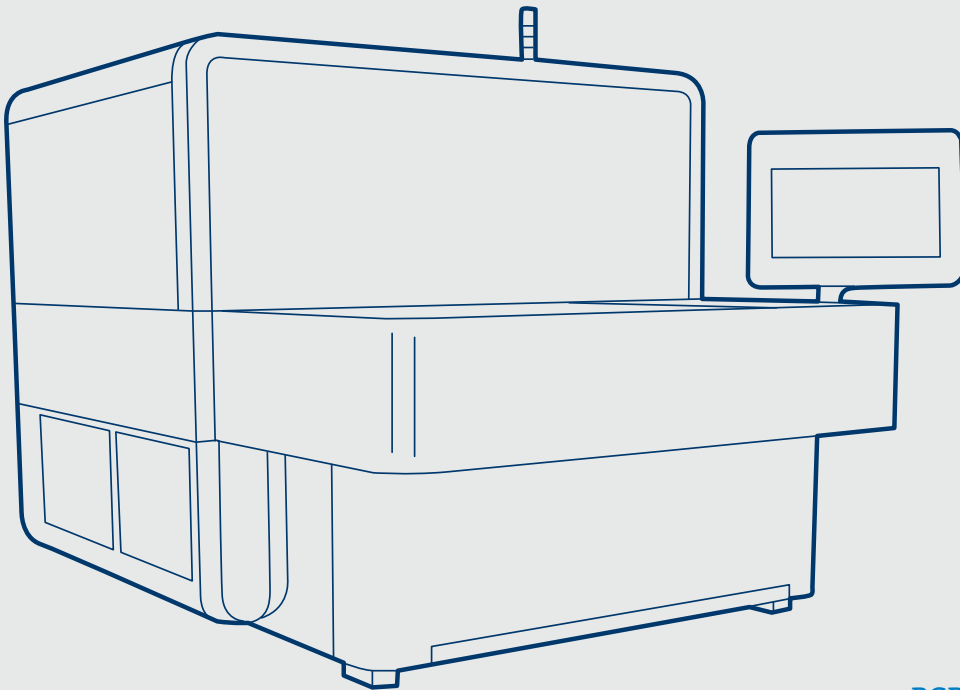


ORBOTECH NEOS™ 800

Solder Mask Inkjet Printer



ORBOTECH NEOS™ 800

Outstanding Performance with Inkjet Solder Mask

Orbotech Neos™ 800 is an innovative additive printing (AP) solution for solder mask (SM) layer printing. Powered by Orbotech's groundbreaking Structural Printing Technology™ and field-proven DotStream Pro Technology™, the eco-friendly Orbotech Neos 800 simplifies SM printing and cuts time to market drastically. Based on an innovative intelligent platform Orbotech Neos 800 inkjet solution ensures consistent quality and reliability of the SM layer, while enabling a decreased total cost of ownership (TCO).



Benefits

Short, Simple Production Process

- Streamlined printing process
- Fast time to market
- Optimized resources using 100% additive printing solution

Consistent High Quality and Reliability

- Accurate printing for SM dams and programmable thickness
- Superior registration accuracy with partial scaling support
- Unparalleled depth of focus (DOF) for precise printing on challenging surface topographies

Eco-friendly Solution

- Short, resource-saving process (less labor, power consumption, consumables and floor space)
- Enhanced utilization of ink (closed-loop, no waste)
- Removes the need for waste treatment processes

Low TCO

- Significantly lower operational costs
- Optimized printer head for longer lifetime
- Intelligent self-maintenance solution

Introducing Structural Printing Technology™

Orbotech's Structural Printing Technology™ is revolutionizing solder mask layer printing. Comprised of specialized algorithms, the innovative technology brings digital inkjet technology to the next level to enable 3D-like quality printing, including SM dams and selective/programmable SM thickness control. Featuring automatic calibration processes and consistent drop volume control, Structural Printing Technology™ optimizes feature sharpness to ensure high quality and accuracy of the solder mask layer.

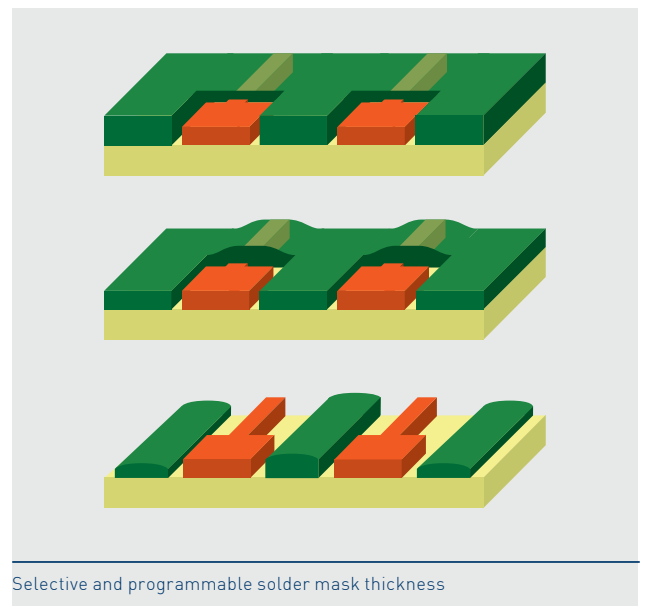
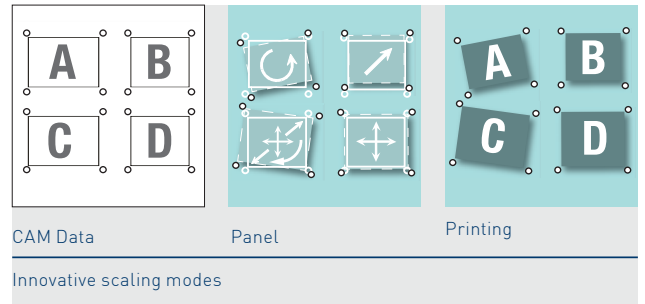


Featuring Field-Proven DotStream Pro Technology™

Orbotech's DotStream Pro Technology™ delivers consistent top print quality at high throughput. Powering Orbotech's leading installed base of inkjet solutions, the technology features customized long life print heads for high performance, multiple LED-based UV curing for perfect, on-the-fly, ink drop pinning and patented mechanisms for self-maintenance. DotStream Pro Technology ensures cost-effective, high-quality industrial inkjet printing for the most advanced designs.

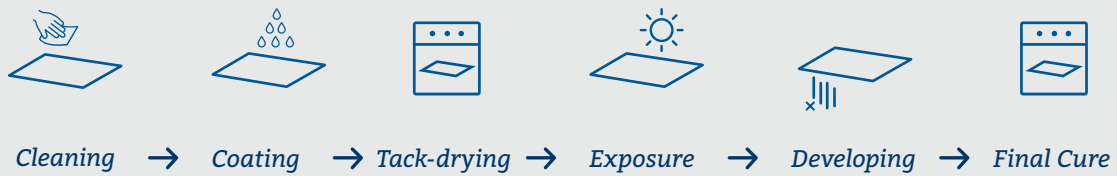
Leveraging an Intelligent Platform

Bringing together Orbotech's field-proven inkjet technologies and groundbreaking SM printing technology, Orbotech Neos 800 enables high density designs and advanced PCB printing. Powered by a new intelligent platform, the printer allows for tight registration with a digital programmable SM layer on each panel as well as fine dams with no undercut and mask-in-holes. Simplifying and accelerating the process by printing thin and thick SM, Orbotech Neos 800 ensures 2D and 3D-like quality and reliability.



Simpler, Faster, More Efficient Process

Solder Mask - Conventional Process



Solder Mask - Inkjet Process with Orbotech Neos 800



- Shorter, faster, simpler
- Consistent high quality
- Eco-friendly
- Low operational costs