

8 PCB Separator MAESTRO 5L



Strain of components

Frequently for critical components an upper limit of tensile stress will be determined. Please ask us regarding possibilities to reduce tensile stress of components.

MAESTRO 5L

is used most economically whenever large numbers of pre-scored PCBs need to be separated. The well-arranged control panel ensures easy operation. PCB panels with a maximum width of 310 mm can be separated by up to 10 circular blades simultaneously. Sensors are used to monitor the separation process. The PCBs are placed either by hand or they are fed automatically by a loading station. The machine can also be installed in an assembly line. The SMEMA interface is the standard connection for this use. The PCB Separator MAESTRO 5L can be adjusted to your PCB and your individual requirements. For PCB panel widths larger than 310 mm on request.

| | |
|---|---|
| PCB thickness A | 1.0 - 3.2 mm |
| Remaining PCB thickness B | typical 1/3 of Dim. A min. 0.3 mm, max. 0.6 mm |
| Depth of scoring C | min. 0.3 mm |
| Increase in external dimensions after separation | 0.1 - 0.2 mm |
| The pre-scored grooves can be interrupted by cutouts with a length of up to approx. 5 mm. | |



The machine is supplied with a heightadjustable base. In this way it can be adapted optimally to every requirement.



MAESTRO 5L Customer-specific application

The separated PCBs are transported by the conveyor belt for further treatment. Workplaces are arranged on the right and on the left of the belt. The side strips drop down into a collecting box.



Dust Extraction

The Dust Extractor can be switched on directly on the PCB Separator. More information: see page 10.



| Technical Data | |
|--|---|
| Separation type | Component side circular blade Solder side circular blade |
| Operation | motorized |
| Separation speed | 100 - 220 mm/s in 10 steps |
| Length of PCB panel with light barrier activated with light barrier de-activated | 100 - 570 mm > 100 mm |
| Width of PCB panels | max. 310 mm |
| Width off-cut | min. 3 mm |
| Height of components | Component max. 30 mm Solder side max. 10 mm |
| Number of circular blades | max. 10 |
| Width of PCBs | 10 - 290 mm |
| Display | - Separation speed - Separated lenght or numbers of PCB panels |
| Keys | - Start, stop, reverse - Setting of separated speed |
| Monitoring | - Detection of separation lenght - Accumulation in front of and behind the blades - Stop the end of the |
| Interfaces | - conveyor belt - Remote start/stop - SMEMA (round 14 pins) |
| Mains voltage | 230 /115 V~ 50 - 60 Hz |
| Operating temperature | 10 - 35° C |
| Storage/transport temp. | -20 - 50° C |
| Humidity non-condensing | 10 - 85% |
| Weight | 63 kg |
| Dimensions with base height width dept | 750 - 1000 mm 440 mm 1100 mm |

| Part No. | Description | |
|----------------|---|----|
| 8934520 | PCB Separator MAESTRO 5L Contents of delivery: MAESTRO 5L with base Circular blades on customer request Service tools | |
| Part No. | Spare parts | PU |
| 8934803 | Circular blade width 8 mm | 1 |