

PCB Separator MAESTRO 4M



MAESTRO 4M separates both small and large PCBs fast and economically. To optimize operation, the separation length can be programmed with the control keys.

Foto: MAESTRO 4M clean with dust extraction and conveyor belt

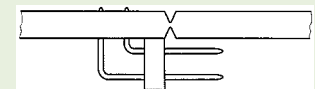
Safe Operation

The PCB is placed with its pre-scored groove onto the linear blade. When the foot switch is pressed, the blade carrier with the circular blade moves across the PCB, separating it into individual units.

The clearance between the upper guide and the linear blade is adjustable to ensure that the PCB is only separated in the pre-scored groove. The table can be continuously adjusted with the rotary knob whenever required while the rest can be adjusted in three steps to the most suitable working position.

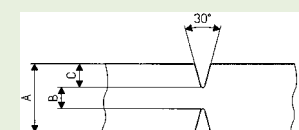


If components project above the groove, the linear blade needs to be cut out. In such a case, contact us.



| | |
|--|--------------------------------------|
| PCB thickness A | 0.8 - 3.2 mm |
| Remaining PCB thickness B | typical 1/3 of Dim. A max. 0.8 mm |
| Depth of scoring C | min. 0.25 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.





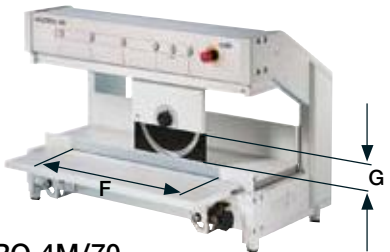
MAESTRO 4M/450
MAESTRO 4M/450 clean

Component height at the edge on the PCB
max. 40 mm



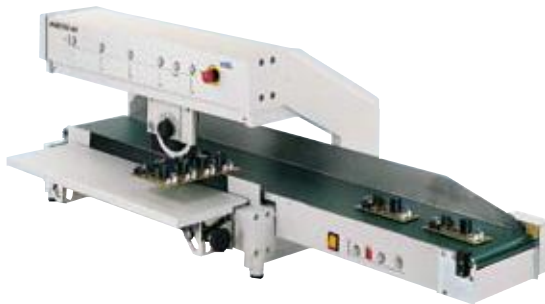
Dust Extraction

The extraction volume can be adjusted on the machine. More information: see page 11.



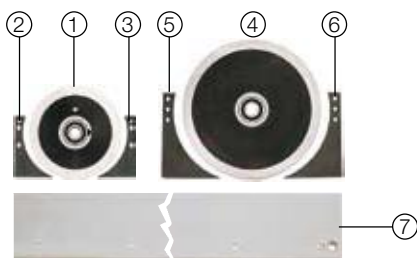
MAESTRO 4M/70

Component height at the edge on the PCB
max. 70 mm



Conveyor belt for higher performance

The PCBs are transported out of the machine after separation. The light barrier at the end of the conveyor belt can stop the arriving PCBs.



Technical Data PCB Separator

| | | |
|-------------------------------|---------------------------------------|----------------|
| Separation type | Component side | circular blade |
| | Solder side | linear blade |
| Operation | Optimized motor driven | |
| Separation speed | 300/500 mm/s | |
| Mains voltage | Dual voltage 230/115 V~ 50 - 60 Hz | |
| Earthing stud | Ø 10 mm | |
| Operating temperature | 10 - 35° C | |
| Storage/transport temperature | -20 - 50° C | |
| Humidity, non-condensing | 10 - 85% | |
| Safety regulations | CE, FCC class 1 | |

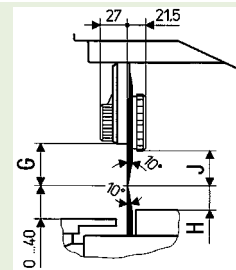
Technical Data Conveyor Belt

| | |
|---------------------------|------------------------------------|
| Material of conveyor belt | Antistatic |
| Direction of belt travel | To the right |
| Belt speed | 5/6/7/8/9 m/min |
| Light barrier | Can be activated for belt stoppage |
| Safety regulations | CE, FCC class 1 |
| Width of table | 540 mm |
| Weight | 14 kg |

Maximum height of components next to the groove

H

| | |
|---------------|--------|
| Table | 9 - 39 |
| Conveyor belt | 5 - 17 |



| Part No. | Descriptions | Length of devise | Hight of devise | Separation length | Component height before the groove | Component height behind the groove | Weight in kg |
|----------|--------------|------------------|-----------------|-------------------|------------------------------------|------------------------------------|--------------|
|----------|--------------|------------------|-----------------|-------------------|------------------------------------|------------------------------------|--------------|

| Part No. | Descriptions | F | G | J |
|----------------|---------------------------------------|-----|-----|-----|
| 8930800 | PCB Separator MAESTRO 4M/450 | 702 | 434 | 450 |
| 8932660 | PCB Separator MAESTRO 4M/450 clean | 702 | 434 | 450 |
| 8931090 | PCB Separator MAESTRO 4M/70 | 702 | 492 | 370 |
| 8931240 | Conveyor belt | | | |

Spare parts

| Pos. | Part No. | Spare parts | PU |
|------|----------------|-------------------------------------|----|
| 1 | 8930501 | Upper circular blade | 1 |
| 2 | 8930603 | Guide 2 up to serial no. 1999 | 1 |
| 2 | 8936615 | Guide 2 from serial no. 2000 | 1 |
| 3 | 8930602 | Guide 1 up to serial no. 1999 | 1 |
| 3 | 8936614 | Guide 1 from serial no. 2000 | 1 |
| 4 | 8930765 | Circular blade passage height 70 mm | 1 |
| 5 | 8930756 | Guide 2/70 | 1 |
| 6 | 8930755 | Guide 1/70 | 1 |
| 7 | 8930668 | Linear blade 450/370 | 1 |

PU = Packing Unit