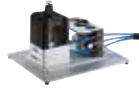


## Products for the Electronics

Made in Germany

## Contents



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*All information on scopes of delivery, design and technical specifications correspond to the date of the printing. Subject to change. The data provided in the catalog do not represent any warranty or guarantee.*

For current data see website  
[www.cab.de/en/electronics](http://www.cab.de/en/electronics)

## Off-cut Remover HEKTOR 2



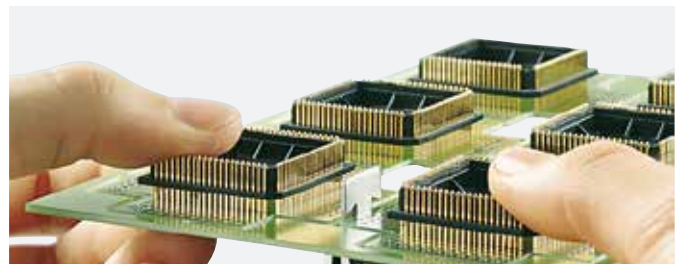
Hektor separates milled PCBs carefully and fast. The off-cut material is removed smoothly and precisely. The matrix consists of two parts. This ensures easy and cost-saving change of the blades. Compressed air is used for the separation process. The operating pressure can be set on the machine. When the foot switch is pressed, the off-cut is punched out. The off-cuts are collected in the collecting box. When the gate is opened the waste material can be extracted.

## Safe Operation

The PCB is slipped with its milled groove over the blade and is placed onto the matrix. The off-cut is pulled under the blade. When the foot switch is pressed, the off-cut is punched out and the waste material is collected inside the machine.

Technical Data		
Separation type		Punch blade
Operation		by hand
PCB thickness		max. 2.5 mm
Air connection		1/4"-plug-in coupler
Operating pressure		typical 4 bar
Temperature/	Operation	+ 5 - 40°C / 10 - 85%
Humidity	Storage	+ 0 - 60°C / 20 - 80%
not condensing	Transport	- 25 - 60°C / 20 - 80%
Weight		2.7 kg
Dimensions H x D x W		170 x 255 x 220 mm
Approvals		CE, FCC class A

Part No.	Description
<b>8932145</b>	Off-cut Remover Hektor 2 (bur for blade)
<b>8932xxx</b>	Blade <b>separate to order</b>
Content of delivery	Off-cut Remover with air pressure regulator Foot switch Hexagon key 2 mm Hexagon key 4 mm Operation manual d/e



**Blades**

To ensure the blade will not be jammed in the PCB, the milled groove should be at least 0.15 mm wider as the blade.

Width of milled groove

Recommended blade thickness

Length of blade

Length of cut

Free of compon. on solder side

Length of milled groove

Width of off-cut

**Part No.**

**A**

**B**

**C**

**D**

**E**

**F**

**G**

**8932137.001**

Balde 1.5 T

≥1.5

1.35

17.2

4.7

>19.0

>19.0

3.0

**8932138.001**

Balde 2.0 T

≥2.0

1.85

17.2

5.2

>19.0

>19.0

3.0

**8932191.001**

Balde 2.4 T

≥2.4

2.25

18.0

5.7

>19.0

>19.0

3.0

**8932139.001**

Balde 2.5 T

≥2.5

2.35

18.0

5.7

>19.0

>19.0

3.0

**8932144.001**

Balde 3.0 T

≥3.0

2.85

18.0

5.7

>19.0

>19.0

2.5

**8932122.001**

Balde 1.5 L

≥1.5

1.35

12.0

4.7

>15.0

>13.0

3.0

**8932123.001**

Balde 2.0 L

≥2.0

1.85

12.0

5.2

>15.0

>13.0

3.0

**8932141.001**

Balde 2.4 L

≥2.4

2.25

12.0

5.7

>15.0

>13.0

3.0

**8932124.001**

Balde 2.5 L

≥2.5

2.35

12.0

5.7

>15.0

>13.0

3.0

**8932125.001**

Balde 3.0 L

≥3.0

2.85

12.0

5.7

>15.0

>13.0

2.5

**8932171.001**

Matrix (as spare part)

**T-Blade**

With the T-blade off-cuts can be punched out right and left of the blade without turning the PCB.

**L-Blade**

The L-blade will be used if there are small distances between the off-cuts

**Matrix**

Included in delivery.

Blades with varying thickness on request.

# PCB Separator MAESTRO 2/2M



Technical Data		
Separation type	Component side	circular blade
	Solder side	circular blade
Operation	MAESTRO 2	by hand
	MAESTRO 2M	motor-driven
Separation speed 2M	100/200/300 mm/s	
Separation length	15 - 300 mm	
Mains voltage 2M	240 VAC, 50 Hz 110 VAC, 60 Hz	
Temperature/	Operation	+ 5 - 40°C / 10 - 85%
Humidity	Storage	+ 0 - 60°C / 20 - 80%
not condensing	Transport	- 25 - 60°C / 20 - 80%
Weight	MAESTRO 2	16 kg
	MAESTRO 2M	19 kg
Dimensions H x D x W	330 x 620 x 195 mm	
Approvals	CE, FCC class A	

MAESTRO 2 separates small amount and prototype series of PCBs fast and economically. The compact and stable aluminum frame requires only a minimum of space.

### MAESTRO 2

is the reasonable model to start with, suitable for smaller numbers of PCBs.  
The PCB is fed manually between the circular blades and is thereby separated.

### MAESTRO 2M motorized

Separates large numbers of PCBs without fatigue of the operator. The lower circular blade is driven by a motor.  
The PCB is fed between the circular blades where it is seized, transported and separated. Three different speeds can be selected.



### Save Operation

The clearance between the upper guide **1** and the lower guide **2** is adjustable to ensure that the PCB is only fed through the machine in the pre-scored groove.



Maximum height of components next to the groove.	
Increase in external dimensions after separation.	typical 0.2 mm
The pre-scored grooves can be interrupted by cutouts with a length of up to approx. 5 mm.	

Part No.		Description
<b>8933900</b> <b>8933935</b>		PCB Separator MAESTRO 2 PCB Separator MAESTRO 2M
Content of delivery		PCB Separator Power cable Type E+F, 1,8 m (but 2M) Hexagon key 2 mm Operation manual d/e
Pos.	Part No.	Spare parts
1	<b>8930509.001</b>	Circular blade FR4
2	<b>8930522.001</b>	Guide
3	<b>8930744.001</b>	Upper guide
4	<b>8933661.001</b>	Lower circular blade
5	<b>8930514.001</b>	Guide
6	<b>8930745.001</b>	Lower guide



# PCB Separator MAESTRO 3E

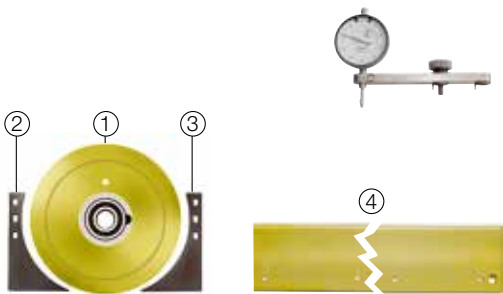


MAESTRO 3E separates both small and large pre-scord PCBs. The table and the rest can be continuously adjusted to the most suitable working position. The slit between the linear blade and the rest can be adjusted to ensure that the side strips fall through and are sorted out.



### Safe Operation

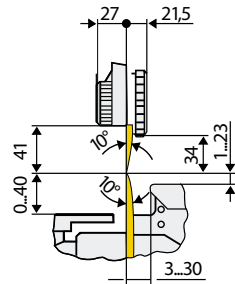
The PCB is placed with its pre-scored groove onto the linear blade and the circular blade is then drawn by hand across the PCB. The clearance between the upper guide and the linear blade is adjustable to ensure that the PCB is only separated in the pre-scored groove.



### Technical Data

Separation type	Component side	circular blade
	Solder side	linear blade
Operation	by hand	
Separation length	max. 450 mm	
Material	FR4	
Temperature/	Operation	+ 5 - 40°C / 10 - 85%
Humidity	Storage	+ 0 - 60°C / 20 - 80%
not condensing	Transport	- 25 - 60°C / 20 - 80%
Weight	22 kg	
Dimensions H x D x W	455 x 700 x 350 mm	
Approvals	CE, FCC class A	

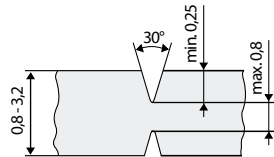
Maximum height of components next to the groove.



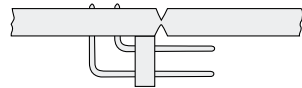
Increase in external dimensions after separation.

typical 0.2 mm

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



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



Part No.		Description
8933945		PCB Separator MAESTRO 3E/450
Content of delivery	PCB Separator Hexagon key 2 mm Operation manual d/e	
Part No.		Accessories
8970208.001		Dial gauge for MAESTRO 3E/4S
Pos.	Part No.	Spare parts
1	8930509.001	Circular blade FR4
2	8936615.001	Guide
3	8936614.001	Guide
4	8933394.001	Linear blade 450

# PCB Separator MAESTRO 4S

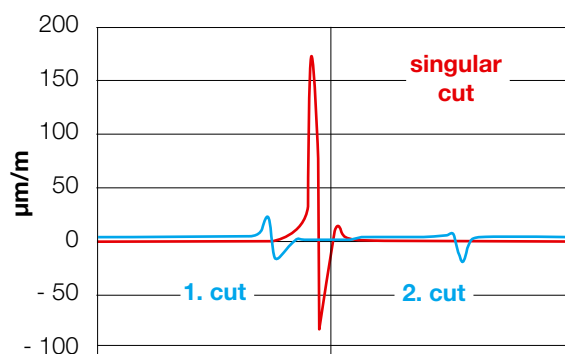


## Stress-free separation of pre-scored PCBs

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

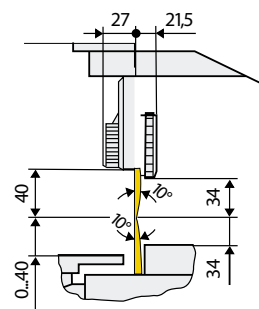
- The blade distance is entered on the operating panel and its adjustment is motor-powered.
- Up to nine programs can be stored.
- The materials used for PCBs are FR4 and aluminum
- The continuously adjustable separation length is set with limit switches.
- The accumulated cutting performance is displayed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



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

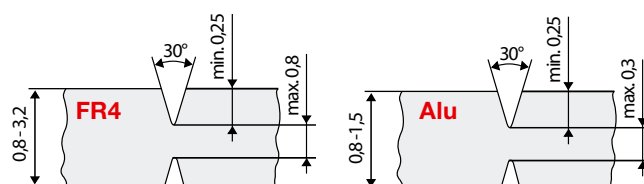
Technical Data		4S/450	4S/600
Separation type		Component side Solder side	circular blade linear blade
Operation		optimized motor driven	
Separation speed		300/500 mm/s switchable	
Material		FR4, Aluminum	
Height of components		Solder and component sides up to 34 mm	
Continuously adjustable separation length		up to 450 mm	up to 600 mm
Width of supporting table		200 mm	
Programming			
Start		Traverse to starting position	
Program		9	
Separation steps		1 – 5	
Blade distance		0.9 mm up to 0.05 mm	
Key switch button		Release program selection	
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	+ 5 - 40°C / 10 - 85%	
Humidity	Storage	+ 0 - 60°C / 20 - 80%	
not condensing	Transport	– 25 - 60°C / 20 - 80%	
Weight		38 kg	46 kg
Height x Depth		434 x 425 mm	
Width		702 mm	852 mm
Approvals		CE, FCC class A	

Maximum height of components next to the groove.



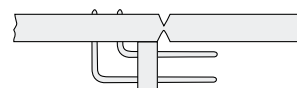
Increase in external dimensions after separation.

typical 0.2 mm



The pre-scored groove can be interrupted by cutouts.

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



# 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.



Technical Data	450	600
Material 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	
Vertical clearance to linear blade	5 - 17 mm	
Maximum PCB width	200 mm	
Weight	14 kg	
Width of belt	170 mm	
Length	1200 mm	1350 mm
Approvals	CE, FCC class A	

For separating aluminum with the MAESTRO 4S the standard circular blade with special blade settings can be used. More information in the operation manual and at [www.cab.de/en](http://www.cab.de/en)

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.



Part No.	Description
<b>8936800</b> <b>8936745</b>	PCB Separator MAESTRO 4S/450 PCB Separator MAESTRO 4S/600
<b>8936800.520</b> <b>8936745.520</b>	PCB Separator MAESTRO 4S/450/alu PCB Separator MAESTRO 4S/600/alu
<b>8930509.001</b>	Circular blade
<b>8970208.001</b>	Dial gauge pre-installed
<b>8931240</b> <b>8932150</b>	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 Dial gauge Operation manual de/en
Content of delivery Conveyor belt	Power cable Type E+F, length 1,8 m Assembling set Operation manual de/en



Pos.	Part No.	Spare parts
1	<b>8930509.001</b>	Circular blade
2	<b>8936615.001</b>	Guide
3	<b>8936614.001</b>	Guide
4	<b>8933394.001</b>	Linear blade 450
4	<b>8933682.001</b>	Linear blade 600

## PCB Separator MAESTRO 5L



### **PCB Separator MAESTRO 5L**

The MAESTRO 5L can be used cost-effectively if large numbers of pre-scored PCBs have to be separated.

It can simultaneously separate up to ten PCBs positioned side by side. The maximum passage width is 310 mm. The distances and number of circular blades are adjusted to match the PCB.

The blade shafts are stable and precisely machined to ensure clean separation of the PCBs. The circular blades are hardened, ground and titanium coated for a long service life.

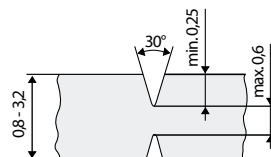
The PCBs are inserted into the guide by hand, or automatically by a loading station or an external conveyer belt. After separation, the PCBs are placed on the installed conveyer belt. The machine can be installed in an assembly line in conjunction with a SMEMA interface.

The height of the base frame of the MAESTRO 5L can be adjusted optimally for each application. A connection is provided for an extraction and filtering system.



# PCB Separator MAESTRO 5L

Technical Data		
Separation type	Component side	circular blade
	Solder side	circular blade
Operation	with motorized	
Separation speed	100 - 220 mm/s in 10 steps	
Length of PCB panel with light barrier activated	100 - 570 mm	
with light barrier de-activated	> 2000 mm	
Width of PCB panels	max. 310 mm	
Width of-cut	min. 3 mm	
Height of components	Component side	max. 30 mm
	Solder side	max. 10 mm
Number of circular blades	max. 11 on each blade shaft	
Width of PCBs	up to 300 mm	
Display	<ul style="list-style-type: none"> <li>- Separation speed</li> <li>- Separated length or numbers of PCB panels</li> </ul>	
Keys	<ul style="list-style-type: none"> <li>- Start, stop, reverse</li> <li>- Setting of separated speed</li> </ul>	
Monitoring	<ul style="list-style-type: none"> <li>- Detection of separation length</li> <li>- Accumulation in front of and behind the blades</li> <li>- Stop the end of the conveyor belt</li> </ul>	

Interfaces		<ul style="list-style-type: none"> <li>- Remote start/stop</li> <li>- SMEMA (round 14 pins)</li> </ul>
Voltage		240 VAC, 50 Hz 110 VAC, 60 Hz
Temperature/	Operation	+ 5 - 40°C / 10 - 85%
Humidity	Storage	+ 0 - 60°C / 20 - 80%
not condensing	Transport	- 25 - 60°C / 20 - 80%
Weight		63 kg
Dimensions	height	750 - 1000 mm
	width	440 mm
	depth	1100 mm
Approvals		CE,FCC class A
Increase in external dimensions after separation.		typical 0.2 mm
<p>The pre-scored groove can be interrupted by cutouts.</p>		



Part No.	Description
<b>8934520</b>	PCB Separator MAESTRO 5L without circular blade and protective cover  The desired circular blade has to be ordered separately. It is mounted and adjusted in the device in the factory.
<b>893xxxx</b>	Blade shaft fitted
<b>893xxxx</b>	Specific cover parts
Content of delivery	PCB Separator, with base Power cable, type E+F, length 1,8 m Service tool Indicator light Blade shaft auxiliary device Stacker, complete End portion of aspiration Operation manual de/en
Part No.	Spare parts
<b>8934803.001</b>	Circular blade width 8 mm

## PCB Magazines Series 100 / 180 / 300



### There is a system behind it

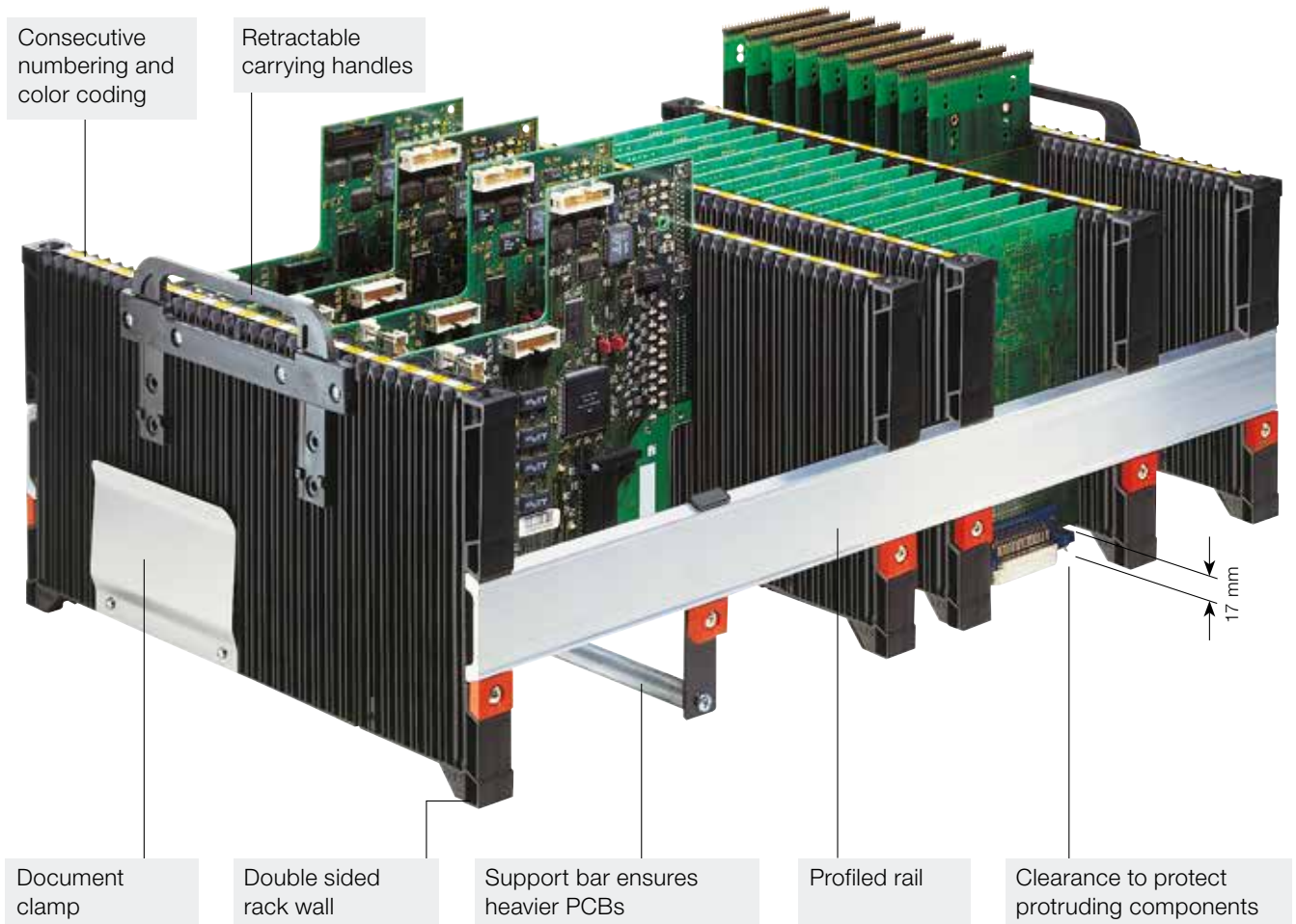
The cab PCB magazines can be filled when standing vertical or laying horizontal. The system is totally adjustable for width and can be assembled according to your individual requirements. For different size PCBs we offer PCB magazines with a height of 100, 180 and 300 mm.

All magazines have 32 slots, each with a 10 mm clearance between them, thereby providing maximum use of available space.

#### Secure

The precision molded slots are funnel shaped at each end to simplify the insertion of each circuit board.

The location of each mounting slot is shown by yellow and white positioning strips. These enable boards to be loaded while avoiding the risk of being loaded by hand in the wrong position.



## PCB Magazines Series 100 / 180 / 300



### Fast and easy assembly

The magazine walls can be secured to the profiled rails in any position required. Two identically sized circuit boards are inserted between the walls, into the adjustment slots at the extreme ends of each wall. The second wall is then pressed firmly onto the boards and screwed tight.



### Rigid and stable

The magazine walls are constructed in sandwich form, and are therefore particularly rigid. For heavy mechanical and thermal force the magazine walls can additionally be reinforced by the use of a steel rod.



### Slot lock

To prevent damage to the PCB board during insertion, we offer slot locks which cover slots not in use.



### Stackable

At the corners of each magazine are male and female connectors which allow the racks to be stacked upon another. The lower edge of each magazine-side has a molded recess which allows the magazine to be gripped and lifted without problem.



### Vertical mounting

Before soldering, the circuit board must be stored horizontally. The magazine can therefore stand vertically.



### Transport containers

For transport purposes, the PCB magazines can be loaded into containers. These containers have norm sizes of 600 x 400 mm and 400 x 300 mm. Retractable handles enable the magazines to be removed with ease.

# PCB Magazines Series 100 / 180 / 300

## with 32 slots

### Flexing of the magazine walls under loading

When the PCB Magazine is correctly assembled, each side wall may flex less than 1,0 mm to ensure a secure mounting of the PCB. The flexing was calculated using 16 circuit boards, with a clearance of 20 mm between each other and a weight per board of 500 g.

Critical loading can occur as follows:

1. When the magazine is laid on its side on a flat surface and then lifted.
2. When being transported in the vertical position and the position is changed to the horizontal.

Technical Data	100	180	300
Material	Polypropylene		
Color	black		
Surface resistance	as per DIN EN 61340-5-1 < 10 <sup>9</sup>		
Dimensions			
Slot width mm	2.8	4.0	3.5
Slot depth mm	2.0	2.5	2.5
Amount	32	32	32
Distance of PCBs mm	10	10	10
Flexing with a total load of 8 kg			
Temperature 23°C not reinforced	1.0	0.8	0.4
Temperature 23°C with reinforced	0.5	0.4	-
Temperature 70°C not reinforced	-	-	0.8
Temperature 70°C with reinforced	0.9	0.7	-

The length of profiled rail (Dimension X) is calculated based upon the dimensions as shown below.

**Diagram 1:**  $x = 36 + D1$

**Diagram 2:**  $x = 52 + D1 + D2$

**Diagram 3:**  $x = 69 + D1 + D2 + D3$

**Diagram 4:**  $x \geq 73 + D1 + D2$

**Diagram 5:**  $x \geq 110 + D1 + D2 + D3$

Dimension D = PCB Width  
Dimension X = Length of Profiled Rail

## Delivery program



Part No.	Description
8910063	PCB Magazine Testset 100
e.g. for 100 mm wide PCBs	
Contents:	4 Side Walls 100 2 Profiled Rails 369 mm long 1 Document Clamp
Weight:	1.4 kg

Part No.	Description
8910064	PCB Magazine Testset 180
e.g. for 100 mm wide PCBs.	
Contents:	4 Side Walls 180 2 Profiled Rails 369 mm long 1 Document Clamp 1 Set Carrying Handles
Weight:	2.5 kg

Part No.	Description
8910065	PCB Magazine Testset 300
e.g. for 233.4 mm wide PCBs.	
Contents:	2 Side Walls 300 4 Profiled Rails 269 mm long 1 Document Clamp 1 Set Carrying Handles
Weight:	2.0 kg



## PCB Magazines Series 100 / 180 / 300

### Delivery program

	<table><tr><th>Part No.</th><th>Description</th><th>Weight</th></tr><tr><td><b>8910050</b></td><td>Rack Wall 100</td><td>0.28 kg</td></tr><tr><td><b>8910102</b></td><td>Rack Wall 100 reinforced</td><td>0.40 kg</td></tr><tr><td><b>8913913</b></td><td>Stegwand 100 with drilling for Slot Lock</td><td>0.28 kg</td></tr></table>	Part No.	Description	Weight	<b>8910050</b>	Rack Wall 100	0.28 kg	<b>8910102</b>	Rack Wall 100 reinforced	0.40 kg	<b>8913913</b>	Stegwand 100 with drilling for Slot Lock	0.28 kg												
Part No.	Description	Weight																							
<b>8910050</b>	Rack Wall 100	0.28 kg																							
<b>8910102</b>	Rack Wall 100 reinforced	0.40 kg																							
<b>8913913</b>	Stegwand 100 with drilling for Slot Lock	0.28 kg																							
	<table><tr><td><b>8910060</b></td><td>Rack Wall 180*</td><td>0.53 kg</td></tr><tr><td><b>8910104</b></td><td>Rack Wall 180* reinforced</td><td>0.65 kg</td></tr></table> <p>*incl. Drilling for Slot Lock</p>	<b>8910060</b>	Rack Wall 180*	0.53 kg	<b>8910104</b>	Rack Wall 180* reinforced	0.65 kg																		
<b>8910060</b>	Rack Wall 180*	0.53 kg																							
<b>8910104</b>	Rack Wall 180* reinforced	0.65 kg																							
	<table><tr><td><b>8912049</b></td><td>Rack Wall 300</td><td>0.7 kg</td></tr><tr><td><b>8913914</b></td><td>Rack Wall 300 with drilling for Slot Lock</td><td>0.7 kg</td></tr></table>	<b>8912049</b>	Rack Wall 300	0.7 kg	<b>8913914</b>	Rack Wall 300 with drilling for Slot Lock	0.7 kg																		
<b>8912049</b>	Rack Wall 300	0.7 kg																							
<b>8913914</b>	Rack Wall 300 with drilling for Slot Lock	0.7 kg																							
 <p>The profiled rails are supplied according to your requirements, xxxx is the length in mm.</p>	<table><tr><th colspan="2">Length in mm</th><th></th></tr><tr><td><b>8910136</b></td><td>Profiled Rail 0136</td><td>0.06 kg</td></tr><tr><td><b>8910252</b></td><td>Profiled Rail 0252</td><td>0.11 kg</td></tr><tr><td><b>8910547</b></td><td>Profiled Rail 0547</td><td>0.24 kg</td></tr><tr><td><b>8911000</b></td><td>Profiled Rail 1000</td><td>0.45 kg</td></tr><tr><td><b>8912000</b></td><td>Profiled Rail 2000</td><td>0.90 kg</td></tr><tr><td><b>8913000</b></td><td>Profiled Rail 3000</td><td>1.35 kg</td></tr><tr><td><b>891xxxx</b></td><td>Profiled Rail xxxx</td><td></td></tr></table>	Length in mm			<b>8910136</b>	Profiled Rail 0136	0.06 kg	<b>8910252</b>	Profiled Rail 0252	0.11 kg	<b>8910547</b>	Profiled Rail 0547	0.24 kg	<b>8911000</b>	Profiled Rail 1000	0.45 kg	<b>8912000</b>	Profiled Rail 2000	0.90 kg	<b>8913000</b>	Profiled Rail 3000	1.35 kg	<b>891xxxx</b>	Profiled Rail xxxx	
Length in mm																									
<b>8910136</b>	Profiled Rail 0136	0.06 kg																							
<b>8910252</b>	Profiled Rail 0252	0.11 kg																							
<b>8910547</b>	Profiled Rail 0547	0.24 kg																							
<b>8911000</b>	Profiled Rail 1000	0.45 kg																							
<b>8912000</b>	Profiled Rail 2000	0.90 kg																							
<b>8913000</b>	Profiled Rail 3000	1.35 kg																							
<b>891xxxx</b>	Profiled Rail xxxx																								
	<table><tr><td><b>8910009</b></td><td>Document Clamp</td><td></td></tr></table>	<b>8910009</b>	Document Clamp																						
<b>8910009</b>	Document Clamp																								
	<table><tr><td><b>8912004</b></td><td>Support Bar 100</td><td></td></tr><tr><td><b>8912005</b></td><td>Support Bar 180</td><td></td></tr><tr><td><b>8912006</b></td><td>Support Bar 300</td><td></td></tr></table>	<b>8912004</b>	Support Bar 100		<b>8912005</b>	Support Bar 180		<b>8912006</b>	Support Bar 300																
<b>8912004</b>	Support Bar 100																								
<b>8912005</b>	Support Bar 180																								
<b>8912006</b>	Support Bar 300																								
 <p>Packaging unit: 1 Set</p>	<table><tr><td><b>8912007</b></td><td>Carrying Handle 100</td><td></td></tr><tr><td><b>8910097</b></td><td>Carrying Handle 180/300</td><td></td></tr></table>	<b>8912007</b>	Carrying Handle 100		<b>8910097</b>	Carrying Handle 180/300																			
<b>8912007</b>	Carrying Handle 100																								
<b>8910097</b>	Carrying Handle 180/300																								
 <p>Slot Lock 1      Slot Lock 2</p> <p>pictures increased</p> <p>Packaging unit: respectively 100 Sets</p>	<table><tr><td><b>8913916</b></td><td>Slot Lock 1</td><td></td></tr><tr><td><b>8913917</b></td><td>Slot Lock 2</td><td></td></tr></table>	<b>8913916</b>	Slot Lock 1		<b>8913917</b>	Slot Lock 2																			
<b>8913916</b>	Slot Lock 1																								
<b>8913917</b>	Slot Lock 2																								



## PCB Magazines Series 600 / 700

### for automated assembly lines



1 Locking knob for stacking purposes

2 Transport safety

3 Consecutive numbering on the rack walls for easy feeding

4 The precision spindles ensure the parallelism of the rack walls during adjustment

5 The gear belt allows for quick adjustments in seconds

#### Automation Requires Precision

Precision, stability and flexible handling are important features for the use of the PCB Magazines in automated assembly lines.

The stable and robust frame construction guarantees a long lasting use of the cab magazine in your production.  
The rack walls are manufactured from conductive material.

#### Metal magazine

For high mechanical or temperature use we offer the magazine with metal rack walls.



## PCB Magazines Series 600 / 700



### Series 600 - Width adjustment by screw clamp

The series 600 is cost effective alternative with a simple width adjustment. By backing off the four screw clamps the moveable rack wall can be pushed to the necessary PCB width.

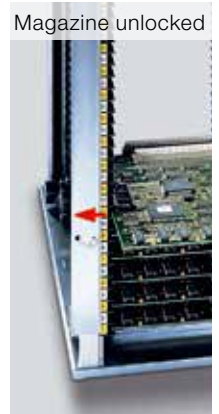


### Series 700 - Width adjustment by gear belt

Handling different PCB sizes the magazines have to be adjusted to the PCB width quite often. The PCB Magazines of the series 700 are adjusted to the necessary PCB width within seconds.



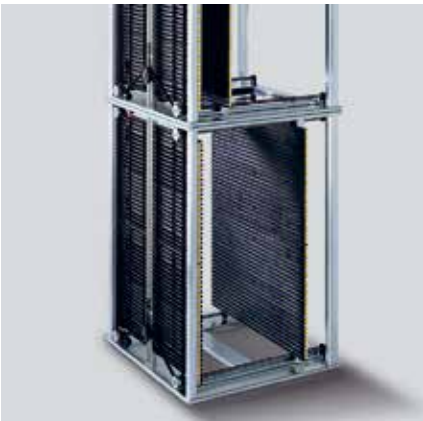
Magazine locked



Magazine unlocked

### Transport safety

To secure the PCBs while transporting the magazine, a safety bar is mounted on the front and back side of the rack wall.



### Stackable

The magazines can be stacked and secured space saving by four support guides on the top of the plate.



### Reversible

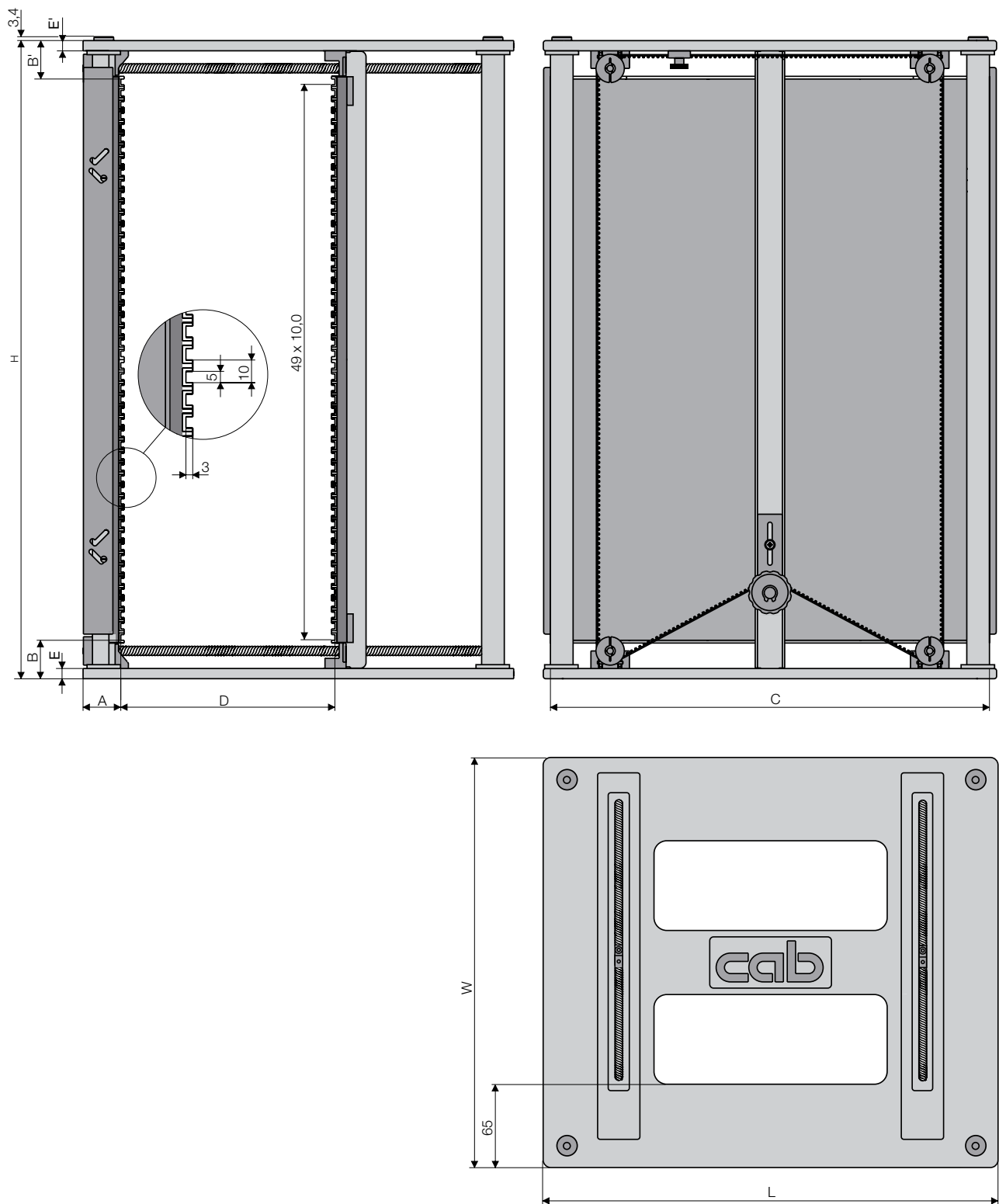
Through to the vertical symmetry all magazines can be placed upside down to work on double sided PCBs. The stacking locator knobs must be replaced.



### Slot lock

To lock the slots of series 600.1/2 and 700.1/2 PCB magazines

Technical data





## PCB Magazines Series 600 / 700

### Delivery program / Dimensions

Type	Part No.	Temperature		Weight kg	External measurements			PCB			Cover/ basem.		A mm	B mm	B' mm	E mm	E' mm	Pitch mm	Insertions	Screws	Gear belt	Stackable	Reverse operation
		C° Insertions	C° Ambient					Width D		Length C	Dye cast aluminium	Steel sheet											
					L mm	W mm	H mm	min. mm	max. mm														
601.1	8917601	60	50	5,6	355	320	563	40	250	342	■	-	34	34	34	9	9	10	50	■	-	■	■
601.2	8916601	130	100	5,9																			
601.3	8915601	200	200	6,9																			
602.1	8917602	60	50	5,8	400	320	563	40	250	387	■	-	34	34	34	9	9	10	50	■	-	■	■
602.2	8916602	130	100	6,1																			
602.3	8915602	200	200	7,2																			
603.1	8917603	60	50	6,2	400	380	563	40	310	387	■	-	34	34	34	9	9	10	50	■	-	■	■
603.2	8916603	130	100	6,5																			
603.3	8915603	200	200	7,6																			
701.1	8917701	60	50	5,6	355	320	563	40	250	342	■	-	34	34	34	9	9	10	50	-	■	■	■
701.2	8916701	130	80	5,9																			
701.3	8915701	200	100	6,9																			
702.1	8917702	60	50	5,8	400	320	563	40	250	387	■	-	34	34	34	9	9	10	50	-	■	■	■
702.2	8916702	130	80	6,1																			
702.3	8915702	200	100	7,2																			
703.1	8917703	60	50	6,2	400	380	563	40	310	387	■	-	34	34	34	9	9	10	50	-	■	■	■
703.2	8916703	130	80	6,5																			
703.3	8915703	200	100	7,6																			
704.1	8917704	60	50	7,8	460	400	563	10	330	447	-	■	34	34	34	9	9	10	50	-	■	■	■
704.2	8916704	130	80	8,0																			
704.3	8915704	200	100	9,5																			
705.2	8916705	130	80	8,7	535	380	570	10	310	522	-	■	34	41	34	16	9	10	50	-	■	■	-
705.3	8915705	200	100	10,1																			
715.2	8916715	130	80	8,7	535	380	563	10	310	522	-	■	34	34	34	9	9	10	50	-	■	■	■
715.3	8915715	200	100	10,1																			
706.2	8916706	130	80	9,5	535	460	570	10	390	522	-	■	34	41	34	16	9	10	50	-	■	■	-
706.3	8915706	200	100	10,9																			
716.2	8916716	130	80	9,5	535	460	563	10	390	522	-	■	34	34	34	9	9	10	50	-	■	■	■
716.3	8915716	200	100	10,9																			
707.2	8916707	130	80	9,7	535	530	570	10	460	522	-	■	34	34	41	9	16	10	50	-	■	■	-
707.3	8915707	200	100	11,1																			
717.2	8916717	130	80	9,7	535	530	563	10	460	522	-	■	34	34	34	9	9	10	50	-	■	■	■
717.3	8915717	200	100	11,1																			
708.2	8916708	130	80	9,6	535	470	570	10	400	522	-	■	34	41	34	16	9	10	50	-	■	■	-
708.3	8915708	200	100	11,0																			
718.2	8916718	130	80	9,6	535	470	563	10	400	522	-	■	34	34	34	9	9	10	50	-	■	■	■
718.3	8915718	200	100	11,0																			
709.2	8916709	130	80	9,6	535	580	570	10	510	522	-	■	34	41	34	16	9	10	50	-	■	■	-
709.3	8915709	200	100	11,2																			
719.2	8916719	130	80	9,6	535	580	563	10	510	522	-	■	34	34	34	9	9	10	50	-	■	■	■
719.3	8915719	200	100	11,2																			

The PCB-magazines xxx.1 and xxx.2 are delivered partially assembled.  
Assembled magazines can be ordered with additional article numbers.  
All metal magazines are delivered assembled:  
60X.3-series reversible version, 70X.3-series stackable version.

	<b>DL31001</b>	<b>Assembled with staple neps</b>
	<b>DL 31002</b>	<b>Assembled for reserve operation</b>

Series		Material side wall	Surface resistance
60x.1	70x.1	Polystyrene	as per DIN EN 61340-5-1 < 10 <sup>9</sup>
60x.2	70x.2	Polycarbonate	
60x.3	70x.3	Metal*	
ESD Protection cover Permatat conductive discharge			

\*Measured from rack wall to frame

## ESD Protection cover

Permatat® ESD protection cover,  
stable and tearproof

Color: pink  
Thickness: 150 µm (PU = 10 pcs.)

For further information  
see page 21.





## Special magazines

cab supplies special magazines on request for specific applications. Please contact us.



### Twin magazine for long PCBs

The PCB magazines are mounted with torsion resistance so that you can, for example, safely store and transport PCBs with a length of up to 787 mm in two PCB magazines of type 702.2-2.

Rack wall material: polycarbonate.

Delivery: fully assembled.

Type	Part No.	Temperature		Weight kg	External measurements			PCB		
		C°Insertions	C°Ambient		L mm	W mm	H mm	Width D		Length C
								min. mm	max. mm	
701.2-2	8916712	130	100	12,3	710	320	563	40	250	697
702.2-2	8916722	130	100	12,7	800	320	563	40	250	787
703.2-2	8916732	130	100	13,5	800	380	563	40	310	787



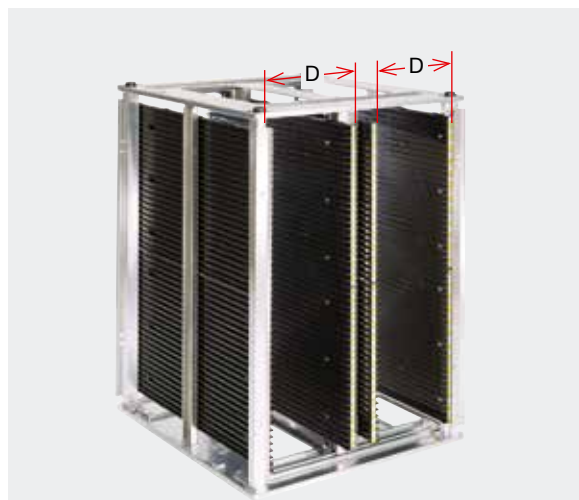
### Triple magazine for long PCBs

The PCB magazines are mounted with torsion resistance so that you can, for example, safely store and transport PCBs with a length of up to 1187 mm in three PCB magazines of type 702.2-3.

Rack wall material: polycarbonate.

Delivery: fully assembled.

Type	Part No.	Temperature		Weight kg	External measurements			PCB		
		C° Insertions	C° Ambient		L mm	W mm	H mm	Width D		Length C
								min. mm	max. mm	
701.2-3	8916713	130	100	18,7	1065	320	563	40	250	1052
702.2-3	8916723	130	100	19,3	1200	320	563	40	250	1187
703.2-3	8916733	130	100	20,5	1200	380	563	40	310	1187



### Double capacity through parallel slide-in units

A series 600 magazine can hold up to 100 PCBs. PCB magazines with 2 side-by-side slide-in units can be used for holding narrow PCBs.

Rack wall material: polystyrene, polycarbonate, metal.

Type	Part No.	Temperature		External measurements			PCB		
		° Insertions	° Ambient	L mm	W mm	H mm	Width D		Length C
							min. mm	max. mm	
601.1-P	8916435	60	50	355	320	563	40	100	342
601.2-P	8915485	130	100	355	320	563	40	100	342
603.2-P	8916425	130	100	400	380	563	40	130	387
603.3-P	8916395	200	200	400	380	563	40	130	387



# Special magazines



## Low height

PCB magazines with a low height, for example, for use in annealing furnaces. Reducing the height also prevents overloading with heavy PCBs, or if goods holders are used.  
Rack wall material: metal.

Type	Part No.	Temperature		Weight kg	External measurements			Insertions	Screws	Gear belt
		°C Insertions	°C Ambient		L mm	W mm	H mm			
601.3	8916130	200	200	5,5	355	320	343	28	■	–
701.3	8916410	200	100	5,9	355	320	263	20	–	■
701.3	8916175	200	100	6,1	355	320	343	28	–	■



## ESD protection cover

Permatat® ESD protection cover, stable and tearproof, protects the PCBs in the magazine from contamination.

Type	Part No.
601/701	8916411
602/702	8916412
603/703	8916413
704	8916414
706/716	8916416
707/717	8916417

Protection cover for further models on request



## Slot lock

Clipping and removal without additional tools;  
When slot locks are in use, maximum PCB width adjustment is reduced by 3 mm.

Pos.	Part No.	Product	Pack size
1.1	8916571	Slot lock 1 (onefold)	100
1.2	8916575	Slot lock 5 (fivefold)	20



to lock every second magazine slot

Notes



A series of horizontal lines for taking notes, spanning the width of the page below the 'Notes' header.

## Product overview

**Label printers MACH1, MACH2**  
in the lower price segment



**Label printers MACH 4S**  
where little space is available



**Label printers EOS1**  
Desktop device for label rolls  
up to diameter 152 mm



**Label printers EOS4**  
Desktop device for label rolls  
up to diameter 203 mm



**Label printers SQUIX 2**  
Industrial device for print widths  
up to 57 mm



**Label printers SQUIX 4**  
Industrial device for print widths  
up to 108 mm



**Label printers SQUIX 6**  
Industrial device for print widths  
up to 168 mm



**Label printers A8+**  
Industrial device for print widths  
up to 216 mm



**Label printers XD4T**  
for double-sided printing



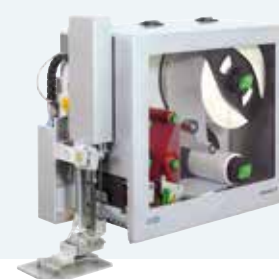
**Label printers XC**  
for two-color printing



**Print and apply systems Hermes+**  
for automation



**Print and apply systems Hermes C**  
for two-color printing and applying



**Print modules PX**  
to be integrated in labeling machines



**Labels**  
made from more than 400 materials



**Ribbons**  
in wax, resin and resin/wax qualities



**Label software cablabel S3**  
Design, print, control



**Label dispensers HS, VS**  
for horizontal or vertical dispense



**Labeling heads IXOR**  
to be integrated in labeling machines



**Marking lasers**  
with output powers 10 to 50 Watt



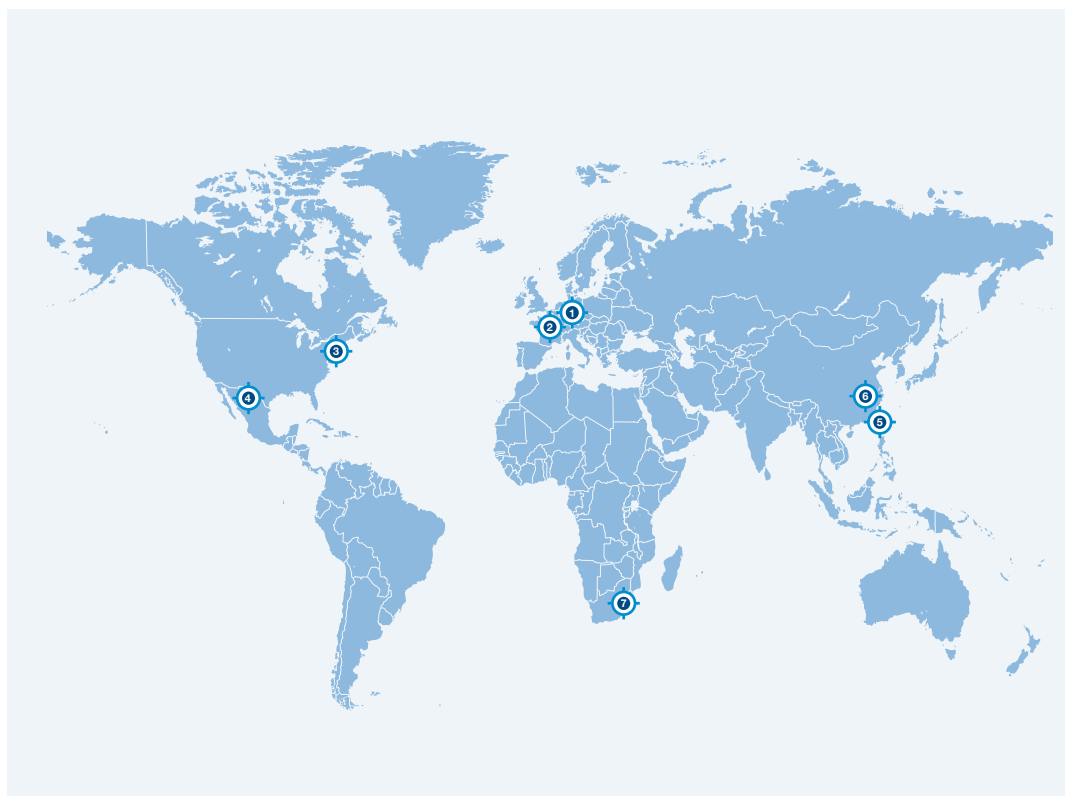
**IC sockets**  
and special sockets



① Headquarter and fabrication  
in Germany

② to ⑩ International  
subsidiaries

There are furthermore 820  
distribution partners in more  
than 80 countries.



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