



SMT
S O L I D

JUKI
JUKI AMERICA, INC.
ELECTRONIC ASSEMBLY SYSTEMS

P-PRIMO

PRINTING

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



P-PRIMO

LARGE PLATFORM SMT SCREEN PRINTER

Board handling up to to
850 mm x 610 mm!

JUKI's P-Primo is the ultimate large-platform screen printing solution for demanding PCB production. Featuring a cutting-edge optical system with CCD vision technology, automatic PCB thickness adjustment, and robust 2D paste inspection capabilities, the P-Primo redefines efficiency and precision. Its adaptable configuration supports board sizes ranging from 100mm x 65mm to 850mm x 610mm, offering unparalleled flexibility for diverse production needs.

JUKI's P-Primo ensures exceptional performance with process alignment capability at ± 25 microns and a core cycle time of less than 12 seconds. Supported by advanced automation and intuitive software, its quick product changeovers (under 5 seconds) and seamless new product setup (under 10 seconds) make it an indispensable tool in modern manufacturing. Streamline your processes, maximize productivity, and achieve precision with every print using JUKI's top-tier P-Primo SMT Screen Printer.

SPECIFICATION

ITEM	PERFORMANCE
Machine Alignment Capability	2Cmk @ ± 12.5 microns @ 4 sigma
Process Alignment Capability	2Cpk @ ± 25 microns @ 4 sigma
Core Cycle Time (excluding printing & cleaning time)	<12 secs
Product Changeover Time	<5 secs
New Product Set-up Time	<10 secs

ITEM	FACILITIES REQUIREMENT
Power Supply	AC220V ± 10% 50/60Hz
Power Consumption	3kW
Air Supply	4-6Kgf/cm ²
Dimension (excluding signal tower)	1,590mm (L) x 1,608mm (W) x 1,530mm (H)
Machine Weight	1,400kg

ITEM	BOARD HANDLING
Max. Size (L x W)	850mm x 610mm
Min. Size (L x W)	100mm x 65mm
Thickness	0.4-8mm
PCB Thickness Adjustment	Automatic
PCB Max. Weight	10kg
PCB Edge Clearance	3.5mm
PCB Bottom Clearance	23mm
PCB Warpage	Max 1% diagonally
Clamping Method	Retractable top clamp, motor controlled side clamp
Support Method	Magnetic support pins, bars, blocks, vacuum suction
Conveyor Direction	L to R, R to L, R to R, L to L (software control)
Conveyor Height	900 ± 40mm
Conveyor Speed (max.)	1,500 mm/s
Conveyor Width Adjustment	Automatic

ITEM	OPERATOR INTERFACE
Hardware	LCD Monitor, Mouse & Keyboard
Operating System (OS)	Windows 7 or Higher
Control Method	Industrial PC controlled
I/O Interface	SMEMA Standard

ITEM	PRINTING PARAMETERS
Stencil Frame Size (L x W)	Adjustable, 737mm x 737mm to 1,100mm x 850mm
Print Gap (snap-off)	0~20mm
Printing Table Adjustment Range	X:±10mm, Y:±10mm, ±2°
Print Speed	5~150mm/s
Squeegee Pressure	0.5~10kg (program control)
Squeegee Type	Std.: Metal, Option: Rubber
Squeegee Angle	Std. 60°, Option 45°, 50°, 55°
Cleaning System	Auto wet, dry, vacuum (Software select)

ITEM	OPTICAL SYSTEM
Field-of-View (FOV)	8mm x 6mm
Fiducial Types	Circle, triangle, square, diamond, cross
Fiducial Size	0.5~4.0mm
Vision Methodology	CCD camera look up & down
2D Inspection	Max. 100 windows to inspect missing & insufficient (std.)



Industrial solutions, innovation and precision.

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