Specifications

Item			Model: Multitask Platform JM-10
Insertion Mounting	Board size		Min.50×50～Max.410×250mm
	Component height		28mm (component body 25mm + lead length 3mm)
	Component size	Laser recognition	0603 (0201)～□33.5mm
	Placement speed	Pickup nozzle(Optimum)※1	0.8 sec./component
		Gripper nozzle(Optimum)※1	1.3 sec./component
	Number of component to be attached	Bowl Feeder	12 types max
		Radial Feeder	20 types max
Surface Mounting	Board size		Min.50×50～Max.410×250mm
	Component height		25mm
	Component size	Laser recognition	0603 (0201)～□33.5mm
		Vision recognition(option) 54mm view camera※2	□3mm～33.5mm
		Vision recognition(option) 27mm view camera※2	1.0×0.5mm～□24mm
	Placement speed	Chip (Optimum)	17,500CPH
		Chip (IPC9850)	12,500CPH
		IC	4,100CPH※3
	Placement accuracy	Laser recognition	±0.05mm (±3σ)
		Vision recognition (option)	±0.04mm
	Number of component to be attached		Max.60 in case of 8mm tape
Power supply			200 to 415 VAC,3-phase
Apparent power			1.8kVA
Operating air pressure			0.5±0.05Mpa
Air consumption			345L/min (Opt: Vacuum Pump 50L/min)
Machine dimensions (W×D×H)※4			1,455×1,295×1,460mm
Mass (approximately)			1,000kg

※1 Placement rate will vary by component type. Please consult your representative for more information.
※2 Upward looking component centering camera is optional. Choose from either a 54 or 27mm field of view.
※3 Estimated value when using Vision centering system, Simultaneous pick up for components 10mm or smaller QFP or BGA by all nozzles.
※4 Dimensions of machine described are for conveyor height 900mm.

Options

for Insertion Mounting	Component handling and feeders	Bowl Feeder (MBF) / Radial Feeder (MRF) / Table for radial components
	Conveyor	Handle arm (for MBF)※1
for Surface Mounting	Recognition system	Vision centering system※2 (54mm view camera, 27mm view camera)
	Safety device	Feeder floating detecting sensor (Front) / Feeder floating detecting sensor (Rear)
	Others	Residual number-of-components control
	Component handling and feeders	Tape feeder 8～72mm / Bulk feeder / Stick feeder / Feeder stocker / Connector gig for tape
for Insertion Mounting and Surface Mounting	Conveyor	Conveyor extension guide / Conveyor height 950mm
	Safety device	Ground-fault interrupter
	Others	Caster / Vacuum pump / Main line filter / Quick connect coupling / Three-color signal light (with buzzer) /
		DVD , CD-ROM drive (USB) / FD drive (USB) / ATC 6-6
	Software	EPU
	Component handling and feeders	Tray Holder / Tape reel mounting base (for Tape Feeder,MRF)

※1 This is a handle for adjusting the PWB width. This handle arm is used when a bowl feeder is installed on the right side of the bank or two bowl feeders are installed.
※2 Upward looking component centering camera is optional. Choose from either a 54 or 27mm field of view.

※Please refer to the product specifications for details.

MS JAB CM001
JSA EMS ISO 14001 JSAE389
UKAS ENVIRONMENTAL MANAGEMENT 089

JUKI CORPORATION HEAD OFFICE
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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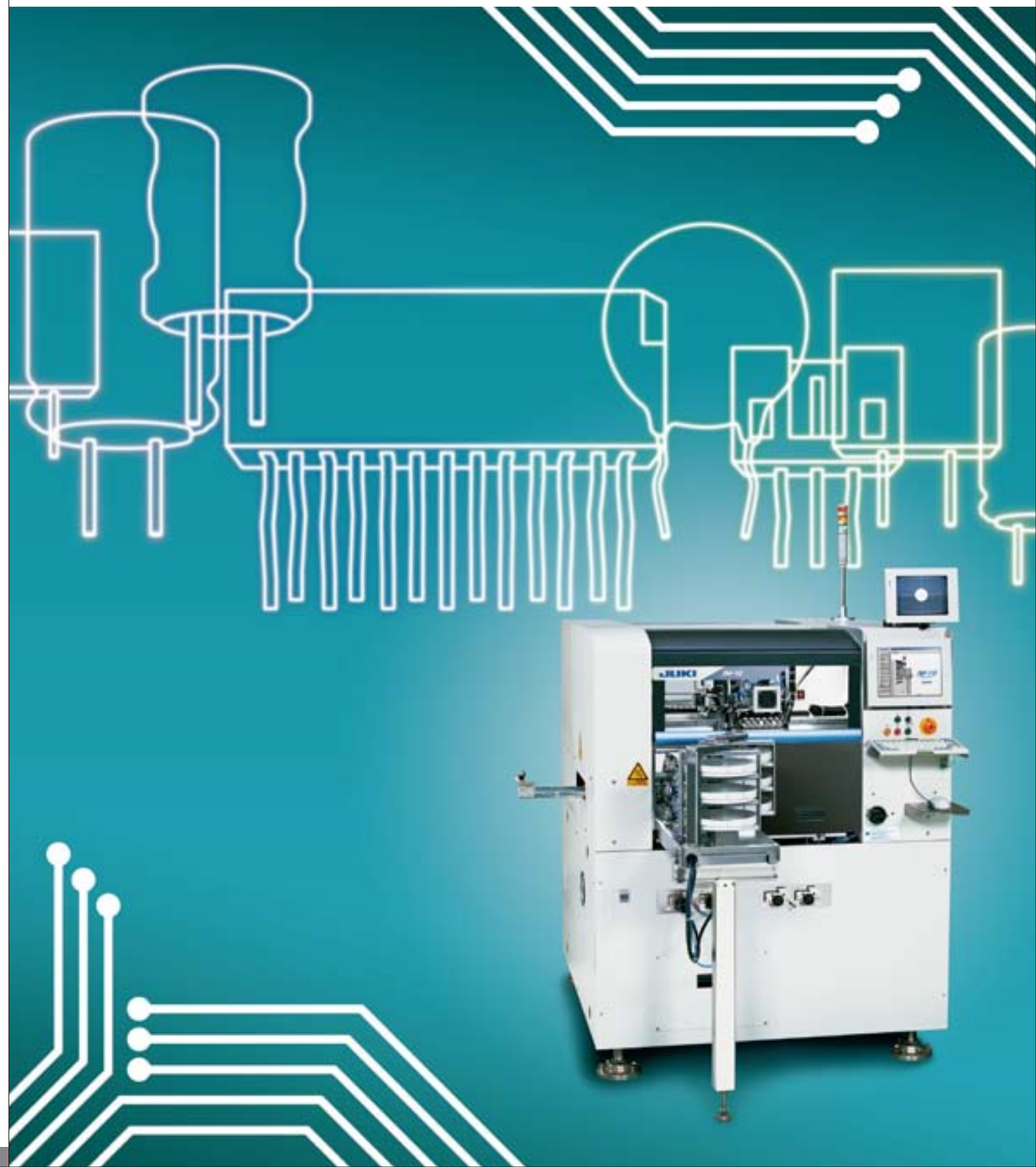
Multitask Platform

JM-10

3E EVOLUTION



Introducing the JM-10, the world's first multi-task platform.

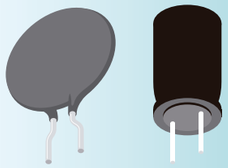
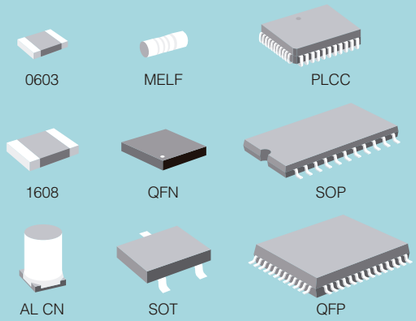
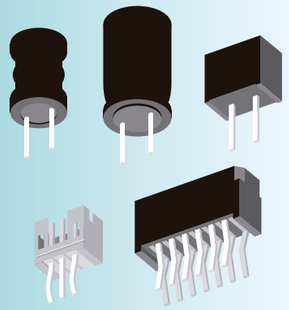
The JM-10 is a revolutionary new concept from JUKI that allows for the placement or insertion of both surface mount and through-hole components.

Multitask Platform

JM-10

Surface Mounting + **Insertion Mounting**

JM-10 has the widest component range in the electronics industry.

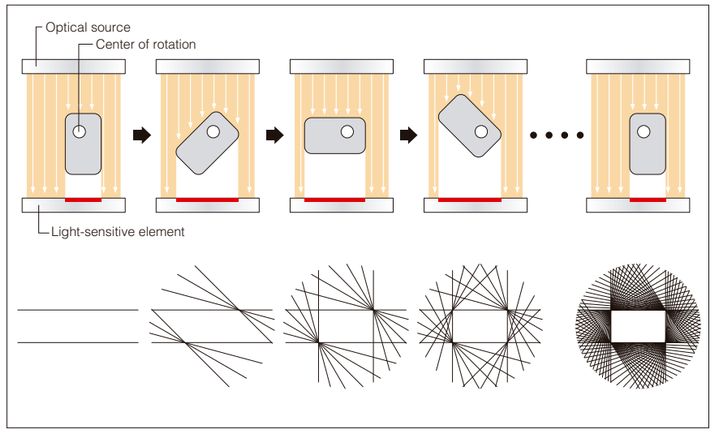
Auto Insertion	Surface Mount Technology	Manual Insertion
Multitask Platform JM-10		
		
Radial lead components etc.	Chip,SOP,BGA etc.	Connector,Capacitor, Inductor etc.

JUKI's revolutionary technology adds through-hole placement along with conventional SMT.

Laser centering technology (Laser sensor: LNC60)

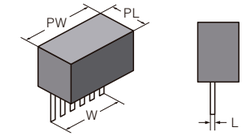
●Component centering using laser

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. Laser recognition can be performed from 0603 (0201) up to 33.5mm square.



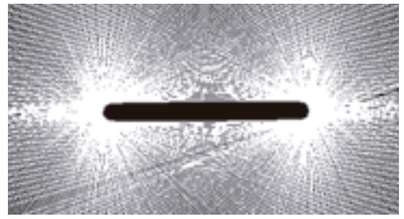
●Simplified Data Entry

Simple data entry and fast, accurate lead-based component centering is accomplished using Laser Align.



●Recognition of leads utilizing laser recognition

Using laser recognition, it will be possible to precisely recognize the lead parts to realize accurate insertion of pin insertion components.



Insertion lead part recognition.

Component handling and feeders

●Bowl Feeder(MBF)

Vibratory bowl feeders are available for bulk components.
Each feeder can hold up to six different components.
Two feeders can be mounted on each machine for a maximum of 12 different bulk components.

●Radial Feeder(MRF)

For taped components, radial feeders are available.
The radial feeder cuts the leads and presents the components accurately for pick up.
Up to 10 feeders can be mounted both on the front and rear sides of the JM-10.

Standard equipped with 6 nozzles

The standard placement head has 6 nozzles and laser centering. A variety of common nozzle types also are included, and a vast assortment of specialized and custom nozzles are available for unusual components. Please consult your local JUKI representative regarding the production of special order nozzles to match components.

Compact and less weight

●Excellent area productivity

(✻ For 900mm conveyor height)
Machine dimension (mm)