



**SMT**  
S O L I D

**JUKI**  
JUKI AMERICA, INC.  
ELECTRONIC ASSEMBLY SYSTEMS

# P-LED PRINTING

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



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





# P-LED

## LED TUBE PCB PASTE PRINTER

The ideal printer that serves long LED Tube PCB up to 1.524 m!

JUKI's P-LED is the ideal choice for high-performance LED Tube PCB paste printing. Designed to cater to ultra-long LED tube PCBs up to 1524mm in length, the P-LED is packed with advanced features that guarantee precision, reliability, and efficiency. Equipped with a cutting-edge 2D paste inspection system, it effortlessly identifies insufficient paste, bridging, and other defects, ensuring quality production every time. Like all JUKI printing solutions, the P-LED undergoes rigorous testing to certify unmatched performance for critical applications.

With a quick setup time of less than 10 minutes and cycle times under 15 seconds, the P-LED streamlines production processes, enhancing productivity for demanding operations. Its industrial-grade features, such as automatic PCB thickness adjustment, customizable stencil frame sizes, and a versatile cleaning system, make it a powerful addition to any manufacturing line. The optional SPI Closed-loop capability, barcode scanners for traceability, and environmental monitoring tools further reinforce its adaptability and efficiency, enabling manufacturers to meet the highest standards in LED production.

### SPECIFICATION

ITEM	PERFORMANCE
Machine Alignment Capability	2CmK @ ±15 microns 4 Sigma
Process Alignment Capability	2CpK @ ±30 microns 4 Sigma
Core Cycle Time (excluding printing & cleaning time)	<15 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 <sup>2</sup>
Dimension (Exclude signal lamp)	2,570 mm (L) x 1,210 mm (W) x 1,509 mm (H)
Machine Weight	1,800kg

ITEM	BOARD HANDLING CONVEYOR HEIGHT
Max. Size (L x W)	1,524 mm x 350 mm
Min. Size (L x W)	80 mm x 50 mm
Thickness	0.8~6 mm
PCB Thickness Adjustment	Automatic
PCB Max. Weight	5kg
PCB Edge Clearance	3.5mm
PCB Bottom Clearance	15mm
Clamping Method	Top clamp (Manual) & Motorized side clamp
Support Method	Std. Magnetic support pins, bars, blocks
Conveyor Direction	L to R, R to L, R to R, L to (software control)
Conveyor Height	900 ± 40 mm
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	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.)

ITEM	PRINTING PARAMETERS
<b>Stencil Frame Size (L x W)</b>	Adjustable, 720 mm x 300 mm to 1,800mm x 750mm
<b>Printing Table Adjustment Range</b>	X: ±10 mm, Y: ±10 mm / : ± 2°
<b>Print Speed</b>	10~200 mm/s
<b>Squeegee Pressure</b>	0.5~15kg (program control)
<b>Squeegee Type</b>	Std.: Metal 280/350mm, Option: Rubber
<b>Printing Stroke Direction</b>	Left to Right, Right to Left
<b>Squeegee Angle</b>	Std. 60°, Option 45°, 50°, 55°
<b>Cleaning System</b>	Auto wet, dry, vacuum (Software select)



## Industrial solutions, innovation and precision.

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