



SMT
S O L I D

JUKI
JUKI AMERICA, INC.
ELECTRONIC ASSEMBLY SYSTEMS

JM-20

INSERTION

We offer complete SMT solutions with cutting-edge technology and specialized support.



MX 81-282-8092
US 10-791-8343





JM-20

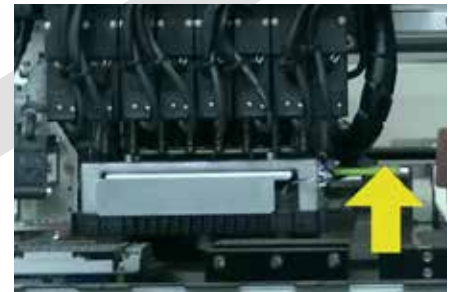
MULTI-TASK PLATFORM

Achieve higher quality and labor savings by automating manual insertion!

The JUKI JM-20 takes insertion automation to the next level with its advanced features, making it ideal for high-mix, low-volume production environments. Designed to handle larger boards, heavier components, and unique shapes, this platform ensures fast and accurate insertion while maintaining a compact footprint suitable for modern production lines. With a newly developed Takumi head, the JM250 guarantees multiple recognition heights and high-speed placement, catering to diverse manufacturing needs.

Engineered for reliability and productivity, the JM-20 supports a wide range of feeder types, providing unmatched flexibility on the production floor. Optional setup verification, active clinching, and traceability systems enhance process control and efficiency, while laser-based lead detection ensures precision for through-hole components. Whether you're dealing with bulk feeders, tray configurations, or radial and axial feeders, the JM-20 is the ultimate partner for streamlining production and meeting complex requirements with ease.

AUTOMATE INSERTION, ACCELERATE PRODUCTION



Takumi Head with Variable Height Laser

Effortless precision as the laser sensor adapts automatically to component height.



Revolutionary 3D Image Recognition

Measure every component bottom with unparalleled precision and accuracy.



On-the-Fly Lead Straightening

Minimize waste and eliminate insertion errors with real-time lead alignment.



Innovative 90-Degree Component Support

Form and insert components at the perfect angle with precision and ease.

SPECIFICATION

ITEM		JM-20	
Model		L size PCB	XL size PCB
Board size	Single clamping	410 x 360 mm	410 x 560 mm
	Double clamping	800 x 360 mm	800 x 560 mm
PCB weight		Max. 4 kg	
Component height		Max. 50 mm	
Component size	Laser recognition	0603~ 50 mm	
	Vision recognition	3 mm 50 x 48 mm or 1,005 x 24 mm	
Insertion speed (Insertion components)	Vacuum nozzle	0.8 sec/part	
	Gripper nozzle	1.3 sec/part	
Placement accuracy (SMT)	Laser recognition	±0.05 mm (3σ)	
	Vision recognition	±0.04 mm	
Power supply		200 to 415V AC 3-phase	
Apparent power		2.0kVA	
Circuit breaker		Standard	
Operation air pressure		0.5±0.06MPa	
Air consumption (standard)		50L/min	
Conveyor height		900 mm ±20 mm	
Machine dimension (WxDxH)		1,500 x 1,657 x 1,550 mm	1,500 x 1,892 x 1,550 mm
Mass (approximately)		1,760 kg	1,985 kg

Industrial solutions, innovation and precision.

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