

## LASER TRIMMER PAL

The unique passive alignment technology of MicroContact allows the trimming of all resistors in a single process step. Therefore it is significantly faster and more efficient than conventional solutions. The substrate is fixed between the pressure bell and the rigid needle adapter. The compressed air in the



pressure chamber counteracts the contacting force. All resistors are now contacted from below and are exposed at the top, which means they can all be trimmed through the pressure glass in one process.

## Advantages of the PAL laser trimmer

- All resistors can be trimmed in a single cycle.
- The substrate is processed in only one processing step.
- Only one machine is required (space saving).
- Only one adapter per substrate is required (cost saving).
- Quicker adjustment only one adapter needs to be adjusted.
- Quicker batch processing time.
- No limitation of the resistor density.
- Test points with a minimum of ø150µm are required.
- Due to suction cleaning of the trim combustion in the pressure chamber, the substrate, the adapter and the machine are not contaminated.
- Vision system for laser trimming and aligning.
- Panels can be stepped through in X and Y direction.
- Cost-effective system (1 trimmer and not 5-8 devices).

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## **Specifications**

machine type fully automated passiv alignment laser trimmer

substrate feed inline, blister, magazine

measurements -

adapter type rigid needle adapter contacting way one side from below

contacting area 50 x 50mm to 100 x 100mm

contacting force  $\leq 800N$ test point size  $\Rightarrow 150\mu m$ test point pitch  $\Rightarrow 200\mu m$ PCB-/ carrier size W x L  $\Rightarrow 200 \times 220mm$ 

marker system, optional -

PCB cleaning, optional cleaning roll or airknife for bare substrates

changing system screwed adapter

grid with quick clamping systemscrewed adapter

grid with quick clamping system

fixating of PCB clamps

PRS / camera Cognex with PatMax

control brick.technology with Windows

user interface brick.touch on 17" screen

communication -

dimension (W x D x H) 3000 x 1900 x 2000mm

weight ≥ 1600kg

supply 3 x 400V, 50/60Hz, 6kW

6 bar compressed air

