

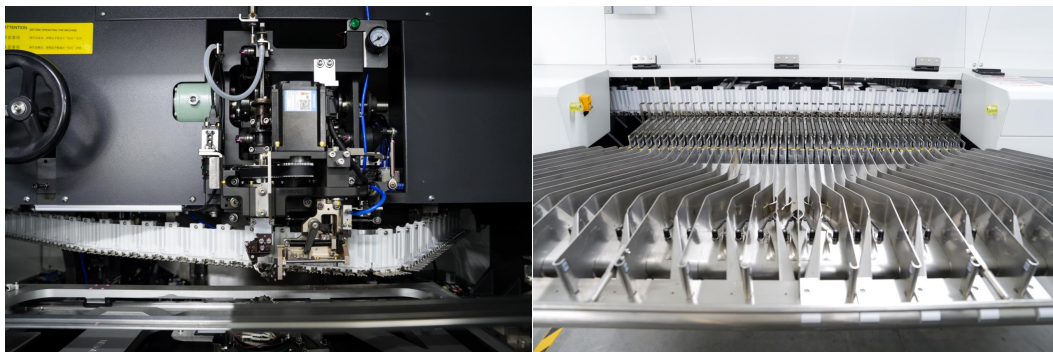
# RADIAL AUTO INSERTION MACHINE

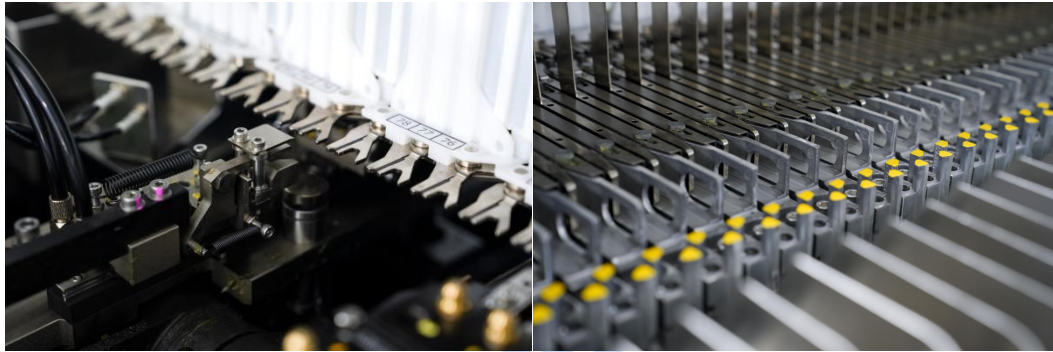
## NB168 H&M Series

- NB168 H&M-2P** 2-Pitch Insertion Machine(2.5/5.0 mm)
- NB168 H&M-3P** 3-Pitch Insertion Machine(2.5/5.0/7.5mm)
- NB168 H&M-4P** 4-Pitch Insertion Machine(2.5/5.0/7.5/10.0mm)
- NB168 H&M-3.5P** 3.5-Pitch Insertion Machine(2.5/5.0/3.5mm)
- NB168 H&M-T4P** Special4-Pitch Insertion Machine(2.5/5.0/7.5/10.0mm)



## Internal Details





## Application



### light industry

Solutions for the energy-saving lighting industry: industrial lighting, outdoor lighting, street lights, searchlights, etc. Features: Flexible production deployment, high-density PCB insertion, zero-waste lines.



### Household appliances industry

Solutions for the home appliance industry: air conditioners, TVs, microwave ovens, induction cookers, etc.



### Automotive industry

The current automotive trend is intelligent automation, such as electric seats, electronic handbrakes, shift paddles, etc.



### Other industries

Electronic solutions for other industries: electronic watches, instruments, electronic parts, etc.

## Parameters

No.	Item	Content
1	<b>Power Supply</b>	Rated voltage:33-phase380V±20V
		Frequency:50/60Hz
		Rated power:Approx.3.5KVA
2	<b>Air supply</b>	Supplied air pressure:Min.0.45Mpa - Max.0.8Mpa(Operation air pressure0.45MPa~0.5MPa)
		Supplied air mass:Approx.110L/min.(A.N.R)
3	<b>Dimensions</b>	W:2134mm,D:1815mm,H:1600mm(Not including signal tower)
4	<b>Mass</b>	Host weight:Approx.2,000kg(Main body only)
5	<b>Environmental requirements</b>	Ambient temperature:20℃±10℃
6	<b>Operating controls</b>	Interactive operation via color LCD touch screen.
		Input and output functions I/O functions: USB slot (standard equipment)
		Communication:LAN communication(TCP/IP)
7	<b>Insert beat (speed)</b>	Max speed takttime: Approx0.14s/point(0.168,0.20,0.25,0.30s/point changeable)
8	<b>Applicable components</b>	Height:Hn=Max23mm(Special specification up to 26mm)
9	<b>PCB replace time</b>	Diameter:D=Max.13mm
		Resistors, electrolytic capacitors, ceramic capacitors, LEDs, transistors, filter resistor networks
		Approx.3~4 seconds
10	<b>Applicable PCB</b>	Dimensions:Min.50mm×50mm~Max.508mm×381mm
11	<b>Insertion direction</b>	Allowable insertion area:Min.50mm×40mm~Max.500mm×375mm
		Thickness:1.6mm±0.15mm(for standard specification)Min.0.6mm~Max2.0mm(Optional)
		Board weight:Max.1kg per board including inserted components.
		Flow direction:right→left(Standard)、left→right(Option)
		Board positioning method:Pin positioning or Edge positioning
		Board transfer:Single PCB transfer(Standard) Double PCB transfer(Special specification)
12	<b>Anvil</b>	Lead bending angle 30°±15; Leading dimensions1.5±0.3mm; Cutting & Clinch type system (Piezoelectric detection system)
13	<b>No.of component inputs</b>	40/20 type inputs
14	<b>Control system</b>	Microcomputer system
15	<b>Programming method</b>	X-Y axes:Absolute coordinate commands
		Insertion pitch: Absolute commands
		Component feeder:Feeder number designation
16	<b>Least increment of X-Y table</b>	0.01mm/Pulse
17	<b>Program</b>	Number ofNC programs
		Built-in flash memory; 2000 programs
		USB Disk Depending on USB disk memory
18	<b>Indication light</b>	Signal tower (3 lamps,top to bottom:red/yellow/green)

19	<b>Hole position offset</b>	Determines optimum insertion positions based on the recognition of all insertion positions to make positional corrections (XY correction).
20	<b>Recovery</b>	Auto recovery/Auto recovery (Estimated Auto-recovery time Approx. 12s)
21	<b>Self-diagnosis function</b>	Presents on the color LCD the machine status when the power is ON and situation of any troubles occurred, as well as countermeasures against the troubles

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