Panasonic CONNECT

2024

Electronics Assembly System

High Speed Radial Lead Component Insertion Machine

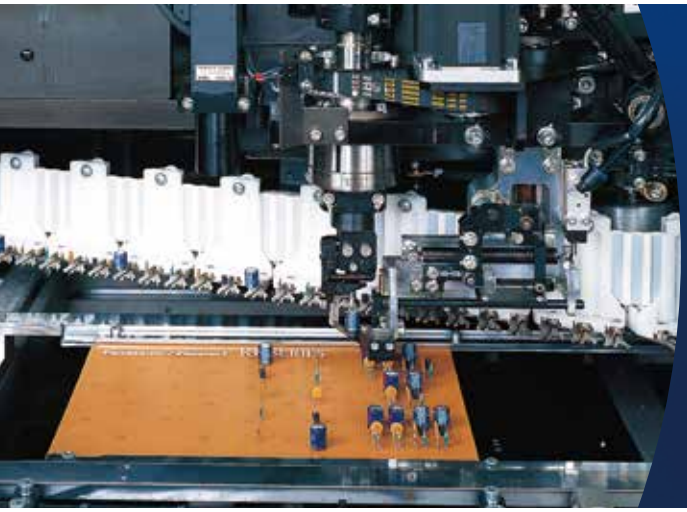
Catalogue

Model ID

RL132

Model No.

NM-EJR5A
NM-EJR6A



NM-EJR5A

•High productivity through high-speed insertion at 0.14 s / component.

*It may not conform to Machinery Directive and EMC Directive in case of optional configuration and custom-made specification.

Model ID	RL132	
Model No.	NM-EJR5A	NM-EJR6A
PCB dimensions	L 50 mm × W 50 mm to L 508 mm × W 381 mm	L 50 mm × W 50 mm to L 508 mm × W 381 mm
Max. speed	0.14 s / component	0.14 s / component
No.of component inputs	40	80 (Connection mode) , 40 + 40 (Exchange mode)
Applicable components	Pitch 2.5 / 5.0 mm (standard), 7.5 mm and 10 mm (option), Resistor , Electrolytic capacitor, Ceramic capacitor, LED, Transistor, Filter, Resistor network	Pitch 2.5 / 5.0 mm (standard), 7.5 mm and 10 mm (option), Resistor , Electrolytic capacitor, Ceramic capacitor, LED, Transistor, Filter, Resistor network
PCB exchange time	about 2 s to about 4 s (Room temperature 20 ℃)	about 2 s to about 4 s (Room temperature 20 ℃)
Insertion direction	360 ° direction by 1 ° increment	360° direction by 1 ° increment
Electric source *1	3-phase AC 200 V , 3.5 kVA	3-phase AC 200 V , 3.5 kVA
Pneumatic source	0.5 MPa , 80 L / min (A.N.R.)	0.5 MPa , 80 L / min (A.N.R.)
Dimensions	W 2 104 mm × D 2 183 mm × H 1 575 mm *2	W 3 200 mm × D 2 417 mm x H 1 575 mm *2
Mass *3	1 750 kg	2 350 kg

Please refer to the specification booklet for details.

Values such as maximum speed may vary depending on operating conditions.

*1 : Compatible with 3-phase 220 / 380 / 400 / 420 / 480 V
*2 : Excluding signal tower
*3 : Only for main body

High-speed insertion at 0.14 s / component

- Lead V cut method enables the machine to insert radial lead components at a speed of 0.14 s / component.
- Either one of 2-pitch (2.5 mm / 5.0 mm) , 3-pitch (2.5 mm / 5.0 mm / 7.5 mm) or 4-pitch (2.5 mm / 5.0 mm / 7.5 mm / 10.0 mm) spec. an be selected for insertion pitch.

Highly efficient production

- The fixed component feeder unit method and an out-of-component detection function allow component replenishment beforehand and long-term non-stop operation.
- Employing the dual- partitioned component supply method enables to select among from a connection mode, a preparation mode and an exchange mode. (80-type component specification only)
- A full-auto recovery function which automatically corrects insertion errors is provided so as to allow long-term non-stop operation.

Highly efficient use of area

- Compact component supply method enables a reduction of area of occupation.
  (40-type component specification only, Reduction of about 40 % for an original RL131 machine)
  Space saving installation and reduction of flow line allows high efficient production.

Hole position offset method ensures high reliability

- Recognizing the positions of all the holes (two or three) in the insertion area, the machine corrects the component position based on the optimum insertion position calculated, ensuring reliable insertion.

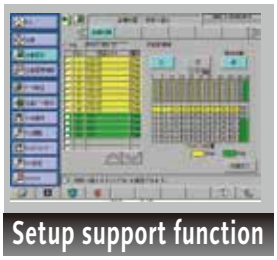
Reduction of running cost

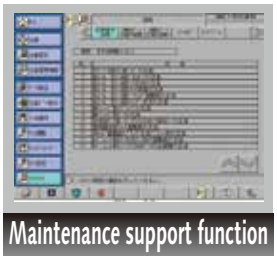
- Expandable parts of the RL132 such as the Anvil blade, pusher rubber are compatible with those of the RHS2B and RL131.
- Operability, the data configuration and the XY table can be shared in any one of the Insertion machine series.
  The setup and maintenance operations are standardized.

Operability enhancement

- Identical control panels are setup at the front side of the RL132 so that operability can be significantly improved. (Standard specification)
- Up to 200 types of programs can be stored. Data can be input to and output from high-capacity SD memory cards.
- NC data of our conventional equipment (RH series) can be used by the RL132.
- Setup support functions that display the component layout of the component supply unit on the screen are provided.
- Maintenance support functions that display information of regular maintenance time and operation content are provided.


Operation guidance indication


Setup support function


Maintenance support function

Enlargement function option

- Large-size PCB support option allows hole recognition and insertion up to PCB size of Max.650 mm × 381 mm.
- 2 PCB transfer option can decrease PCB loading time by half and increase productivity.
  This is effective especially when insertion components are few.

AR-DCE (model No. NM-EJS4B) Data Creation & Editor System

- Offline editor facilitates offline program editing and optimization without interrupting the machine operations.
- Connectivity option empowers real-time production monitoring, automated data extraction, data analysis, report generation, machine stops and interlock.

⚠ Safety Cautions

- Please read the User's Manual carefully to familiarize yourself with safe and effective usage procedures.
- To ensure safety when using this equipment, all work should be performed according to that as stated in the supplied Operating Instructions. Read your operating instruction manual thoroughly.

Panasonic Group products are built with the environment in mind. For details here Panasonic GREEN IMPACT

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- Changes in specifications and appearance may be made without notice for product improvement.
- Please contact us via our website at **https://industrial.panasonic.com/ww/r/fw**