

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	Optimum	42,000CPH
	IPC9850	29,000CPH
Placement accuracy		±35μm (Cpk≥1)
Feeder inputs		Max. 112*2
Power supply		AC200 ～ 415V*3 .3-phases
Apparent power		2.2 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.

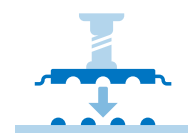
Option

Recognitions system	10 / 27/ 54 mm view camera
Operations system	Rear-side operation unit / keyboard (front only)
Inspection function	Coplanarity sensor / Component Verification System (CVS)
Conveyor	Conveyor extention / 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.

Fast Smart Modular Mounter

RS-1XL



The ultimate all-in-one mounter
High speed × versatility



JUKI ECO PRODUCTS



JUKI ECO PRODUCTS

This is an eco-friendly product that meets the environmental protection standards of JUKI ECO PRODUCTS.

●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. For details of JUKI ECO PRODUCTS, refer to: <https://www.juki.co.jp/company/eco/>

*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

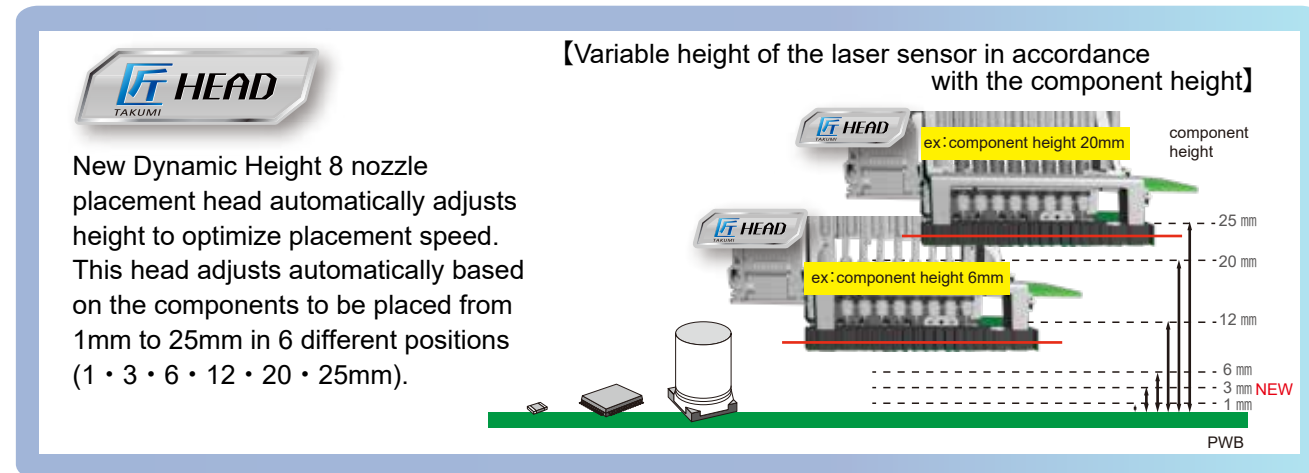
The activities of research, development, design, sales, distribution, and maintenance services of industrial sewing machines, household sewing machines and industrial robots, etc., including sales and maintenance services of data entry systems.

Feature of RS-1XL

High speed × versatility

Feature1 Newly developed "Takumi Head" with changing recognition sensor height

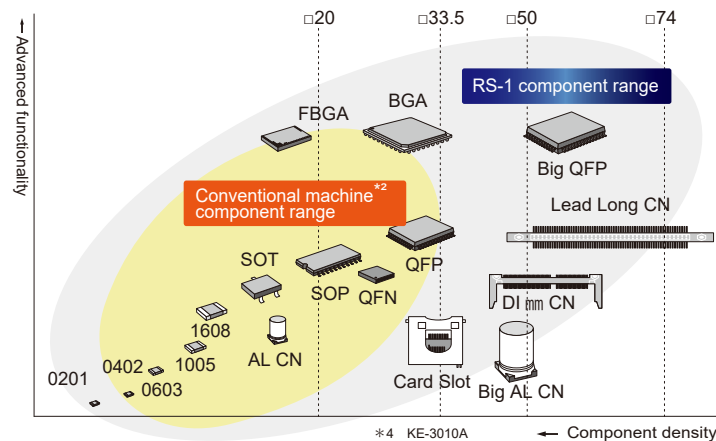
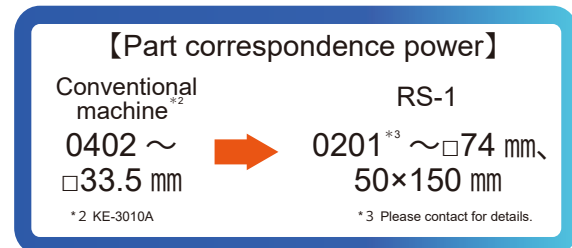
"Takumi head" that automatically optimizes its height between 6 different positions based on component height. Tact time is optimized by keeping the head as close to the PCB as possible for the components placed.



Feature2 Wide component range 0201 (metric) components supported

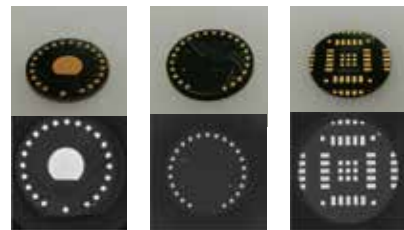
RS-1 supports components from 0201^{*1} (metric) up to 74mm square or 50×150 rectangular parts. Component height up to 25mm.

^{*1} Please contact for details.



Feature3 New vision recognition technology option

- 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

Feature4 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

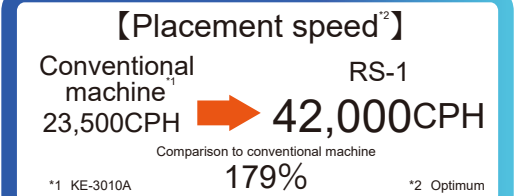


Feature5 Class leading speed, up to 42,000 cph

Class leading speed, up to 42,000 cph

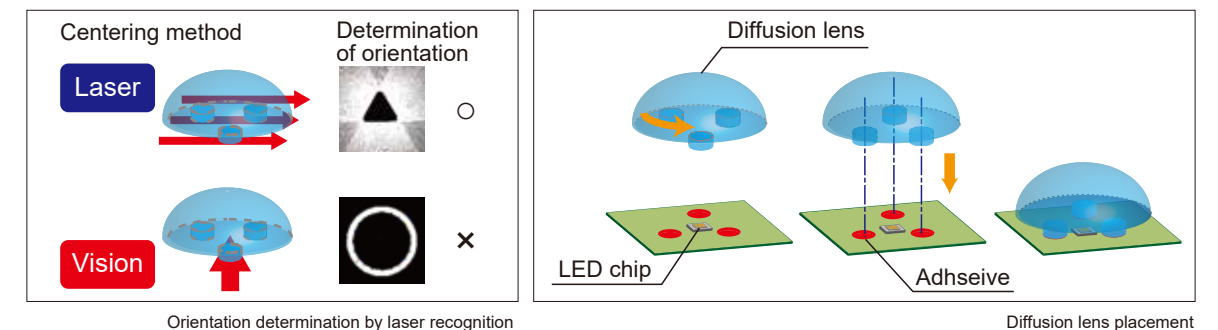
Maximum speed of up to 42,000 cph*. This is made possible by a revolutionary head design that reduces the travel time and distance for every placement.

^{*} Optimum



Feature6 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.



Feature7 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.

