PCB Separator MAESTRO 4S



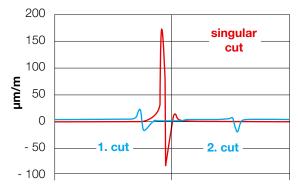
Stress-free separation of pre-scored PCBs

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

Cutting with only a single traverse of the pre-scored groove causes tensile and compressive stresses that can damage sensitive components near the groove. Even a second traverse of the groove accompanied by an adjustment of the blade distance substantially reduces the tensile and compressive stresses. This significantly improves the quality of the populated PCBs.

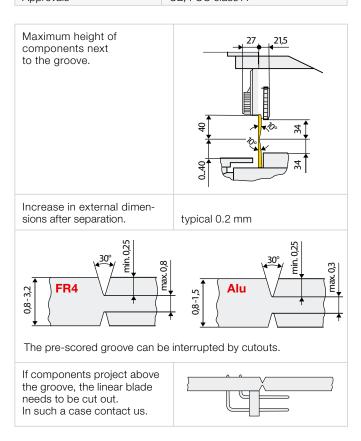
The most important features

- The blade distance is entered on the operating panel and its adjustment is motor-powered.
- Up to eight programs can be stored.
- The materials used for PCBs are FR4 and aluminum
- The continuously adjustable separation length is set with limit switches.
- The accumulated cutting performance is displayed for the purpose of scheduling preventive maintenance of the blade.



Material: FR4 1,5 mm, rest thickness ca. 0,6 mm

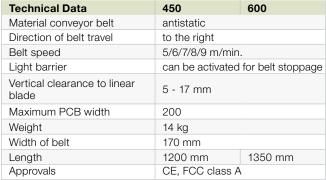
Technical Data		4S/450	4S/600	
Separation type		Component side Solder side	circular blade linear blade	
Operation		optimized motor driven		
Separation speed		300/500 mm/s switchable		
Material		FR4, Aluminum		
Height of components		Solder and component sides up to 34 mm		
Continuously adjustable separation length		up to 450 mm	up to 600 mm	
Width of supporting table		200 mm		
Programming				
Start		Traverse to starting position		
Program	Program		9	
Separation steps	Separation steps		1-5	
Blade distance		0.9 mm up to 0.05 mm		
Key switch button		Release program selection		
Cutting performa	Cutting performance display		up to 99 km	
DEL		Reset step count		
Power switch		ON / OFF		
Foot switch		START Operation		
Safety switch		Emergency stop		
Voltage		100-240 VAC 50/60 Hz		
Emission sound pressure level		LpA < 70 dB (A)		
Temperature/	Operation	+10 - 35°C / 10 - 85%		
Humidity	Storage	-20-+50°C / 10 -	85%	
not condensing	Transport	-20-+50°C / 10 -	85%	
Weight		38 kg	46 kg	
Height x Depth		434 x 425 mm		
Width		702 mm	852 mm	
Approvals		CE, FCC class A		



Conveyor belt

Conveyor Belt

The separated PCBs are placed individually on the conveyor belt, and transported out to the side of the machine. The speed is adjusted according to the size of the PCB. A light barrier at the end of the conveyor belt detects the arrival of PCBs and stops the belt.





The correspondingly designated circular blade must be used for each different type of material that is to be cut.

Various aluminum alloys are used in the manufacture of PCBs. We recommend submitting sample PCBs with the order in order to optimize the cutting geometry and for the correct adjustment of the circular blades.

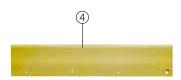
The circular and linear blades must be precisely guided across the entire separation length in order to achieve stress-free separation and a long service life. The measuring system is mounted on a carriage for setting and regularly checking the parallelism.



David Na

Part No.	Description
8936800 8936745	PCB Separator MAESTRO 4S/450 PCB Separator MAESTRO 4S/600
	The desired circular blade has to be ordered separately. It is mounted and adjusted in the device in the factory.
8930509.001 8936895.001	Circular blade FR4 Circular blade Alu
8970208. 001	Dial gauge
8931240 8932150	Conveyor belt 450 Conveyor belt 600
Content of delivery PCB Separator	Power cable Type E+F, length 1,8 m Foot switch Hexagon key 2 mm Supporting table incl. mounting set Operation manual de/en
Content of delivery Conveyor belt	Power cable Type E+F, length 1,8 m Montage set Operation manual de/en





Pos.	Part No.	Spare parts
1	8930509 .001	Circular blade FR4
1	8936895. 001	Circular blade Alu
2	8936615. 001	Guide 2
3	8936614. 001	Guide 1
4	8933394. 001	Linear blade 450
4	8933682. 001	Linear blade 600



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