

Specification

Item		Model	Multi Task Platform JM-100		
			Standard specification (Lsize PWB)	Clinch specification (Lsize PWB)	
				With using Clinch unit	Without using Clinch unit
Board Size	1time clumping		50mm×50mm～410mm×360mm	80mm×100mm～410mm×360mm	80mm×50mm～410mm×360mm
	2 times clumping		50mm×50mm～800mm×360mm	80mm×100mm～800mm×360mm	80mm×100mm～800mm×360mm
PCB Weight			max.4kg		
Component Height			max.30mm		
Component Size	Laser recognition		0603～□50mm		
	Vision recognition		□3mm～□50mm		
Insertion Speed (Insertion components)	Vacuum		0.6 sec / part*1*3*4		
	grip		0.8 sec / part*2*3*4		
Placement Accuracy (SMT)	Laser recognition		±0.05 mm (3 σ)		
	Vision recognition		±0.04mm		
Power supply			200 to 415 V AC 3-phase		
Apparent power			1.8KVA		
Circuit breaker			standard		
Operation air pressure			0.5±0.05MPa		
Air consumption (standard)			75L / min		
950mm conveyor height			900mm ±20mm		
Machine dimension (W×D×H) *5			1,500×1,500×1,450mm		
Mass (Approximately)			1,300kg		

* 1 Specification conditions
(Applicable part: Aluminum electrolytic capacitor (φ 8 mm), Feeder: two MRF-S, Placement conditions: Simultaneous pick, sequential insertions using 2 nozzles)

* 2 Specification conditions
(Applicable part: Connector (4 pin), Insertion conditions: 2 sequential picks and insertions using 2 nozzles)

* 3 Board transfer and mark recognition time not included.

* 4 When the part height is 16 mm.

* 5 Conveyor height 900 mm.

Options

		Multi Task Platform JM-100
Check nozzle base*1		●
Automatic board width adjustment		● (When Clinch specification,standard)
Rear side operation unit		●
Conveyor extension 250mm		●
Conveyor height 950mm		●
3D image recognition*1		●
Lead correction jig *1*2		●
Spare trolley		●
Main line filter		●
JaNets / IFS-NX		●
Keyboard		●
Conveyor cover		●
OuterRing lights		●
Super foot		●
Feeder float sensor (for SMT)		●
drive cylinders		●
Production manage information output		●
Multi-code reader		●

*Please contact us for detailed specifications

Feeder capacity*1

Tape feeder in case of 8mm tape	Radial feeder		Axial feeder		Stick feeder	Tray *2*3	
	MRF-S	MRF-L	MAF-S	MAF-L		Tray Holder (full)	MTS
56	18	14	14	10	10	1	1

*1 Max applicable number of same feeders (Front & Rear total).

*2 Please contact our sales person for tray specification detail.

*3 Applicable only on rear side.



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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.



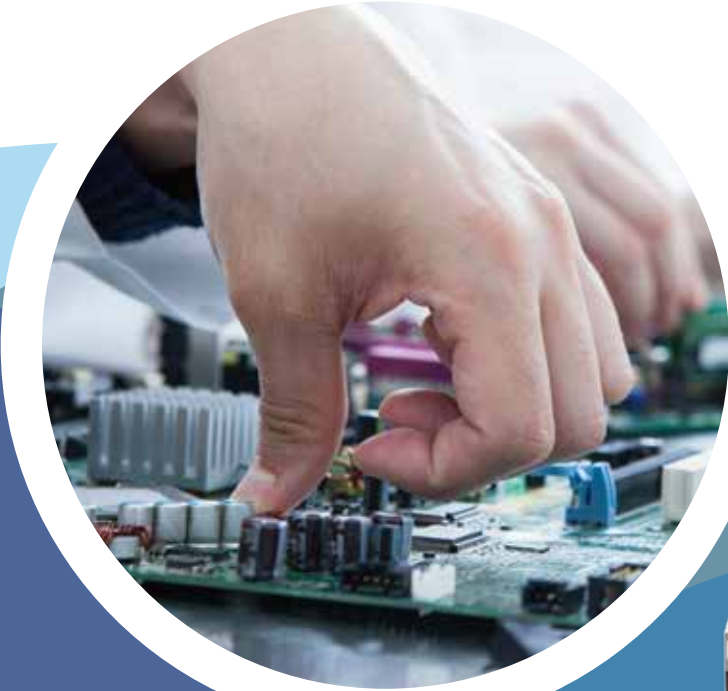
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※Please refer to the product specifications for details.

JUKI Specifications and appearance may be changed without notice.
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Multi Task Platform

JM-100



Advanced MI solution



-Your solution partner-
80th
Global & Innovative

Advanced MI solution

Advancing versatility, quality and speed

Feature 1 Fast insertion

Best in class speed. Significant speed increase over previous generation. Component insertion time down to 0.6 seconds for vacuum nozzle and 0.8 seconds for gripper nozzle.

【Fastest tact time for vacuum picking*】
Conventional machine* 0.8sec → JM-100 0.6sec
Comparison to conventional machine 133% ※Optimum

【Fastest tact time for gripper picking*】
Conventional machine* 1.3sec → JM-100 0.8sec
Comparison to conventional machine 162% ※Optimum

Feature 2 New "Takumi head" with multiple recognition heights

The new "Takumi head" has 8 nozzles and is equipped with a height adjusting laser to optimize speed. This head can handle a wide range of components while maintaining the maximum speed.

Variable height laser sensor changes

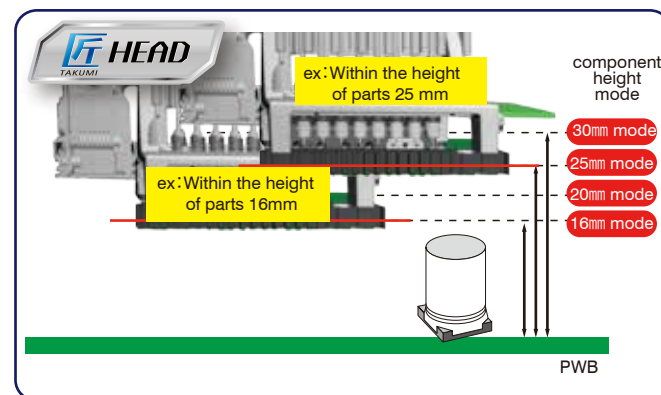
The laser sensor changes height automatically based on the the component height to minize the movement and optimize speed. Height can change randomly between 4 different settings.

Improved productivity with 8 nozzles

The JM-100 uses 8 nozzles vs. the previous generation's 6 nozzles. This increases the number of parts that can be picked on each cycle and reduces overall cycle time.

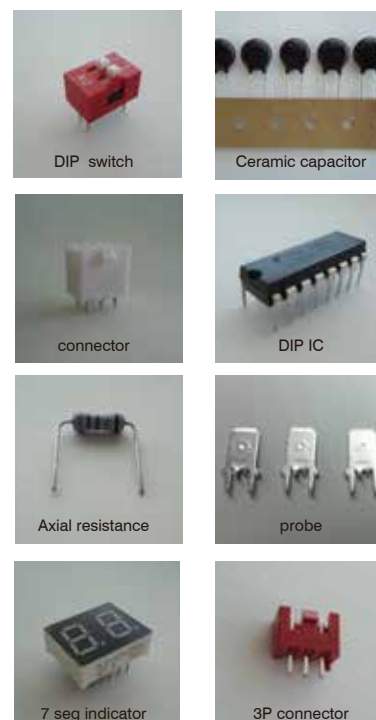
Wide component range from small to large and heavy

Components from metric 0603 up to 50mm square with a weight of up to 200g. Maximum insertion force of up to 50N.



Variable height of the laser sensor in accordance with the component height image

16 mm height



20 mm / 25 mm height



30 mm height



Feature 3 3D image recognition Option

A revolutionary new 3D image sensor measures the entire component bottom with greater accuracy. Even odd shaped parts and multi-pin insert parts without specular surface leads can be inserted.



recognition image

Feature 4 Active clinching

New active clinch unit supports bend in, bend out, and N bend to prevent components from lifting during reflow.

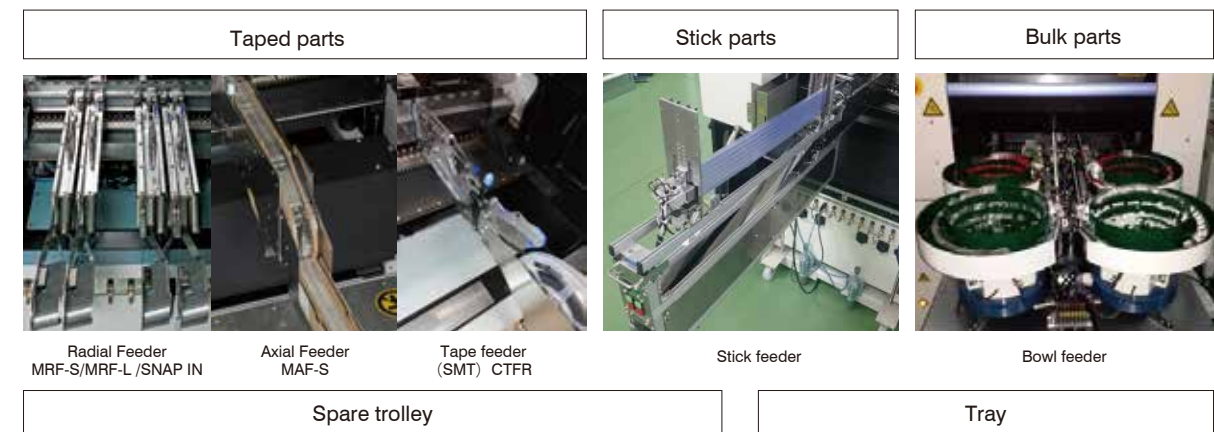


Clinch unit

Feature 5 Component Feeding* Option

Feeders are available for many different supply methods including tape, stick, tray, and bulk. Custom designed feeders are also available.

※ Customized according to package requirements



Fast change feeder trolley for radial and axial feeders. Ideal for lower volume, higher mix production.



Feature 6 Line control using JaNets software Option

The JaNets software allows centralized programming and control of the entire line. Management data is available to monitor productivity and quality.

Line Manager

Production programs are created, edited and downloaded from the client PC to the production line. After production is completed, all management data is available for review. Using the optional External Output function, the data can be shared with MES software.

IFS-NX

Traceability function for full quality tracking

