Panasonic CONNECT

Electronics Assembly System

High Density Radial Lead Component Insertion Machine
Catalogue

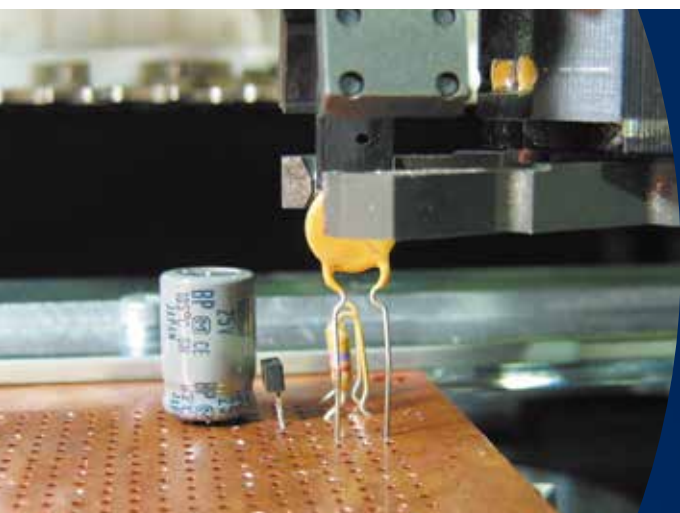**Model ID**
RG131
Model No.
NM-EJR4A

Model ID
RG131-S
Model No.
NM-EJR7A

NM-EJR7A

- **By supporting 3 / 4 pitches, expanding the range of board sizes and increasing component input, the high-density radial component insertion machines provide higher productivity.**

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

Model ID	RG131	RG131-S
Model No.	NM-EJR4A	NM-EJR7A
PCB dimensions	L 50 mm × W 50 mm to L 508 mm × W 381 mm	
Max. speed *1	0.25 s / component to 0.6 s / component	
No.of component inputs	80 (Connection mode) , 40 + 40 (Exchange mode)	40
Applicable components	Pitch 2.5 mm , 5.0 mm , 7.5 mm , 10.0 mm Height Hn=Max.26 mm Diameter D=Max.18 mm Resistor, Electrolytic capacitor, Ceramic capacitor, LED, Transistor, Filter, Resistor network	
PCB exchange time	about 2 s to about 4 s (Room temperature 20 ℃)	
Insertion direction	4 directions (0 ° , 90 ° , -90 ° , 180 °)	
Electric source *2	3-phase AC 200 V , 3.5 kVA	
Pneumatic source	0.5 MPa , 80 L / min (A.N.R.)	
Dimensions	W 3 200 mm × D 2 417 mm × H 1 620 mm *3	W 2 104 mm × D 2 183 mm × H 1 620 mm *3
Mass	2 350 kg	1 950 kg

Please refer to the specification booklet for details.

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

*1 : On condition
*2 : Compatible with 3-phase 220 / 380 / 400 / 420 / 480 V
*3 : Excluding signal tower

Higher insertion speed and operation efficiency improve productivity

- 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. can be selected for insertion pitch.
- Realized high speed insertion at a rate of between 0.25 s and 0.6 s per component. even for large-size components with 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.
- The use of guide pins makes high-density insertion possible when there is a gap between components (the gap between components is 0.5 mm).

Complete self-correction function ensures high reliability

- Complete self-correction function covering the entire surface of the PC board ensures accurate insertion of the guide pin.

Efficient in achieving long-term operation and optimizing area utilization

- RG131 has a total of up to 80 types of components can be mounted, with up to 32 (16 + 16) types of large-size components. The two-separate component supply unit enables components to be exchanged and replenished during operation (ex. Exchange mode).
- RG131-S utilize the same base as RL132-40 station, thus reducing the footprint by 40%. Area productivity improves by 40 %.*

*Compared with RG131 (40 stations)

Reduction of running cost

- Expendable parts of the RG131 and RG131-S such as the Anvil blade, lead cutter, chuck rubber and pusher rubber are compatible with those of the RHSG.
- The transfer system, the XY table , the controller and the driver can be used in any one of the Insertion machine series. The setup and maintenance operations are standardized.

Operability enhancement

- The liquid crystal touch panel is employed for the control panel and easy operation can be provided by the operation guidance indication. Japanese , English or Chinese can be selected by one touch operation as the language used for the screen displays.
- The new controller can store up to 200 types of programs. 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 RG131 and RG131-S.
- 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.
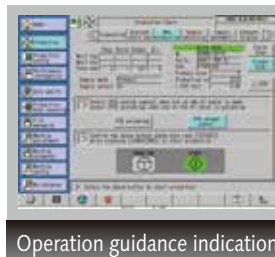
Operation guidance indication
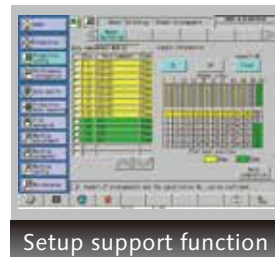
Setup support function
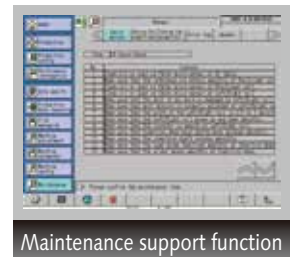
Maintenance support function

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.

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Panasonic GREEN IMP**ACT**

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- Changes in specifications and appearance may be made without notice for product improvement.
- Please contact us via our website at **connect.panasonic.eu**