

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 rear 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 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>

JUKI Specifications and appearance may be changed without notice. This catalogue prints with environment-friendly soyink on recycle paper.



### JUKI CORPORATION HEAD OFFICE

Juki Corporation operates an environmental management system to promote and conduct the following as the company engages in the research, development, design, sales, distribution, and maintenance services of industrial sewing machines and industrial robots, etc. and the research, development and design of household sewing machines, and in the provision of sales and maintenance services for data entry systems:  
(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.)



Mar-2010/500