MYCRONIC

Precision stencil printing.
Just got a lot faster.

MYPro S30™ Stencil Printer





Introducing the ground-breaking MYPro S30 series of stencil printers.

Specifications **MYPro S30™**

PERFORMANCE	
Machine alignment capability	±7 μm (@6 Sigma, Cpk ≥ 2.0) (CNAS certification)
Process alignment capability	±15 μm (@6 Sigma, Cpk ≥ 2.0) (CNAS certification)
Core cycle time	< 7s (exclude printing & cleaning)
Product changeover time	< 5min

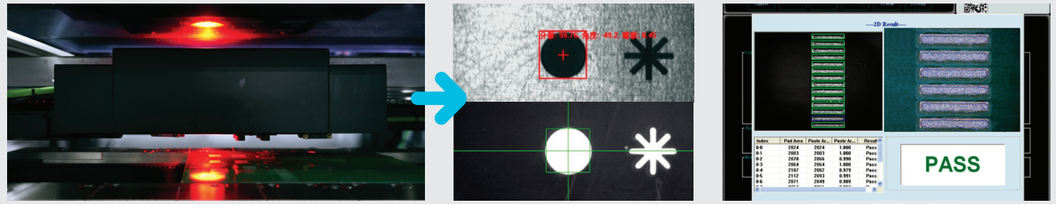
BOARD HANDLING	
Board size range (mm)	50mm x 50mm - 510mm x 510mm
PCB thickness	0.6~6mm (below 0.6mm fixtures are required)
PCB maximum weight	5kg
Stencil frame size (L×W)	370mm x 470mm - 737mm x 737mm
Stencil thickness	20~40mm
PCB edge clearance	3mm
PCB bottom clearance	Programmable 13mm (23mm optional)
Clamping method	Programmable motorized rear rail Top clamping Side clamping Vacuum clamping
Support method	Magnetic pin Side support block Auto flexible pin (option) ≤1% diagonal

PRINTING PARAMETER	
Squeegee type	Steel/rubber squeegee blade (angle 60°/55°/45°)
Squeegee pressure	0~15kg
Printer speed	10~200 mm/s
Snap-off speed	0.01~125mm/s (can be programmed to 3 steps control)
Separation option	Separation after squeegee up; Squeegee up after separation
Conveyor speed	100~1500mm/s
Conveyor direction	L→R, L→L, R→L, R→R
Table adjustment range	X: ±4mm; Y: ±6mm; 0:±2°
Cleaning system	1. Drops of rain type cleaning system 2. Dry/Wet/Vacuum modes

OPTICAL SYSTEM	
Field-of-view (FOV)	Standard: 6.4×4.8mm (optional 10×8mm)
Fiducial types	Standard shape fiducial, Pad/Hole
Vision methodology	CCD camera Telecentric concentric vision system Four direction independant views Annular LED lighting source

FACILITIES REQUIREMENT	
Power supply	AC: 220V±10%, 50/60Hz 1Φ 3kW, 13A
Air pressure	4~6kg/cm^2
Air consumption	≈ 0.007m^3/min
Operation temperature	-20°C ~ +45°C
Operation humidity	30~60%
Machine weight	~ 900kg
Approximate dimensions	(L) 1250 mm × (W) 1440 mm × (H) 1550 mm
Operating system	Windows 10
Acoustic noise level	< 87dB
Certification standards	CE

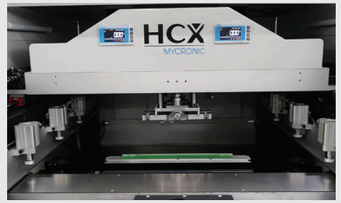
STANDARD FEATURES



Vision system
The CCD camera performs simultaneous upward and downward inspections, aided by an intelligent adaptive lighting system and an optical ring that ensures uniform and high brightness coaxial lighting. This setup accommodates specialized fiducial marks on any pad, ranging from 0.5mm to 3mm in size. Further flexibility is achieved through multiple light source options, allowing the vision system to seamlessly work with a variety of PCBs.

2D inspection
Experience the benefits of reliable 2D inspection and SPC tools integrated into our stencil printer. With real-time monitoring and meticulous data analysis, our system ensures optimum print quality.

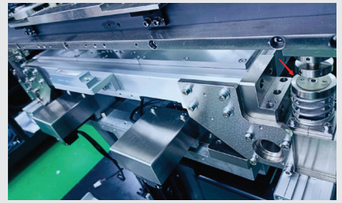
SOLID FOUNDATIONS AND PRECISE CONTROL



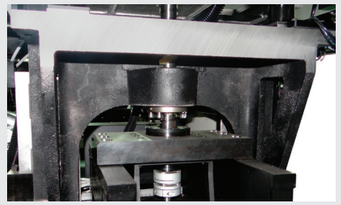
Close-loop squeegee pressure control
Featuring pressure feedback display, automatic feedback compensation and pressure equalization, this system enhances printing process stability while extending the life of stencil and squeegee.



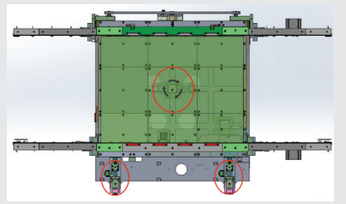
Intelligent Stencil loading system
A high rigidity mobile stencil frame bracket, paired with an accurate primary positioning system, automatically aligns the position of the stencil with the PCB , effectively saving line changing time during the production process.



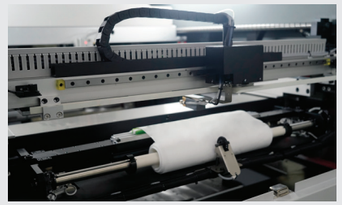
Intelligent table height adjustment
High precision single-layer platform with automatic adjustment in the vertical direction, aligning the height of PCB and track level to achieve a perfect fit between stencil and PCB.



Z-axis control
The lifting table is directly connected with servo and ball screw for precise control of the lifting position and snap-off precision, improving movement rigidity.

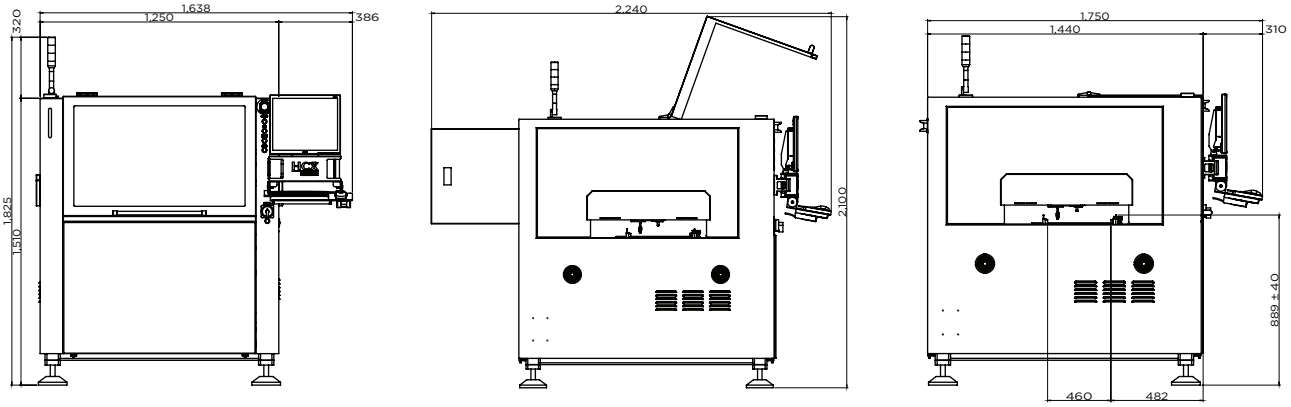


High precision automatic alignment platform
1. The independently developed UVW three-axis platform by HCX, with the calibration center centered, provides higher calibration accuracy (XY_1Y_2 direction ±6mm compensation, ±2° angle correction; Motion positioning accuracy of the XY_1Y_2 axis is 0.4μm, ensuring that the comprehensive calibration accuracy is within the micrometer level).
2. Real Time Closed-Loop Control: Equipped with Closed loop stepper motor and grating ruler.

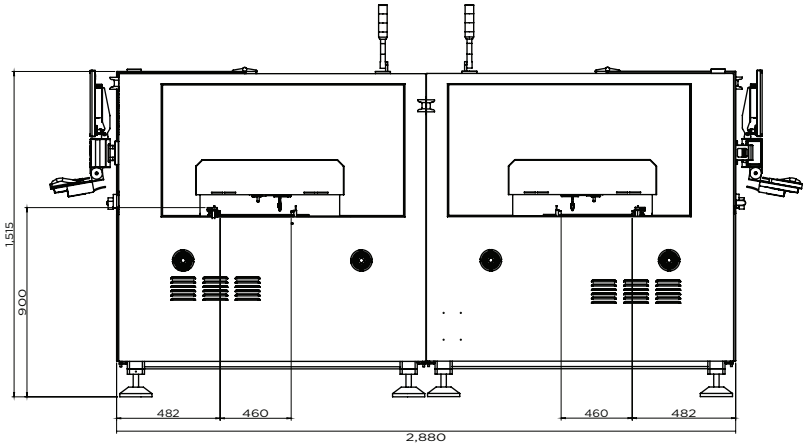


Dry/wet/vacuum cleaning module
Explore a stencil printer featuring three cleaning methods: dry wipe, wet wipe, and vacuum wipe, offering tailored solutions for diverse cleaning needs. This printer accommodates various cleaning roll paper lengths, ensuring flexibility in application. The precision spray system employs a top-down spray device that dynamically adjusts the spray amount and range based on PCB size, guaranteeing accurate cleaning results.

DIMENSIONS [mm]



BACK-TO-BACK POSITIONING



MYCRONIC

MYCRONIC.COM

SWEDEN
Mycronic AB
PO Box 3141
Nytorpsvägen 9
SE-183 03 Täby

Tel: +46 8 638 52 00

GERMANY
Mycronic GmbH
Tel: +49 89 45 24 24 8-0

UK
Mycronic Ltd.
Tel: +44 1202 723 585

FRANCE
Mycronic S.A.S.
Tel: +33 1 41 80 15 80

NETHERLANDS
Mycronic B.V.
Tel: +31 402 62 06 67

USA
Mycronic Inc.
Tel: +1 978 495 9799

SOUTH KOREA
Mycronic Co. Ltd.
Tel: +82 31 387 5111

CHINA
Mycronic Co., Ltd.
Tel: +86 21 3252 3785/86

SINGAPORE
Mycronic Pte Ltd.
Tel: +65 6281 7997

JAPAN
Mycronic Technologies
Corporation
Tel: +81 42 433 9400

Specifications are subject to change without notice. Mycronic, MYDATA, MYDATA automation and MY; Mycronic 4.0; MYNews; MYCare; MYSynergy, MYTrilogy; MYPro, MYPro Line; MY100, MY100e, MY200, MY300, MY300DX, MY300EX, MY300HX, MY300LX, MY300SX, MY500, MY600, MY700, MY700JD, MY700JP, MY700JX; MYPro A40, A40DX; MYPro S20; MYPro S30; MYPro I50, I51, I80, I81, I90, I91; MYSmart, MYC10, MYC50, MYC60, MYD10, MYD50, MYT10, MYT50; Mycronic SMD Tower; MYTower 5, 6, 6+, 7+, 5x, 6x; Vi TECHNOLOGY, VIT; 5K, 5K3D, 8K, 8K3D, 9K, 9K3D; PI, PI Pico, PI Primo; SIGMA Link; MX7, HYDRA, Midas, ISIC; Agilis, Agilis Linear Magazine (ALM), Agilis Linear Magazine Flex (ALM FLEX), Agilis Stick Magazine (ASM), Agilis Tray Magazine (ATM); Mycronic Tray Exchanger (TEX), Mycronic Tray Wagon Magazine (TWM); Mycronic Dip Unit (DPU); Mycronic Linescan Vision System (LVS); Mycronic Assembly Process Management (APM) including; JPSys, STSys, TPSys, MYCam, MYCenter, MYCenter Analysis, MYLabel, MYPlan, MYPro Connect, MYPro Link, MYTrace and FlowLine are registered trademarks or trademarks of Mycronic AB. Mycronic AB is ISO 9001:2015 and ISO 14001:2015 certified.

4076231 REV 0002 / JANUARY 2024