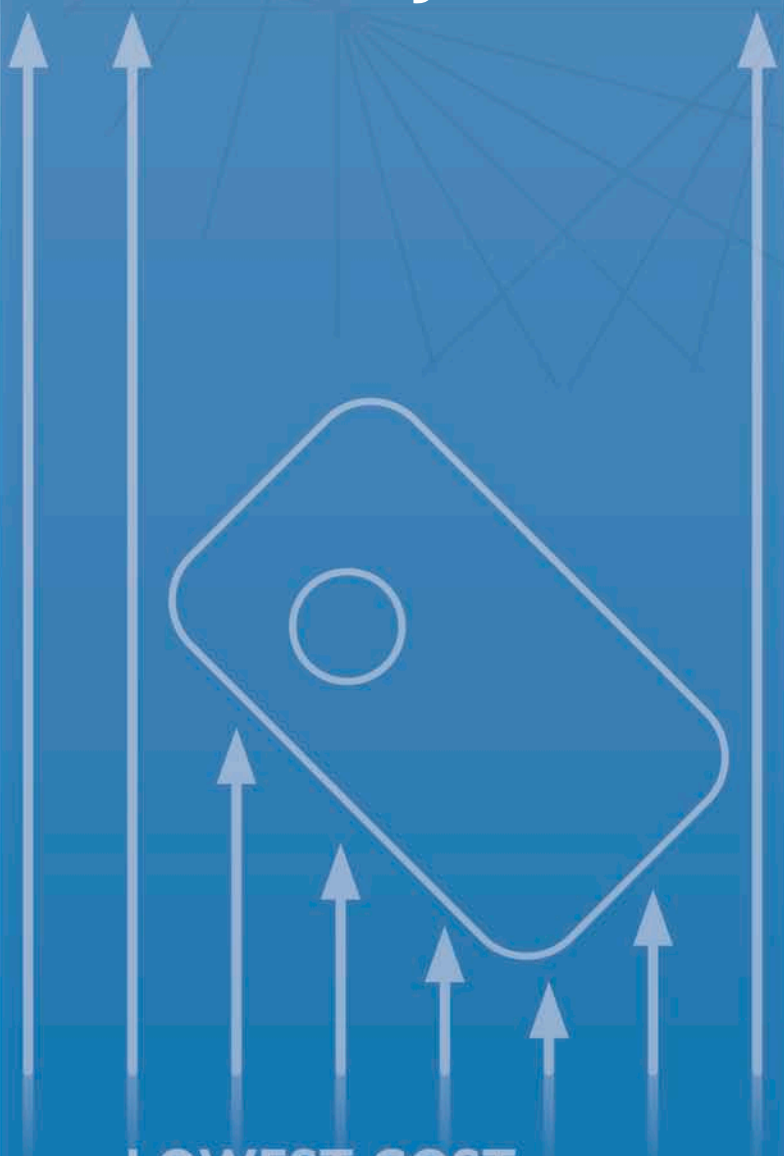
15300 CPH

JX-I00LED

Compact High-speed Mounter

Our modular production line sets new standards for productivity, flexibility and reliability.



LOWEST COST
OF OWNERSHIP

JUKI

From high-speed, high-accuracy mounting down to very small parts – ultra-flexible performance assures the best return on investment for any application. With a possible board size of 800 x 360 mm the JX-100LED is perfectly suited for low cost LED placement.

Compact High-speed Mounter

JX-100LED

- Placement head:
  - multi-nozzle laser head (6 nozzles)
- Placement rate (max.):
  - 15,300 cph laser centering (IPC 9850)
- Component range:
  - 0201 - 33.5 x 33.5 mm
- Component height (max.):
  - 12 mm
- Placement accuracy:
  - ±50 µm (Cpk ≥ 1) laser centering
- Board dimension (max.):
  - 800 x 360 mm

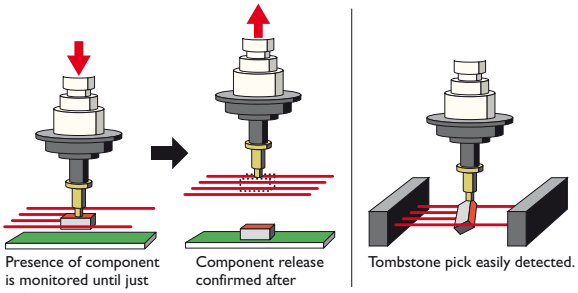
Laser centering technology

JUKI's LNC60 laser sensor for high-speed & high quality placement

The LNC60 laser sensor has the unique ability to center components up to 33.5 x 33.5 mm. From ultra-small, ultra-thin, chip-shaped parts to small QFPs, CSPs, BGAs, a wide range of parts can be precisely centered by the laser recognition system at high-speed.

Component check function improves placement reliability

Since the laser is mounted on the head, it can be used to monitor the presence of components, the entire time from pick to placement. This is difficult to accomplish with vacuum detection only. The placement reliability is also improved because the release of the component is confirmed after placement.

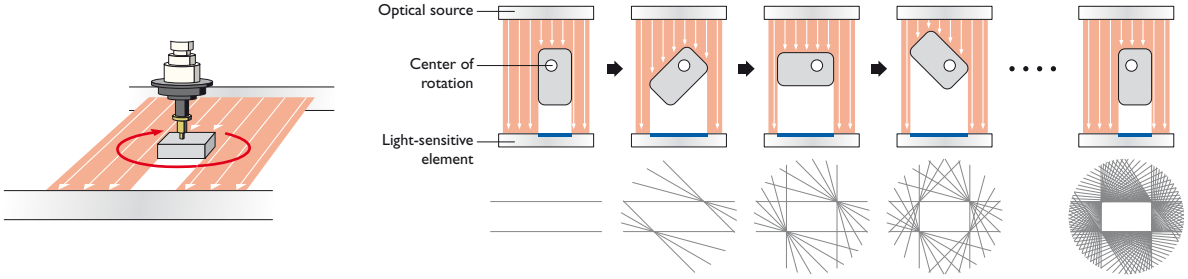


Presence of component is monitored until just before placement.

Component release confirmed after placement.

Tombstone pick easily detected.

LNC60 A concept in component centering that is capable of on-the-fly centering of 6 components simultaneously.

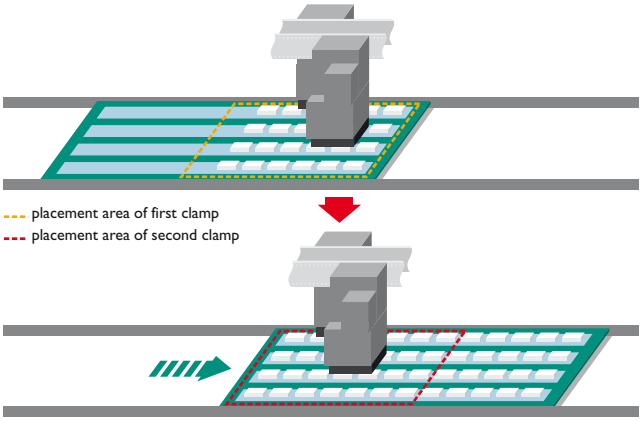


Tangential Line Centering™ achieves both a wider component range and higher accuracy all at the same time. The LNC60 accurately measures the component's center, dimensions, and angular correction all in a single sweep. The optical design has been simplified to give higher reliability in a thinner and lighter package.

Highest flexibility and Quality

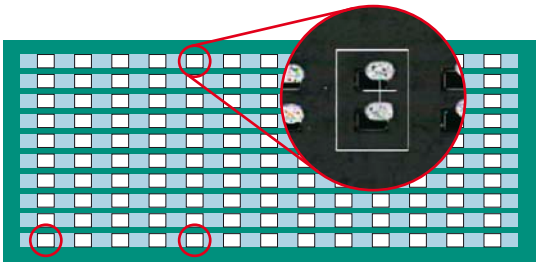
Long board

Capable of placing longer boards up to 800 mm by automatically indexing the board twice.



Solder recognition lighting (option)

Boards without standard fiducial marks can also be handled by using solder paste on pads as fiducials, thus guaranteeing high accuracy placement.



LED Binning control

LEDs are typically sorted into bins according to their brightness. Some applications require all LEDs placed on a board to be from the same bin code to ensure uniformity of the end product. LED binning control on the placement machine will count the number of LEDs on each feeder and display a warning if there are not enough to complete the board.

Nozzles for LED components

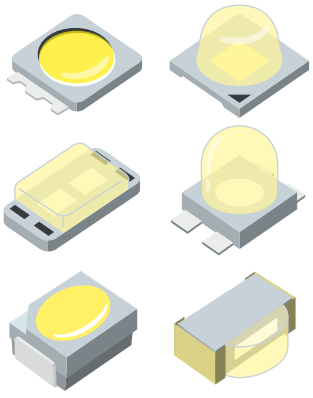
JUKI offers a variety of nozzles for the assembly of LED components.

Standard nozzles

 Nozzle 502	 Nozzle 503
 Nozzle 504	 Nozzle 505

Recommended special nozzles

 Nozzle 538	 Nozzle 557	 Nozzle 567	 Nozzle 577
 Nozzle 578	 Nozzle 597	 Nozzle 598	 Nozzle 959



Specifications

Item		Model JX-100LED
Board size	minimum	50 x 50 mm
	maximum	800 x 360 mm
Component height		0.12 to 12 mm
Component size	Laser recognition	0201 bis 33.5 x 33.5 mm
Placement speed	IPC9850	15,300 cph
Placement accuracy	Laser recognition	±50 µm (Cpk ≥ 1)
Feeder slots		max. 30 (8 mm Tape feeder) max. 60 (8 mm Tape feeder) with rear feederbank (optional)
Power supply		200 to 415 VAC, 3 phases
Apparent power		1.5 kVA
Operating air pressure		0.5 ±0.05 Mpa
Air consumption		max. 345 l/min
Machine dimensions (WxDxH) *2)		1,390 × 1,270 × 1,490 mm
Mass		approx. 1,000 kg

Selection of available options

Recognition system	Lighting unit for solder recognition
Operation system	Handheld operating device (HOD)
Others	Feeder float detection sensor / Blue light kit
Software	External programming unit (EPU) / Antivirus
Component handling and feeders	Tape feeder / Bulk feeder / Stick feeder (SF/SW) / ATF (spliceable tape feeder) / Tape feeder adjustment-jig with monitor / rear feeder bank / Matrix tray holder (only with rear feeder bank)

*** Please refer to the product specifications for details.**

A leading supplier

JUKI is one of the leading worldwide suppliers for SMT assembly systems. Our innovative and reliable customer solutions are developed to meet customers' individual demands and are designed to give 'Lowest Cost of Ownership'. With this philosophy JUKI strives to reach the highest standard of customer satisfaction.

Our understanding of Lowest Cost of Ownership

Often when deciding on the purchase of a new placement system, only the initial investment cost and the theoretical placement rate are considered. This overlooks many other factors that make up the overall production cost; consumables, spare parts and service can also be a big cost factor. Such things as changeover times, machine breakdowns and the difference between the theoretical and actual throughput rate significantly affect productivity. Maintenance, programming and operator training account for additional personnel cost. Thanks to our many years of experience building flexible modular placement systems JUKI has gained an outstanding reputation. Data from the market has shown that, compared to systems from other manufacturers, JUKI clearly provides the highest reliability and lowest cost of ownership in the industry.

EUROPE

Headquarters
Solothurn, Switzerland
Telephone +41 32 626 29 29

Nuremberg, Germany
Telephone +49 911 93 62 660

Crawley, England
Telephone +44 (0) 1293 59 22 70

AMERICA

Headquarters
Morrisville, NC
Telephone +1 (919) 460 0111

ASIA

Juki Corporation
Tokyo, Japan
Telephone +81 3 3480 3371

Please contact our headquarters or your nearest JUKI sales office for further information or alternatively visit our website:
www.jas-smt.com

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JUKI