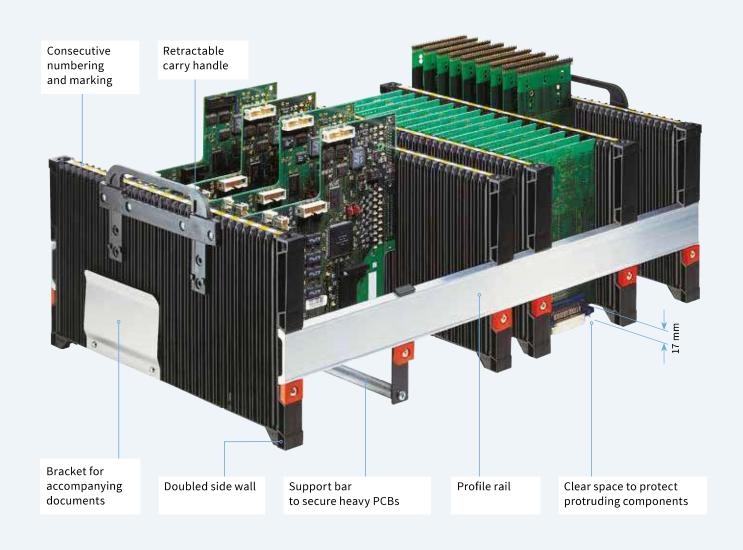


The PCB magazines can be equipped in vertical and horizontal orientation. The systems are absolutely variable in width and can be individually mounted according to the PCB size. 100, 180 and 300 mm (heights) magazines are provided for the different types of PCB.

32 slots every 10 mm offer maximum packing density.

Safe guidance

Funnel-shaped slot entries ensure safe PCB insertion. Yellow marked position stickers indicate the exact position of placement and prevent from PCB insertion diagonally by hand.









Quick and easy assembly

The side walls are adjustable on the profile rails as needed. Two PCBs are inserted into the outer adjusting grooves. The upper side wall has to be pressed against the PCBs and be fixed with screws.

Solid and torsion-resistant

Double-walled construction makes the side walls extremely solid. In addition, a side wall can be stiffened by a metal tube in case of high mechanic and thermal forces.

Slot lock

To prevent from component damage when inserting a PCB in the magazine, slots that are not in use can be covered.







Stackable

Boreholes and pins at the outside margins allow the PCB magazines to be stacked. Molded recesses on the bottom of the side walls simplify the lifting of the magazines.

Upright position

Assembled PCBs must be stored horizontally before soldering. For this purpose, the PCB magazines are set upright.

Transport containers

The PCB magazines can be inserted into standard 600 x 400 resp. 400 x 300 mm containers for transport. Retractable carry handles simplify the insertion and removal.

with 32 PCB slots

Forced deflection of side walls

To ensure safe guidance of a PCB, the deflection of a side wall must not exceed 1.0 mm. This deflection has been calculated with 16 PCBs in distances of 20 mm and a weight of 500 g per PCB.

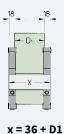
Critical force occurs

- 1. if a PCB side wall lies horizontally on a table and is freely lifted,
- 2. when changing from vertical to horizontal direction in transport.

Technical data		100	180	300
Material		Po	lypropy	lene
Color			black	
Surface resistance	according to DIN EN 61340-5-1 <10°			
Dimensions				
Slot width mm		2.8	4.0	3.5
Slot depth mm		2.0	2.5	2.5
Number of slots	32	32	32	
Distance between Po	CBs mm	10	10	10
Deflection at a total	force of 8 kg			
Temperature 23°C	not reinforced	1.0	0.8	0.4
Temperature 23°C	reinforced	0.5	0.4	-
Temperature 70°C	not reinforced	-	-	0.8
Temperature 70°C	0.9	0.7	-	

The length of the profiles (dimension x) is calculated upon data as shown below.

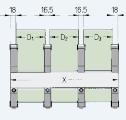
18 16.5



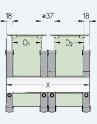




x = 52 + D1 + D2



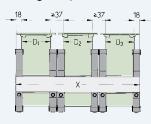
x = 69 + D1 + D2 + D3



 $x \ge 73 + D1 + D2$



x = Length of profile rail



 $x \ge 110 + D1 + D2 + D3$



Part no.	Product								
8910063	PCB magazine								
	test set 100								
e.g. for PCB wi	e.g. for PCB width 100 mm								
Scope of deliv	ery:	4 side walls 100							
		2 profile rails							
		length 369 mm							
		1 bracket							
Weight:		1.4 kg							



Part no.	Product						
8910064	PCB magazine						
	test set 180						
e.g. for PCB width 100 mm							
Scope of delive	ery:	4 side walls 180					
		2 profile rails					
		length 369 mm					
		1 bracket					
		1 set of carry handles					
Weight:	2.5 kg						



Part no.	Product						
8910065	PCB magazine						
	test set 300						
e.g. for PCB width 233.4 mm							
Scope of delive	ery: 2 side walls 300						
	4 profile rails						
	length 269 mm						
	1 bracket						
	1 set of carry handles						
Weight:	2.0 kg						

Delivery program



Automation requires precision when magazines are in use in pick-and-place lines.



Knob

for magazine stacking

Base and cover plates

are made of cast aluminum or sheet steel

3 Numbering

along the PCB slots simplifies manual insertion

Side walls

To operate in surrounding temperatures between 50 and 200°C, they are made of conductive plastic or metal.

5 Transport lock

A bar is mounted as standard on the front and back sides.







Slots are unlocked



Metal magazines

In case of high mechanic force and high thermal force up to 200°C, the magazines are available with metal side walls.



Stacking safely

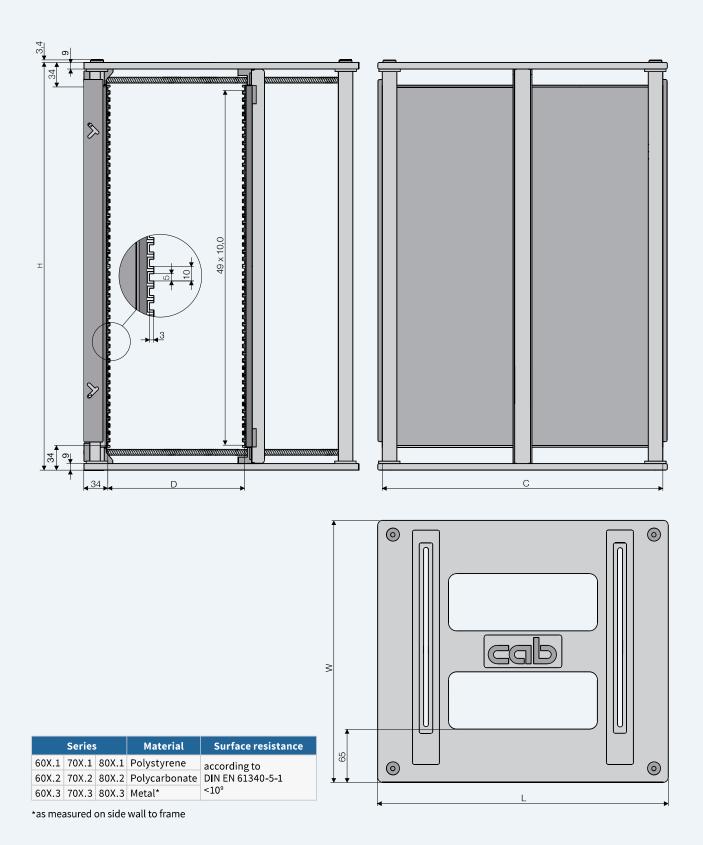
All magazines can be stacked safely and in a space-saving manner with four knobs on the upper plate.



Perfecting operation

Vertical symmetry allows the magazines to be turned upside down in case of operation in perfecting mode.
Possible only without stacking knobs

Dimensional drawing



PCB magazines, series 600

Width adjustment by screw clamping



Screw clamps

The series 600 are cost-effective models. By loosening the four screw clamps, the side wall can be adjusted to the requested PCB width.

2 Transport lock

A bar is mounted as standard on the front and back sides. At lifting, the bar moves outside and locks in the upper position. The PCBs can be inserted or removed. When lifted again, the slots are locked.

			Temperature °C					РСВ			
			tions	Surrounding	Weight	Outsid	le dime	nsions	Wid I		Length C
Туре	Part no.	Material	Insertions	Surro	kg	L mm	W mm	H mm	min. mm	max. mm	max. mm
601.1 601.2 601.3	8917601 8916601 8915601	Polystyrene Polycarbonate Metal	60 130 200	50 100 200	5.6 5.9 6.9	355	320	563	40	250	342
602.1 602.2 602.3	8917602 8916602 8915602	Polystyrene Polycarbonate Metal	60 130 200	50 100 200	5.8 6.1 7.2	400	320	563	40	250	387
603.1 603.2 603.3	8917603 8916603 8915603	Polystyrene Polycarbonate Metal	60 130 200	50 100 200	6.2 6.5 7.6	400	380	563	40	310	387

further sizes on request

PCB magazines 60X.1 and 60X.2 are delivered partially assembled; assembled magazines have to be ordered with an additional part no.

DL31001	+	assembled with stacking knobs
DL 31002	-	assembled for perfecting operation

PCB magazines 60X.3

are delivered assembled with stacking knobs

PCB magazines, series 700

Variable width adjustment by pulling gear belt by hand



1 Safety screw

Clamping the gear belt with a thumb screw prevents from accidental adjustment of the moveable side wall.

Four precision spindles

to adjust the moveable side wall

3 Gear belt

By pulling the gear belt, the side walls are adjusted to the requested PCB width.

Transport lock

A bar is mounted as standard on the front and back sides. At lifting, the bar moves outside and locks in the upper position. The PCBs can be inserted or removed. When lifted again, the slots are locked.

			Temper	ature °C						РСВ	
			Insertions	Surrounding	Weight	Outsic	Outside dimensions		Width D		Length C
Туре	Part no.	Material	Inser	Surre	> kg	L mm	W mm	H mm	min. mm	max. mm	max. mm
701.1 701.2 701.3	8917701 8916701 8915701	Polystyrene Polycarbonate Metal	60 130 200	50 80 100	5.6 5.9 6.9	355	320	563	40	250	342
702.1 702.2 702.3	8917702 8916702 8915702	Polystyrene Polycarbonate Metal	60 130 200	50 80 100	5.8 6.1 7.2	400	320	563	40	250	387
703.1 703.2 703.3	8917703 8916703 8915703	Polystyrene Polycarbonate Metal	60 130 200	50 80 100	6.2 6.5 7.6	400	380	563	40	310	387
704.1 704.2 704.3	8917704 8916704 8915704	Polystyrene Polycarbonate Metal	60 130 200	50 80 100	7.8 8.0 9.5	460	400	563	10	330	447
716.2 716.3	8916716 8915716	Polycarbonate Metal	130 200	80 100	9.5 10.9	535	460	563	10	390	522
717.2 717.3	8916717 8915717	Polycarbonate Metal	130 200	80 100	9.7 11.1	535	530	563	10	460	522

further sizes on request

PCB magazines 70X.1 and 70X.2 are delivered partially assembled; assembled magazines have to be ordered with an additional part no.

DL31001	 assembled with
	stacking knobs
DL 31002	assembled for perfecting operation

PCB magazines 70X.3

are delivered assembled with stacking knobs

PCB magazines, series 800

Variable width adjustment by pulling gear belt motor-driven or by hand



			Temper	ature °C						РСВ	
			Insertions	Surrounding	Weight	Outsid	le dime	nsions		dth O	Length C
Туре	Part no.	Material	Inser	Surro	kg	L mm	W mm	H mm	min. mm	max. mm	max. mm
801.1 801.2 801.3	8919801 8918801 8915801	Polystyrene Polycarbonate Metal	60 130 200	50 100 100	5.6 5.9 6.9	355	320	563	40	250	342
802.1 802.2 802.3	8919802 8918802 8916740	Polystyrene Polycarbonate Metal	60 130 200	50 80 100	5.8 6.1 7.2	400	320	563	40	250	387
803.1 803.2 803.3	8919803 8916745 8915803	Polystyrene Polycarbonate Metal	60 130 200	50 80 100	6.2 6.5 7.6	400	380	563	40	310	387
804.1 804.2 804.3	8919804 8918804 8915804	Polystyrene Polycarbonate Metal	60 130 200	50 80 100	7.8 8.0 9.5	460	400	563	10	330	447
816.2 816.3	8916816 8915816	Polycarbonate Metal	130 200	80 100	9.5 10.9	535	460	563	10	390	522
817.2 817.3	8916817 8915817	Polycarbonate Metal	130 200	80 100	9.7 11.1	535	530	563	10	460	522

• Four precision spindles to adjust the moveable side wall

Gear belt

for manual or automatic width adjustment

3 Clutch disc

for motor-driven width adjustment

Transport lock

A bar is mounted as standard on the front and back sides.

Automatic operation

When the magazine is put onto a loader, this is moved outside by a wedge. The slot locks again when the magazine is removed.

Manual operation

At manual lifting, the bar moves outside and locks in the upper position. When lifted again, the slots are locked.

5 Safety screw

Clamping the gear belt with a thumb screw prevents from accidental adjustment of the moveable side wall.

PCB magazines 80X.1 and 80X.2

are delivered partially assembled; assembled magazines have to be ordered with an additional part no.

DL31001	-	assembled with stacking knobs
		assembled for
DL 31002	7	perfecting operation

PCB magazines 80X.3

are delivered assembled with stacking knobs

Accessories



Slot lock for plastic side parts

to lock the slots of series 6XX.1/2, 7XX.1/2 and 8XX.1/2 magazines. Clipping and removal are without additional tools. With a slot lock in use, the maximum PCB width adjustable is reduced by 3 mm.

Pos.	Part no.	Product	Packing unit
1.1	8916571	Slot lock 1 (onefold)	100
1.2	8916575	Slot lock 5 (fivefold)	20







Bracket on plastic side parts

to easily attach accompanying documents

Part no.	Product	Packing unit
8913416	Bracket	1



ESD protection cover

The conductive, solid and tear-proof Permastat® ESD protection cover prevents the PCBs in a magazine from pollution. Color: pink; thickness: 150 µm

Туре	Part no.	Packing unit
601/701/801	8916411	10
602/702/802	8916412	10
603/703/803	8916413	10
704/804	8916414	10
716/816	8916416	10
717/817	8916417	10

Special magazines



Low structural heights for series 600 / 700 / 800 magazines

Low height PCB magazines, e.g. for use in annealing furnaces. Reducing the height also prevents from overload with heavy PCBs or any need of product carriers. Side wall material: metal; plastic on request

		Insertions dembe	erature Surrounding	Weight	diı	Outside nensio	ns	Insertions	ew clamping	r belt
Туре	Part no.	C _o	C _o	≥ kg	L mm	W mm	H mm	<u>n</u> se	Screw	Gear
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	-	



Twin and triple models to process long PCB with series 700 magazines

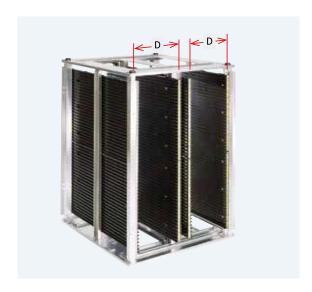
The PCB magazines are assembled torsion resistant. Thus, PCB up to 1,187 mm can be safely stored and transported.

Side wall material: polycarbonate

Twin magazine delivery: fully assembled

Triple magazine delivery: partially assembled

		Tempe	perature					РСВ			
		Insertions	Surrounding	Weight	Outside dimensions			Outside D D D			Length C
Type	Part no.	C°	ns °	∯ kg	L mm	W mm	H mm	min. mm	max. 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	
701.2-3	8916713	130	100	18.7	1,065	320	563	40	250	1,052	
702.2-3	8916723	130	100	19.3	1,200	320	563	40	250	1,187	
703.2-3	8916733	130	100	20.5	1,200	380	563	40	310	1,187	



Double capacity by parallel insertion into series 600 magazines

Up to 100 PCBs in a series 600 magazine. In case narrow PCBs are processed, magazines with two insertion units can be used sidy by side. Side wall material: polystyrene, polycarbonate, metal

	Temperature							РСВ	
		Insertions	Surrounding	Outside dimensions			Width D		Length C
Туре	Part no.	sul c	ns °	L mm	W mm	H mm	min. mm	max. 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