Specifications

High-Speed Compact Modular Mounter RX-8		
Board size		50×50～510mm*1 *2×450mm
Component height		3mm
Component size		0201*3～□5mm
Placement speed (optimum)	Chip	100,000CPH
Placement accuracy		±0.04mm (Cpk ≧1)
Feeder capacity		Up to 56 *4
Power supply		3-phase AC200V, 220V - 430V *5
Apparent power		2.1kVA
Operating air pressure		0.5±0.05MPa
Air consumption (standard)		20L/ min ANR (during normal operation)
Machine dimensions (W×D×H)*6		998mm×1,895mm×1,530mm
Mass (approximately)		1,810 kg (with fixed bank) / 1,760 kg (with bank changing)

*1 BOC, Bad Mark, and 2D barcode can be read only if board length is from 50mm to 350mm
*2 In long board mode (two boards can be produced simultaneously up to 420mm long).
*3 Please contact JUKI for details.
*4 When using RF08AS
*5 220V - 430V requires a separate transformer
*6 Depth D does not include the monitor, and height H does not include the signal light when the conveyor height is 900 mm.

Options

Conveyor system	Support pin / Support plate
Other	Dedicated nozzle / Spare nozzle cartridge / Connecting cable / Earth leakage circuit breaker / Work lighting
Available Feeders and Accessories	Feeder bank exchange trolley / Electric tape feeder / Fixed (RF) bank / Feeder setup station Tape splicing jig / Feeder adjustment jig / External power supply for electric feeder banks

Software

JaNets*	User definition / Facility definition / Component DB / Creating production programs / Line optimization / Line monitoring / CAD conversion / Cluster optimization
IFS-NX	Prevents loading parts in the wrong location / Tracks remaining quantity of parts/ Feeder search / External setup verification / Random feeder setup
Virus measurement software	White list (standard)

* Option

*Please refer to the product specifications for details.
■JUKI Specifications and appearance may be changed without notice.

JUKI SMT SITE

JAB MS CM001 JSA EMS ISO 14001 JSAE3889

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.

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Jul- 2021/Rev.00

High-Speed Compact Modular Mounter

RX-8

JUKI Smart Solutions

Highest placement rates per square meter (sq foot)

Achieves high-speed placements of up to 100,000 CPH

SOFTWARE STORAGE PRINTING INSPECTION PLACEMENT INSERTION SOLDERING

Productivity
Connected
Quality

Productivity
Connected
Quality

Highest placement rates per square meter (sq foot)[*2]

Achieves high-speed placements of up to 100,000 CPH[*1]

*Market survey data

Introducing the New P20 head

Feature 1	High-speed placements of up to 100,000 CPH[*1], best-in-class placement rate per square meter (sq ft)[*2]
Feature 2	Integrates seamlessly with the production enviroment
Feature 3	Achieves high quality production

Creates a high-speed, flexible line when combined with the Takumi Head (RS-1R)

Planet head (RX-8)

+

Takumi Head (RS-1R)

* 1 Optimum conditions *2 Market survey data

Productivity Connected

Achieves high-speed placements of up to 100,000 CPH*1

* Optimum conditions

High-speed placements of up to 100,000 CPH.*1 Best-in-class placement rate per square meter (sq ft)*2

New P20 placement head achieves speeds of up to 100,000CPH. At only 998mm wide, the RX-8 provides exceptional productivity in a compact footprint. Best in class placement per square meter (square foot)

* 1 Optimum conditions *2 Market survey data

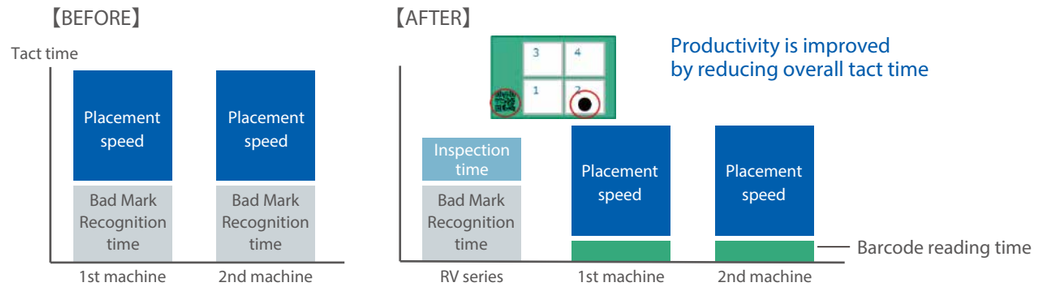
Compact footprint with a width of only 998 mm

Integrates seamlessly with the production enviroment

Efficient production is made possible via upstream data sharing to support bad mark propagation, component supply management while showing real-time status of the production line.

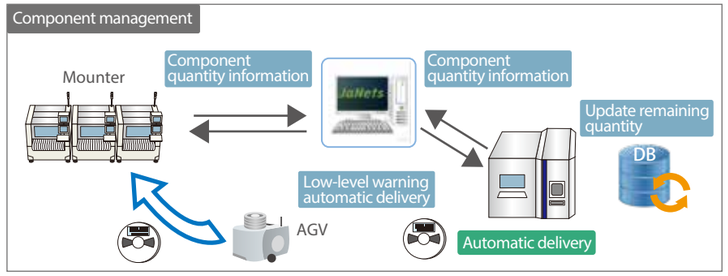
●Communicates and shares informaton with other equipment

Bad mark information of the circuit detected by the inspection machine or a machine upstream of the line can be propagated to the RX-8 in order to reduce the bad mark recognition timed and improve productivity.



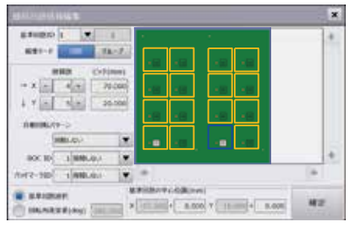
●Component Management with Auto replenishment

Top production efficiency is achieved by continuous monitoring of component consumption and communication with the Automated Component Storage and Transport System. When the placement system detects a low-level warning, it automatically communicates that information to the storage system, which immediately pulls an additional reel of that component, loads it on an AIV to transport the reel to the line to arrive before the existing reel has run out. This eliminates downtime during production due to component run out.



It is very simple to generate PCB programming data

Using visual aids of the board layout makes programming intuitive and simple



Quality

Achieves high quality production

Trace Monitor tracks quality throughout the production process

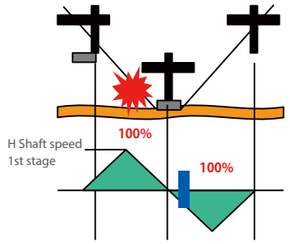
Trace Monitor provides real time status of the placement head during production. It tracks mis-picks, recognition errors and records which feeders and nozzles those errors came from. A dashboard displays all the key performance indicators making it easy to view the production efficiency and what is needed to improve the process.

Trace Monitor dashboard

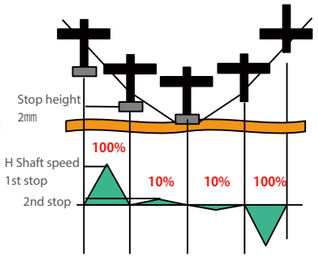
Low impact placement for flexible circuits

Low Impact feature allows separately adjusting the down and up speed of the nozzle during placement. This minimizes the load on the part and on the board during placement. This is optimal for placing very small parts that require a lot of accuracy.

【Typical design】



【Low impact placement】



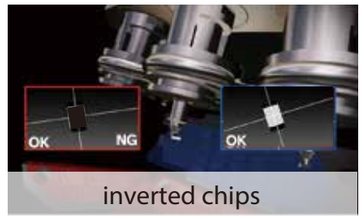
The P20 high-precision planet head is ideal for high speed picking and placing from a single reel.

The P20 is designed for placement of ultra-small chips and small IC's.
It is ideal for high-density and high-accuracy placements of LED edge lights.

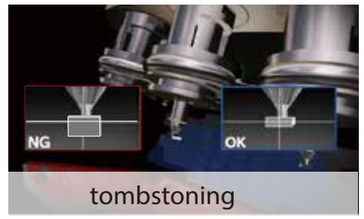
Introducing the New P20 head

State-of-the-art centering and inspection vision system

The vision system detects presence and absensce, inverted chips, and tombstoning. It also automatically corrects the pick position of every part, increasing the pick rate. This system makes it ideal for placing very small parts.



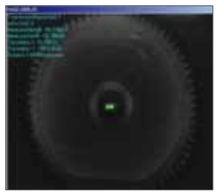
inverted chips



tombstoning

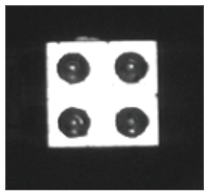
New high accuracy camera for inspection and centering

New coaxial lighting technology gets clearer images and better, more accurate inspection data.

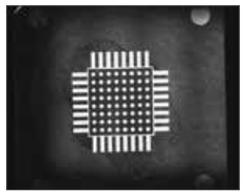


0402 chip (metric)

0603 chip (metric)



Small BGA



Glass Jig