

Model ID	RL133
Model No.	NM-EJR1B
PCB dimensions	L 50 mm × W 50 mm to L 508 mm × W 381 mm Max. L 650 mm × W 381 mm (option)
Max. speed	0.14 s / component
No. of component inputs	40
Applicable components	Pitch : 2.5 mm, 5.0 mm, 7.5 mm and 10.0 mm Height : Max. 26 mm, diameter : Max. 13 mm (Option : 16 mm) Resistor, Electrolytic capacitor, Ceramic capacitor, LED, Transistor, Filter, Resistor network
PCB exchange time	about 2 s to about 4 s (Room temperature 20 °C)
Insertion direction	360 ° direction by 1 ° increment
Electric source	3-phase AC 200, 220, 380, 400, 420, 480 V 3.5 kVA
Pneumatic source	Min.0.5 MPa、165 L / min (A.N.R.)
Dimensions	W 2 104 mm × D 2 183 mm × H 1 575 mm *1
Mass *2	1 900 kg

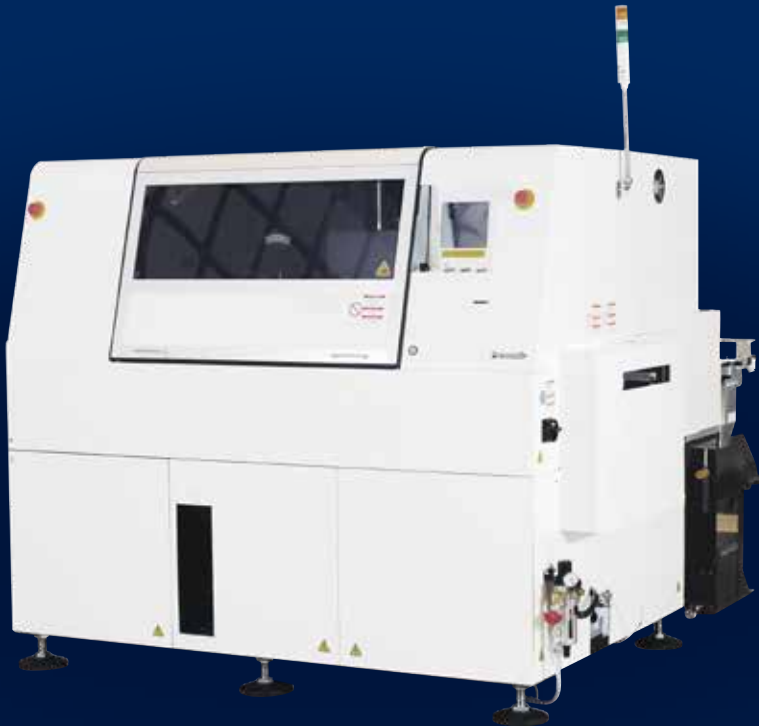
Please refer to the specification booklet for details.

*1 : Excluding signal tower
*2 : Including 2 component boxes

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

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 **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

Inquiries...

Panasonic Connect Europe GmbH
Factory Solutions

Caroline-Herschel-Straße 100
85521 Ottobrunn
Germany

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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



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

RL133 A versatile, high-speed and highly systematized insertion machine designed for radial components

RL133's features

1 Versatility enhancement

" Right and left edge reference chucking technology (the first in the industry) " and 360 ° circular insertion enable high-density insertion , which was previously impossible at high insertion speed.

*Based on Panasonic investigation by Jan 2025

2 Improved productivity and functionality

An upgraded XY table travel distance from 36 mm to 40 mm , provides an impressive up to 8 % * boost in performance.

*Compared to RL132

3 Exclusive system solution for AI machines

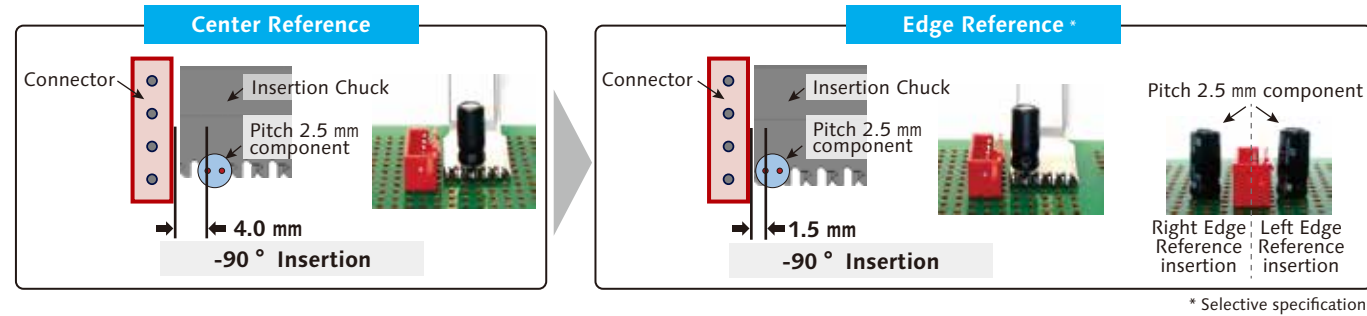
Software integration empowers machine connectivity , reduces manpower and improves machine O.E.E.

*Automatic insertion machines

Versatility enhancement

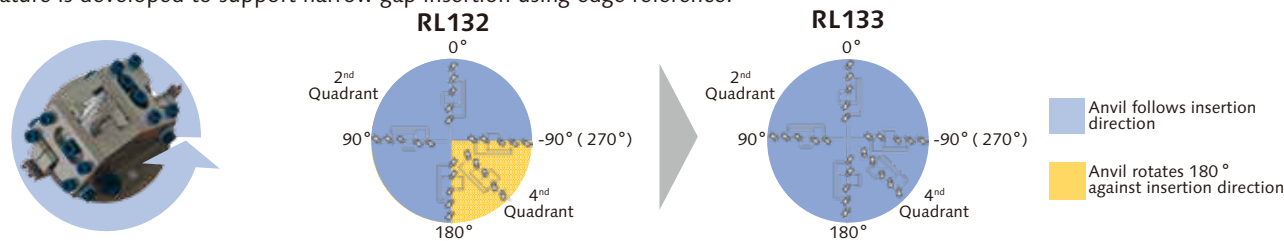
Narrow gap insertion

The right and left edge reference* enables a narrower gap between components, achieving high-density insertion.

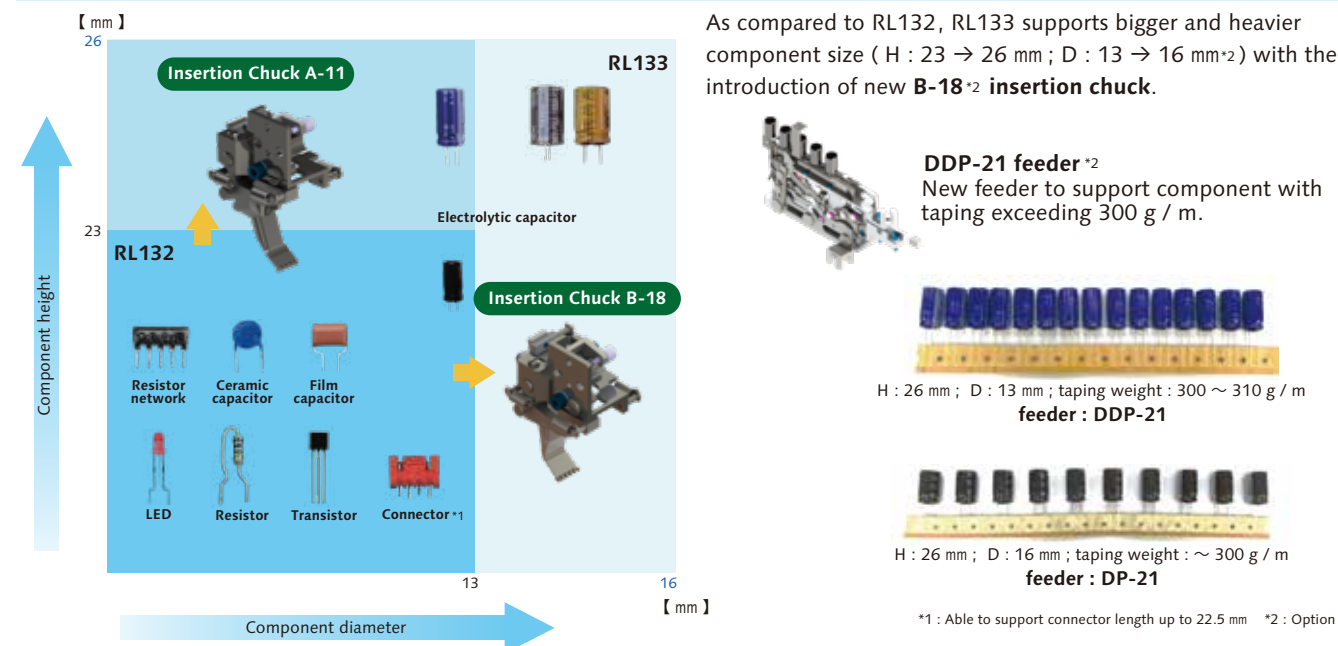


360 ° Anvil rotation

Compared to the RL132, 360 ° anvil allows for continuous circular pattern insertion. This feature is developed to support narrow gap insertion using edge reference.

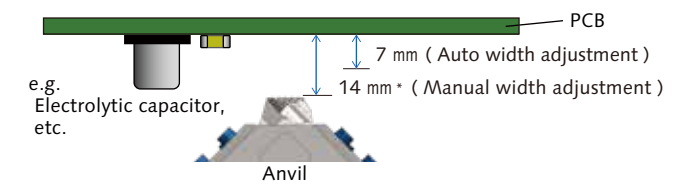


Big & heavy component support



Increase under PCB clearance

Under PCB clearance up to 14 mm* is possible for tall pre-inserted components on PCB.

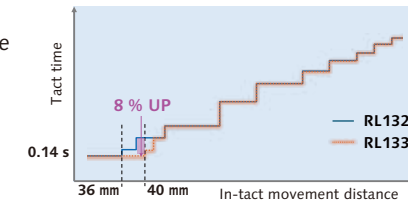


* After Anvil cut & clinch leads, anvil descends 7 mm before X-Y table moves. Anvil then continues its descent to 14 mm while X-Y table moves to the next insertion point.

Improved productivity and functionality

Extension of X-Y table movement distance

With upgrading the servo system, the maximum movement of the X-Y table within the highest tact time, 0.14 s, has been improved from 36 mm in RL132 to 40 mm. This is up to 8 % performance improvement compared to RL132.



Note : The highest tact time requires specific X-Y table movement, insertion angle, feeding conditions, and component size. Refer RL133 specification book for details.

Expansion of component range

4-pitch specification comes as a standard in RL133. This means a wide range of components such as 2.5 mm, 5.0 mm, 7.5 mm, and 10.0 mm can be inserted. (RL132 : 3-pitch, 4-pitch option)

NC data compatibility

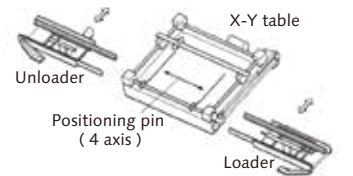
NC data used for the previous machines can be used for the RL133. Previous machines : RH, RH6, RHP, RHP2, RH2, RH3, RH5, RHSG, RHS, RHS2, RHS2B, RHU, RHU2, RHUP, RL131, RL132

Improve operability

Through the new controller, production programs can be increased from 200 to 500.

Improvement of changeover loss time*1

Automatic width adjustment*2 enables automatic adjustment of loader and unloader rails, as well as XY table of the PCB transfer unit.



Non-stop production*1

Auto recovery function allows automatic insertion error correction to ensuring long-term uninterrupted production.

Exclusive system solution for AI machines [AR-DCE (Model No. NM-EJS4B) Data Creation & Editor System]

Offline editor (Standard function)

This software enables offline program editing and optimization without disrupting machine operations. It simplifies part assignment, requiring least technical expertise, and CSV data import function can be used to import information such as insertion positions from CAD formats.

Connectivity (Option function)

The features of the Data Extraction and Data Analysis enable automated data extraction, storage and analysis. The insights help customers identify key areas for process improvement and enhance overall equipment efficiency (O.E.E). The Machine Control feature enables remote machine stop and interlock capabilities to enhance safety and reduce changeover time.

