

**JUKI**

LOWEST COST OF OWNERSHIP

Fast. Smart. Modular.

**RS-1**





# Speed and Flexibility for High Quality Production of any PCB



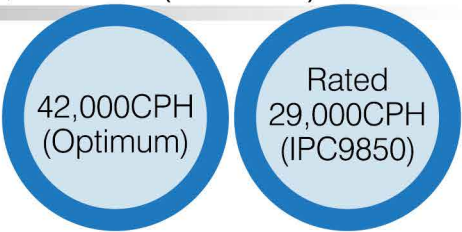
Fast. Smart. Modular.  
**RS-1** has it all.

- ◎ Placement Speed: 42,000CPH (Optimum), 29,000CPH (IPC9850)
  - ◎ Board Size: 650mm x 370mm (single index)  
950mm x 370mm (double index)  
1200mm x 370mm (double index)\*1
  - ◎ Component Size: 0201mm\*2 (008004") ~ 74mm square / 50mm x 150mm
- \*1 Requires 250mm rail extensions  
\*2 For 0201mm compliance please contact us for details

## The RS-1 is the machine for you.

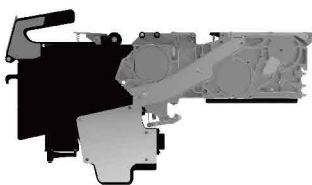
Class leading speed, up to 42,000CPH (Optimum), 29,000CPH (IPC9850)

With maximum speed of 42,000CPH (Optimum), 29,000CPH (IPC9850), the RS-1 is designed for maximum throughput. Using a revolutionary head design, the RS-1 is designed to reduce travel time and distance for every placement.



New RF style feeder design is smaller, thinner and lighter

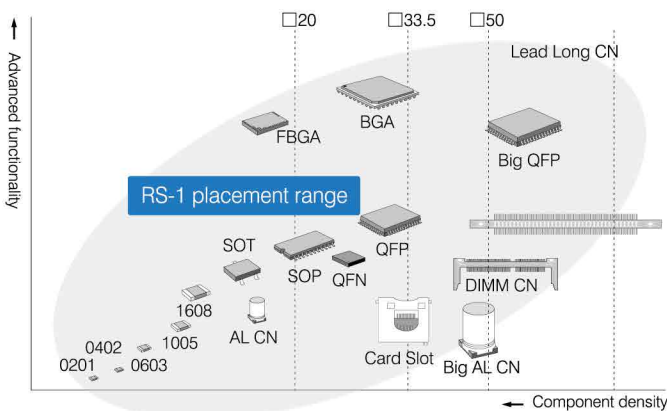
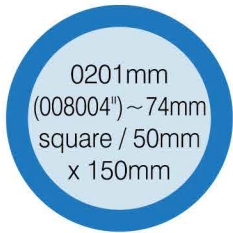
The new RF style feeders are 17% smaller and 50% lighter while maintaining the highest degree of positional accuracy. The new design increases total maximum feeder inputs to 112 for front and rear side.



## Supports a wide component range to build any board

Wide component range

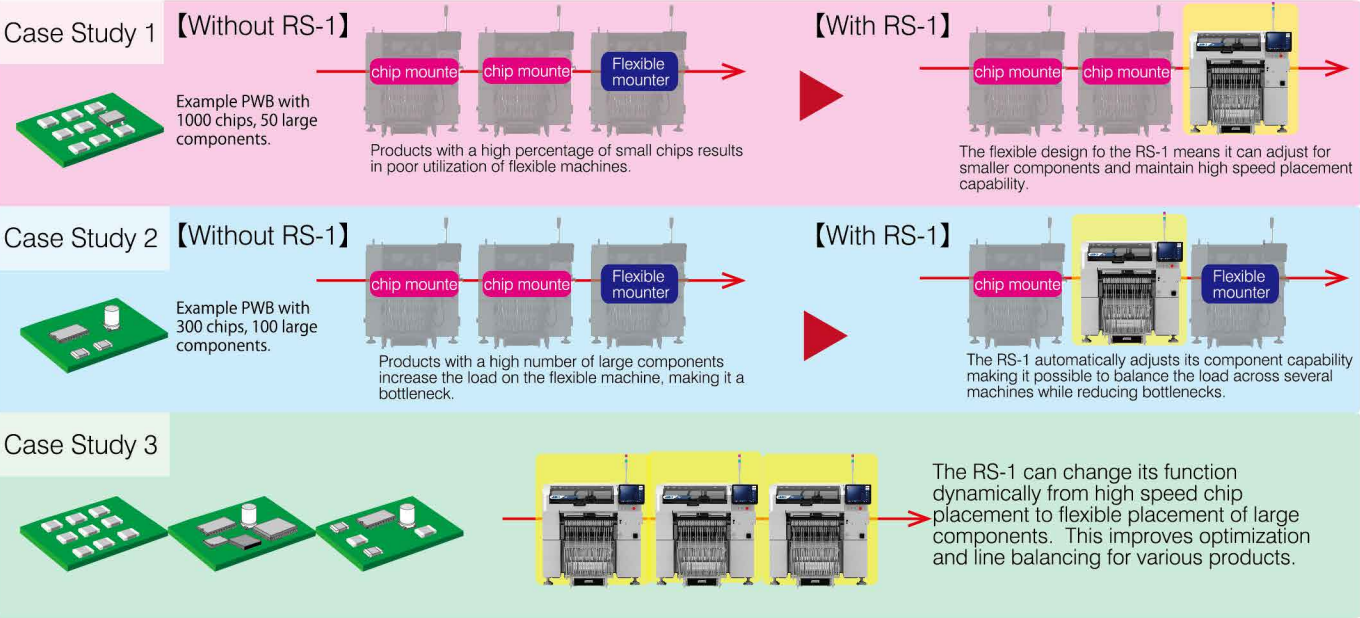
The RS-1 supports components from 0201mm (008004") up to 74mm square and 50mm x 150mm rectangular parts for maximum flexibility. Component height is dynamic to support high-speed with a maximum component height of 25mm.



## Highly Adaptable Design

Dynamically Optimizes Line Balance for highest throughput

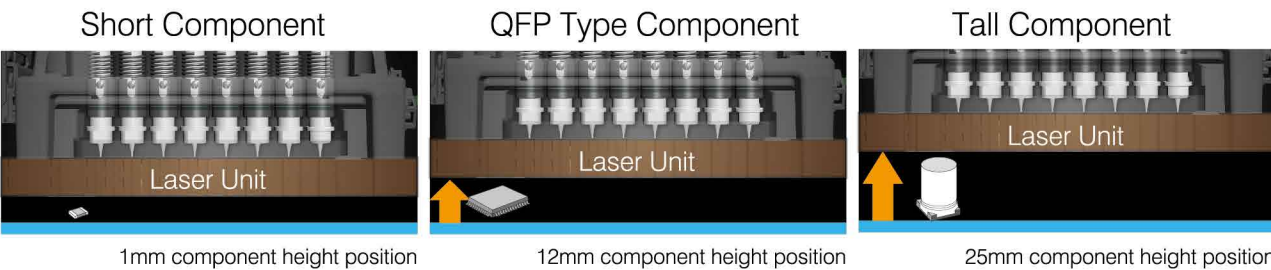
The dynamic functionality of the RS-1 does not require head replacement. The revolutionary head design adapts to the production requirements automatically. It can be used in-line with high-speed chip placement machines to improve overall line productivity or can be used as a flexible machine for complex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



## Smart Technology 1 New Head Design

New head design automatically adjusts the centering height based on components placed.

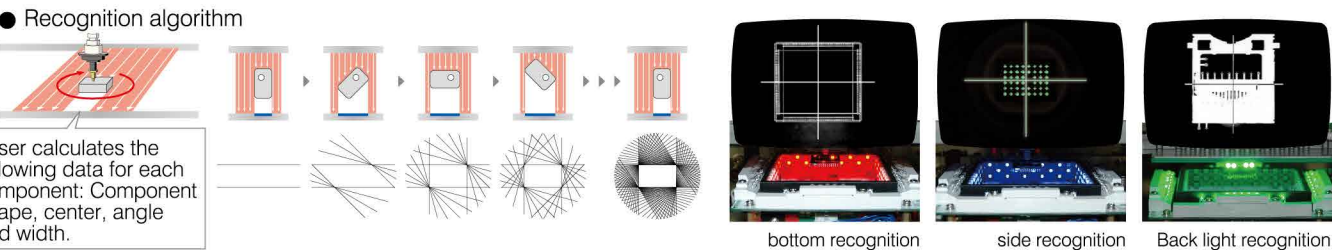
The RS-1 uses a revolutionary new head 8 nozzle design that automatically adjusts the height based on the height of the components to be placed. This technology reduces the Z travel distance to the minimum required and increases throughput. It can adjust from 1mm, 6mm, 12mm, 20mm, or 25mm heights.



## Smart Technology 2 JUKI Technology

Juki Advanced Laser Centering Technology is fast, accurate and reliable for a wide range of parts.

A wide range of components are supported to include PLCC, SOP, QFP, BGA and many more. Size range is from 0201mm (008004") to 50mm square.





## ■ Specification

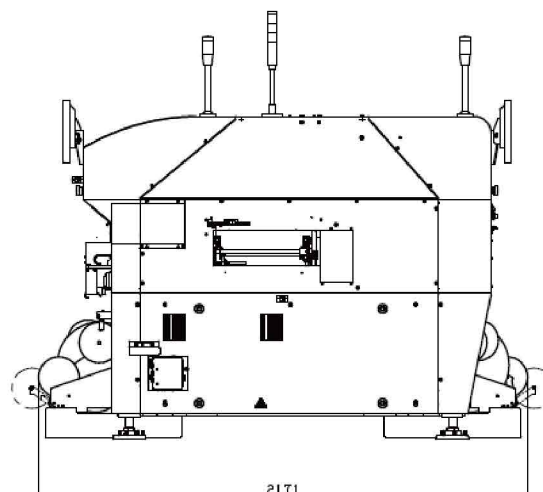
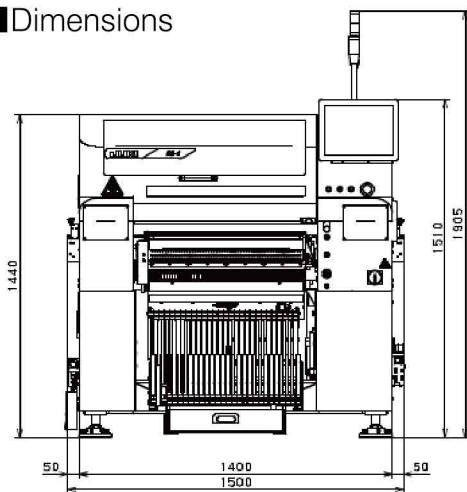
| model                        |         |          | RS-1 Fast. Smart. Modular.                      |   |
|------------------------------|---------|----------|---|---|
| item                         |         |          |   |   |
| Conveyor specification       |         |          | standard  | 250mm conveyor extensions,<br>upstream and downstream |
| Board size                   | minimum |          | 50 × 50mm                                       |   |
|                              | maximum | 1 buffer | 650 × 370mm (Single Clamping)                   |   |
|                              |         |          | 950 × 370mm (double clamping)                   | 1,200 × 370mm (double clamping)                       |
|                              |         |          | 3 buffers                                       | 360 × 370mm   |
| Component height             |         |          | 25mm  |   |
| Component size               |         |          | 0201mm (008004")*1 ~ 74mm square / 50mm × 150mm |   |
| Placement speed              |         |          | 42,000CPH (Optimum)<br>29,000CPH (IPC9850)      |   |
| PWB Thickness                |         |          | 0.3mm to 4mm                                    |   |
| Placement accuracy           |         |          | ±0.035mm(Cpk ≥ 1)                               |   |
| Feeder inputs                |         |          | max. 112*2                                      |   |
| Power supply                 |         |          | 200 ~ 415VAC,3-phase                            |   |
| Apparent power               |         |          | 2.2kVA  |   |
| Operating air pressure       |         |          | 0.5±0.05MPa                                     |   |
| Air consumption              |         |          | max.50L/min                                     |   |
| Machine dimensions (W×D×H)*3 |         |          | 1,500 × 1,810 × 1,440mm                         | 2,000 × 1,810 × 1,440mm                               |
| Mass (approximately)         |         |          | 1,700kg   |   |

\*1 For 0201mm compliance please contact us for details


\*2 When using RF feeder (total for front and rear)

\*3 Depth dimension does not include front operation monitor. Height dimension does not include signal tower.

## ■ Dimensions



unit : mm

|   |  |
|---|--|
| <b>JUKI ECO PRODUCTS</b><br> | The RS-1 is an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment.<br>● 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.<br>※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. |
|---|--|

|  |   |  |
|--|---|--|
| <br>CM001 | <br>EMS<br>JIS Q 14001<br>ISO 14001<br>JSAE399 | <br>089 |
|--|---|--|

**JUKI CORPORATION HEAD OFFICE**  
 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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