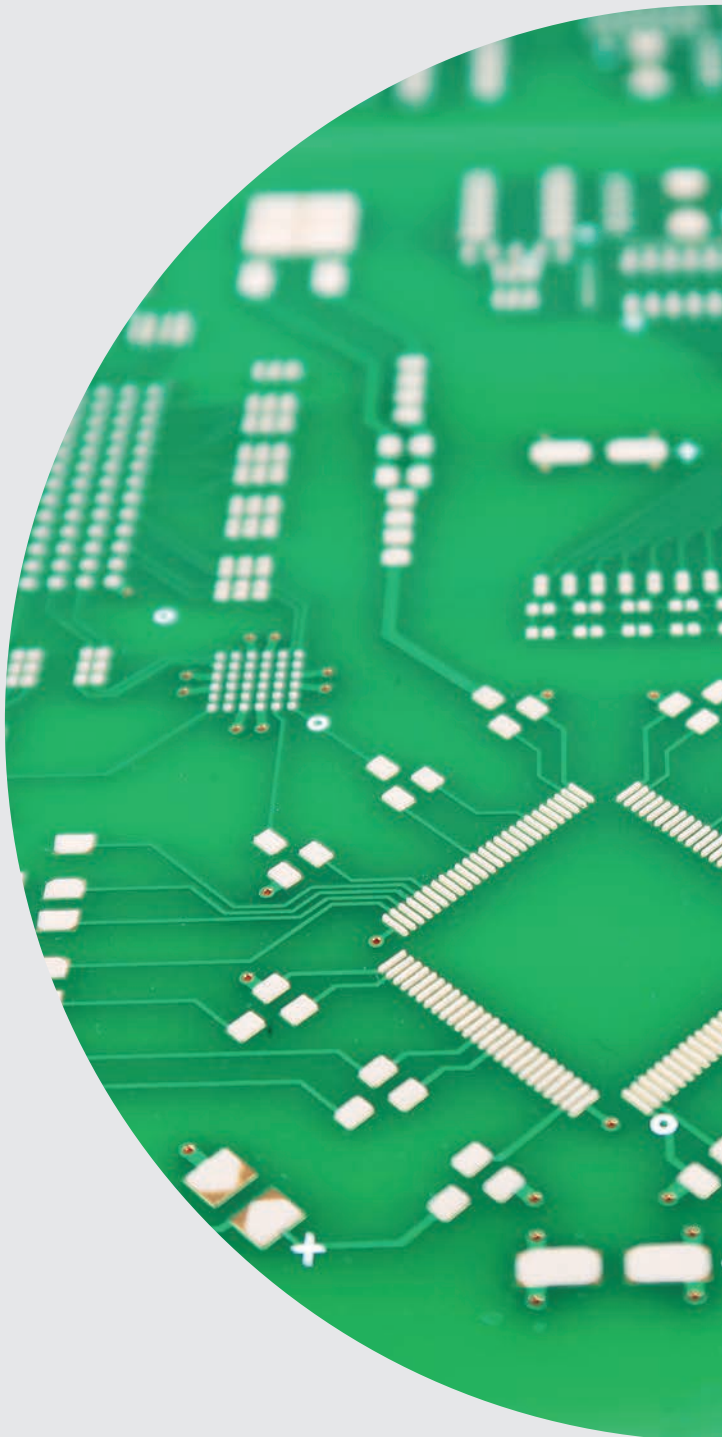


# Precision printing **at any volume**

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MYPro S20™ and S30™ Stencil printers





MYPro™

series

Years ago, jet printing established the standard in precision printing, giving producers total control of the size, volume, shape and position of every deposit. For high-reliability electronics producers, PI series 3D SPI set a new benchmark for precision metrology, combining unmatched accuracy with unprecedented user simplicity.

Now, the MYPro S series is bringing leading-edge accuracy and repeatability to stencil printing, making it easier and more cost-efficient than ever to scale up your production throughput. It's all part of one integrated approach to solder paste printing. And one scalable solution for tomorrow's printing demands.

### **INTRODUCING THE MYPRO S SERIES**

The precision you expect from Mycronic. The performance you expect from best-in-class stencil printing. Robust, accurate and easy to operate, the MYPro S series is a reliable, worry-free workhorse for volume production down to 14-second cycle times.

### **INDUSTRY-LEADING ACCURACY**

In the MYPro S series, an advanced vision system ensures complete alignment between the stencil and PCB, while a climate control feature maintains the physical qualities of the solder paste to ensure consistent print quality. During the printing phase, squeegee pressure is permanently monitored, and any deviation is displayed on the control screen for immediate correction. Each printed board can be 2D inspected to ensure that no deposits are

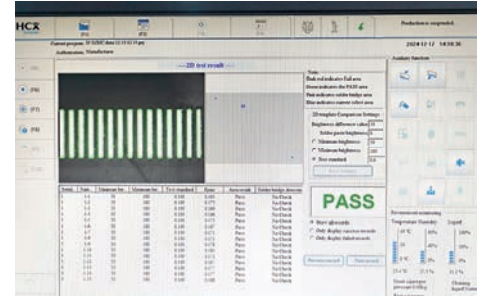
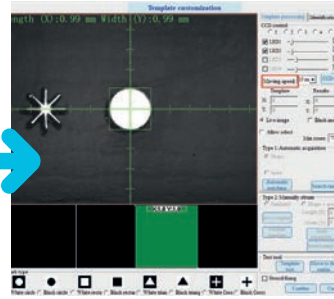
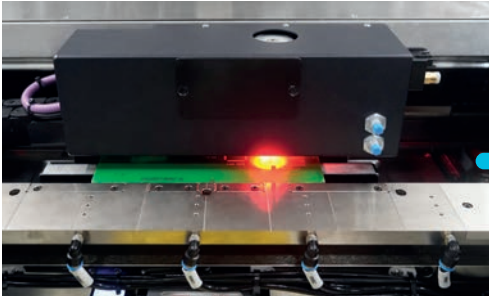
missing, and after each stencil cleaning phase, the stencil itself is 2D inspected to make sure it is valid for production.

Traceability, an essential feature in the manufacturing of high-reliability electronics, is assured through automated tracing of each stencil, solder reference number and operator ID.

### **SOLID FOUNDATIONS**

The printer has a robust frame with a marble support beam achieving high rigidity and repeatability of  $\pm 8\mu\text{m}$ . Squeegee movement uses a ball-screw with direct servo connection which adds to long-term consistent printing. The transport rail is motorized with dual guide rails and dual ball-screw, ensuring long-term stability.





**Intelligent vision and 2D inspection**

Aided by intelligent adaptive lighting, the MYPro S series vision camera provides swift coverage with simultaneous upward and downward inspections. Accommodate specialized fiducial marks on any pad from 0.5 mm to 3 mm in size. Print an endless variety of PCBs. And adapt settings with multiple light source options to handle a complete range of challenging designs. Integrated 2D inspection and statistical process control (SPC) tools give you all the real-time data and analysis you need to ensure optimal print quality for every pad.



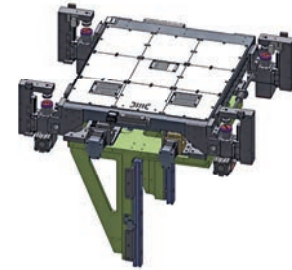
**Reliable squeegee system**

To guarantee reliability and repeatability, the robust squeegee system incorporates a ball-screw mechanism with a servo direct connection.



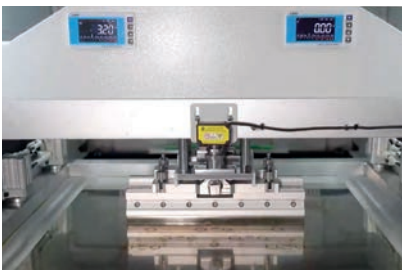
**Quick stencil positioning stopper**

Ensure precise positioning while preventing over-insertion with this user-friendly stopper. This intelligent mechanism enhances efficiency by minimizing setup time and reducing errors during the production process.



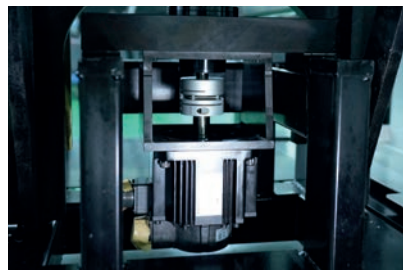
**Motorized table height adjustment**

Motorized adaptation to various PCB thicknesses ensures perfect flatness and fit for precise printing.



**Closed-loop squeegee pressure control**

Featuring pressure feedback display, automatic feedback compensation and pressure equalization, this system enhances printing process stability while extending the life of the stencil and scraper.



**Z-axis control**

The lifting table improves movement rigidity through direct connection with the servo and ball screw. This enables precise control of the lifting position as well as controlled snap-off for improved printing yield.



**Dry/wet/vacuum cleaning module**

Three cleaning methods – dry wipe, wet wipe and vacuum wipe – make it possible to tailor your setup for a variety of cleaning needs. The precision spray system employs a top-down spray device that dynamically adjusts the spray amount and range based on PCB size, guaranteeing accurate cleaning results.



# MYPro Line™ assembly solutions

## Built for tomorrow's change-makers

### CHANGE IS IN THE AIR

New components. New product mixes. And now, a fast and flexible assembly line that keeps you several steps ahead of them all.

With MYPro Line™ assembly solutions, there's virtually no technology, board design or batch size that can slow your growth. Handle any material flow. Jet any fluid media. Place any component. And eliminate every defect. All with full vertical and horizontal connectivity. And industry-leading planning and process control software to make quick work of even the most demanding build schedules.

More than the sum of their parts, MYPro Line™ assembly solutions combine to form the market's most productive just-in-time production environment. Allowing you to master any mix. Turn up the volume. And embrace whatever changes tomorrow may bring.

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