ENGMATEC

MANUELL AUTOMATION

Special Test Equipment

Assembly Automation with Testing Equipment

GNR 11223-1

Solderless connection equipment with pin check

Requirements

- Manual seated/standing workstation
- Recognition of various housings and circuit board versions
- Recognition of position in relation to housing and type of circuit board
- Solder-free pressing of circuit board onto plug connections
- Presence check for all connections

Execution

- Use of hydro-pneumatic press with sliding table
- Safety light curtain
- Master Siemens SPC with OP3 text display
- Interval measurement with laser sensors
- Identification of parts with light sensors and data matrix scanner
- Pneumatic locking in the event of error recognition
- Recognition of plug connections with precision switching contact pins

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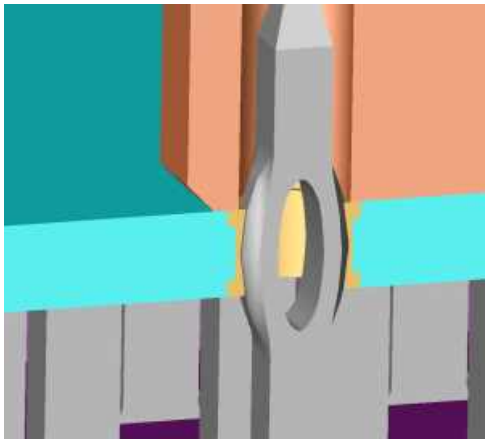
Solderless connection equipment with pin check

With this machine, the contact is pressed into the metallized hole in a circuit board. Contact is made between the deformable contact and metallized hole. Gas-tight connection when properly dimensioned and hole layout correct. The layout of the tolerances for the metallized hole are of decisive importance for the quality of the contact.

The tolerance of the hole is: Nominal dimension -0.025 mm.



Resilient pressing zone

The resilient pressing zone has different shapes, e.g. W, Z, U, H, Y, X, C, V, S, needle eye as well as other shapes for specific manufacturers.

All these resilient pressing zones have the following characteristics.

Decisive advantages in comparison to solder connections:

- No thermal stress for components
- Particularly economical, fast and secure connection
- Direct metallic contact (gas-tight, gap-free connection)
- Seal against corrosive environmental influences

For use with:

- Extreme electrical load
- Rapid temperature changes
- Moist heat
- Long-term storage at high temperature
- High mechanical stress