

Flexible compact mounter
JX-100

- Superior Cost Performance
- Superior Versatility
- Reliable Quality
- Easy Operation



Flexible compact mounter

JX-100

A machine with superior cost performance that produces maximum results with minimum investment.

The machine combines high production capacity with its versatility at reasonable cost. Best suited for a company starting out surface mount. Easy to operate and compact for smooth installation.



Superior Cost Performance

- Focusing on essential functions and achieving high productivity in a compact body at low cost.
- Utilizes the same highly accurate state-of-the-art laser centering found on higher end models.

High-speed on-the-fly Simultaneous Centering using the 6-nozzle Multi-laser Head for high-speed and high precision placement.

Laser centering unit installed on the head allows direct travel from pick position to placement position while centering the components. Up to 6 components can be pick simultaneously for high productivity.

Highest-in-class productivity

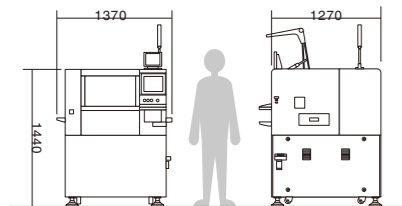
Mounting time: 0.235 sec/chip
15,300cph (IPC9850)



Laser sensor: LNC60

Smaller and lighter body

Machine dimension (mm)



Weight: approximately 1,000 kg

Power-saving design

Power consumption is about half that of a typical placement machine, saving on operational costs. (Apparent power = 1.5 kVA)

Sharing resources

Intelligent planning in the design allows the JX-100 to share feeders and nozzles with other Juki models.

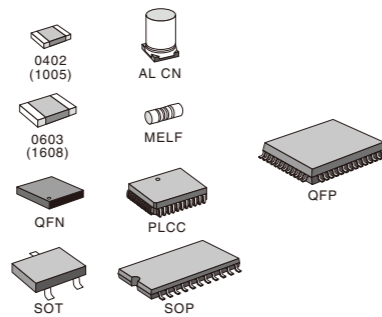
Superior Versatility

- Able to place a wide range of component types allowing the production of a wide variety of circuit boards.

Superior flexibility

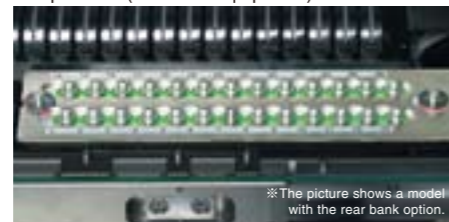
The JX100 has a wide component range, placing parts from 0402 (1.0mm x 0.5mm) to 33.5mm.

chip sizes
0402 (0201) ~ 33.5mm
(inch)



Automatic Tool Changer (ATC)

Nozzles can be automatically changed during manufacturing according to the type of components (standard equipment)



* The picture shows a model with the rear bank option.

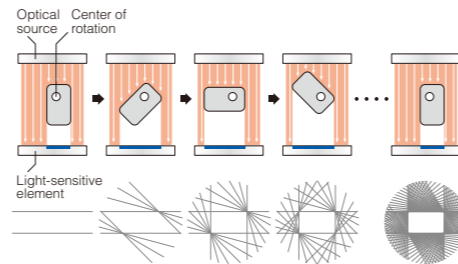


Reliable Quality

- Excellent durability and stability result in high quality over a long machine life.

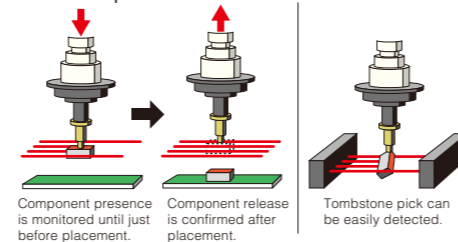
Component Centering Technology Using Laser

Components are rotated 360 degrees in the laser. The entire outline of the component is measured accurately by a high resolution CCD sensor. The exact component position and angle are obtained in a fraction of a second without a side trip to a camera.



High-quality check function

The component is monitored by the laser the entire time from the pick to the placement. This prevents missing placements and also checks for tombstone picks.



Highly rigid frame

Single piece cast iron is utilized for the base frame. This design has superior rigidity, resists vibration, and supports accurate placement for many years.

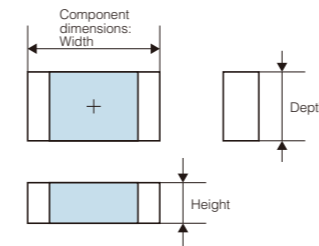


Easy Operation

- Easy operation for entry-level operators. Faster learning curve enables quick introduction of the JX-100 to any factory.

Simplified Data Entry

Component data can be completed by entering simple data such as dimensions. The exact dimensions can be measured automatically by the laser sensor, enabling quick and easy preparation of component data.



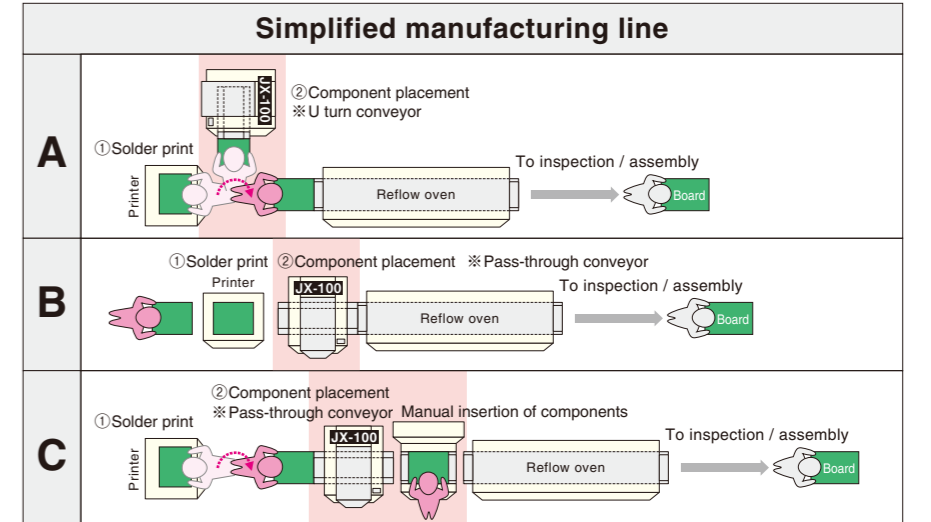
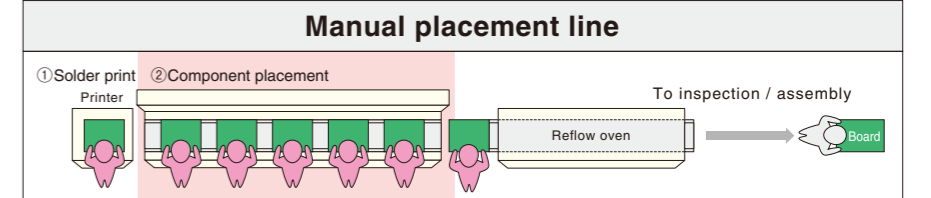
Fully Graphical Touch Panel

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.



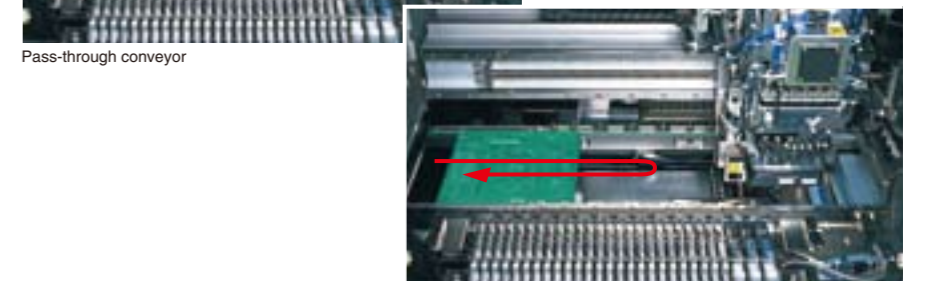
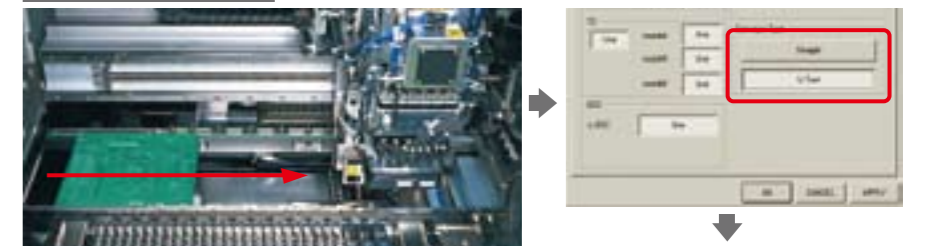
Example of introduction

The JX-100 is the right solution for what you need, when you need it, and as much as you need. It is also well suited for cellular manufacturing.



Easy changeover of conveyor method

The conveyor operation method can be easily switched between pass-through and U-turn.



U turn conveyor

Specifications

Item	Model	Flexible compact mouter JX-100
Board size		Min. 50 × 50 ~ Max. 410 × 360 mm
Board positioning		shape reference
Component height		0.12 ~ 12 mm
Component size		Min. 0402(0201) ~ Max. □33.5mm
Component centering device		Laser centering (LNC60)
Placement speed (chip)	Optimum	0.235 Sec./chip(15,300CPH)IPC9850
	IPC9850	15,300CPH
Placement accuracy		±0.08 mm (±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)		1,370 × 1,270 × 1,440 mm
Weight		Approximately 1,000 kg

* Operating System : Windows XP.

* 2 USB ports are standard.

Options

Recognition system	HMS (Height Measurement System)	Automatically measures the height of the component pick and adjusts pick/placement positions.
Operation system	HOD (Handheld Operating Device)	Enables teaching operation at hand.
Conveyor	Conveyor extension guide	
	Input buffer	
Safety device	feeder float detecting sensor	Detects feeder lift caused by faulty mounting to the feeder bank.
	Short circuit breaker	
Others	Three-color signal light/caster/vacuum pump/air compressor ^(*)	
Software	EPU (External Programming Unit)	Offline programming software
	Flexline DB	Component database
Component handing and feeders	Tape feeder 8 – 72 mm / 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.

*Please refer to the product specifications for details.



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 of industrial sewing machines, household sewing machines, industrial robots, etc., and in the provision of sales and maintenance services for data entry systems:

- (1) The development of products and engineering processes that 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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■ JUKI Specifications and appearance may be changed without notice.

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