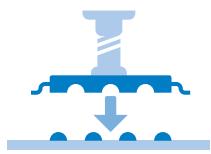


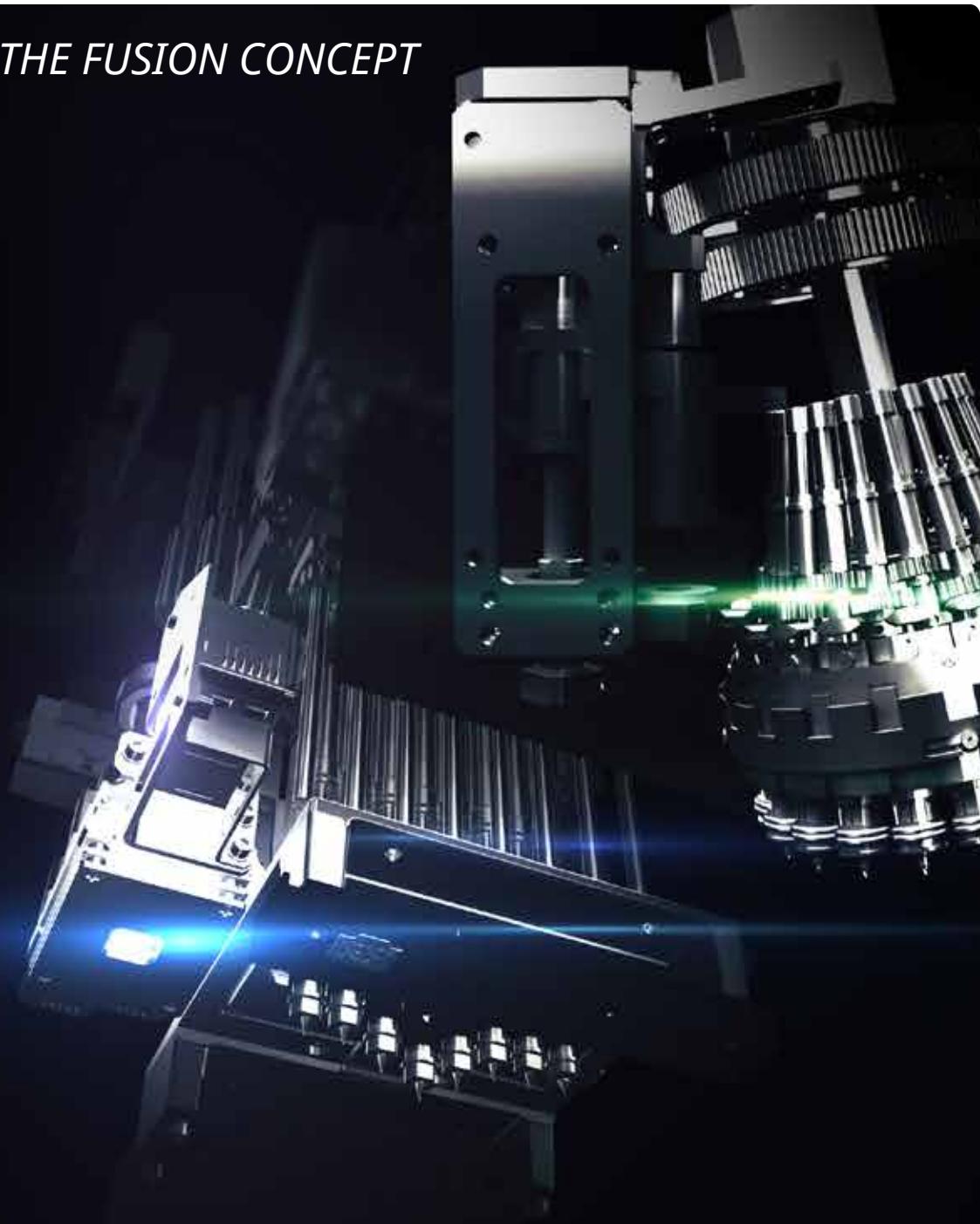
JUKI

LX-8

Advanced Flexible Mounter
High productivity, High Flexibility & High Quality



THE FUSION CONCEPT



LX-8



High efficiency production

Achieves high-efficiency production through high area productivity and ultra-high speed equipment of the highest level in its class

It boasts the highest 105,000 CPH in its class*, and is equipped with ultra-high speed, space saving features, while boasting high-area productivity and achieving highly efficient production.

The Planet P20S head supports mounting of 0201 very small parts.

In addition, even large components and other highly versatile design heads can be equipped with ultra-high speed 94,000 CPH that are among the highest in their class. *For P20S head x 2



P20 Head

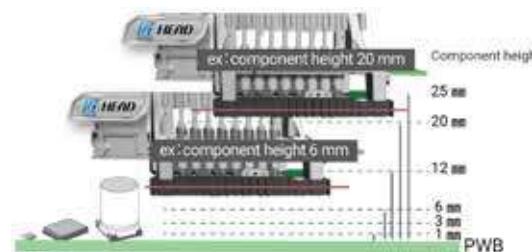
JUKI's P20S head has a planet-head construction that vacuums continuously with 20 nozzles. Even a very small part of 0201 achieves stable vacuum reliability. In addition, the head height is variable (0.5 mm/2 mm/3 mm) according to the component to achieve high-speed mounting in order to mount the component at the highest speed.



Takumi Head

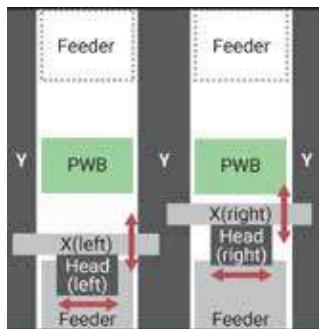
Takumi head, which realizes high-precision recognition by laser, has a variable centering unit according to the height of mounted parts. High-speed mounting is realized at the optimum height from very small parts to large parts.

(Variable height of the laser sensor is accordance with the component height)



Front Operation possible

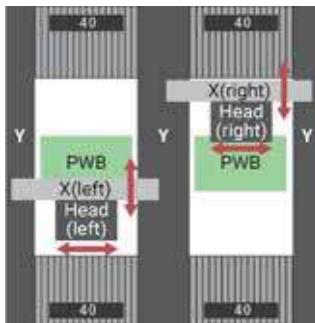
LX-8 allows front-side banks to operate without loss of productivity



Feeder-mounted number-class No.1

The number of feeder slots is 160 or more, the highest in the class.*

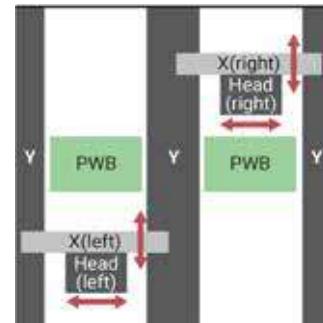
Since it is possible to set the next feeder for production in the feeder bank beforehand, the setup change time can be drastically shortened, and production preparation can be simplified and made more efficient.



Independent head configuration

with minimized tact loss

The complete independent head configuration and buffer station installation also reduces the latency=dependent tact loss.



User Interface New

pursuing ease of use

A smartphone-like operating feel that can be operated with intuition, color-conscious for all users and easy-to-view screens in dark themes, and high-priority functions have been placed on the top screen.

This is a new type of operation panel that pursues easy of use



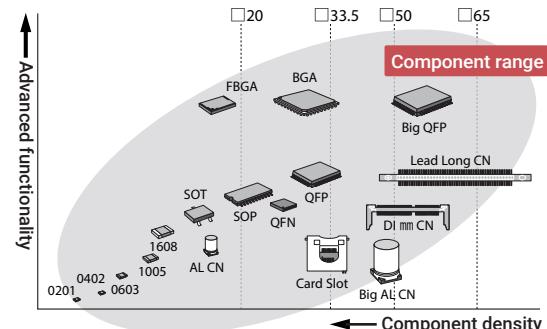
Easy head replacement

The head of LX-8 can be easily replaced in a short time.

By simply placing the heads optimally without changing the line layout, the machine can flexibly respond to variable and variable-quantity production.

Wide component range

Supports components from 0201 (metric) up to 65 mm square or 10 x 90 mm. In addition, component height up to 25 mm, so it is possible to mount a wide range of components.

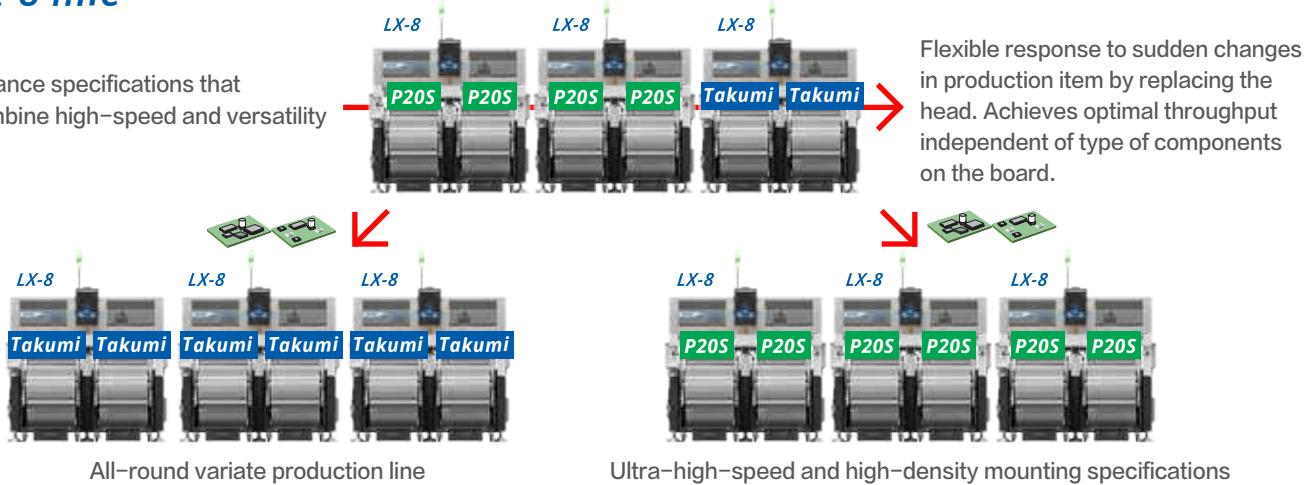


Flexible head configuration

Head can be replaced by the user. It can flexibly respond to changes in production boards.

LX-8 line

Balance specifications that combine high-speed and versatility



Line-up with the current JUKI mounter

By adding LX-8 to existing JUKI mounters, flexible line construction can be realized, including high-speed lines, high-speed general-purpose lines, and ultra-general lines.

When LX-8 design head is mounted on the pre-existing RX-8
High-production general-purpose line with enhanced high-speed and general-purpose capabilities



When LX-8 planets P20S head is added to a pre-existing RS-1R
Flexible and high-efficiency high-balance line that can be mounted on irregular shaped parts.



Large parts are supplied in trays

By using a tray server TR8 in which the main unit head sucks parts directly from the tray, it is possible to suck irregularly shaped parts such as connectors and heavy parts directly with the head.



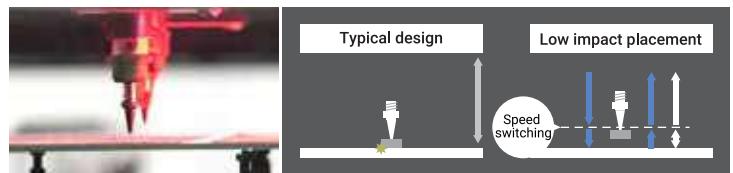
Optimal for LED placement

With Planet P20S head, stable recognition can be achieved even with continuous-mounting, enabling high-quality mounting for producing LED indicator lamps



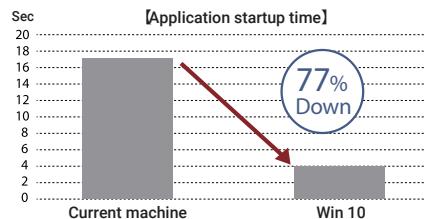
Low impact placement for flexible circuits

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.



Operation rate improvement

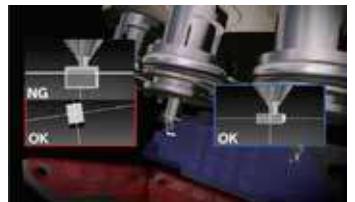
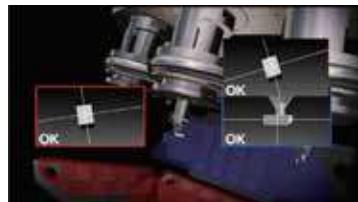
High-performance CPU + Windows 10 has reduced the application startup time to about 1/4 compared to conventional machines.



P20 Head

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

With planet P20S head, it is possible to detect the reversal of the front and back sides, inspect the tip standing, and detect the presence or absence of components. Realizes high-quality mounting of extremely small parts.

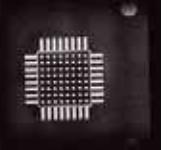


Front/back reversal detection

Tip standing inspection

New high accuracy camera for inspection and centering

Coaxial lighting technology with a new structure enables clearer imaging and realizes high-precision onboard recognition.



0402 chip (metric)

Right angle LED

Small BGA

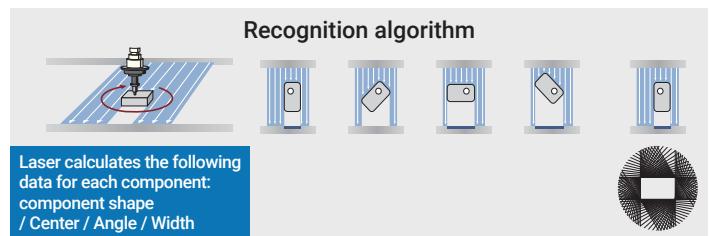
Glass Jig

Takumi Head

Realizes high-speed, high-precision recognition

with JUKI's proud laser-recognition technique

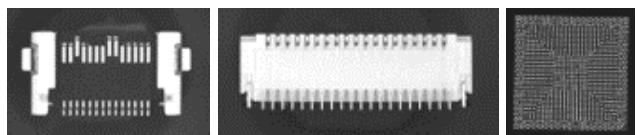
Various component shape can be recognized, such as SOP, QFP, BGA from 03015 minimal component to □50 mm. Laser recognition realizes stable recognition and mounting without being affected by component variations such as electrode-shape and gloss.



Realizes high-speed, high-precision recognition

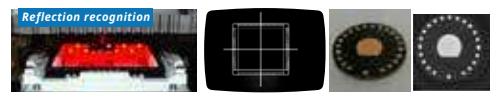
with JUKI's proud laser-recognition technique

Various component shape can be recognized, such as SOP, QFP, BGA from 03015 minimal component to □50 mm. Laser recognition realizes stable recognition and mounting without being affected by component variations such as electrode-shape and gloss.



Component recognition technology

Component shape, lead and ball details are accurately captured using our VCS camera. Component problems such as missing ball detection or bent leads are also detected. We can deal with not only QFP and BGA, but also irregular components in individual pattern-recognition.

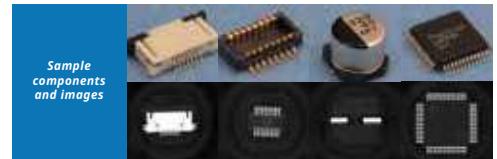


360 degree part recognition technology

Components that are supplied incorrectly can be corrected and accurately placed using 360 degree recognition technology

Three color recognition lighting

The color of lighting can be changed to match the component requirements for stable, accurate centering.



Wide component range

Hundreds of nozzles to choose from and flexible vision to support difficult parts. Simplified data creation make it easy to handle complex components.

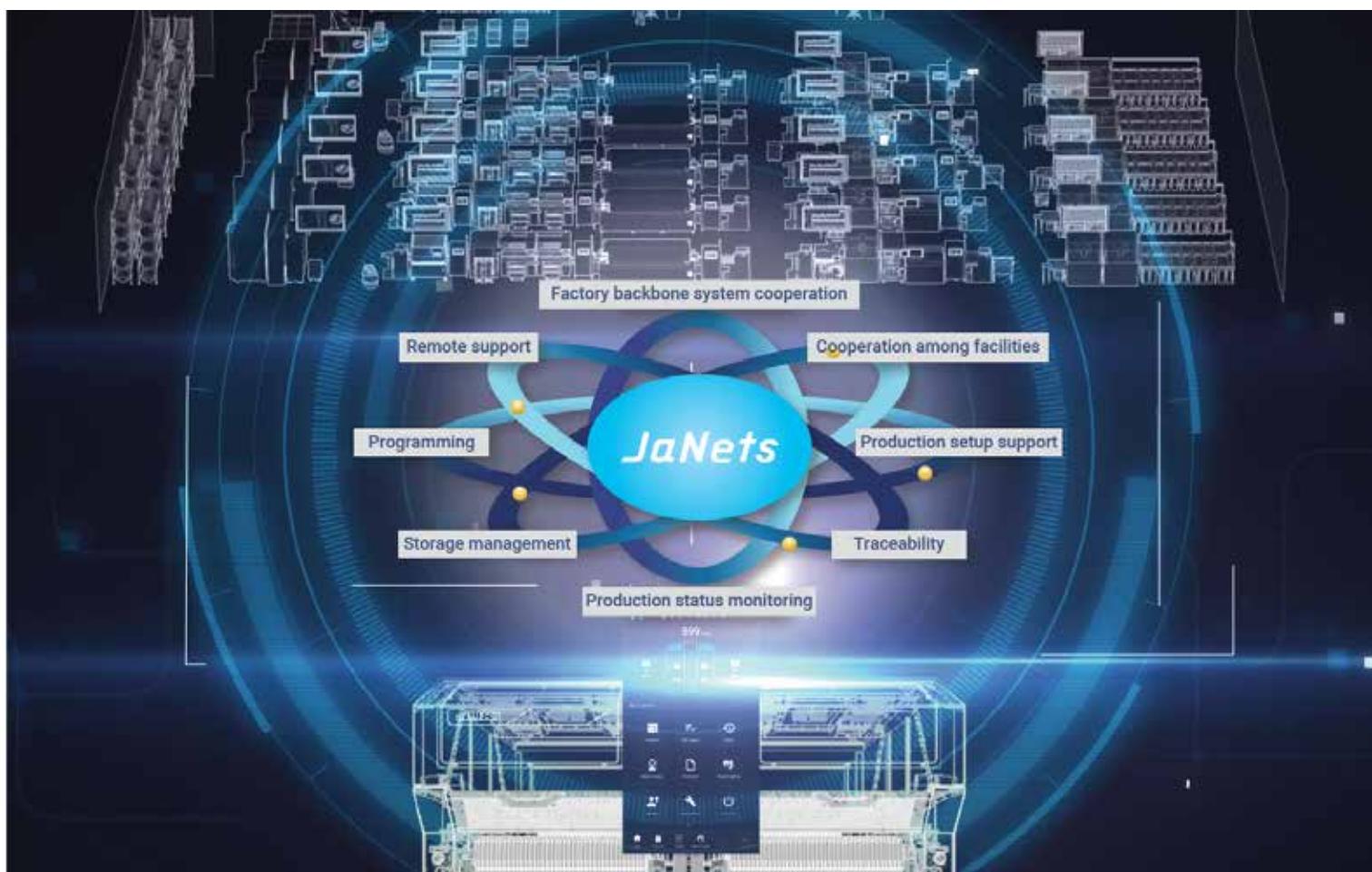


Faster image recognition

Reduction of image-recognition times through collective recognition of four nozzles using 54mm viewing angles.

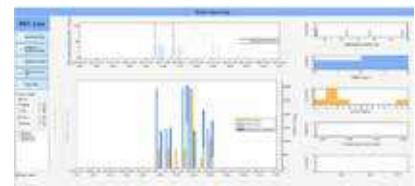
Integrates seamlessly with the production environment

SMT total system software JaNets and the system connected via JaNets help improve production efficiency across the entire plant by monitoring production status, storage-management, and remote-support. In addition, IFS-NX option enables high production, such as traceability and component mis-mounting protection.



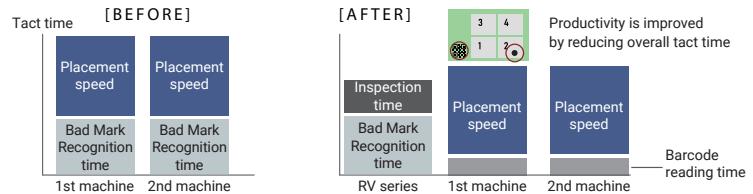
Trace Monitor

The production status of boards can be checked hourly, and the operation rate, error occurrence status, etc. can be visually confirmed.



Communicates and shares information with other equipment

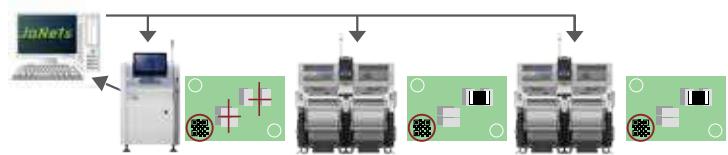
Bad mark information of the circuit detected by the inspection machine or a machine upstream of the line can be propagated to the LX-8 in order to reduce the bad mark recognition timed and improve productivity.



Feed forward for printing misalignment

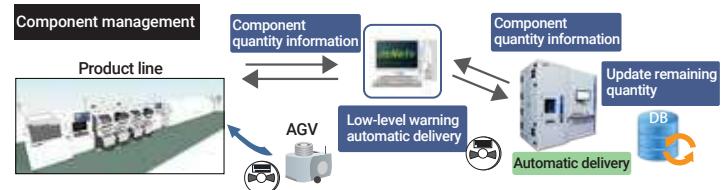
The SPI results can be fed forward to the mounter and applied as a placement offset to reduce defects.

*Applicable models are RV series and LX-8



Component Management with Auto replenishment

Efficient production can be achieved through various linkages, including parts management processes, such as automatic shipping of parts from automatic warehouses at the time of setup, as well as automatic shipping with warning of parts shortage during production.



Specifications

Advanced Flexible Mounter LX-8				
		P20S*1×2	P20S*1×Takumi	Takumi×Takumi
Board size	Single clamping	50×50 ~ 410×400 mm /500 mm *2		
	Double clamping	50×50 ~ 810×400 mm /500 mm *2		
Component height		3 mm	25 mm	
Component size	Minimum	0201		03015
	Maximum	⊗ 5 mm	⊗ 65 mm /10 mm ×90 mm /50 mm ×75 mm	
Placement speed (optimum)		105,000CPH	99,500CPH	94,000CPH
Placement accuracy		±40µm(25µm*3) (Cpk 1)	±35µm (Cpk 1)**	
Feeder capacity	Tape	Max. 136	Max. 148	Max. 160
	Tray*5	—	Max. 30	Max. 60
Power		3-phase AC200V(standard) AC200V ~ AC415V (when optional transformer is selected)		
Apparent power		2.49 kVA		
Operating air pressure		0.5±0.05MPa		
Air consumption (standard)		50L /min (ANR)		
Machine dimensions (W×D×H)*6		1,600 mm ×1,924 mm ×1,440 mm		
Mass (approximately)		2,400kg or less		

*1 Please contact us for P20S

*2 Factory default

*3 Image recognition, high-precision mode

*4 For laser recognition

*5 For TR8SR

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

Options

Advanced Flexible Mounter LX-8	
Recognitions system	54 mm view camera
Inspection function	Coplanarity sensor / Component Verification System(CVS)*
Conveyor	Support pin
Electrical protection	CE compatible specification / Ground-fault interrupter
Software	JaNets / IFS-NX* / Flexline CAD
Component handling and feeders	Electric tape feeder (RF)
Others	Electric stick feeder (Type-N) / Matrix tray server TR8SR / Matrix tray changer TR6DNV / Dual tray server TR1RB / Tray Holder / Tape reel mounting base(for RF) / Splicing jig / Electric Trolley Power Station (PW02)* / RS-1R • RS-1 nozzles(with RFID tags) / Big foot / FCS calibration jig

* Please contact for details.

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



*Please refer to the product specifications for details.

■ JUKI Specifications and appearance may be changed without notice.

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