Specifications

			Mu l titask Platform	Multitask Platform		
			JM-10	JM-	-20	
			M-size board	L-sized board	XL-sized board	
Board Size	Single Clamp		4 1 0 × 2 5 0 mm	4 1 0 × 3 6 0 mm	4 1 0 × 5 6 0 mm	
Dodi u Size	Double Clamp		-	8 0 0 × 3 6 0 mm ^{*1}	XL-sized board 4 1 0 × 5 6 0 mm 8 0 0 × 5 6 0 mm 4 kg 5 0 mm 5 0 mm 2 4 mm (/part **3 0 CPH **3 CPH **3 n (± 3 σ) 4 mm	
PCB Weight	•		Max. 2 kg	Max. 4 kg		
Component Height	2 8 mm		0	(
Component Height	5 5 mm		-	(JM-20 -sized board	
	Laser recognit	tion	0 6 0 3 ~ □ 3 3.5 mm	0603~	M-20 XL-sized board 4 1 0 × 5 6 0 mm 8 0 0 × 5 6 0 mm ax. 4 kg 3~ 5 0 mm 5~ 5 0 mm 5~ 2 4 mm sec/part ^{*3} sec/part ^{*3} sec/part ^{*3} 5 0 0 CPH ^{*3} 0 0 CPH ^{*3} 0 1.5 VAC 3-phase 2.0 kVA 0 0.0 5 MPa 0 L/min 0 1,500×1,89 2 × 1,55	
Component Size	Vision	54mm view camera	O O O O O O O O O O O O O O O O O O O			
	recognition*2	27mm view camera				
Inscrion Coasd	Vacuum (J l	J K I Condition)	0.8 sec/part	0.8 sec	XL-sized board 4 1 0 × 5 6 0 mm 8 0 0 × 5 6 0 mm 8 0 0 × 5 6 0 mm 4 1 0 × 5 6 0 mm 8 0 0 × 5 6 0 mm □ 5 0 mm □ 2 4 mm □ 2 4 mm □ 2 4 mm □ 3 0 0 CPH ^{※3} □ 0 CPH ^{※3} □ 0 CPH ^{※3} □ 0 Y + W + W + W + W + W + W + W + W + W +	
Insertion Speed	Gripper (JU	K I Condition)	1.3 sec/part	1.3 sec		
Placement Accuracy	Chip (Optimal)	17,500 CPH	~□ 2 4mm sec/part 0.8 sec/part ^{**3} sec/part 1.3 sec/part ^{**3} 5 0 0 CPH 1 5,5 0 0 CPH 4,2 0 0 CPH 5 mm (3σ) 0 4mm ±0.0 4mm □		
(SMD)	IC		4,100 CPH	4,200	XL-sized board 4 1 0 × 5 6 0 mm 8 0 0 × 5 6 0 mm 8 0 0 × 5 6 0 mm 4 kg 5 0 mm 5 0 mm c/part**3 c/part**3 0 CPH**3 m (± 3 σ) 4 mm 5 VAC 3-phase 0 kVA 1,500×1,89 2 × 1,550	
Placement Accuracy	Laser recognit	tion	±0.05mm (3σ)	m~□33.5 mm □3 mm~□5 0 mm 0.5 ~□2 4 mm 1 0 0 5 ~□2 4 mm 0.8 sec/part 0.8 sec/part ^{®3} 3 sec/part 1.3 sec/part ^{®3} 7,5 0 0 CPH 1 5,5 0 0 CPH ^{®3} 4,1 0 0 CPH 4,2 0 0 CPH ^{®3} 0 5 mm (3σ) ±0.0 5 mm (±3σ) ±0.0 4 mm □ □ □ 4 1 5 VAC 3-phase 2 0 0 to 4 1 5 VAC 3-phase 1.8 KVA 2.0 kVA		
(SMD)	Vision recogn	ition ^{*2}	±0.04mm	±0.0	4 1 0 × 5 6 0 mm 8 0 0 × 5 6 0 mm x. 4kg C C S 0 mm C S 0 mm C S 0 mm C C 2 4 mm C C 2 4 mm C C 3 0 0 CPH C 3 0 0 CPH C 3 0 0 4 mm C S VAC 3-phase O kVA C C 0 5 MPa L/min C 1,500×1,89 2 × 1,550	
Residual number of co	mponents control	*2	0	()	
Power supply			2 0 0 to 4 1 5 VAC 3-phase	-		
Apparent power			1.8 KVA	2.0	kVA	
Circuit breaker **2			0	()	
Operation air pressure			0.5±0.05 Mpa	0.5±0.05 MPa		
Air consumption			3 4 5 L/min 50L/min in case with vacuum pomp	5 0 L/min		
Vacuum pomp			○*2	()	
950mm conveyor heig	ht ^{*2}		0	()	
Machine dimension (W	×D×H) *4		1,445×1,295×1,460mm			
Mass (Approximately)			1,000kg	1.760kg 1.985kg		

^{*1} Requires long PWB option (indexes PWB twice) 2 Optional specification.

Options

	Multitask Platform	Multitask Platform JM-20		
	JM-10			
	M-size board	L-sized board	X L-sized board	
ATC 6-6	•		-	
ATC 10-12	-		•	
Check nozzle base ^{**1}	-		•	
C-A T C (ATC for Chuck nozzle)	-		•	
Rear side operation unit	-		•	
Conveyor extension 150mm	-		•	
Conveyor extension 250mm	-		•	
Conveyor guide 1 0 0 mm	•		-	
Three-color signal light (with buzzer)	•		•	
Vacuum pump	•	(Standard)		
Main line filter	•		•	
Circuit breaker	•		•	
Conveyor height 9 5 0 mm	•		•	
Placement Force Control	-		•	
Long board support	-	•	(Standard)	
Vision centering System(54 mm view camera)	•		•	
Vision centering System(27 mm view camera)	•		•	
SMT feeder version bank(Selectable Front and/or Rear)	-		•	
SMT connector bracket	-		•	
MI Line Optimizer ^{**2}	•		•	
Residual number of components control	•		•	

The JM-20 is an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment. JUKI ECO PRODUCTS

• The machine complies with the "Juki Group Green Procuremen Guidelines" on the use of hazardous substances, which is stricte 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



JUKI CORPORATION HEAD OFFICE

*Please refer to the product specifications for details.



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http://www.juki.co.jp

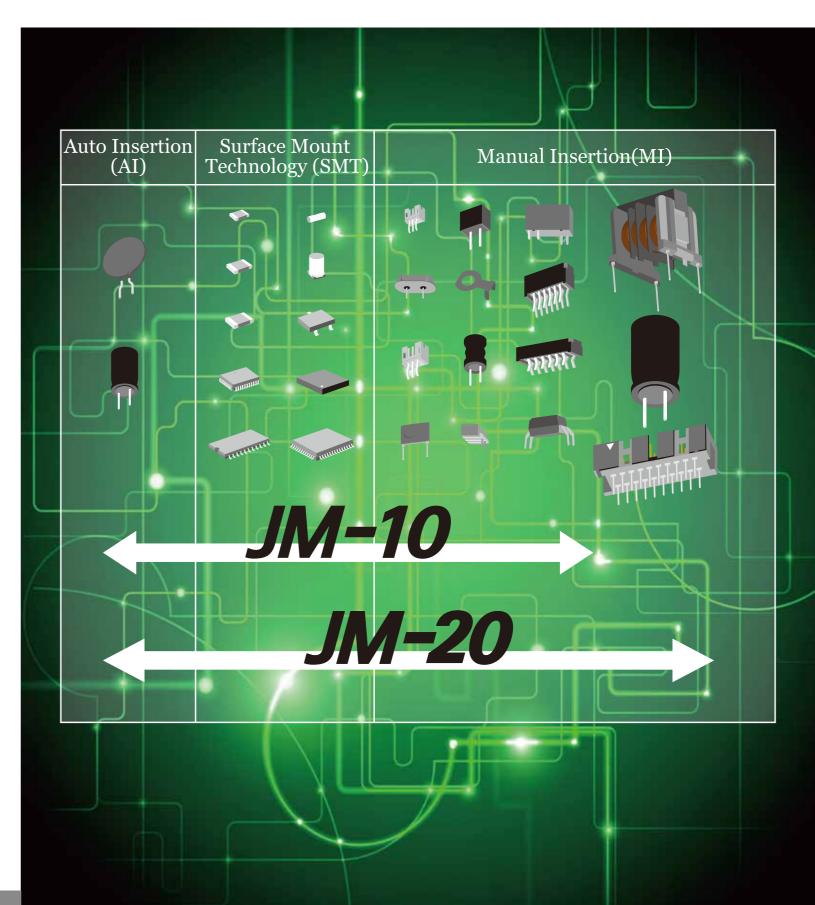
JUKI Specifications and appearance may be changed without notice. Aug-2013/Rev.02

JUKI's Latest Technology

Introducing the JM Series - Automating the Manual Insertion Process







^{%3} For component height 28mm.%4 Dimensions of machine described are for conveyor height 900mm.

^{%1} For using chuck nozzle, separate custom parts will be required.
%2 This option is available for line control optimization.

Higher quality and labor savings by automating manual insertion

Multitask Platform

JM-10

JM-20



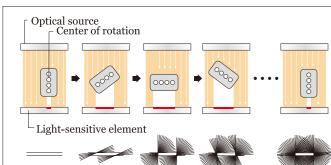
Compact model for applications with smaller components



Advanced model for larger/heavier components and larger boards

Laser sensor for lead detection

The laser sensor is ideal for lead tip detection leading to improved insertion process



Components are rotated 360 degrees in the laser. The entire outline of the component is measured accurately by a high resolution CCD sensor. The exact component position and angle are obtained in a fraction of a second without a side trip to a camera. After measuring the component body, the lead tips are measured to ensure accurate insertion.



Laser sensor integrated into placement head

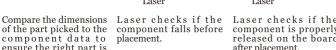
Recognizing component	Recognition result (body)	Recognition result (lead)	Recognition image
	0		:ÖÖ:
			:0000

Improved placement quality with component detection function Laser detects component presence from pick to placement, reducing defects.

Component fall check







component is properly released on the board

Release check

Wide variety of feeder types*

Feeders for tape, stick, radial, axial, tray, and bulk components. A wide variety of custom feeders are also available

Tape feeder types





Radial Feeder for snap-in MRF-LF







Stick feeder





Bowl Feeder



Bowl Feeder for large (tolley)



Tray Holder

Matrix Tray server

Feeder capacity**

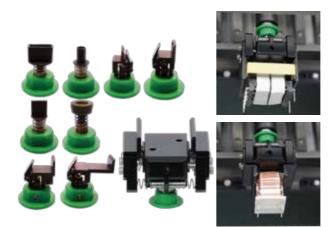
recues expuesty											
	Tape feeder in case of 8mm tape	Radial feeder		Axial Feeder		Stick	Bowl Feeder			Tray ^{%2%6}	
		MRF-S	MRF-L	MAF-S	MAF-L	Feeder	MBF ^{**5}	MBF-C ^{**5}	MBF-L	Tray Holder (full)	MTS
JM-10	60	20	14	16	12	12	1-2**4	1	2	1	1
JM-20	80	26	20	22	16	16	-	2	2	2	1

- **1 Customization possible.
 **2 Please contact our sales person for tray specification detail.
 **3 Max applicable number of same feeders (Front & Rear total).

- *4 Max 2 units for MBF bank, max 1 unit for mechanical bank.*5 Applicable only on front side.*6 Applicable only on rear side.

Nozzle types

JUKI has many years of experience making specialty nozzles for a wide variety of applications.



Global network to support automatization

We provide world wide support for our multi-national



Our global network enables quick response for your customization request.