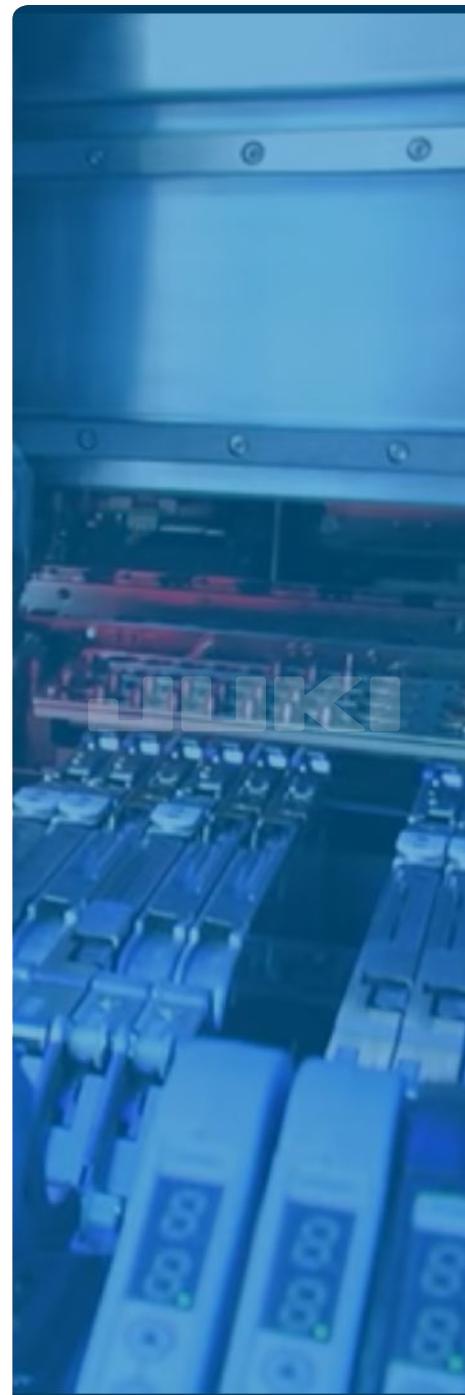
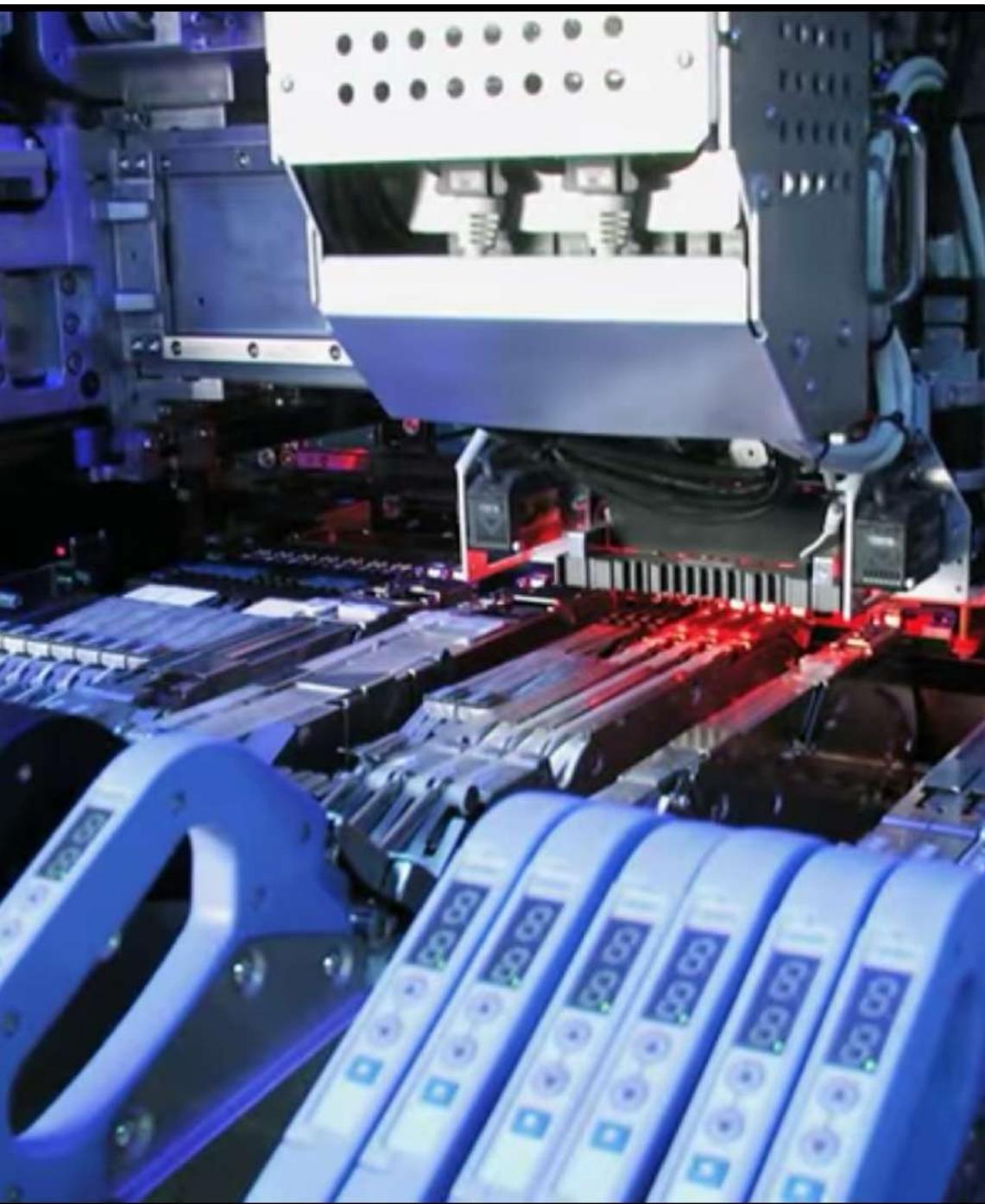
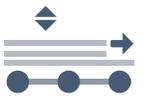
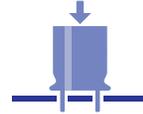
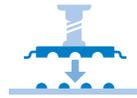
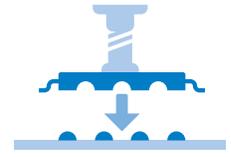


# RX-6R/RX-6B

**JUKI**

JUKI Smart Solutions

High Speed Compact Modular Mounter  
*Combining High Productivity, Flexibility and Quality*



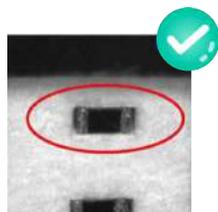
JUKIs already reliable technology has evolved to an all new level! The compact RX-6R/RX-6B offers high Productivity, Flexibility and Quality... in a compact footprint!



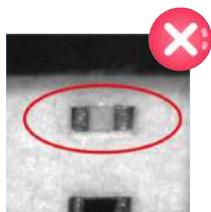
## FEATURE 1: Prevention of defective PWBs and rapid analysis

An ultra miniature camera built into the head section captures images of component pick and placement in real time. An analysis is run for presence/absence and traceability information can be saved. This unique function prevents defective PWBs and reduces the time for root cause failure analysis.

**Component upside down:** If a component is supplied upside down, an error is displayed and the machine is stopped automatically.



Correct component orientation



Component supplied upside down



Error message and details displayed to operator

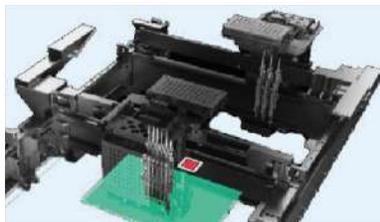
## FEATURE 2: Machine construction for high-speed component placement

High-speed component placement in a very compact footprint: 1.25m wide. Each machine is equipped with two heads, each with its own LaserAlign sensor. Components are centered on-the-fly between the pick and placement location. Direct travel between the pick and placement enables high speed placement with great accuracy.

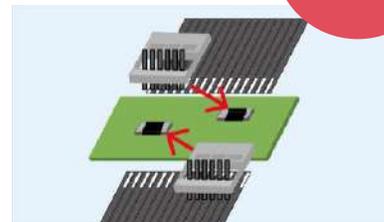
Rated  
29,000 CPH  
(IPC9850)



1.25m wide small-foot design



Two heads and two beams per machine



Direct travel to the placement position

## FEATURE 3: Vision recognition technology for high-speed component placement

- Dual cameras enables high speed placement of large and odd-form components
- Dual centering technology: Each head includes a LaserAlign sensor in addition, dual upward looking strobing cameras capture images in high speed for large, fine pitch, or odd-form components.
- Dual centering methods allow the machine to use the fastest and best method for each component type, based on size, shape and design.

Back light recognition



Bottom recognition

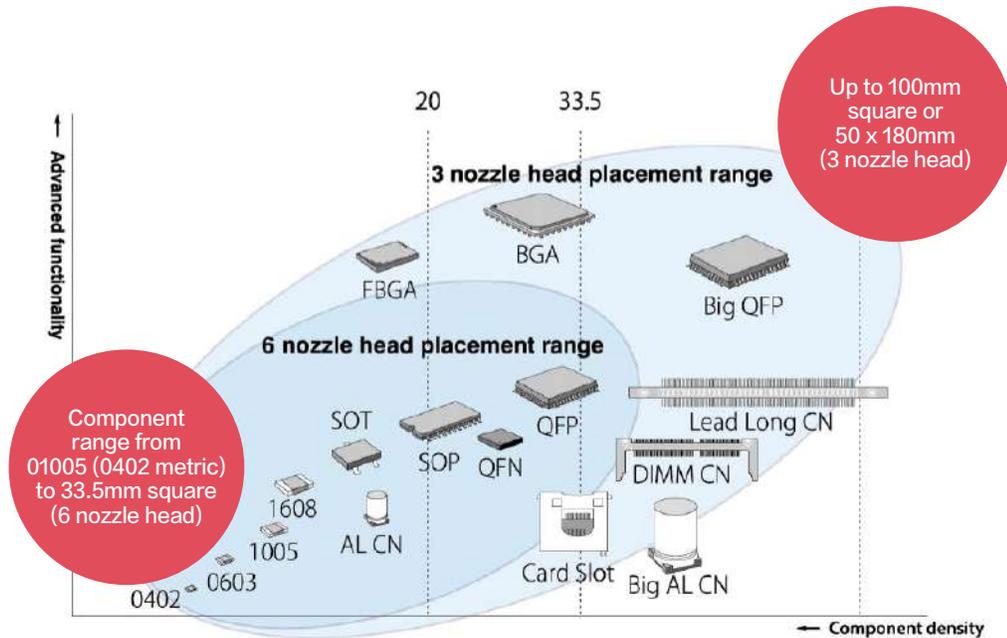


Side recognition



## FEATURE 4: Wide component range

The 6 nozzle head supports components from 0402 (01005) up to 33.5mm square and height up to 33mm. The 3 nozzle head supports an even wider variety: from 0402 (01005) chips up to 100mm square or 50mm x 180mm long connectors with height up to 33mm. These heads are designed to handle a wide variety of components from ultra miniature resistors to large ICs or connectors.



## FEATURE 5: Flexibility by changing the head unit

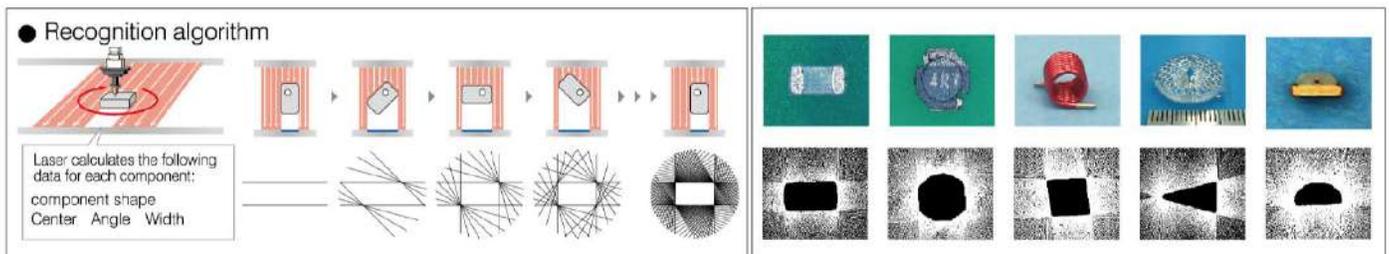
The rear head can be changed between a 6 nozzle head and a 3 nozzle head, giving greater flexibility to configure the production line to according to the current requirements.

## FEATURE 6: PoP (Package on Package) support

3D or package-on-package (PoP) placement is possible using the optional fluxer units. Support for both flux and solder paste is available.

## FEATURE 7: Laser centering technology for high accuracy placement

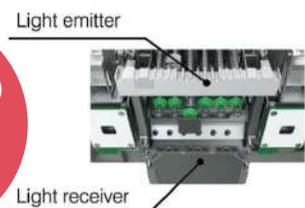
The machine can recognize components of various shapes: from ultra miniature components such as 0402 (01005) chips up to 33.5mm square components such as PLCCs, SOPs, BGAs, and QFPs. When the machine recognizes a component, programming is made simpler and variations such as shape, color, and reflection do not matter with LaserAlign technology.



## FEATURE 8: New LaserAlign™ Technology

New generation LaserAlign™ Technology, LNC120

New LNC120  
LaserAlign™  
Technology



## Specification

### High-Speed Compact Modular Mounter

		RX-6R	RX-6B	
Item		6 x 6 nozzle head	6 x 6 nozzle head	6 x 3 nozzle head
Board size	Single lane conveyor	50 x 50 ~ 610 x 590/905 x 590mm (2times clamping)		
	Dual lane conveyor	-	50 x 50 ~ 360 x 250mm <sup>*1</sup>	
Component height		6/12/20mm	6/12/20/25/33mm	
Component size	Laser recognition	0402 (01005")~□50mm	0402 (01005")~□50mm	0402 (01005")~□33.5mm
	Vision recognition <sup>*2</sup>	Standard camera	□3~□33.5mm	□3~□33.5mm
High resolution camera		1005~□20mm	1005~□20mm	1005~□48mm/24x72mm
Placement speed	Chip IPC9850	29,000CPH	26,000CPH	23,000CPH
	IC <sup>*3</sup>	14,000CPH	14,000CPH	11,000CPH
Placement accuracy	Laser recognition	±0.04mm (Cpk ≥ 1)	±0.04mm (Cpk ≥ 1)	
	Vision recognition <sup>*2</sup>	±0.04mm	±0.04mm	±0.03mm
Feeder capacity		Max. 160 in case 8mm tapet (on a Electric double tape feeder)		
Power supply		200~415VAC, 3-phase		
Apparent power		3.3 kVA		
Operating air pressure		0.5 ± 0.05MPa		
Air Consumption (standard)		100L/min		
Machine dimensions (W x D x H) <sup>*4</sup>		1,250 x 2,095 x 1,440mm		
Mass (approximately)	Single lane conveyor	1,800kg	1,800kg	
	Dual lane conveyor	-	1,830kg	

\*1 Single lane conveyor specification mode max 360 x 450mm

\*2 Optional

\*3 Placement speed of IC components is estimated value when placing 36 pieces QFP component (dimension 10mm square or smaller) on M size PWB overall, picking both front and rear side with all nozzles simultaneously.

\*4 Machine width measure (D) does not include display. Machine height measure (H) does not include signal light and display.

### Options

Recognitions system	High-resolution camera
Operating System	Windows 7
Inspection function	Coplanarity sensor/Component Verification System (CVS)/SOT detection check function
Conveyor	Conveyor extention
Electrical protection	Ground-fault interrupter
Force Control	Force control nozzle
Others	FCS calibration jig/Mini signal light tower/Super foot/Offset placement after solder screen-printing Solder lighting/Placement monitor (data storage & analysis function)/Fluxer unit (Linear Type, Rotary Type) Castor/Rear-side operation unit
Software	IS/IFS-NX/EPU
Component handling and feeders <sup>*</sup>	Feeder Trolley/Electric tape feeder/Electric stick feeder/High Speed Matrix Tray Server TR7DN/TR8S Tray Holder/IC collection belt/Trash box/Tape reel mounting base/Feeder trolley Feeder stocker/Splicing jig/Feeder Calibration Jig with Monitor/Tray holder/Electric Trolley Power Station

\* Component handling and feeders are Electronic type only.

\* Please refer to the product specifications for details



JUKI CORPORATION HEAD OFFICE

The activities of research, development, design, sales, distribution, and maintenance services of industrial sewing machines, household sewing machines and industrial robots, etc., including sales and maintenance services of data entry systems.

\*Please refer to the product specifications for details.

■ JUKI Specifications and appearance may be changed without notice.

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# JUKI

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