

P-AOI

Punching - Automated Optical Inspection

P/N: 01-01-0005



Applications:

Performs visual inspection and validation of connectors after the punching process



Technical Features:

- ▶ Identification of correct punching pattern and hole clearance, including burr measurement;
- ▶ Error-proof inspection: desired pattern selected using barcode reader;
- ▶ Local configuration of punching patterns. For the programmed connectors any pattern can be configured;
- ▶ Simple and intuitive program configuration;
- ▶ Possibility to add additional connectors and upgrade the machine (visual inspection program done by supplier);
- ▶ Visual inspection routine detects the position of the connector, eliminating the need of the connector to be in strict position;
- ▶ Program settings saved in database, without memory limitations;
- ▶ Configuration mode password protected;
- ▶ Partial and global cycle counters;
- ▶ Working time counter;
- ▶ Several system's languages, including English, Portuguese, ...
- ▶ Can connect and communicate with APM machine.



Flexibility:
Can inspect different connectors in the same machine.
Allows to add new connectors at any time.
Definition of patterns locally.



Ensured Quality
Verification of correct punching pattern.
Measure of burrs in the hole.



High Connectivity
User-friendly interface, easy to use machine
Touchscreen, USB, network connection, etc.



Productivity:
Test time of 1 second each 2 connectors



Option of in-line Process:
Can be integrated with other machines, namely APM machine

The P-AOI - Punching Automated Optical Inspection is a system designed to perform visual inspection of previously punched connectors in order to check if the punching process is in accordance with the required.

The machine verifies if the correct holes are punched and the quality of the punch (hole clearance and burr dimensions).

The punching pattern to be verified is selected using a barcode reader or supplied by an APM machine.

The patterns are defined locally, by the user as well as the hole clearance and acceptance threshold.

The user places the punched connectors into a matrix and presses a button to start the inspection process.

The software automatically identifies if the pattern is the correct one and which holes are OK and NOK.

The matrix is flexible for different connectors, but can also be exchanged if needed.

New connectors identification software can be easily upgraded into the machine.

Technical Data:

Dimensions:

Length:	334 mm
Width:	315 mm
Height:	570 mm
Weight:	35 kg

Connections:

Electrical:	230 VAC @ 50 Hz - 1 IEC standard male socket
Consumption:	1000 W (peak)
Interface:	Touchscreen, USB, buzzer and LED

Options:

Connector Matrix + Inspection Program

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