

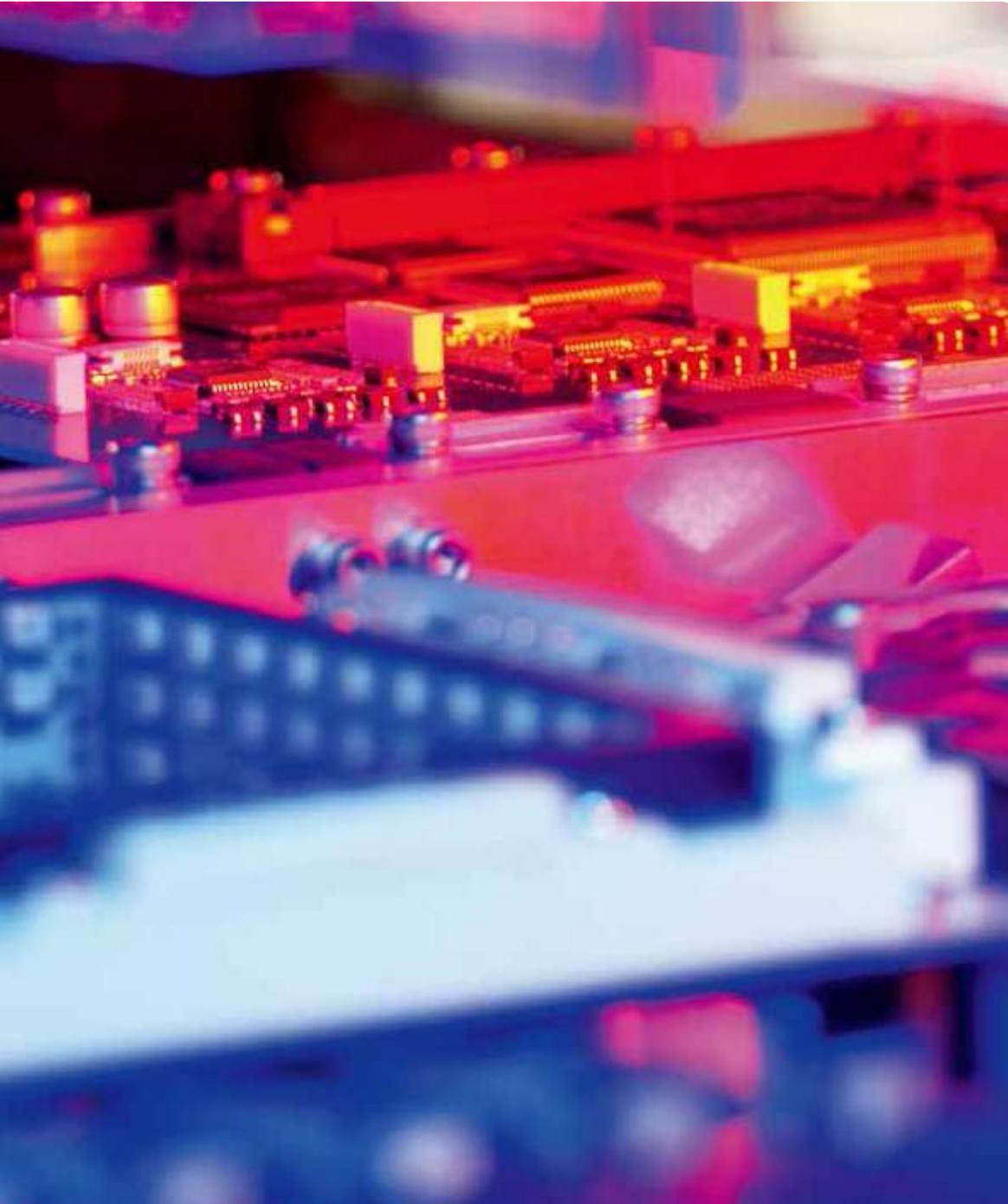
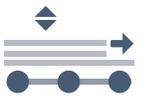
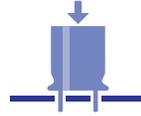
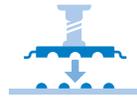
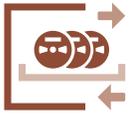
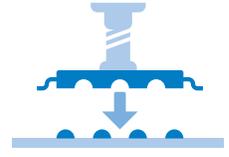
Fast Smart Modular Mounter

# RS-1XL

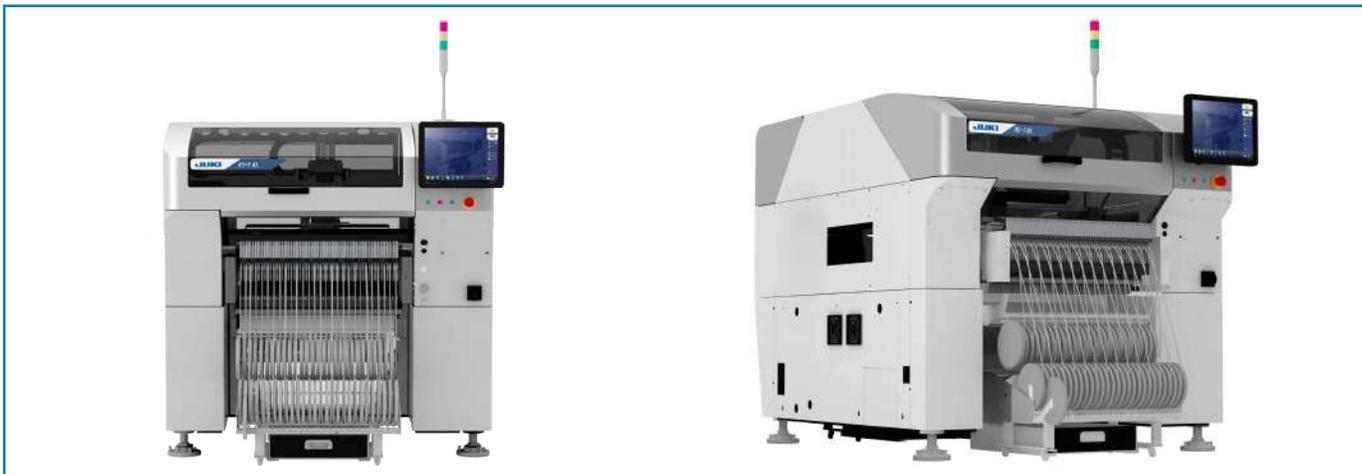
**JUKI**

JUKI Smart Solutions

The ultimate all-in-one mounter  
*High speed + versatility*

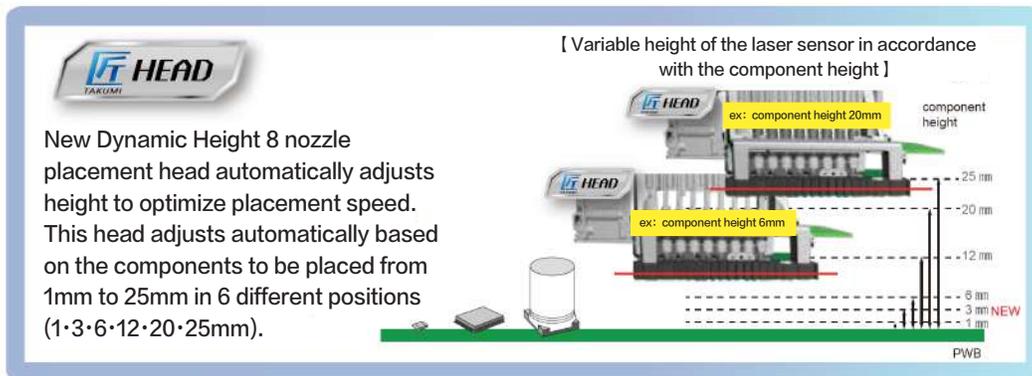


With maximum speed up to 42,000CPH (Optimum) and 29,000CPH (IPC9850), the RS-1XL is designed for maximum throughput. The RS-1XL supports components from 0201 metric (008004") up to 74mm square and 50mm x 150mm rectangular parts for maximum flexibility.



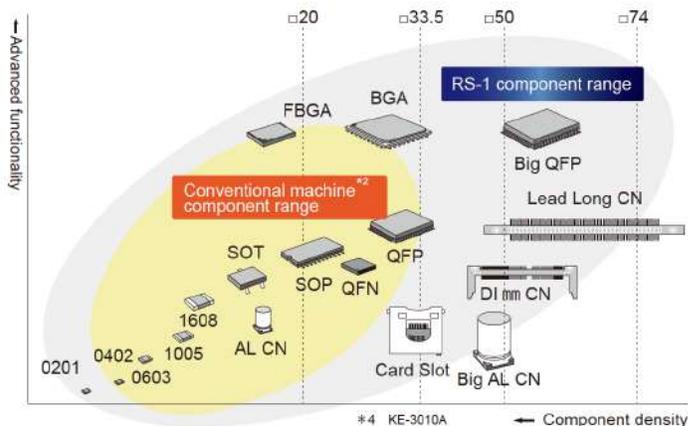
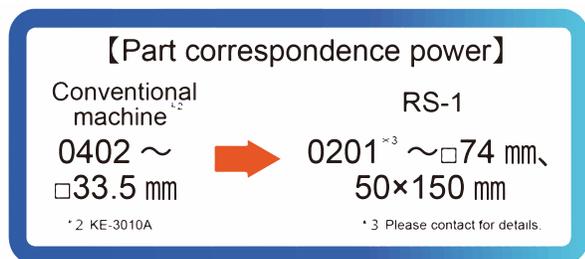
## FEATURE 1: Newly developed "Takumi Head" with changing recognition sensor height

"Takumi head" that automatically optimizes its height between 6 different positions based on component height. Tact time is optimized by keeping the head as close to the PCB as possible for the components placed.



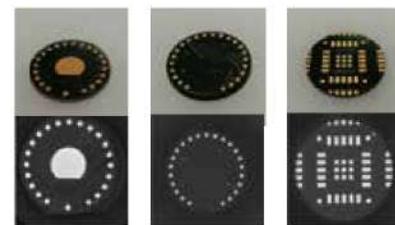
## FEATURE 2: Wide component range 0201 (metric) components supported

RS-1 supports components from 0201\*1 (metric) up to 74mm square or 50 x 150 rectangular parts. Component height up to 25mm. \*1 Please contact for details.



## FEATURE 3: New vision recognition technology

- Component polarity is detected and corrected automatically by the upward looking centering camera (VCS).
- Upside down components: Special algorithms can detect components that are upside down and reject them.
- Small component handling: Components down to 0201 (metric) are supported with the 10mm field of view camera option.



360-degree component recognition image

## FEATURE 4: Auto tape advance function

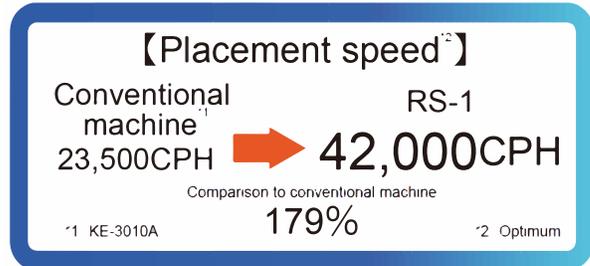
The auto tape advance function reduces setup time by using the fiducial camera to advance new tapes to the first full pocket. Available for 8mm tape and components from 0402 (metric) to 3216.

Index to first full pocket



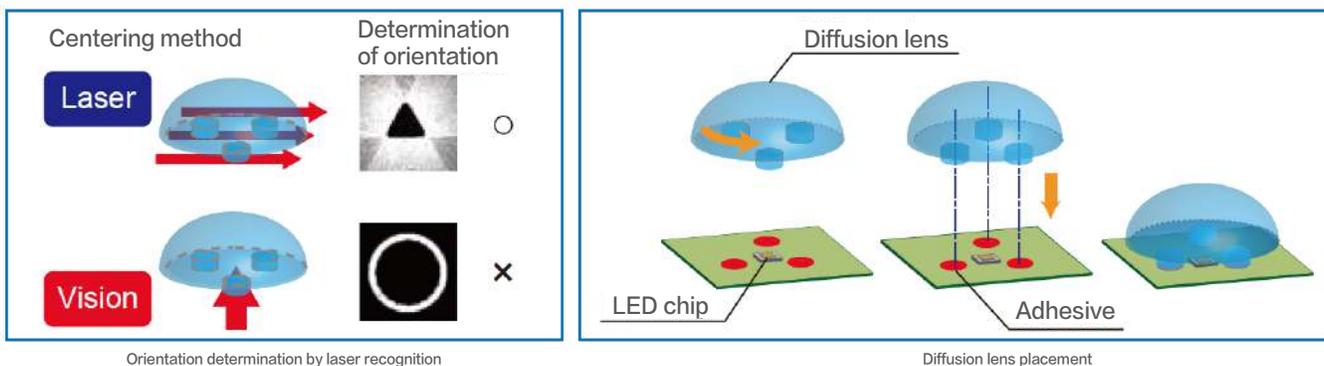
## FEATURE 5: Class leading speed, up to 42,000 cph

Maximum speed of up to 42,000 cph\*. This is made possible by a revolutionary head design that reduces the travel time and distance for every placement. \*Optimum



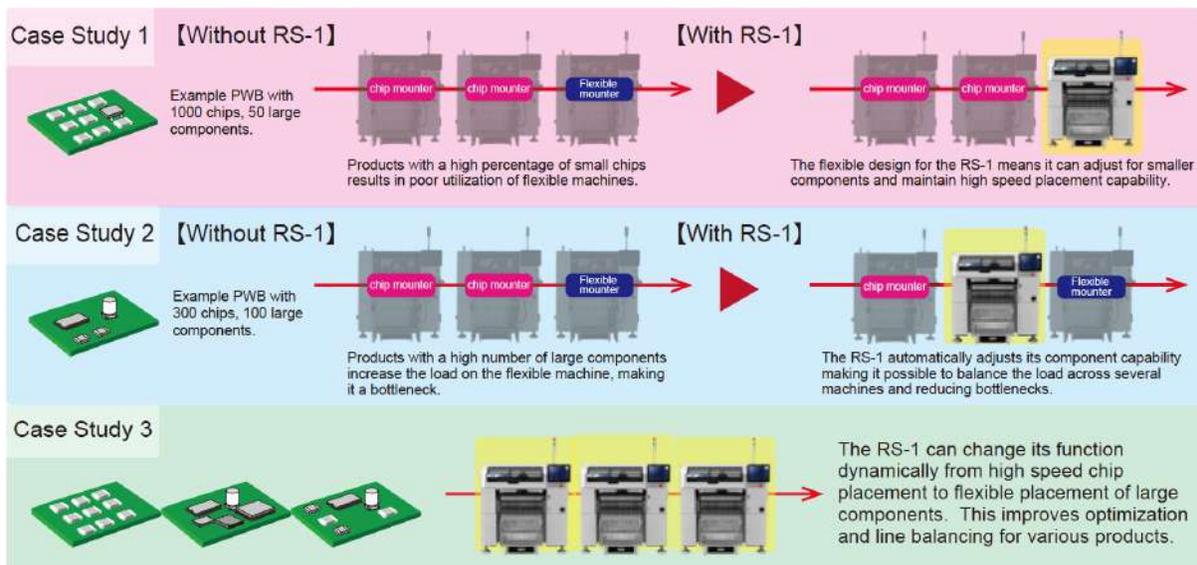
## FEATURE 6: High-precision placement of diffusion lenses

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



## FEATURE 7: Line Balancer: Optimum line balance and highest throughput

Changing the RS-1 functionality does not require head replacement. The revolutionary design adapts to the production requirements automatically. It can be used in-line with high speed chip placement machines to improve overall line productivity or to make the line more flexible for complex PCBs with a high number of large components.



## Specification

RS-1XL		
Board size	50×50 mm~ 650×560 mm	
Component height	25 mm	
Component size	0201 (0.250×0.125 mm) * 1 ~ □74 mm /150×50 mm	
Placement speed	Laser recognition	42,000CPH
	IPC9850	29,000CPH
Placement accuracy	±35μm (Cpk≥1)	
Feeder inputs	Max. 112*2	
Power supply	AC200 ~ 415V*3 .3-phases	
Apparent power	22 kVA	
Operating air pressure	0.5±0.05 Mpa	
Air consumption	200L / min	
Machine dimensions (W×D×H)*4	2,109×2,000×1,440 mm	
Mass (approximately)	1,850 kg	

\*1 For metric 0201 compliance please contact us.

\*2 Using RF (RF08AS) feeders.

\*3 A transformer unit (option) is necessary except AC 200 V.

\*4 D dimension does not include the front operation monitor. H dimension does not include signal tower.

Options	
Recognitions system	10 / 27/ 54 mm view camera
Operating System	Rear-side operation unit / keyboard (front only)
Inspection function	Coplanarity sensor / Component Verification System (CVS)
Conveyor	Conveyor extension / Support pin / Support sponge
Electrical protection	CE compatible specification / Ground-fault interrupter
Force Control	Force control unit / Force control nozzle
Software	JaNets / IFS-NX / Flexline CAD
Component handling and feeders	Feeder Trolley (RF feeder only / RF-EF dual servo*5) / Electric tape feeder (RF/EF*5) / EF feeder adapter*7 / Electric stick feeder*5 (Type-N / Type-W) / Matrix tray server TR8SR , TR5SNX , TR5DNX / Matrix tray changer TR6DXLX / Dual tray server TR1RB / Tray Holder / IC collection belt / Tape reel mounting base (for RF/ for EF) / Splicing jig / Electric Trolley Power Station PW02*6
Others	Nozzle (for RS-1) / Big foot / Offset placement after solder screen-printing Solder lighting/ Non stop operation / Vacuum Pump

\*5 When EF feeders adapt the an attachment of EF feeder, the EF feeder can use on RF/EF feeder trolley and fixed bank (rear side). Please inquire details.

\*6 Separate connection cables for each model are required.

### JUKI ECO PRODUCTS

The RV-2-3DH is an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment.



- The machine complies with the "JUKI Group Green Procurement Guidelines" on the use of hazardous substances, which is stricter than other restrictions, such as those of the RoHS Directive.

JUKI ECO PRODUCTS For details of JUKI ECO PRODUCTS, refer to: [http://www.JUKI.co.jp/eco\\_e/index.html](http://www.JUKI.co.jp/eco_e/index.html)

\*The RoHS Directive is an EU Directive limiting the use of 6 hazardous substances (lead, hexavalent chromium, mercury, cadmium, PBB and PBDE) in electrical and electronic equipment. The JUKI Green Procurement Guideline is the voluntarily established criteria to eliminate not only the aforementioned six substances, but also other ones which also adversely affect the environment.



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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