

■ Specification

model		Long Board SMT Placement Machine JX-350
item		
Board size	1 time clamping	650 mm ×360 mm
	2 times clamping	1,200 mm ×360 mm
	3 times clamping ^{※1}	1,500 mm ×360 mm
Component height		6 mm /12 mm
Component size	Laser recognition	0603(0201)~□33.5 mm
Placement speed	Optimum	32,000CPH
	IPC9850	21,000CPH
Placement accuracy		±0.05 mm (Cpk≥1)
Feeder inputs	Standard	Max.40 in case of 8mm tape
	For rear-side fixed electrical feeder bank specification ^{※1}	Max.160 in case of 8mm tape(on a Electric double tape feeder)
Power supply		200 to 415VAC,3-phase
Apparent power		2.2kVA
Operating air pressure		0.5±0.05MPa
Air consumption		50L/min
Machine dimensions (W×D×H) ^{※2※3}		1,920×1,580×1,500 mm
Mass(approximately)		1,670kg

※1 This function is supported with an option.
※2 Dimensions of machine described are for conveyor height 900mm.
※3 When equipped with the long board option(1,500mm),the machine width is 2,520mm.

■ Options

Recognitions system	HMS (Height Measurement System)/Bad mark reader
operations system	HOD/Feeder position indicator/Rear Feeder-float detecting sensor
Inspection function	SOT detection check function
Conveyor	Applicability to long PWB (1,500 mm) / Automatic board width adjustment / Support pin/Additional support pin/support sponge for long PWB / IN.OUT buffer
Electrical protection	Ground-fault interrupter
Others	FCS calibration jig / Super foot / Caster / Solder lighting / Joint cable
Software	EPU
Component handling and feeders	Tape feeder (8 mm ~72 mm) / Stick feeder / Matrix Tray server TR5S ^{※1} / TR5S attachment kit ^{※1} / Tray Holder/ Tray Station / Trash box ^{※2} / Splicing jig / Tape reel mounting base / Feeder Stocker / Feeder Calibration Jig with Monitor / Inspection Calibration Jig for an Electric Feeder

※1 TR5S installation kit is required to use the TR5S matrix tray server.
※2 Tray station is required to use the tray holder on rear side.

■ Security Soft

Virus mesurement software	White list(standard)
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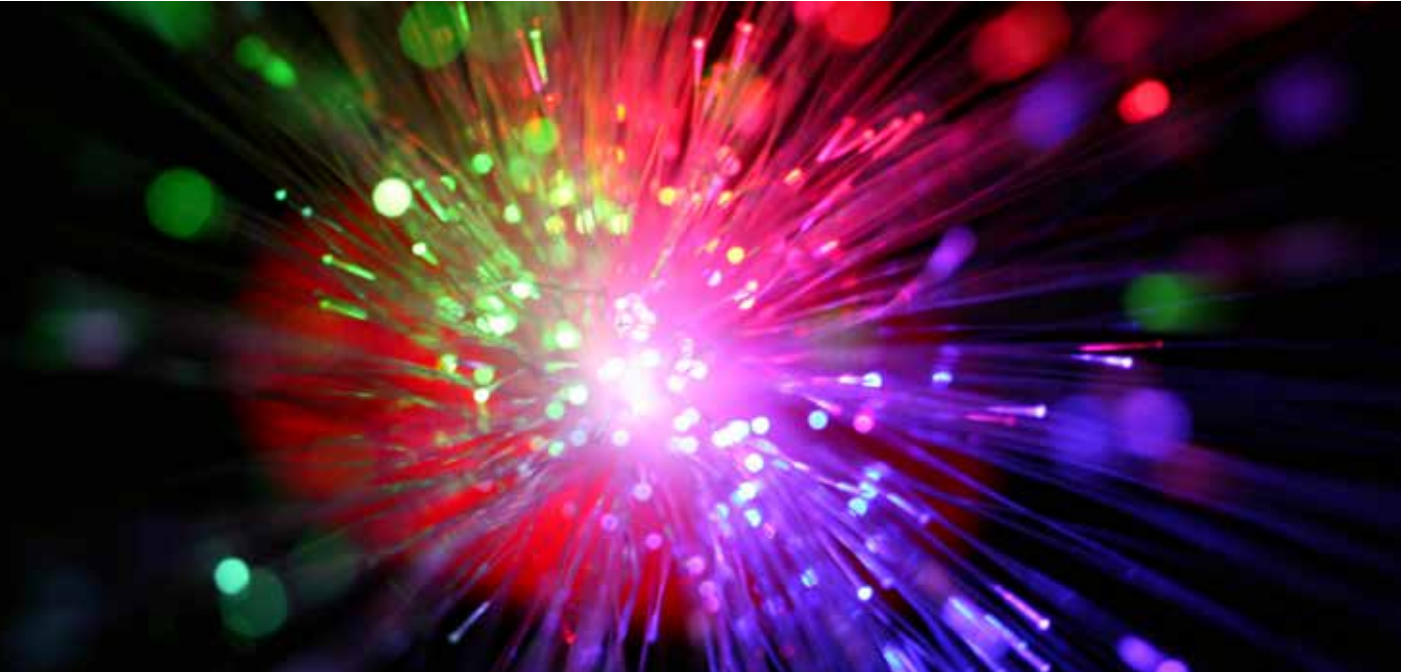
Long Board SMT Placement Machine

JX-350

JUKI



3E EVOLUTION

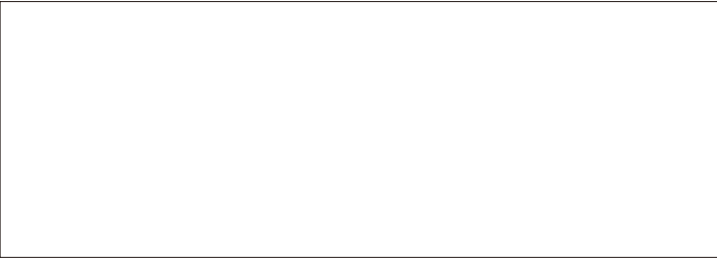


JX Series - Taking Placement to the Next Stage

※Please refer to the product specifications for details.



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An environmental management system to promote and conduct the following:
(1) Eco-friendly development of products and technologies
(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
in the activities of research, development, design, sales, distribution, and maintenance services of industrial sewing machines and industrial robots, etc., including sales and maintenance services of data entry systems,



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■This catalogue prints with environment-friendly soyink on recycle paper.



Mar-2015/Rev.01

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Expanded versatility for LED production and more!
JX-350 is now available with faster placement speed
and improved placing ability

Long Board SMT Placement Machine

JX-350

- ◎ 32,000CPH chip (Laser centering/Optimum)
- ◎ 21,000CPH chip (Laser centering/ IPC9850)
- ◎ One multi-nozzle laser head (6 nozzles)
- ◎ From 0603(0201) to 33.5mm square components



High Productivity

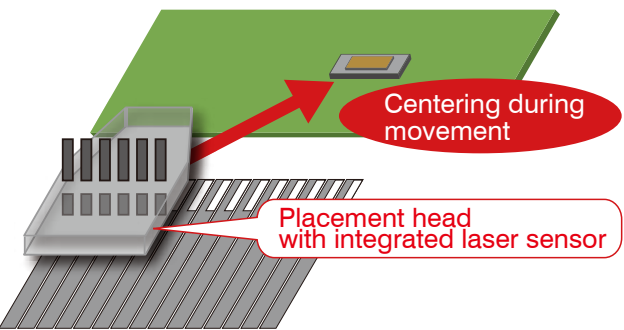
Placement speed of 32,000 CPH (optimum)
18% improvement over existing model

Placement speed of 32,000 CPH is achieved by a lighter weight beam and revised head drive control, resulting in an 18% speed improvement over the existing model. Independent AC servo motor control for each Z and θ axis of the nozzle head enables precise adjustment of nozzle height and angle for high accurate placement.

32,000 CPH (optimum)

JUKI laser centering for high speed, high accuracy placement

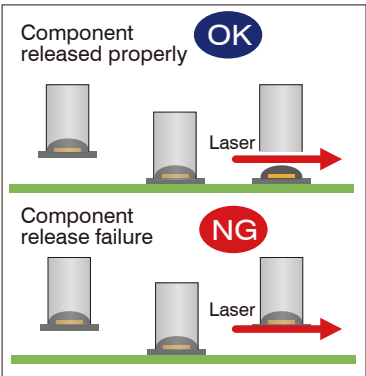
Component centering is done on-the-fly between the pick position and placement location by the integrated laser sensor.



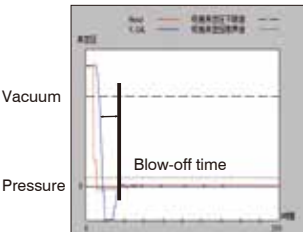
Pick and place by laser recognition

Improved placement quality

Component release is monitored by the laser sensor to ensure components are not picked up after placement. Blow-off can be set for components with sticky top surfaces.



Component release check



Blow time setting

High Flexibility

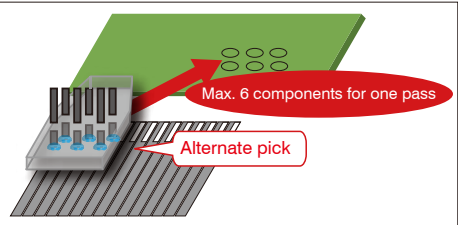
Alternate pick by long nozzles^{*} achieves high-speed placement for large component up to 25 mm diameter.

Long nozzle enables pick, recognition and placement of 6 large components, up to 25 mm diameter, and diffusion lens in one pass.Reduced head unit movement improvise productivity significantly.

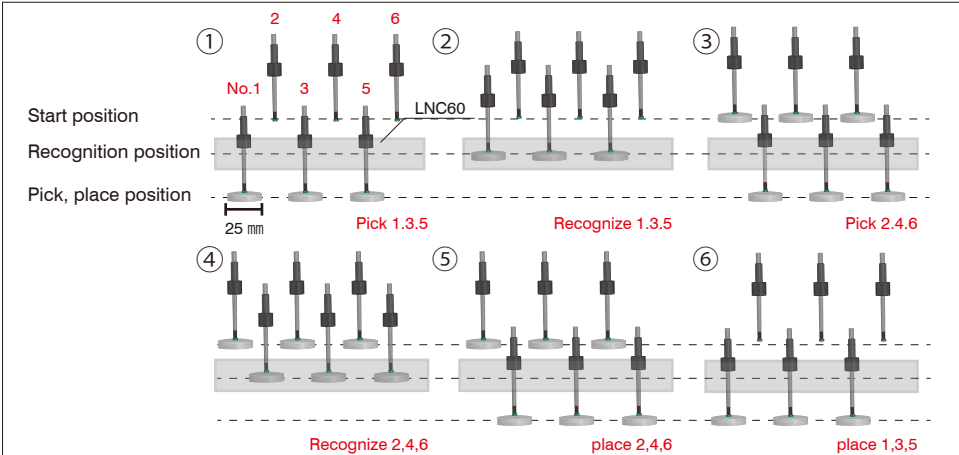
^{*}Available as an option.
Please contact us for details.



Recognition by long nozzle



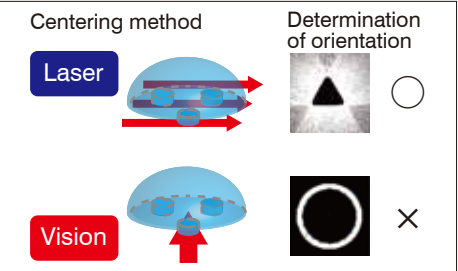
6 components placement for one pass



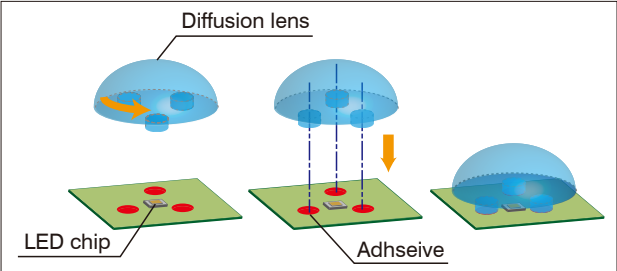
Pick and place method by alternate pick

High-precision placement of diffusion lenses

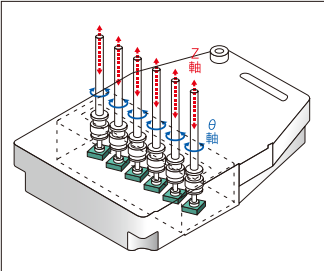
JUKI laser technology realizes highly accurate placement of diffusion lens by recognizing the main orientation. Independent control of head units Z and θ axis achieves precise placement of large diffusion lens, avoiding interference from other nozzles.



Orientation determination by laser recognition



Diffusion lens placement

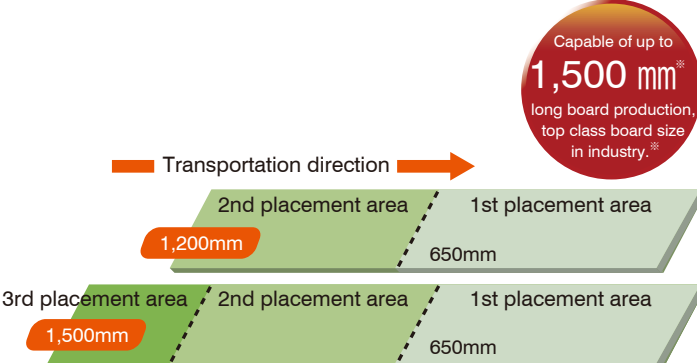


Individual control of Z axis and θ axis

Capable of up to 1,500 mm long board production, top class board size in industry.^{*}

This model is capable of 650 mm width PWB production with one clamp (standard).Long board production up to 1,500 mm is available, top class board size in industry.^{*} For long board production requiring several clamps, the machine can set the placement area for each clamp and optimize the placement distribution in order to improve the productivity significantly.

^{*} option



Capable of up to 1,500 mm^{*} long board production, top class board size in industry.^{*}

Long board placement

Various supply methods^{*}

Users can choose either electrical or mechanical tape feeder specification. Rear side bank can also supply components^{*}, capable of feeder, tray and matrix tray server TR5S.^{**} Improved versatility allows both chip and tray components to be placed.

^{*}1 option
^{**}2 TR5S attachment unit is necessary.



Tray supply



Electric tape feeder



Mechanical tape feeder



TR5S