) / Max. 300 x 300 (mm)	
Max. Substrate Thickness	50 (mm)	
Footprint (W x D x H)	< 1200 x 1200 x 1860 (mm)	
Weight	< 550 kg	
Stage Accuracy	±15 μm (3σ)	
Stage Repeatibility	± 3 μm	
Stage Heating	**Max**	60 °C
	Optional	100° C
Stage Rotation	Auto ± 2 degree	
Vision System	Drop Watch / Top view	
Alignment accuracy	± 3μm	
Alignment Mark	AI Self learning	
Ink supply	Glass bottle / 10-100mL Option: industrial ink-supply system	
Printing format	Bitmap, DXF, PDF	
Printing Resolution	300 dpi to 6000 dpi (Min. 4.2 μm space per drop)	
Ink Type	Solvent, nanoparticle, aqueous, UV	
Ink viscosity	1 - 20 (cps)	
Post Process	UV / NIR	



Monitor and analyze the drop formation and velocity of each jetting nozzle.



Generate drawing patterns from bitmap data with customizable resolution and settings using dedicated drawing data creation software.

Features

- Simple Plug-and-Play Setup
  Engineered with a single home plug to ensure quick, hassle-free installation and minimal setup.
- Fully Open System
  Designed with a completely open architecture, enabling maximum flexibility and seamless integration with diverse components and workflows.
- Excellent System Flexibility
  Highly adaptable to different processes and applications, providing versatile solutions for diverse needs.
- Minimal Ink Consumption
  Requires less than 50ml of ink for system startup, ensuring cost-effective & efficient operation.
- Easy to Change Post-Treatment Module
  Simple to replace the curing light module, making maintenance and upgrades quick & easy.
- Self-Learning Alignment Mark System
  Leverages Manz's advanced optical system for self-learning alignment, eliminating the requirement for pre-marked alignment markers and enhancing process efficiency.
- Automatic Table Turning Adjustment
  Automatically adjusts the table position to maintain optimal alignment & accuracy.
- Compact and Space-Saving Design
  The smallest system available, offering. a small footprint for space-efficient integration into pilot lines.

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