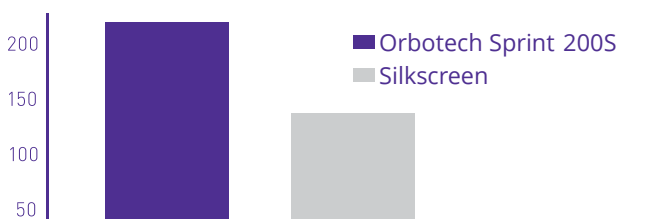


# Orbotech Sprint™ 200S

## High-Volume Inkjet Printing for PCB Legend and Serialization

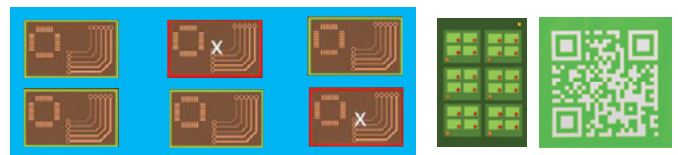
Powered by KLA's DotStream Pro™ technology and MultiPrinting™ technology, Orbotech Sprint 200S enables increased throughput of more than 100 prints per hour, supporting multi-panel, multi-level serialization as well as multi-alignment that enables partial scaling registration and on-the-fly alignment.

Orbotech Sprint 200S offers PCB manufacturers a solution that can replace older, time consuming and environmentally harmful screen printing systems while significantly improving yield and reducing total cost of ownership (TCO). Advanced features for multi-level serialization (e.g. panel ID, sub-panel ID, unit ID) combined with industry leading printing quality and accuracy, make Orbotech Sprint 200S an excellent printing solution choice for serialization and traceability that is ideal for Industry 4.0 and China 2025 compliance.



High throughput - up to 6,000 prints/day\*  
Optimized cost per print

### Advanced tools for product traceability and quality control

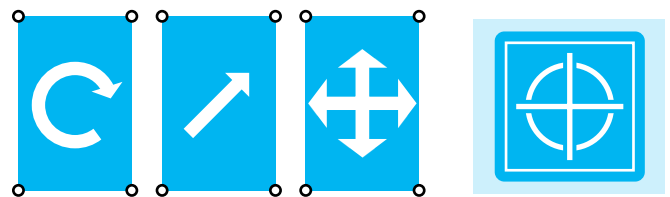


Defective marking

Serialization and barcodes



Excellent printing quality and high depth of focus (DOF)



High accuracy printing with comprehensive registration and scaling features

### High Yield and Cost Efficiency

- Advanced inkjet solution for rigid and rigid-flex
- Excellent printing quality, high depth-of-focus (DOF) and advanced registration features with multiple target on-the-fly alignment
- Complex 2D barcode printing support for multi-level serialization
- Enhanced yield and lower total cost of operation (TCO) compared with silkscreen

\* based on using a multi-panel mode with a 10" x16" panel, over 20 hours

### Field-Proven Innovation

#### DotStream Pro technology delivers:

- Top printing quality at faster speeds
- Extended print head lifetime
- Advanced self-maintenance

#### MultiPrinting technology delivers:

- Multi-panel support for a higher throughput
- Multi-level serialization (panel, sub-panel, unit)
- Multi-alignment and partial scaling



## Specifications

Throughput*	Single panel mode - 1 panel 24" x 18" (610mm x 457mm), up to 105 prints/hour Multi-panel mode - 2 panels 12" x 18" (305mm x 457mm), up to 200 prints/hour Multi-panel mode - 3 panels 10" x 16" (254mm x 406mm), up to 300 prints/hour
Maximum Printable Area	30.9" x 24.4" (785mm x 620mm). Possibility to support multiple panels (inside the maximum area)
Minimum/Maximum Panel Thickness	4 - 295mils (0.1 - 7.5mm)
Minimum/Maximum Resolution	720 - 1,440 dpi
Minimum Line**	3mil (75µm)
Minimum Text Height***	12mil (0.3mm)
Registration Accuracy (FTG)	±1.4mil (±35µm)
Depth of Focus	60 mil (1.5mm)
Alignment	Possibility of pin alignment or CCD alignment per panel (up to 4 targets per panel) Automatic on-the-fly alignment
Print Mode	Side A-A or side A-B
Print Head	Minimum drop volume - 13 pl; minimum dot size - 70µm (Optional: minimum drop volume - 6 pl; minimum dot size - 60µm)
Number of Nozzles	2,048
Software	Software RIP, Windows, Gerber RS-274X input, Push to Print, multi-language; advanced tools for serialization and 2D barcode.
Ink Types, Standards and Certifications****	Multiple inks from leading suppliers UL 94V-0, MIL-55110, MIL-31032, ASTM E 595, IPC-650, IPC-4781, RoHS, REACH, Halogen-free
Dimensions W x D x H	63.8" x 72.8" x 63" (1620mm x 1850mm x 1600mm)
Weight	3,307lbs (1,500Kg)

Note: In case of legend printing with more than 50% PCB area coverage, Orbotech Sprint 200S requires at least two-pass printing mode.

\* Loading more panels at a time in case of multi panel mode; 3 targets alignment; one-pass printing mode; optimized print head cleaning recipe

\*\* Lines of 75µm require 6 pl print head, special printing modes and well controlled solder mask surface tension

\*\*\* Requires 6 pl print head. Recommended to use two-pass mode or more

\*\*\*\* Depending on ink formula. For more information please contact KLA

The above specifications are subject to change without notification

Orbotech Sprint inkjet printers are a class-1 laser product. Laser specifications: red laser, 650nm, 3mW max.

### KLA SUPPORT

Maintaining system productivity is an integral part of KLA's yield optimization solution. Efforts in this area include system maintenance, global supply chain management, cost reduction and obsolescence mitigation, system relocation, performance and productivity enhancements, and certified tool resale.

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