

Compact LED Assembly System

# ***JX-100 LED***

**JUKI**<sup>®</sup>

LOWEST COST OF OWNERSHIP



**Compact High Speed Mounter  
for LED placement at low cost**

# Compact, but with a 800mm x 360mm board size capacity, the JX-100 LED is a low cost placement solution for notebook PCs, LCD monitors, and a wide variety of lighting equipment.

## 1 Superior Flexibility

- By applying the board twice, the mounter is applicable to long boards of up to a maximum of 800 mm x 360 mm, achieving a low-cost solution for LED chip installation such fast-growing markets as laptop computers, LCD backlights and lighting equipment.

## 2 High Speed Installation Functionality

- Highest-in-class productivity  
Mounting time: 0.235 seconds / chip 15,300 CPH (IPC9850)

## 3 Compact and less weight

- Achieves high productivity while still being light and compact.  
Machine dimensions (WxDxH): 1,390 x 1,270 x 1,440 mm Weight: Approximately 1,000 kg

## 4 Superior Versatility

- Able to place chips from 0603 mm (0201inch) to 33.5 mm, allowing the JX100LED to recognize and place a wide variety of components.
- Development of a new algorithm for side-view type LED for top-view LED rectangular ferrite chip-types and PLCC-types allows for a wide variety of LED to be installed.

## 5 User Friendly

- The user interface is highly graphical, reducing the need for language specific text. A touch screen is standard for easy operation by operators with little computer experience. This touch screen can tilt to adjust the best position for the operator.
- Utilizes an easy switch system for pass-through and U-turn methods. The switch system makes possible flexible application for a variety of production methods.

### Specification

Item	Model	Compact LED Assembly System JX-100LED
Board size		Min.50×50~ Max.800*1×360mm
Board positioning		shape reference
Component height		12.0mm*2
Component size		Min.(0201 Inch)0603mm~Max. 33.5mm
Component centering device		Laser centering(LNC60)
Placement speed (chip)	IPC9850	15,300CPH
Placement accuracy		±0.05mm(±3σ)
Feeder inputs		Max.30 8mm tape feeders, 60 with optional rear bank.
Power supply		200 to 415 VAC, 3-phase
Apparent power		1.5kVA
Operating air pressure		0.5±0.05Mpa
Air consumption (standard status)	Standard	Max. 345 L/min.
	Vacuum pump(optional)	Max. 50 L/min
Machine Dimensions (W×D×H)		1,390×1,270×1,440mm
Mass(approximately)		Approximately 1,000kg

\*1 : When sent through twice. When sent through once, the maximum length is 410 mm x 360 mm  
\*2 : Becomes 9.0 mm when the board's x directional length exceeds 630 mm.

\*Please refer to the product specifications for details.

### Options

- Recognition system**  
Lighting unit for solder recognition[Solder printed on the board can be used as the board standard mark.]
- Operation system**  
HOD(Handheld Operating Device)  
[Enables teaching operation at hand.]
- Conveyor**  
Conveyor extension guide
- Safety device**  
Short circuit breaker
- Others**  
Three-color signal light / caster / vacuum pump / air compressor\*1
- Software**  
EPU(External Programming Unit)[Offline programming software]
- Component handling and feeders**  
Tape feeder 8~72mm / Bulk feeder / Stick feeder /  
Tape feeder adjustment jig with monitor /  
Tray holder(when raer option is selected) /  
Rear feeder bank / Trash Box

\*1 : Depends on the country and environment in which the machine is used.  
For more information, please contact our sales representatives.

# JUKI®

## JUKI CORPORATION

Electronic Assembly & Test Systems Division

2-11-1, Tsurumaki, Tama-shi  
Tokyo 206-8551, JAPAN  
TEL.81-42-357-2293  
FAX.81-42-357-2285

JUKI Americas

507 Airport Blvd.  
Morrisville, NC 27560  
Phone: 919-460-0111  
Email: sales@jas-smt.com  
www.jukiamericas.com

47102 Mission Falls Court  
Suite 101  
Fremont, CA 94539  
Phone: 510-249-6700

<http://www.juki.co.jp>

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(1) The development of products and engineering processes, which are safe to the environment  
(2) Green procurement and green purchasing  
(3) Energy conservation (reduction in carbon-dioxide emissions)  
(4) Resource saving (reduction of papers purchased, etc.)  
(5) Reduction and recycling of waste  
(6) Improvement of logistics efficiency (modal shift and improvement of packaging, packing, etc.)



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