

# PCB Separator MAESTRO 4M



**Separating of aluminum-boards on request**

Picture: 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.

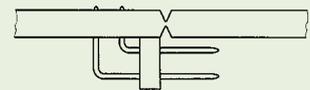
## Safe Operation

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.

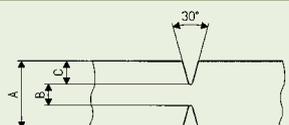


If components project above the groove, the linear blade needs to be cut out. In such a case, contact us.

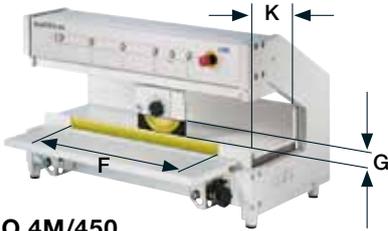


PCB thickness A	0.8 - 3.2 mm
Remaining PCB thickness B	typical 1/3 of Dim. A, max. 0.8 mm
Depth of scoring C	min. 0.25 mm
Increase in external dimensions after separation	0.1 - 0.2 mm

The pre-scored grooves can be interrupted by cutouts with a length of up to approx. 5 mm.



# PCB Separator MAESTRO 4M

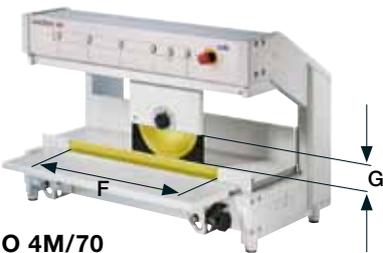


**MAESTRO 4M/450**  
**MAESTRO 4M/450 clean**

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

**clean-Version**

MAESTRO 4M clean is prepared mechanically for dust extraction to remove dust particles with special linear blade.



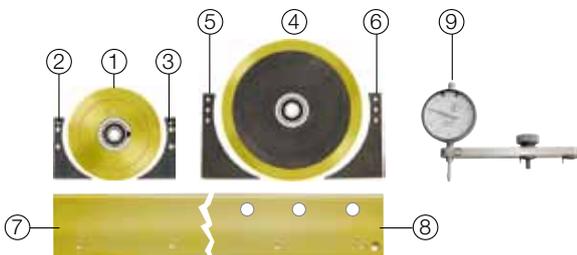
**MAESTRO 4M/70**  
**MAESTRO 4M/70/520**

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



**Sideways transport of separated boards**

Sideways transport of singled boards. No overlapping of separated boards. Stop of the boards by sensor barrier on the end of the conveyor. Transport length adjustable in 50 mm steps.



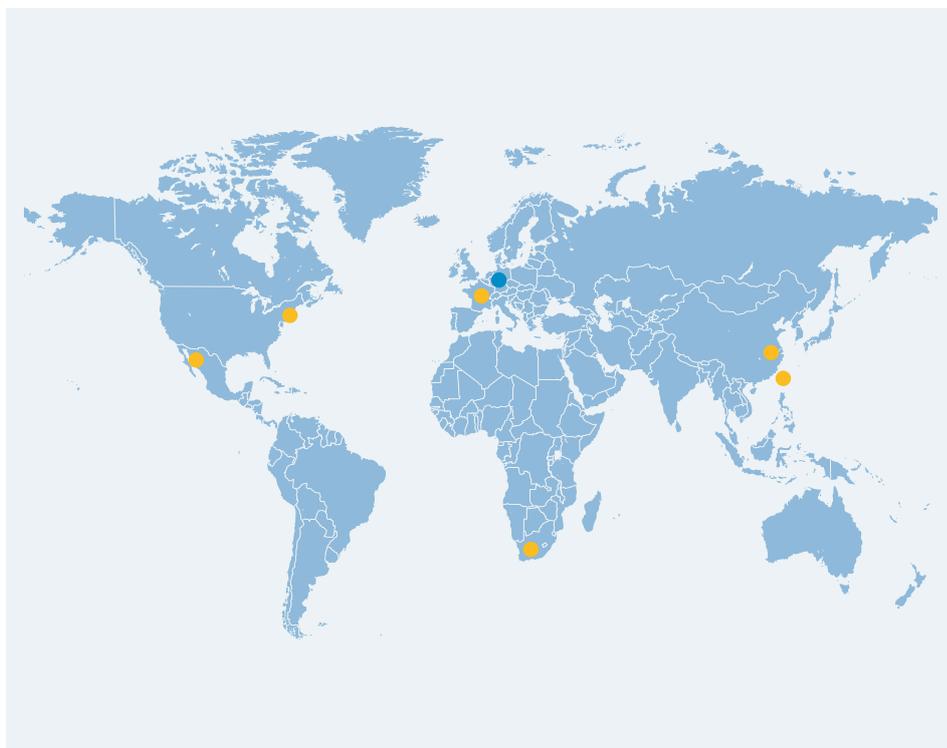
Technical data PCB Separator	
Separation type	Component side circular blade Solder side linear blade
Operation	Optimized motor driven
Separation speed	300/500 mm/s
Mains voltage	230/115 V~ 50 - 60 Hz
Earthing stud	Ø 10 mm
Operating temperature	10 - 35° C
Storage/transport temp.	-20 - 50° C
Humidity, not condensing	10 - 85%
Safety regulations	CE, FCC class A
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 A
width of belt	170 mm
Weight	14 kg
Maximum height of components next to the groove	
Table	5 - 35
Conveyor belt	5 - 17

Part No.	Descriptions	Length of device	Hight of device	Separation length	Component height before the groove	Component height behind the groove	max. board depth	Weight in kg
		F	G	J	K			
<b>8933955</b>	MAESTRO 4M/450	702	434	450	40	34	200	38
<b>8933950</b>	MAESTRO 4M/450 clean	702	434	450	40	34	200	39
<b>8933960</b>	MAESTRO 4M/600	852	434	600	40	34	200	46
<b>8933965</b>	MAESTRO 4M/70	702	492	370	70	64	200	40
<b>8933905</b>	MAESTRO 4M/70/520	852	492	520	70	64	200	48
<b>8931240</b>	Conveyor belt 450	1200					200	
<b>8932150</b>	Conveyor belt 600	1350					200	

Pos.	Part No.	Consumables	PU
1	<b>8930509.001</b>	Upper circular blade	1
2	<b>8930603.001</b>	Guide 2 up to serial no. 1999	1
2	<b>8936615.001</b>	Guide 2 from serial no. 2000	1
3	<b>8930602.001</b>	Guide 1 up to serial no. 1999	1
3	<b>8936614.001</b>	Guide 1 from serial no. 2000	1
4	<b>8933933.001</b>	Circular blade passage height 70 m	1
5	<b>8930756.001</b>	Guide 2/70	1
6	<b>8930755.001</b>	Guide 1/70	1
7	<b>8933394.001</b>	Linear blade 450/370	1
7	<b>8933682.001</b>	Linear blade 600/520	1
8	<b>8933931.001</b>	Linear blade 450/370 clean	1
Pos.	Part No.	Accessories	PU
9	<b>8970208.001</b>	Dial gauge for MAESTRO 3/4M	1

- *Headquarters in Germany*
- *cab subsidiaries*  
*350 distribution partners*  
*in more than 80 countries.*

*cab is represented in every active commercial center - worldwide.*



[www.cab.de](http://www.cab.de)

#### Germany

cab Produkttechnik  
GmbH & Co KG  
Postfach 1904  
76007 Karlsruhe  
Wilhelm-Schickard-Str. 14  
76131 Karlsruhe  
Telefon +49 721 6626-0  
Telefax +49 721 6626-249  
[www.cab.de](http://www.cab.de)  
[info@cab.de](mailto:info@cab.de)

*Representatives in other countries on request.*

#### France

cab technologies s.a.r.l.  
67350 Niedermodern  
Téléphone +33 388 722 501  
[www.cab.de/fr](http://www.cab.de/fr)  
[info.fr@cab.de](mailto:info.fr@cab.de)

#### USA

cab Technology Inc.  
Tyngsboro MA, 01879  
Phone +1 978 649 0293  
[www.cab.de/us](http://www.cab.de/us)  
[info.us@cab.de](mailto:info.us@cab.de)

#### South Africa

cab Technology (Pty.) Ltd.  
2125 Randburg  
Phone +27 11-886-3580  
[www.cab.de/za](http://www.cab.de/za)  
[info.za@cab.de](mailto:info.za@cab.de)

#### Asia 亚洲

cab Technology Co, Ltd.  
**希爱比科技股份有限公司**  
Junghe, Taipei, Taiwan  
Phone +886 2 8227 3966  
[www.cab.de/tw](http://www.cab.de/tw)  
[info.asia@cab.de](mailto:info.asia@cab.de)

#### China 中国

cab (Shanghai) Trading Co., Ltd  
**铠博(上海)贸易有限公司**  
Phone +86 21 6236-3161  
[www.cab.de/cn](http://www.cab.de/cn)  
[info.cn@cab.de](mailto:info.cn@cab.de)

*This documentation and any translations hereof are the property of cab GmbH & Co KG.*

*The replication, processing, reproduction or distribution in whole or in parts requires our prior written consent. © Copyright bei cab/9008452.*

*All delivery, design and technical specifications are compiled to the best of our current knowledge and are subject to change without prior notice.*