# J-Solution Corporation

We Ready For industry 4.0

MAI-SERIES NEW

ODD Shape Insertion Machine/Robot
FA Equipment Manufacture
Selective Soldering Machine
SMT Total Solution











# Mirae Corporation



Founded in 1983, our company is a source of pride for Korea as a leader in the high-tech industry, having been the first to domestically produce semiconductor test handlers and chip mounters.

Our equipment is sold all over the world in Europe, Asia, the Middle East, and the Americas. All of our executives and employees work together in unanimity to move forward as a global company. We are proud of our excellent technological skills and countless patents and strive to provide the best customer service to impress our customers at all times.

We will continue to grow into a trusted and loved company by our customers and create a cheerful workplace for our employees. Moreover, we believe that the spirit of dreaming for the bright future of our shareholders, company, and nation will open new doors for the future of Mirae Corporation.

We promise to pioneer the way for a more valuable future based on our decades-long history, and we invite you to keep an eye on our company with more interest and love.

Thank you.

CEO Mirae Corporation







# **Hybrid Insertion System**

# **MAI-Series**

Our Hybrid equipment integrates lead-type component insertion systems using Through Hole Technology with highly dependable SMT mounter technology, in order to optimize performance and quality



		Contract of the last			1	
Model		Unit	MAI-H4T	MAI-H6T	MAI-HST	MAI-12T
Optimal	Module	CPH (sec / Chip)	17,000 (0.21)	17,000 (0.21)	30,000 (0.12)	33,000 (0.11
	QFP		9,000(0.40)	11,500 (0.31)	21,000 (0.17)	23,000 (0.15
IPC-8850	Module		12,500 (0.29)	13,500 (0.27)	17,000 (0.21)	18,500 (0.19
	QFP		7,500(0.48)	9,000 (0.40)	11,000 (0.33)	12,000 (0.30
Accuracy	Module (3d)	- 17 X	±0.050			
	QFP (3e)					
Head		Number	4	6	8	12
Gantry		Structure	Single		Du	al
Compor	ent Range			0603 - 50 x	50, 90 x 30	
PCB Size	Standard	- 1	700 x 510 x 5.0	600 x 510 x 5.0	700 x 510 x 5.0	600 x 510 x 5.0
	Minimum		75 x 50 x 0.4 50 x 50 x 0.4 (Option)			
Component Height (Max)			55			
Power		V (Hz)	3 Phases 200 / 208 / 220 / 230 / 240 / 380 / 400 / 415 / 430 (50/60)			
Air		MPa	0.55			
Dimension		-	1,580 x 2,090 x 1,560			
Weight		kq	About 2,000 About 2,100			

# **Applicable Components**





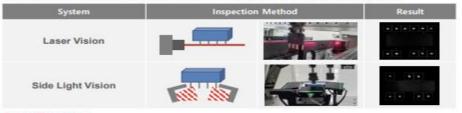




# Technologies (Machine)

### Laser & Side Light Vision System

Applying lasers and optical triangulation method, adjust the mounting position based on lead detection results, and determine the presence of lead bent or missing leads.



## **Auto Clinching**

A component lead clinching system can prevent fall-out and slanting issues while the PCB is in motion.



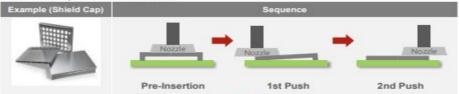
# ZHMD (Z-Height Measurement Device)

To prevent PCB defects caused by miss-inserted components, compare the component height before and after insertion and measure the evenness of the PCB using automatic level compensation.



#### Side Push

Use a side push technique with a nozzle to press pre-inserted components, especially for those that require further insertion.



Mirae M



# Technologies (Machine)

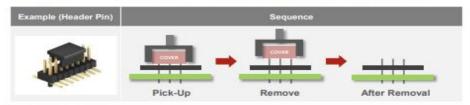
#### Avoid

To prevent collisions with other components or insertion defects, use a sequence that involves avoiding, pushing, and inserting the components



### Component Removal

Function for removing component cover or protective cap before inserting component



# Software Option







## Feeder & Nozzle

# Radial Feeder

Feeding system for components in Radial (Vertical) package type



### Axial Feeder

Feeding system for components in Axial (Horizontal) package type



#### Stick Feeder

Feeding system for components in stick package type







# Feeder & Nozzle

### **Bowl Feeder**

Feeding system for components in bulk or irregular package type



# Single / Dual Large Tray Feeder

Feeding system for components in tray package type



#### Reel Feeder

Feeding system for SMT components in tape reel package type



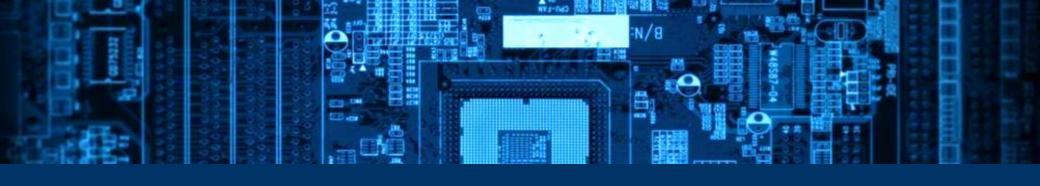
#### Nozzle

Key part for picking up and inserting components









# Thank you

Your Future, Our Future

