

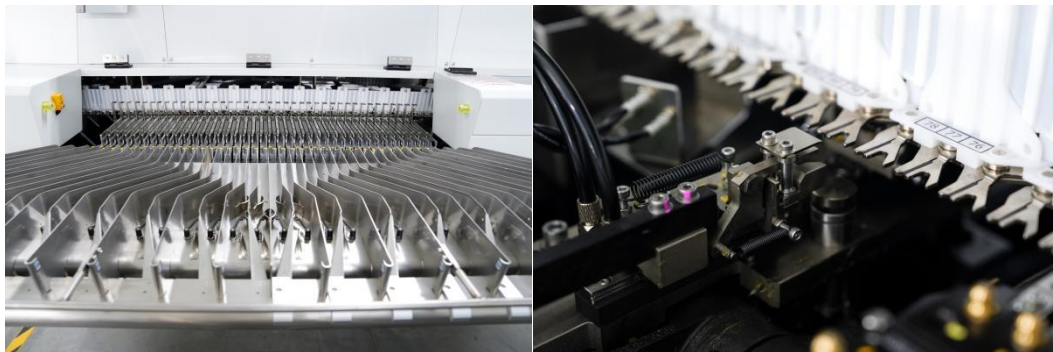
Radial Auto Insertion Machine

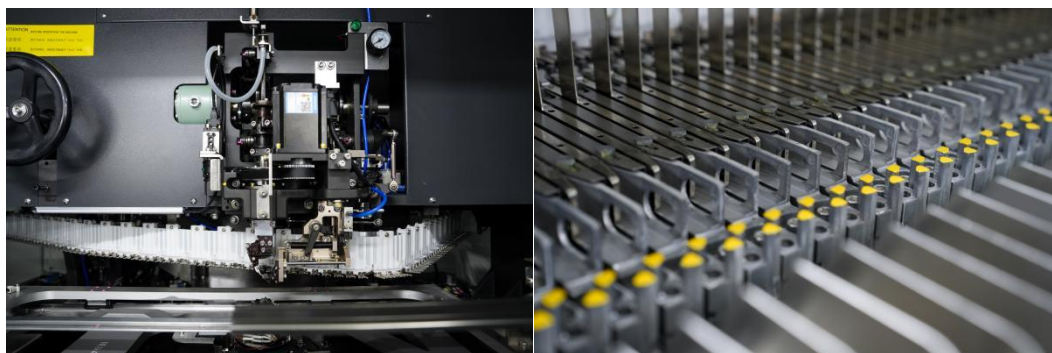
NB168 H&M Series

- 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)



I. Internal Details:





II. 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.

III. Parameters:

No.	Item	Content
1	Power Supply	Rated voltage:33-phase380V±20V,50/60H,3.5KVA
2	Air supply	0.45Mpa -0.8Mpa(Operation air pressure0.45MPa~0.5MPa),110L/min.(A.N.R)
3	Dimensions	W:2134mm,D:1815mm,H:1600mm(Not including signal tower)
4	Weight	Host weight:Approx.2,000kg(Main body only)
5	Environmental requirements	Ambient temperature:20℃±10℃
6	Operating controls	Interactive operation via color LCD touch screen.
		Input and output functions I/O functions: USB slot (standard equipment)
		Communication:LAN communication(TCP/IP)
7	Insert beat (speed)	Max speed tactime: Approx0.14s/point(0.168,0.20,0.25,0.30s/point changeable
8	Applicable components	Height:Max23mm(Special specification up to 26mm), Diameter:Max. 13mm
		Resistors, electrolytic capacitors, ceramic capacitors, LEDs, transistors, filter resistor networks
9	PCB replace time	Approx.3~4 seconds
10	Applicable PCB	PCB size:50mm×50mm~508mm×381mm
11	Insertion direction	Allowable insertion area:.50mmx40mm~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)
		360 degrees by 1 degree
12	Anvil	Lead bending angle 30°±15; Leading dimensions1.5±0.3mm; Cutting & Clinch type system (Piezoelectric detection system)
13	No.of component inputs	40/20 type inputs
14	Programming method	X-Y axes:Absolute coordinate commands
		Insertion pitch: Absolute commands
		Component feeder:Feeder number designation
15	Program	Number of NC programs
		Built-in flash memory; 2000 programs
		USB Disk Depending on USB disk memory
16	Hole position offset	Determines optimum insertion positions based on the recognition of all insertion positions to make positional corrections(XYcorrection).
17	Recovery	Auto recovery/Auto recovery (Estimated Auto-recovery time Approx.12s)
18	Self-diagnosis function	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

IV. Product Advantages:

- The machine is fundamentally designed with an integrated casting process to ensure overall reliability, and with high-precision machining components, it ensures the long-term stability of the machine at high speeds.
- The core components are configured with world-renowned brands, X, Y and motion screws are all made of Japan THK, bearings NSK, servos and servomotors are all made of Japan Panasonic, ensuring the stability, durability and reliability of the core components.
- The cam-type structure mechanical movement principle is adopted, from feeder feeding, parts shaping, foot cutting, material transmission, material clamping, material pressing, foot cutting, the machine's repetitive accuracy is ensured.
- The high-precision integrated miniaturized feeder has a small size, high speed, low noise, self-contained material shaping, reduced material consumption, and is equipped with up to 40 stations for high efficiency.
- Cam foot cutting device , component shaping design improves the quality of component insertion, ensures efficient and stable insertion rate, low noise, durable tools,
- Original imported belt and tray clamp design from Japan, fast running speed, wear-resistant and durable, more stable clamping
- The force of each tool is consistent to ensure the integrity of the internal components. The maximum cutting line can be 0.8mm, and the foot cutting tool is reliable and durable
- Automatically detect component height and automatically generate program data during the first production to ensure a stable insertion rate
- Highly integrated system bus servo control layout, faster response speed, self-diagnosis of faults, direct and clear adjustment of main control interface parameters, and after-sales remote control assistance
- Simple and easy-to-understand operation interface, MES port docking, traceability management system
- Front and rear dual-screen display control to reduce the time of walking back and forth and improve efficiency