



SMT
S O L I D

JUKI
JUKI AMERICA, INC.
ELECTRONIC ASSEMBLY SYSTEMS

P-MAX

PRINTING

We offer complete SMT solutions with cutting-edge technology and specialized support.



MX 81-282-8092
US 10-791-8343





P-MAX

LARGE FORMAT FULLY AUTOMATIC SCREEN PRINTER

High Value Stencil Screen Printing Solutions from JUKI!

FEATURES

JUKI's PMAXII represents the next level in large-format fully automatic screen printing technology. Leveraging a patented mathematical calculating algorithm, the PMAXII achieves industry-leading alignment accuracy to meet the challenging demands of modern PCB assembly, including seamless 0201 (0603 metric) printing. Its advanced design integrates motorized, self-adjusting floating print heads and independently programmable front/rear squeegee pressure settings, ensuring superior performance with every print. Coupled with 2D paste inspection and a programmable flexible stencil cleaning system, the PMAXII offers unmatched reliability, while its robust cast steel frame guarantees durability for non-stop manufacturing operations.

Versatile and efficient, the PMAXII supports PCB sizes up to 1,220mm x 800mm and accommodates various stencil dimensions with ease. Its fully automated PCB handling features, including auto-leveling and the patented Flexible Auto Clamp (FAC) system, ensure secure and precise alignment for any project. With fast product changeovers, cutting-edge vision systems, and software-controlled conveyor configurations, the PMAXII is the ultimate choice for manufacturers seeking to optimize productivity while consistently delivering top-tier quality in their processes.



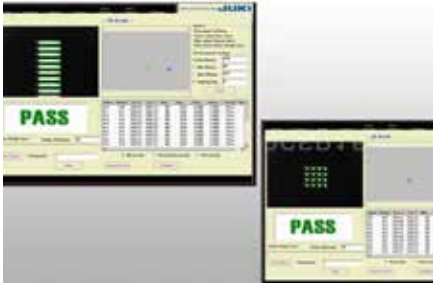
Top & Side Clamping FAC System

Flexible Auto Clamping.



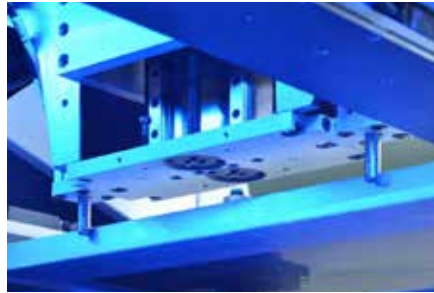
Access to All Parts

For Simple Maintenance.



2D Paste inspection

Excessive Insufficient, & Bridge Detection.



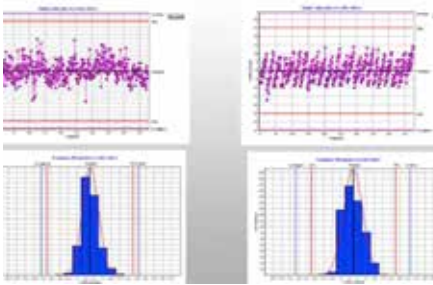
SPM (Squeegee Position Memory)

For Ease of Change Over.



Heavy Duty Cast Steel Frame

Meets rigors and demands of a 7 x 24 year round manufacturing environment.



Highly Accurate

Achieves ± 0.0125 at 6 Sigma Accuracy.



Simple Quick Adjustment

For Various Stencil Sizes.



Programmable, Flexible Stencil Cleaning System

Bottom, Side, Wet, Dry Vacuum.

SPECIFICATION

ITEM	PERFORMANCE
Machine Alignment Capability	+/-25 microns
Core Cycle Time	< 25 secs (Excluding printing & cleaning)
Product Changeover time	5 mins
New Product Setup Time	10 mins

ITEM	BOARD HANDLING
Max. Size (L x W)	1220 mm x 800 mm
Min. Size (L x W)	100 mm x 65 mm
Thickness	0.4 mm to 10 mm
PCB Thickness Adjustment	Auto leveling
PCB Support Methods	Magnetic pins, support blocks, auto table adjustment
PCB Clamping Methods	Retractable top clamp & motor controlled side clamp
PCB Max. Weight	10 kg
PCB Edge Clearance	3.5 mm
PCB Bottom Clearance	23 mm
PCB Warpage	Max. 1% diagonally
Conveyor Direction	L > R, R > L, R > R, L > L (Software controlled)
Conveyor Height	Standard is 900mm +/-20mm (if need any higher need to include footage support)
Conveyor Speed	Max. 1500 mm/sec
Conveyor Width Adjustment	Auto

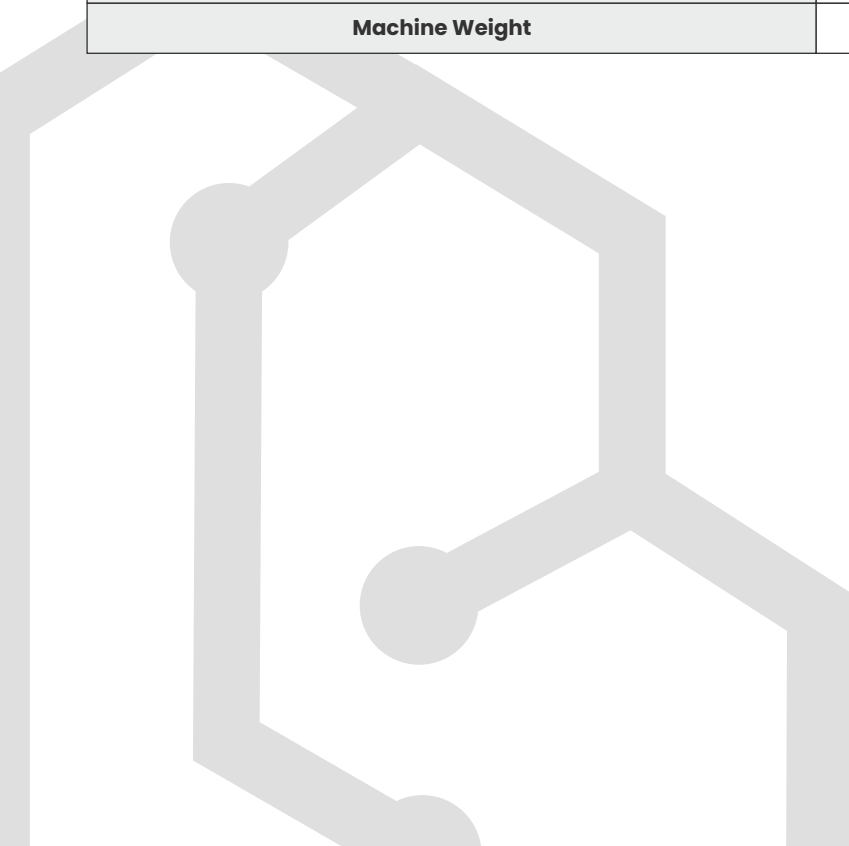
ITEM	PRINTING PARAMETERS
Stencil Frame Size (LxW)	Adjustable, 737 mm x 737 mm to 1500 mm x 1250 mm
Print Head	Arc shape beam with 2 independent double linear guide motorized heads

ITEM	PRINT MODE
Printing Table	Single / Double (Software select)
Adjustment Range	X: ±20 mm; Y: ±20 mm; θ: ±2°
Squeegee Size	Metal: Two pair = 850mm & 1,250mm
Squeegee Pressure	0 - 30 kgs (Programmable)
Squeegee Speed	5 - 150 mm/sec
Squeegee Angle	Std. 60°, Option 45°, 50°, 55°
Cleaning System	Auto wet/dry/vacuum combination (User edit)

ITEM	OPTICAL SYSTEM
Vision Method	Single camera simultaneously Look Up/Look Down
Field of View (FOV)	8 mm x 6 mm
Fiducial Type	Circle, triangle, square, diamond, cross
Fiducial Size	0.5 ~ 4.0 mm
20 Inspection	100 windows to inspect missing, insufficient (Std.)

ITEM	OPERATOR INTERFACE
Hardware	LCD Monitor, Mouse & Keyboard
Operating System (OS)	Window 10 or higher
Control Method	Industrial PC controlled
I/O Interface	SMEMA Standard

ITEM	FACILITIES REQUIREMENT
Power Supply	AC 220 V \pm 10%, 50/60 Hz, single phase
Air Supply	4 ~ 6 kgf/cm ²
Power Consumption	3 KW
Dimension (Exclude signal lamp)	2020 (W) x 1740 (D) x 1524 (H) mm
Machine Weight	Approximately 1800 kg



Industrial solutions, innovation and precision.

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