

# PCB separator MAESTRO 4S

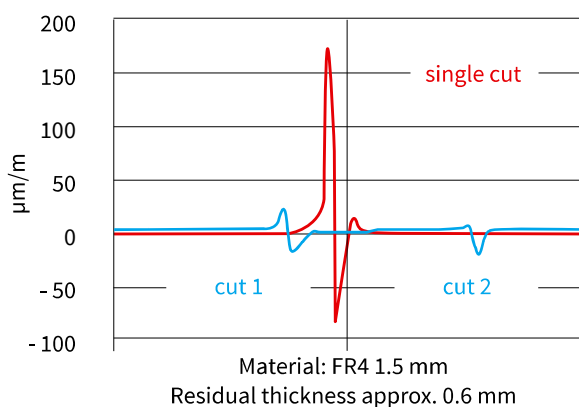


MAESTRO 4S separates both small and large PCBs quickly and economically without stress.

### Key features:

- Blade distance to be entered on the operation panel is set motor-driven.
- Up to nine programs to be stored
- Separation length to be continuously adjusted via limit switches
- In terms of a preventive blade maintenance, the cutting performance is displayed.

By traversing the milled groove once, tensile and compressive stresses can cause damage to sensitive components located close to the groove. A second traverse and simultaneous readjustment of the blade distance already reduces stresses considerably. The quality of the assembled PCBs improves significantly.



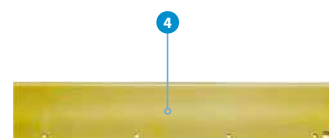
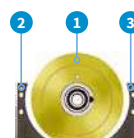
### Dial gauge

In order to separate without stress and to achieve a long service life, the circular and linear blades have to be guided along the entire separation. The dial gauge setting and regularly checking the parallelism is assembled to the carriage.



Technical data	4S/450	4S/600
Separation method	Component side Circular blade	Solder side Linear blade
Operation	path-optimized, motor-driven	
Separation speed	300, 500 mm/s, to be switched	
Materials	FR4, aluminum	
Component height	Component/solder side up to 34 mm	
Separation length	up to 450 mm	up to 600 mm
Support table depth	200 mm	
Programming		
Start	Traverse to initial position	
Programs	9	
Separation steps	1 - 5	
Blade distance	0.9 - 0.05 mm	
Key button	Unlock program selection	
Performance display	up to 99 km	
DEL	Step reset	
Power switch	ON/OFF	
Foot switch	START separation	
Safety switch	E-stop	
Power supply	100 - 240 VAC, 50/60 Hz	
Emmission sound pressure level	LpA < 70 dB (A)	
Temperature / Operation	+ 10 - 35°C / 10 - 85 %	
humidity Stock	0 - 60°C / 20 - 80 %	
not condensing Transport	- 25 - 60°C / 20 - 80 %	
Width x Height x Depth	702 x 434 x 425 mm	852 x 434 x 425 mm
Weight	38 kg	46 kg
Approvals	CE, FCC Class A	

Part no.	Product	
<b>8936800</b>	PCB separator MAESTRO 4S/450	
<b>8936800.520</b>	PCB separator MAESTRO 4S/450/alu	
<b>8936745</b>	PCB separator MAESTRO 4S/600	
<b>8936745.520</b>	PCB separator MAESTRO 4S/600/alu	
Scope of delivery	PCB separator Power cable Type E+F, length 1.8 m Foot switch Allen key 2 mm Support table including assembly kit Dial gauge Operator's manual DE/EN	
Pos.	Part no.	Wear parts
1	<b>8930509.001</b>	Circular blade
2	<b>8936615.001</b>	Blade protection
3	<b>8936614.001</b>	Blade protection
4	<b>8933394.001</b>	Linear blade 450
	<b>8933682.001</b>	Linear blade 600



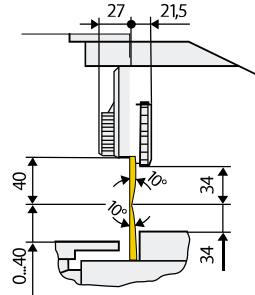
# PCB separator MAESTRO 4S

## Separating aluminum

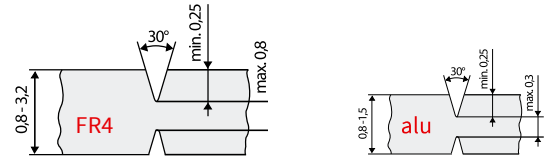
To separate aluminum with MAESTRO 4S, special adjustment is needed for the standard circular blade. For information see the operator's manual

Aluminum PCBs are manufactured in various alloys. Sample PCBs added to a request help with adjusting the circular blade and optimizing the cutting geometry.

Component height

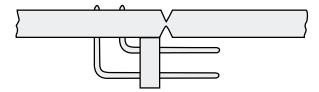


Outside dimensions increased after separation: typically 0.2 mm



The milled groove may be interrupted by cutouts.

Protruding components need a recessed linear blade. Contact us, if required



## Accessory



### Conveyor belt

to deposit separated PCBs individually and further transport them aside. The speed adapts to the size of the PCB. Incoming PCBs are detected by a light barrier and the belt stops.

Technical data	450	600
Conveyor belt material	antistatic	
Direction of movement	to the right	
Belt speed	5, 6, 7, 8, 9 m/min	
Light barrier	to be activated to stop the belt moving	
Vertical distance to the linear blade	5 - 17 mm	
PCB depth	up to 200 mm	
Belt width	170 mm	
Length	1,200 mm	1,350 mm
Power supply	100 - 240 VAC, 50/60 Hz	
Temperature / Operation	+ 10 - 35°C / 10 - 85 %	
humidity Stock	0 - 60°C / 20 - 80 %	
not condensing Transport	- 25 - 60°C / 20 - 80 %	
Weight	14 kg	
Approvals	CE, FCC Class A	

Part no.	Product
8931240	Conveyor belt 450
Lieferumfang	Power cable Type E+F, length 1.8 m Assembly kit Operator's manual DE/EN