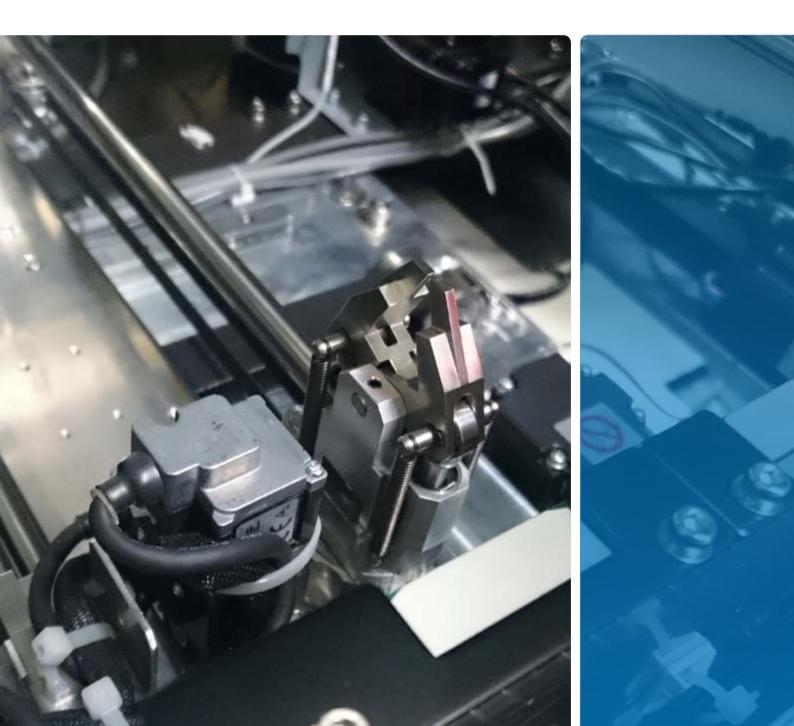


PLACEMENT SOLUTION



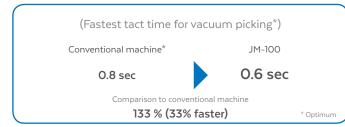


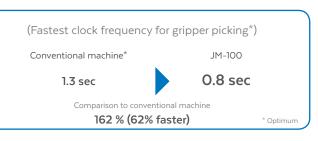


ADVANCED MI SOLUTION

FEATURE 1: FAST INSERTION

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





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

The laser sensor changes its height automatically according to the component height, in order to minimize the movement and to optimize speed.

The height can change according to height of component between 4 different settings.

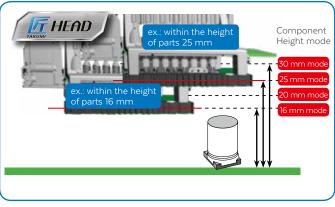
Improved productivity with 8 nozzles

The JM-100 uses 8 nozzles compared to the previous generation's 6 nozzles.

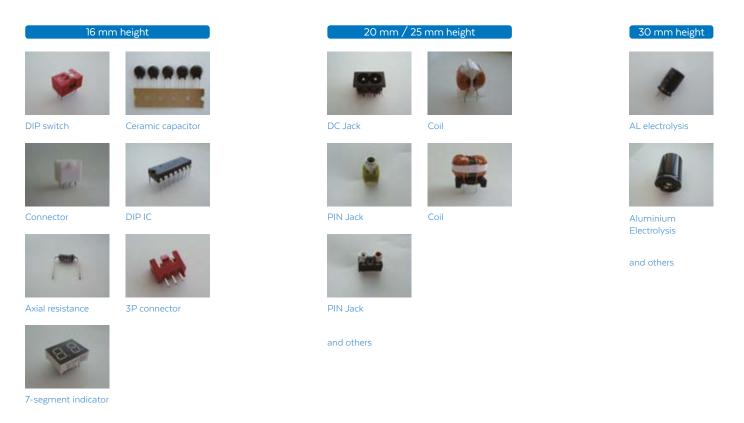
This increases the number of parts which the machine is able to pick during each cycle and reduces overall cycle time.

Wide component range from small to large and heavy

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



ISM Material Incoming Station



IMPROVED VERSATILITY, QUALITY AND SPEED

FEATURE 3: ACTIVE CLINCHING

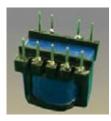
New active clinch unit supports bend in, bend out, and N bend to prevent components from lifting during reflow.



Option

FEATURE 4: 3D IMAGE RECOGNITION

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.



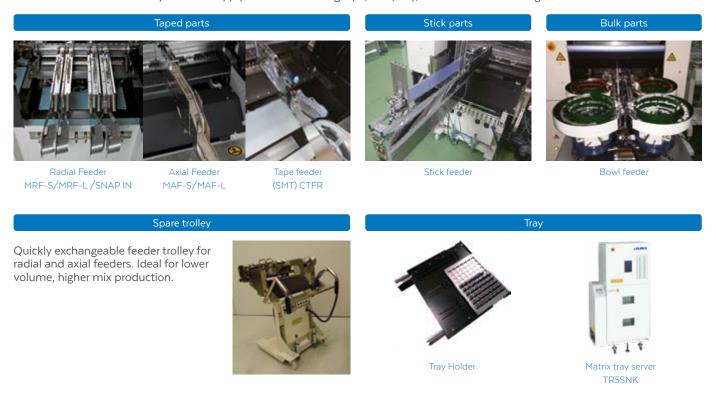
Option

Recognition image

FEATURE 5: COMPONENT FEEDING* Option

* Customized according to package requirements

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



FEATURE 6: LINE CONTROL USING JANETS SOFTWARE

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

Option

Line Manager

Production programs are created, edited and downloaded from the client PC to the production line. After completion of production, 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.



SPECIFICATIONS

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

*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
Multi Task Platform JM-100	Check nozzle base ^{*1} / Automatic board width adjustment (when clinch specification, standard) / Rear side operation unit / Conveyor extension 250 mm / Conveyor height 900 mm ±20 mm / 3D image recogniti- on [*] 1 / JaNets / IFS-NX / Conveyor cover / Production information output / Spare trolley / Main line filter / Lightning unit for solder recognition / Super foot / Feeder float sensor (for SMT) / Drive cylinders (for SMT) / Multi-code reader

*1 Availability TBD

FEEDER CAPACITY*1

Tape feeder	Radial feeder		Axial feeder		Stick feeder	Tray *2 *3	
in case of 8mm tape	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

Specifications and design subject to change without notice.

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04/2019_Rev01

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