

E.S.D



COUNTY EVO

8301.028

Support for
SMD reels

SMD ADAPTOR

The County adaptor for counting taped SMD components is an optional accessory (8301.018) for the County Component Counter.

The maximum tape height is 56mm and the number of holes per component is min 0.5 - max 19.

Component counting is achieved by counting the punched holes on the SMD tapes.

8301.028 rotating SMD supports and 8301.030 SMD bandolier handle are optional items.



AXIAL COUNTING

The plastic mobile guide is adjusted for axial counting (see above).



8301.023

Support for rolled
bandolier

RADIAL COUNTING

The plastic mobile guide is adjusted for radial counting (see figure) Before counting it is necessary to select the lead component number by setting the divider.

For bandolier counting the 8301.023 support is available, with an easily inserted 8301.025 handle (see figure on right).

COUNTY EVO

COUNTY EVO is a microcomputer based instrument which counts axial, radial and SMD (with 8301.018 option) components.

TECHNICAL FEATURES

Counting in both directions (left or right)

Divider from 0.5 to 19

TOTALIZER mode counting

PRESET mode counting (with an audible alarm when the desired component number is reached)

Calibration test and self diagnostic procedure

Last counting value and condition memory

Models 8301.082 and .084 with rechargeable battery, Barcode reader input, output for Printer/PC, Watch, Datalogger with 500 counting records.

Maximum counting value:	999999 counts
Minimum lead diameter:	0.4 mm
Axial component bandolier width:	55 - 110 mm
Radial component bandolier width:	max 18 mm
Maximum component diameter:	14 mm
Display:	4 digits 13 mm height
Dimensions:	240 x 130 x 110 mm
Weight:	1.8kg

8301.081
8301.082

County EVO 230V/50-60Hz
County EVO 230V/50-60Hz
with accumulator, barcode input
printer output, watch

8301.083
8301.084

County EVO 115V/50-60Hz
County EVO 115V/50-60Hz
with accumulator, barcode input
printer output, watch

8301.350

ISO9000 Traceable® Certificate

Accessories for counting of PTH taped components

8301.023 Complete support for rolled bandolier(1 pcs)
8301.025 Bandolier handle

Accessories for the counting of SMD components

8301.018 SMD Adaptor
8301.028 SMD support for rolled bandolier
8301.030 SMD bandolier handle

8301.155

Barcode with coiled cord
(photos and specifications at page 4)

8301.095
8301.096

Direct thermal label printer
57x51mm, 1360 labels/roll
(photos and specifications at page 4)

COUNTY-5 EVO

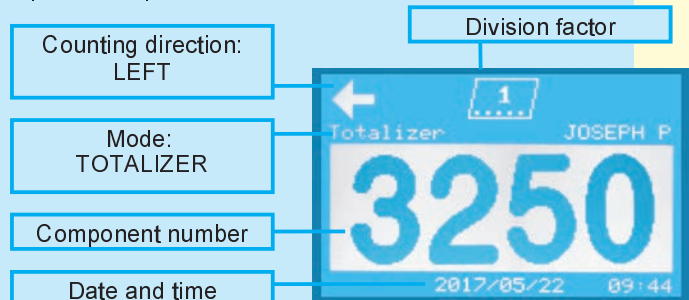


COUNTY-5 EVO is a motorized counting machine for taped SMD component counting.

It can operate in two different ways:

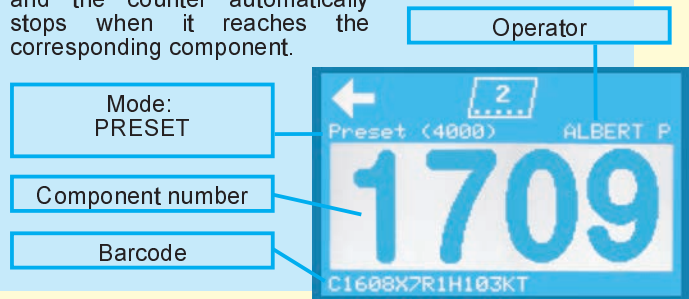
TOTALIZER:

components are counted from a zero reference, tape feed is motorized and the counter automatically stops at the tape end, to prevent loss of the total.



PRESET MODE:

the desired component number is keyed on the keyboard and the counter automatically stops when it reaches the corresponding component.



TECHNICAL FEATURES

Counting: max 999999pcs, 6 digits 22mm height
 Maximum counting speed: 220pcs/sec (1 piece per hole)
 Pitch (holes for component): from 0.5 to 99
 Maximum tape height: 56mm
 Maximum reel diameter: 400mm (standard configuration)
 650mm (with 8301.150 support)

Display: blue LCD with led backlight 160x104 pixel
 visible area: 74x46mm

Adjustable speed control
 Step by step mode (1 component at a time)

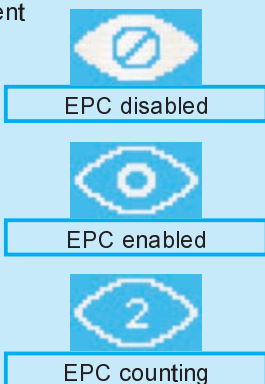
Empty pocket check (optional)

Barcode reader input
 Serial connection for label printer or PC
 Selection of the operator (10 operators can be memorized with 8 alphanumeric chars everyone)
 Internal clock (1 week backup)
 Datalogger that stores the last 500 counting data
 Memory storage for subtotals
 2 side handles for easy transport.

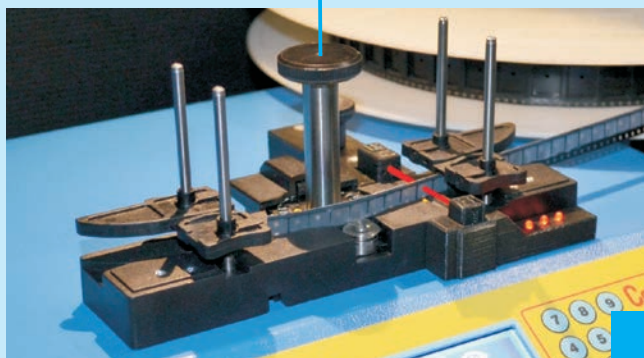
Dimensions: 525 x 340 x 250(H) mm
 Weight: 9,5 Kg

Empty Pocket Check

Checks the presence of the component
 Programmable Stop: Never - 1 - 2
 It only works on black plastic tapes



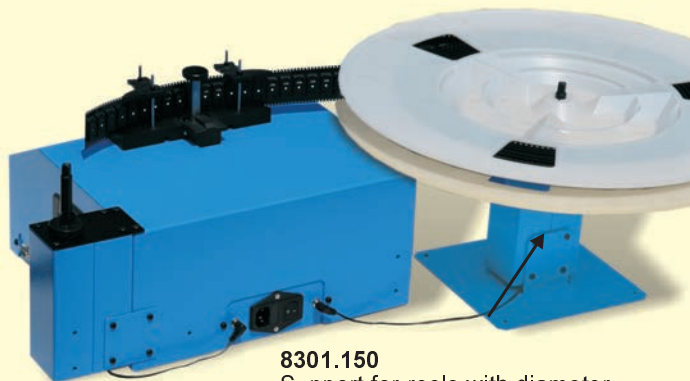
Tape adjustment knob



COUNTY-S EVO



County-S EVO control keyboard



8301.150
Support for reels with diameter
> 400mm

Barcode for County EVO and County-S EVO

It's small, lightweight and ergonomic design, coiled cable included, a wider than usual scan angle provides the ability to read a longer bar code from a shorter distance, IP42 protection.

The barcode is connected and powered via a single cable, without the hassle of two separate cables

8301.155

Barcode with coiled cord



Printer for County EVO and County-S EVO

Direct thermal label printer built for ease-of-use and durability, ac adaptor 110-230Vac and data cable included.

Maximum print width is 104mm however the print is optimized for 57x51mm labels

8301.095
8301.096

Direct thermal label printer
57x51mm, 1360 labels/roll



COUNTER-PEN™

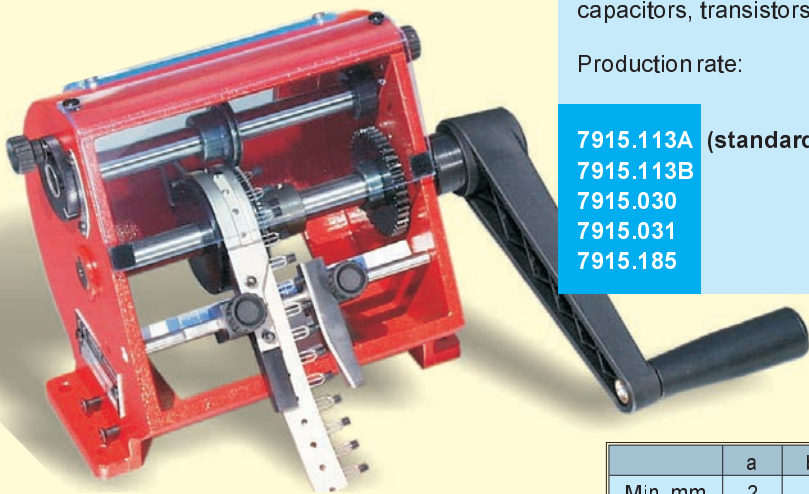
Counter-Pen™ is a combination marker and digital counter designed for the lab and plant.

Each time a black mark is made with the felt-tipped pen, it automatically sounds a beep, and LCD displays the counts. It is very useful to count components, packages and during inventory. Durable ABS plastic unit provides audio/visual counts to 99999 with reset button, on/off switch, and pen cap.

COUNTER-PEN digital counter
Replacement pen cartridge



SUPERFORM-R



SUPERFORM/R is a machine made for cutting radial taped components such as capacitors, transistors and stand-off resistors.

Production rate:

up to 20000 pcs/hr

7915.113A (standard model)

7915.113B

7915.030

7915.031

7915.185

SUPERFORM/R P=12.7mm (.5")

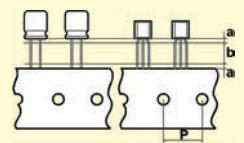
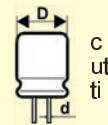
SUPERFORM/R P=15.0mm (.59")

Motor Unit for SUPERFORM, 230V - 50/60Hz

Motor Unit for SUPERFORM, 115V - 50/60Hz

Tape Reel Holder arm BR6

	a	b	d	D
Min mm	2		0.4	-
Max mm		8	1	14



SUPERCUT

SUPERCUT is a machine made for cutting radial loose components and, with an optional adapter, also taped components.

It is extremely compact and sturdy and all mechanical parts have been designed to ensure the highest quality and the longest possible life.

The loading of components is easy and quick, and the production is high because there is no down time due to the automatic transfer and ejection of the components.

The transfer speed is adjustable.

The small sliding door in front allows for lead length adjustments.

There is an optional adapter for radial taped components.

TECHNICAL FEATURES

Production rate:

up to 3000 pcs/hr

Dimensions:

400 x 270 x 270(H)mm

Weight:

14Kg

7915.147N

Motorized cutting machine SUPERCUT, 115V - 50/60Hz

7915.148N

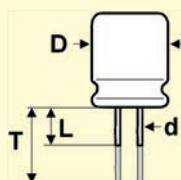
Motorized cutting machine SUPERCUT, 230V - 50/60Hz

7915.160

Tape Reel Holder BR3, P=12.7mm

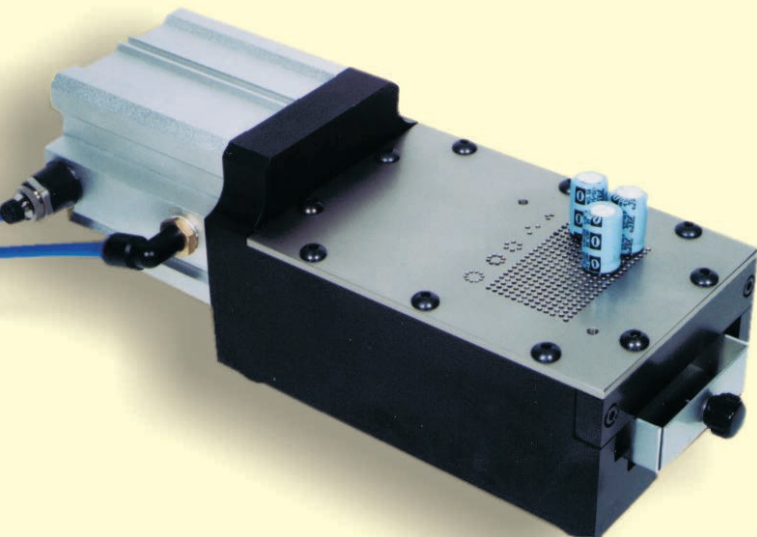
7915.159

Tape Reel Holder BR3, P=15mm



T(original lenght) > L + 6mm

	L	d	D
Min mm	3	0.4	1
Max mm	12	0.8	15



SUPERCUT/LN5

This pneumatic machine is designed to cut/trim almost every type radial lead components.

The guillotine cutting system, with zero clearance between the plates, guarantees a sharp and precise cut without burrs or damage to the leads.

It is possible to cut many components at the same time without any risk of wear of the blades.

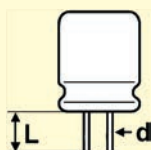
The machine can be supplied with special cutting jig. An additional optional plate (thickness to be specified, max 3mm) can be supplied to increase the cutting height of the leads.

Two models available, the first with a cutting area 53x43mm, the second with a cutting area 53x93mm.

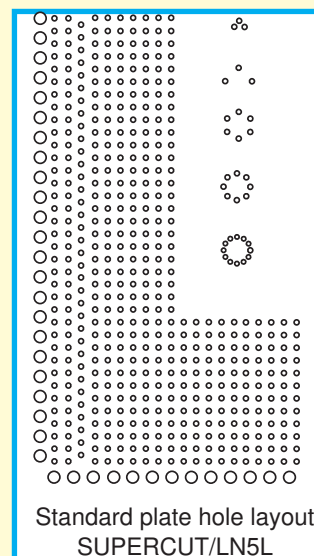
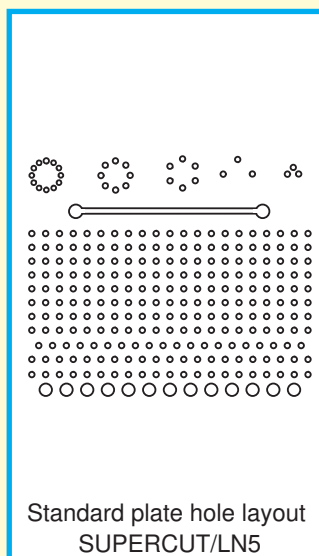
TECHNICAL FEATURES

Production rate: up to 3000 pcs/hr
 Dimensions: 140 x 210 x 110 mm
 Supply: 6 ATM
 Weight: 6 Kg

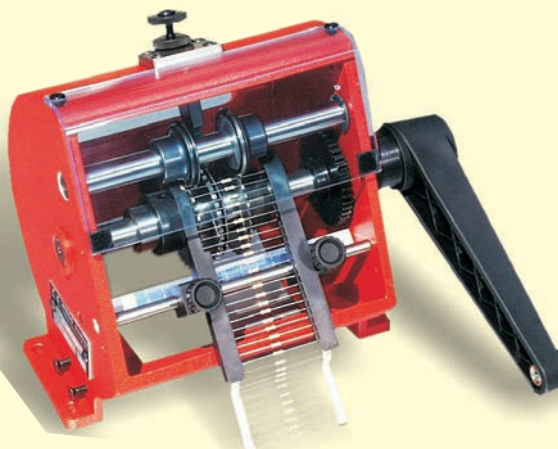
7915.041 SUPERCUT/LN5 with foot pedal control
 7915.041L SUPERCUT/LN5L long model with foot pedal control
 340.114 Optional additional plate for SUPERCUT/LN5 (max 3mm)
 340.214 Optional additional plate for SUPERCUT/LN5L (max 3mm)



	L	d
Min mm		0.3
Max mm		1.3
Fix mm	3.2	



SUPERFORM/V

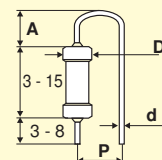


	P	d		A		D
	fix	min	max	min	max	max
7915.101 B standard	2.54	0.5	0.8	2	6	3
7915.101 C	3.8	0.5	0.8	2.5	6	5
7915.101 D	5.08	0.5	0.8	3	7	8
7915.101 E	7.62	0.5	0.8	4	7	10
7915.091 A	3.8	0.8	1.3	4	9	5
7915.091 B	5.08	0.8	1.3	5	9	8

SUPERFORM/V is a machine made for cutting and bending axial taped components for vertical mounting.

Production rate up to 40000 pcs/hr

7915.030 Motor Unit for SUPERFORM, 230V - 50/60Hz
 7915.031 Motor Unit for SUPERFORM, 115V - 50/60Hz
 7915.182 Feeder CS30 for loose axial components
 7915.185 Tape Reel Holder arm BR6



SUPERFORM/A

SUPERFORM/A is a machine made for cutting and bending axial taped components, it is extremely compact and sturdy and its main characteristic is to form components with rheophore up to 1.4 mm
Its tracking wheels are adjustable independently to allow rapid setup at different forms.

Production rate:

up to 40000 pcs/hr

7915.030

7915.031

7915.180

7915.185

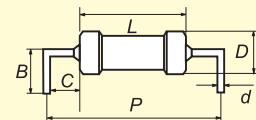
Motor unit for SUPERFORM, 230V - 50/60Hz

Motor unit for SUPERFORM, 115V - 50/60Hz

CS10 feeder for loose axial components

Tape reel holder arm BR6

mod.	version	B		P		C		D		d		L	quick setting
		min	max	min	max	min	max	min	max	min	max	max	
7915.100A	standard model	4	13	6.5	60 (40*)	1.2	16	0.4	1.3	50			7915.100AR
7915.100D	reinforced bending knives	5	13	10.5	60 (40*)	2.4	16	0.6	1.4	50			7915.100DR
7915.100F	reduced cutting length reduced bending length	4	13	5	60 (40*)	0.8	10	0.4	0.8	50			7915.100FR
7915.100G	like "F" + fixed pitch	4	10	5	-	0.5	4	0.4	0.6	3.5			



(*) maximum P dimension with quick setting

SUPERFORM/AP

SUPERFORM/AP is a machine made for cutting and bending axial taped components for vertical assembling, and shaping a little curl on each lead. The machine handles wire diameters ranging from 1 mm to 1.4mm.

By replacing the 2 "cutting/forming wheels" with 2 "only cutting wheels" (optional) it is possible to obtain an U-shape without curls.

Production rate:

up to 20000 pcs/hr

7915.030

7915.031

7915.180

7915.185

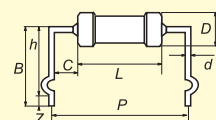
Motor unit for SUPERFORM, 230V - 50/60Hz

Motor unit for SUPERFORM, 115V - 50/60Hz

CS10 feeder for loose axial components

Tape reel holder arm BR6

mod.	version	z	P		B		C		L	d	D		h	
		fix	min	max	min	max	min	max	max	min	max	max	min	max
7915.102A	standard model	3.1	6.5	60	10	14	1.2	10	50	1	1.3	16	7	11
7915.102B	reinforced bending knives	3.1	10.2	60			2.4				1.4			
7915.102C	standard model	3.9	6.5	60			1.2				1.3			
7915.102D	reinforced bending knives	3.9	10.2	60			2.4				1.4			
7915.102E	standard model	5	6.5	60			1.2				1.3			
7915.102F	reinforced bending knives	5	10.2	60			2.4				1.4			



OPTIONAL ACCESSORIES

SUPERFORM MOTOR UNIT

Equipped with manual speed adjustment and automatic torque control for an easy and fast working of the SUPERFORM machine.

The motor unit is supplied only with the machine assembled.

7915.030

230V Motor Unit for SUPERFORM/A-AP-S-V-R-RCP

7915.031

115V Motor Unit for SUPERFORM/A-AP-S-V-R-RCP

7915.032

230V Motor Unit for SUPERFORM/AF-VP

7915.033

115V Motor Unit for SUPERFORM/AF-VP

600.023

Foot switch for 7915.030/031/032/033 motors



SUPERFORM Tape Reel Holder BR6

A tape reel holder arm to be fixed on the left side of Superform, to facilitate unwinding of the tape.

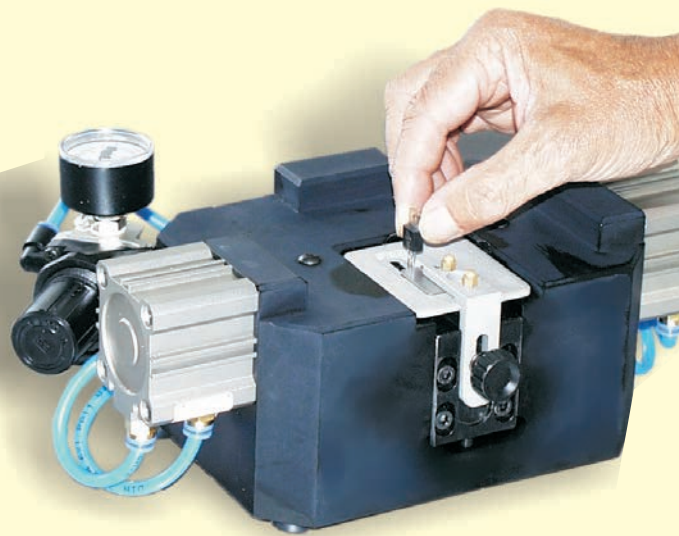
7915.185

BR6 for all SUPERFORM models



BR6

PERCUT/RS4 for loose radials



A pneumatic machine designed to cut loose radial component leads.

The feed is manual, on the top of the machine.

Pressing the foot pedal effects cutting and preforming of the leads in a very quick and precise way.

A large variety of Dies is available, substitution of the Die assembly is extremely quick and simple.

A machine three cylinders equipped, with custom tool, can be supplied for more complex not standard forms.

Production rate:

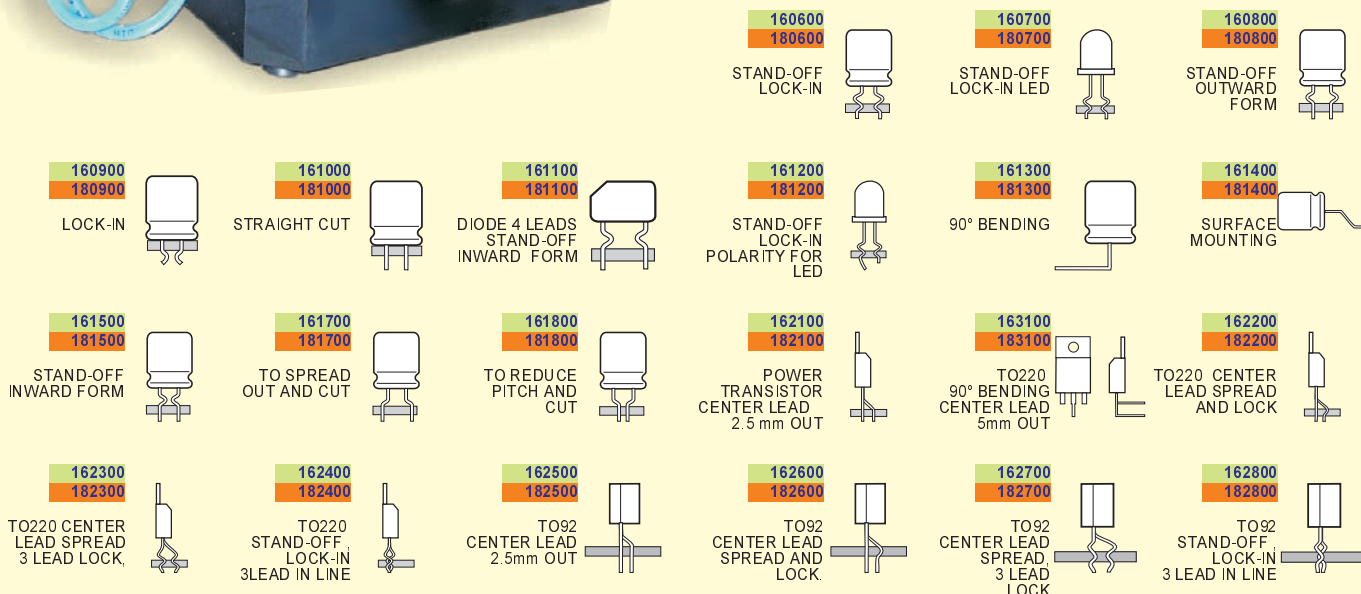
2000 pcs/hr

7915.166

SUPERCUT/RS without preforming set

16xxxx

Preforming set



PERCUT/TS1 for loose radials

A pneumatic machine designed to cut loose radial component leads, the feed is manual, on the top of the machine.

Pressing the foot pedal effects cutting and preforming of the leads in a very quick and precise way.

A large variety of Dies is available, substitution of the Die assembly is extremely quick and simple.

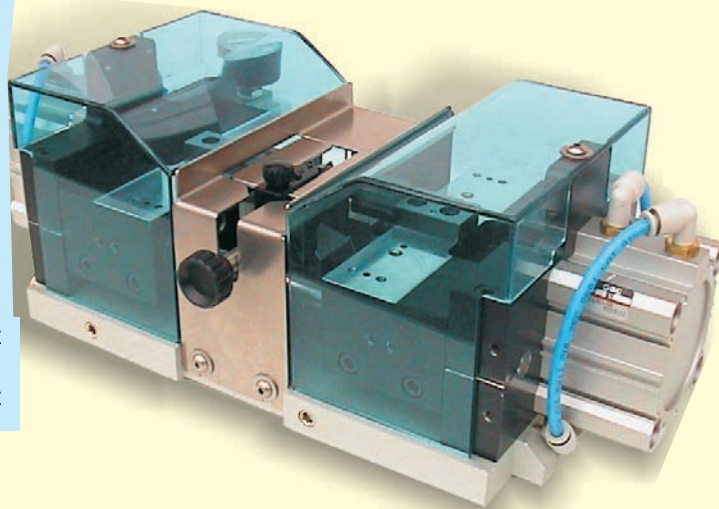
- wire holder system available on request
- more powerful cylinders
- stronger and more accurate
- less wear
- very large components processing
(max. length 140mm, max. pitch 45mm)
- production rate 2000 pcs/hr

7915.171

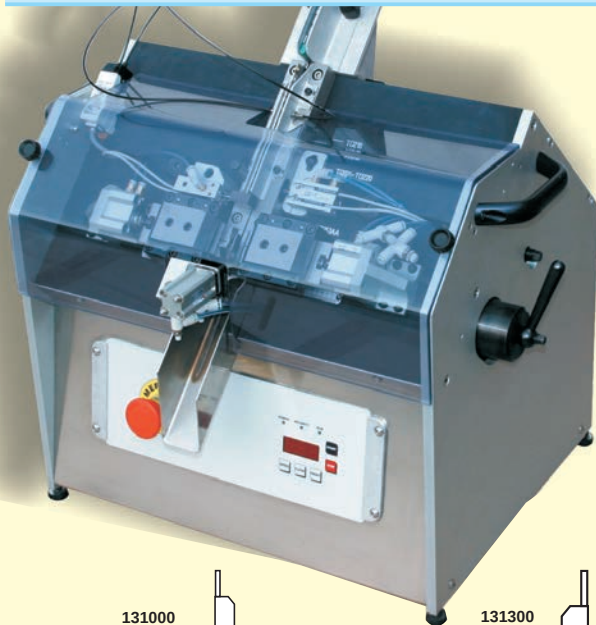
SUPERCUT/TS1 without preforming set

18xxxx

Preforming set



SUPERCUT/TOCF for *tubed transistors*



SUPERCUT/TOCF automatic machine is designed to cut and form tubed radial components type TO220, TO218, TO126.

The complete operation is fully automatic and each form needs dedicated die .

The full tube is introduced into the upper guide and a pneumatic system allows the component clamping and its positioning in the working point. The leads have before locked by the wire holder and after formed by the sliding die.

Production rate:

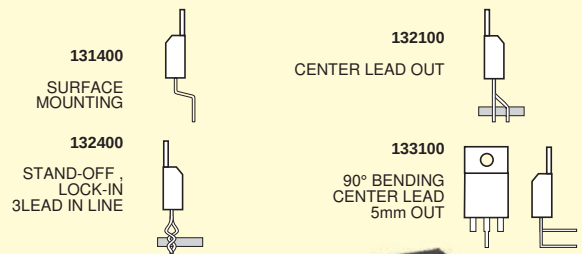
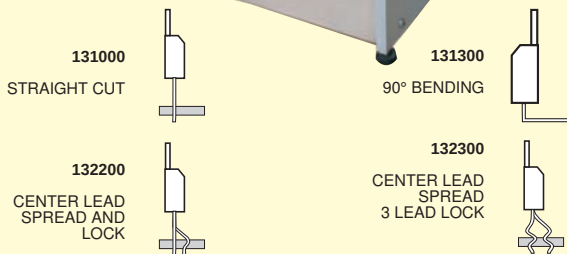
up to 3000pcs/hr

7915.176

SUPERCUT/TOCF without tools, 115V

7915.177

SUPERCUT/TOCF without tools, 230V



SUPERCUT/RP for *taped radials*

SUPERCUT/RP is a machine designed to cut and form taped radial component leads, the curl formed by this model allows the components to remain spaced and locked in the PCB, making assembly operations easier . The machine can be supplied with preforming curl dies different from the standard ones.

It is a pneumatic machine, the leads must be introduced into a slot on the front of the machine. Taped components may be manually fed into the machine whilst the foot pedal is pressed.

An automatic feeder system for taped components is available.

Production rate (with feeder): 7000 pcs/hour

7915.153

Manual machine SUPERCUT/RP without preforming set

7915.156

Feed system for taped components, tape P=12.7, 115V

7915.156A

Feed system for taped components, tape P=15, 115V

7915.157

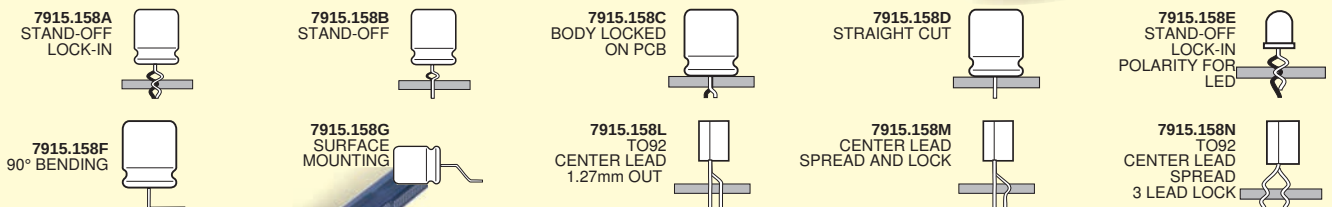
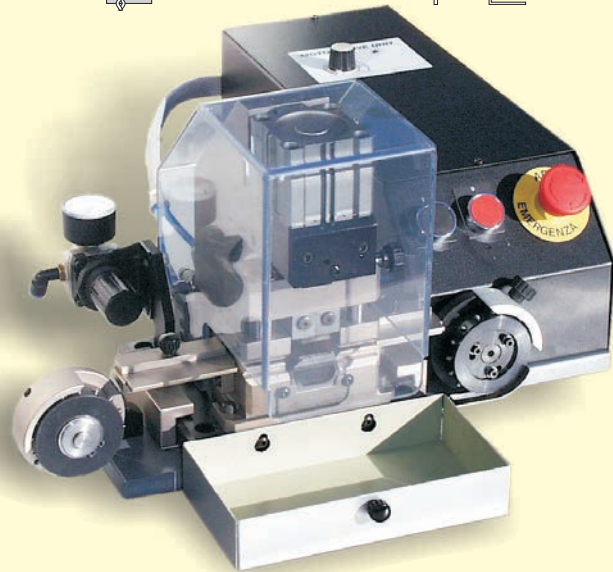
Feed system for taped components, tape P=12.7, 230V

7915.157A

Feed system for taped components, tape P=15, 230V

7915.158

Die block



PINS ALIGNER

Pin aligner suitable for integrated circuits MOS and CMOS , from 4 to 64 pins. Operation is made by sliding the packaging tube between the 4 metal rollers. Easy adjustment of the pitch by means of the setting knob.

Setting of the pin distance: 7 - 24mm (0.3" - 0.9")

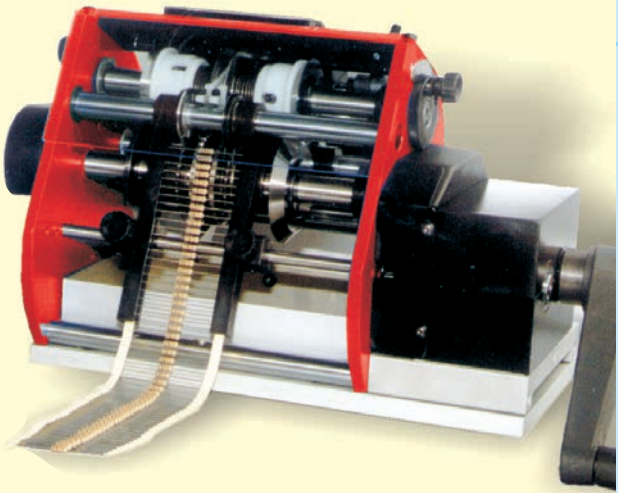
7804.711

PINS Aligner, 7-24mm with press (P)

7804.712

PINS Aligner, 7-24mm without press (P)

SUPERFORM/AF



The SUPERFORM/AF is a machine designed to cut, bend and preform axial components with a lead diameter ranging from 0.5 to 0.8mm.

An innovatory preforming system, fully mechanic, allows the rotation of the central feed to stop while two preforming assemblies grip the component leads and preform the leads according to the chosen dies.

The components are in this way first cut and "U" bent to the dimensions previously set and then the preforming is made.

The cutting and bending parameters as well of the position of the preform are fully adjustable. Different forms can be obtained with this machine, through the easy substitution of the two preforming dies.

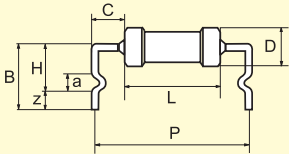
It is also possible to exclude part of the preforming operation to obtain the cutting and "U" bending only.

By use of the variable speed Motor Drive Unit working can be automatic and the production rate can be increased.

Production rate: up to 7000 pcs/hour

STAND OFF

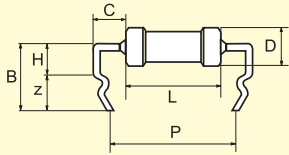
Dimensions in mm (* can increase, according to the component diameter)



mod. (assembly die)	version	P		L	C	H		B		d		D	a	z	
		min	max	max	min	min	max	min	max	min	max	max		min	max
7915.095 (420.800)	standard	10.5	61	50	1.2	6*	9	8*	11	0.5	0.8	8	2.5	2	4
7915.095 (420.750)	standard	10.5	61	50	1.2	6.5*	9.5	8.5*	11.5	0.6	0.9	8	3	2	4
7915.096 (420.750)	reinforced	10.5	61	50	1.5	7*	12	9*	14	0.8	1	8	3	2	4
7915.097 (430.700)	extra reinforced	13	61	50	2.5	11*	16	13*	18	1	1.3	8	4	2	4

STAND OFF - LOCK IN

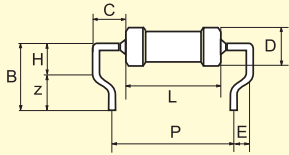
Dimensions in mm (* can increase, according to the component diameter)



mod. (assembly die)	version	P		L	C	H		B		d		D	z	
		min	max	max	min	min	max	min	max	min	max	max	min	max
7915.095 (420.850)	standard	10.5	61	50	1.2	4.5*	8	7.5*	11	0.5	0.8	8	3	4
7915.095 (420.950)	reinforced	10.5	61	50	1.2	4.5*	8	7.5*	11	0.6	0.9	8	3	4.5
7915.096 (420.950)	reinforced	10.5	61	50	1.5	5.5*	11	8.5*	14	0.8	1	8	3	4.5

STAND OFF - REDUCED PITCH

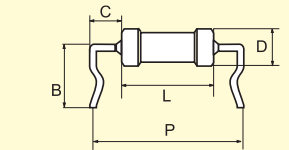
Dimensions in mm (* can increase, according to the component diameter)



mod. (assembly die)	version	P		L	C	H		B		d		D	z		E
		min	max	max	min	min	max	min	max	min	max	max	min	max	
7915.095 (420.900)	standard	8	59	50	1.2	5*	9	7*	11	0.5	0.9	8	2	4	1.27
7915.096 (420.900)	reinforced	8	59	50	1.5	6*	12	8*	14	0.8	1	8	2	4	1.27
7915.097 (430.900)	extra reinforced	10.5	59	50	2.5	9*	16	11*	18	1	1.3	8	2	4	1.27

BODY LOCKED ON PCB

Dimensions in mm (* can increase, according to the component diameter)



mod. (assembly die)	version	P		L	C	B		d		D
		min	max	max	min	min	max	min	max	max
7915.095 (421.000)	standard	10.5	61	50	1.2	5	8	0.5	0.8	8

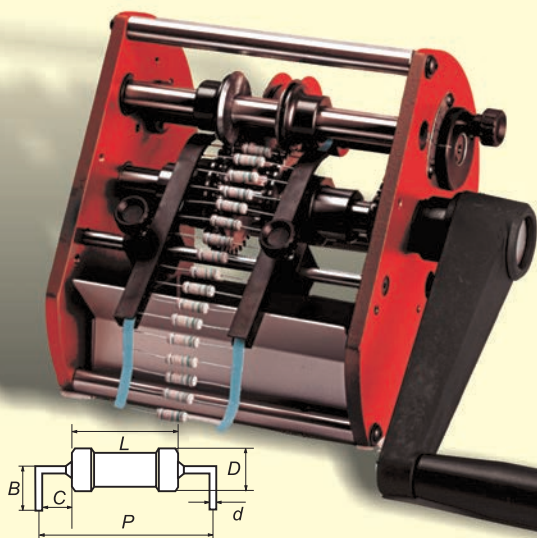
7915.095 SUPERFORM/AF standard, without preforming die
 7915.096 SUPERFORM/AF reinforced, without preforming die
 7915.097 SUPERFORM/AF extra reinforced without preforming die
 7915.185 Tape Reel Holder arm BR6 for SUPERFORM
 7915.032 Motor Unit for SUPERFORM/AF, 230V- 50/60Hz
 7915.033 Motor Unit for SUPERFORM/AF, 115V- 50/60Hz
 7915.184 Loose Component Feeder CS40 for SUPERFORM/AF

420750
420800
420850
420900
420950
421000
430700
430900

STAND-OFF preforming die assembly, curl 3mm
 STAND-OFF preforming die assembly, curl 2.5mm
 STAND-OFF/LOCK-IN pref. die assembly (d:0.5 - 0.8)
 STAND-OFF/REDUCED PITCH pref. die assembly
 STAND-OFF/LOCK-IN pref. die assembly (d:0.6 - 1)
 BODY LOCKED ON PCB preforming die assembly
 STAND-OFF preforming die assembly (d:1-1,3mm)
 STAND-OFF/REDUCED PITCH (d:1-1,3mm)

LOW-COST PREFORMING MACHINES

Economic, manual machines, designed for small productions. These machines can not be motorized, the "Tape reel holder" model BR6 (page 11 of the catalog) can be applied



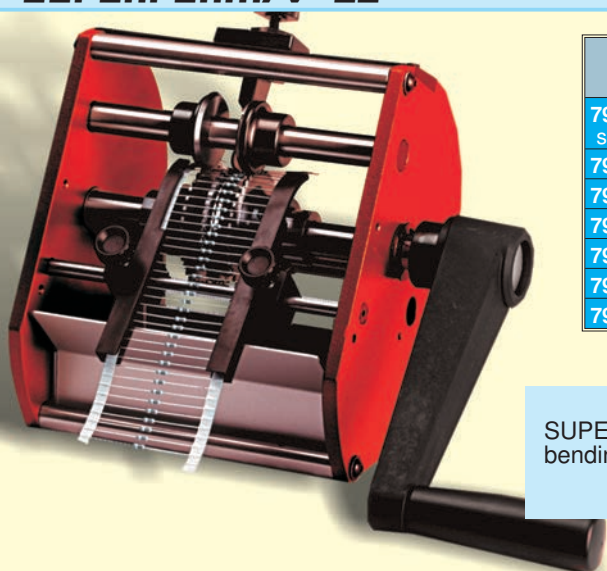
SUPERFORM/A-LC

SUPERFORM/A-LC is a machine made for cutting and bending axial taped components, it is extremely compact and sturdy and its main characteristic is to form components with rheophore up to 1.4 mm

Its tracking wheels are adjustable independently to allow rapid setup at different forms.

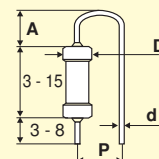
mod.	version	B		P		C	D	d		L
		min	max	min	max	min	max	min	max	max
7915.200A	standard	4	13	6.5	60	1.2	16	0.4	1.3	50
7915.200D	reinforced bending knives	5	13	10.5	60	2.4	16	0.6	1.4	50
7915.200F	reduced cutting length reduced bending length	4	13	5	60	0.8	10	0.4	0.8	50
7915.200G	like "F" + fixed pitch	4	10	5	-	0.5	4	0.4	0.6	3.5

SUPERFORM/V-LC

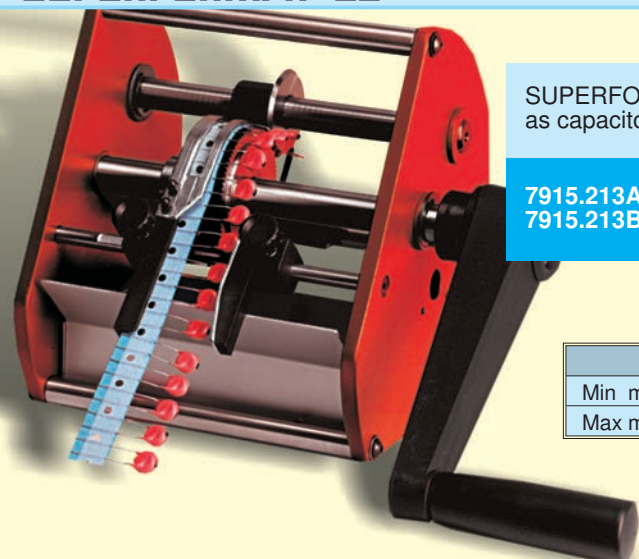


	P	d		A		D
	fix	min	max	min	max	max
7915.201 B standard	2.54	0.5	0.8	2	6	3
7915.201 C	3.8	0.5	0.8	2.5	6	5
7915.201 D	5.08	0.5	0.8	3	7	8
7915.201 E	7.62	0.5	0.8	4	7	10
7915.209 A	3.8	0.8	1.3	4	9	5
7915.209 B	5.08	0.8	1.3	5	9	8
7915.209 C	7.62	0.8	1.3	6	9	10

SUPERFORM/V-LC is a machine made for cutting and bending axial taped components for vertical mounting.



SUPERFORM/R-LC

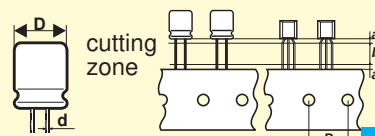


SUPERFORM/R-LC is a machine made for cutting radial taped components such as capacitors, transistors and stand-off resistors.

7915.213A (standard)
7915.213B

P=12.7mm
P=15mm

	a	b	d	D
Min mm	2		0.4	-
Max mm		8	1	14



TRACTOR

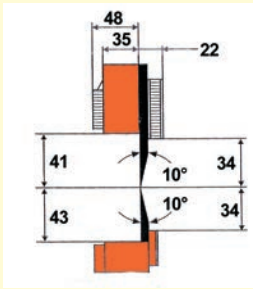
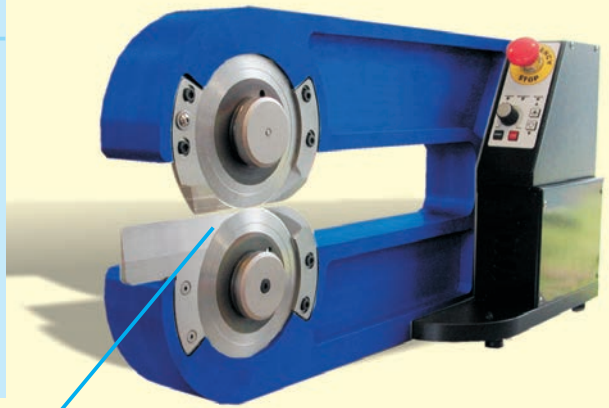
TRACTOR depaneling machine separates the prescored PCB, in a very quick and economic way.

The compact and stable aluminium frame requires a minimum space.

The assembled PCB panel is shoved between the circular blades and is thereby separated.

The circular blades and guides are made of special steel to ensure a long time life.

The hand model is suggested only for small productions.



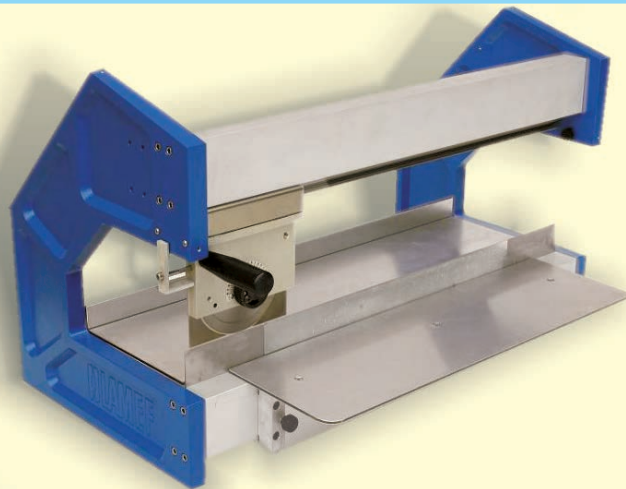
Separation length:
Thickness of panels:
Maximum components's height:

up to 350mm
0.8 - 3.2mm
34 - 43mm

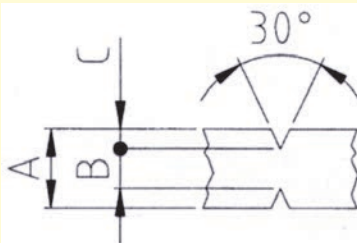
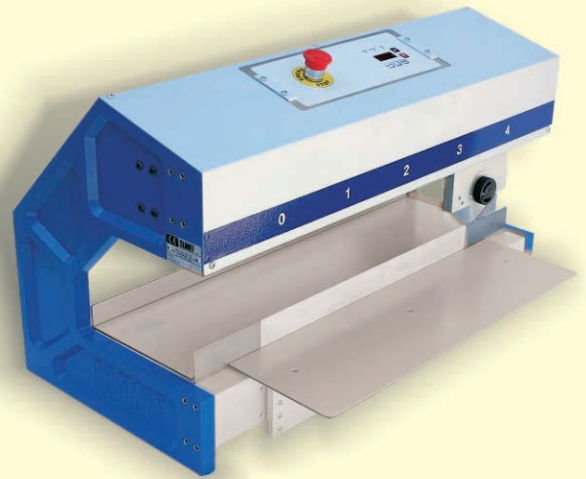
7915.580
7915.582
7915.583

TRACTOR - PCB Hand depaneling machine
TRACTOR - PCB Motorized depaneling machine 230V
TRACTOR - PCB Motorized depaneling machine 230V/ Titan blades

TRACTOR 2



TRACTOR 2M

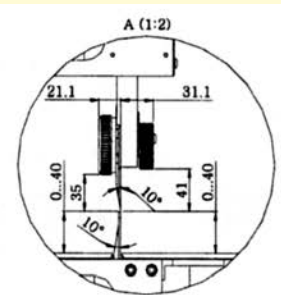
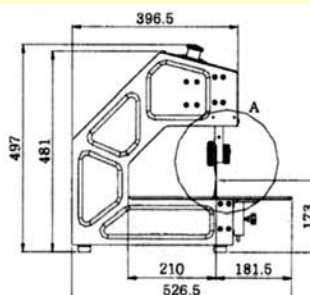
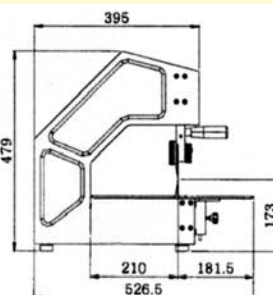
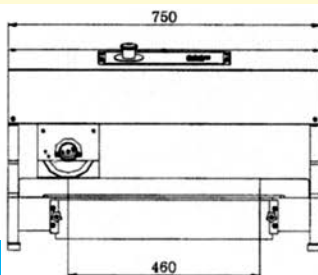


A = 1.0 - 3.2mm
B = min.0.3mm
max.0.8mm
C = min.0.25mm

TRACTOR 2 separates both small and large pre-scored PCBs, the maximum separation length is 450mm.
The PCB is placed with its pre-scored groove onto the linear blade and the circular blade is then drawn by hand, or by motor, across the PCB. The clearance between the upper circular blade and the lower linear blade is adjustable

7915.560
7915.564

TRACTOR 2 - PCB Hand depaneling machine
TRACTOR 2M - PCB Motorized depaneling machine 230V



TRACTOR-MILL

The Tractor Mill depaneling machine mills the routed tabs with the same quality of an automatic system at a lower costs.

The key feature of this machine is the easy and quick change of the milling cutter and the interchangeable rail (patent pending). This rail is useful to assist the operator to place and drag the circuit until the cut is complete. The particular shape of the rail avoids any damages to the assembled circuit: if the operator inserts it incorrectly it will not match the eyelet. This rail gives a total protection against possible accidents under safety rules.

This manual depaneling machine has an integrated electric vacuum cleaner system therefore it's easy to place it in every working area.

It has been designed and realized to solve stress problems, break or tearing out of the PCB's fibers that often occur using standard blades or manual tools and that are not tolerated with the increasing complexity and miniaturization.

Technical features:

Aspiration:	three phase / single phase turbine
Weight:	55 Kg
Mains Supply:	400V/50Hz - 230V/50Hz
Power:	1.3kW - 1.1kW
Depression:	-17 kPa (-170 mBar) / -15 kPa (-150 mBar)
Air Pressure:	7 bar
Hose connection:	Ø 8mm
Compressed air consumption:	max. 210 NI/min - average 140 NI/min

7915.590

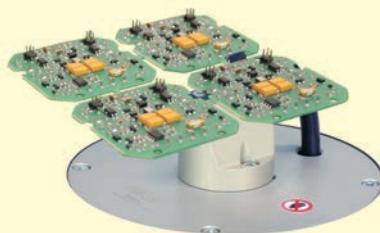
TRACTOR-MILL depaneling machine with pedal



- 1 Choose the right mill: 1.5 - 2.5mm
Choose the right rail



- 2 Move the PCB array towards the mill



- 3 The mill removes the PCB's tabs



7820.031



7820.001

GOSMOKE

The GOSMOKE exhaustor is a convenient and economical solution to the fumes associated with soft soldering. Fumes close to the worker are drawn in, filtered and direct towards the ceiling where supplementary ventilation can be eventually provided.

There are two models, both of them are equipped with an axial fan and a cellular activated filter, which filters out some of the colophony, tin and lead vapours contained in the fumes. The filter should be replaced every 100 working hours.

- table model:

This portable suction unit is light, space saving and quiet, by using the adjustable support the exhaustor can be hung above the work table at different heights and tilted at different angles.

- hanging model:

With an adjustable bracket it is a better solution to reach a larger area of the workbench. This model is also available with a halogen lamp .

TECHNICAL FEATURES

power:	20 W
air volume:	130 m³/h
noise:	45 dB(A)

7820.001
7820.003
7820.004

Exhauster 230V (table model)
Set of 4 spare filters
Adjustable support for table model

7820.021
7820.031

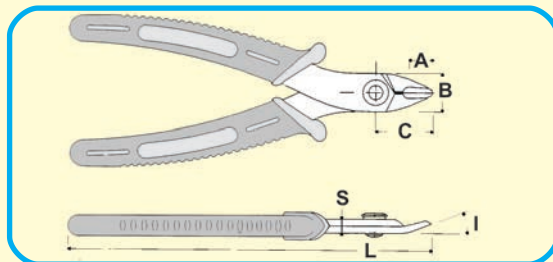
Exhauster 230V (hanging model)
Exhauster 230V (hanging model) with lamp.
All GOSMOKE exhausters
are supplied with 4 spare filters.

CUTTING NIPPERS

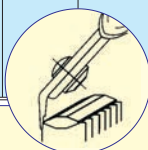
Specially developed for the electronic, these tools are made out a special carbon steel, with elastic, ergonomic PVC handles, in two versions:

ESD black ($10^6 - 10^9 \Omega$)
INSULATING orange

A patented safety clip to prevent the cut lead to spring out dangerously is available.



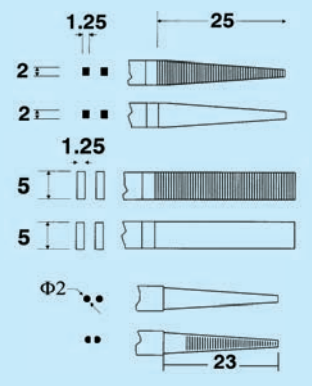
USE	TYPE OF CUT	WT	dia.max Copper wire		DIMENSIONS						CODE	HANDLES		SAFETY CLIP
		gr.	mm	AWG	A	B	C	S	L	I		ESD black	ISOLANT orange	
normal For lead diameter to 1mm	Clean cut 	60	1,02	18	8	13,5	20	5	138	21°	TRE 03 NB TRE 03 AB TRE 03 NBD TRE 03 ABD	 • • •	 • •	 • •
normal For lead diameter to 1,3mm	Clean cut 	65	1,30	16	8	13,5	20	5	128	21°	TR 30 TR 30 A TR 30 D TR 30 AD	 • • •	 • •	 • •
normal with 45° bending nose for lead diameter to 1,3mm	Clean cut 	65	1,30	16	8	13,5	20	5	128	45°	TR 2550 TR 2550 D	 •	 •	
normal for lead diameter to 2mm	Clean cut 	75	2,05	12	8	13,5	20	6	128	21°	TR 58 R TR 58 RA TR 58 RD TR 58 RAD	 • • •	 • •	 • •
heavy for lead diameter to 2,5mm	Blunt cut 	100	2,59	10	12	16,5	25	6	148	21°	TRR 58 TRR 58 A TRR 58 D TRR 58 AD	 • • •	 • •	 • •
micro for lead diameter to 0,8mm	Clean cut 	45	0,81	20	8	9,5	18	4	118	21°	TR 20 M TR 20 MA TR 20 MD TR 20 MAD	 • • •	 • •	 • •
micro for lead diameter to 1mm	Clean cut 	60	1,02	18	8	10	18	5	128	21°	TR 25 P TR 25 PA TR 25 PD TR 25 PAD	 • • •	 • •	 • •
micro with 48° bending nose for lead diameter to 0,6mm	Clean cut 	45	0,64	22	8	9,5	18	4	118	48°	TR 2050 M TR 2050 MD	 •	 •	
micro reversed cut with 48°bending nose specially developed for IC leads	Clean back cut 	45	0,64	22	8	9,5	18	4	118	48°	TR 20 TM TR 20 TMD	 •	 •	



PLIERS

Professional pliers developed for the electronics industry.
Short, long, rounded pliers, with smooth or serrated nose.
Extension D is for the Black Dissipative PVC handles ($10^6-10^9\Omega$).

	A	B	C	D	S	L	Peso gr.
PN 5005	25	13	36	1,3	2	140	97
PN 5005 D							
PN 5006	25	13	36	1,3	2	140	97
PN 5006 D							
PN 5007	25	13	39	1,3	5	140	97
PN 5007 D							
PN 5008	25	13	39	1,3	5	140	97
PN 5008 D							
PN 5025	23	13	32	2	2	138	95
PN 5025 D							
PN 5025 Z	23	13	32	2	2	138	95
PN 5025 ZD							



PREFORMING WITH CURL

Professional tool specially designed to cut and preform components in a single operation.
Variable length by means of an adjustable stop.

PNR5000D black dissipative ESD handles ($10^6-10^9\Omega$)
Max. diam.: copper lead 1mm/18AWG
a
a_{min} = 3
a_{max} = 16
1.5

PREFORMING TO220

Professional tool specially designed to preform with central lead out of 3.81mm.

PN5050/17D black dissipative ESD handles ($10^6-10^9\Omega$)
3.81

PREFORMING AT 90°

Professional tool specially designed to preform components at 90°.

PN5040/7D black dissipative ESD handles ($10^6-10^9\Omega$)
a_{min} = 2.5mm
a
Max. diam.: copper lead 1mm/18AWG

SHEARS

An easy-handly shear, designed for the electronic.

Copper wire: max.diameter 1.63mm(14AWG)

CS 30 PVC handles
CS 30 D black dissipative ESD handles ($10^6-10^9\Omega$)

Free cap rotation



SLOT



PHILLIPS



Chrome-Molybdenum-Vanadium alloy, with a black tip

PRECISION SCREWDRIVERS

PVC	Dissipative	Dimensions
PG1-0	PG1-0-D	1,2x60
PG1-1	PG1-1-D	1,5x60
PG1-2	PG1-2-D	1,8x60
PG1-3	PG1-3-D	2,5x75
PG1-4	PG1-4-D	3,0x100
PG1-5	PG1-5-D	3,0x150
PG2-0	PG2-0-D	PH000 2,5x60
PG2-1	PG2-1-D	PH00 2,5x60
PG2-1/75	PG2-1/75-D	PH00 2,5x75
PG2-2	PG2-2-D	PH0 3,0x60
PG2-2/75	PG2-2/75-D	PH0 3,0x75
PG2-2/100	PG2-2/100-D	PH0 3,0x100
PG2-2/150	PG2-2/150-D	PH0 3,0x150

TORX



TAMPER RESISTANT



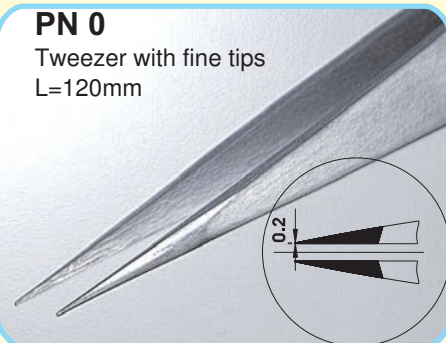
PG4-0X	PG4-0X-D	Tx5x50
PG4-0	PG4-0-D	Tx6x50
PG4-1	PG4-1-D	Tx7x50
PG4-2	PG4-2-D	Tx8x60
PG4-3	PG4-3-D	Tx9x60
PG4-4	PG4-4-D	Tx10x60
PG4-5	PG4-5-D	Tx15x60
PG5-0X	PG5-0X-D	TRx5x50
PG5-0	PG5-0-D	TRx6x50
PG5-1	PG5-1-D	TRx7x50
PG5-2	PG5-2-D	TRx8x60
PG5-3	PG5-3-D	TRx9x60
PG5-4	PG5-4-D	TRx10x60
PG5-5	PG5-5-D	TRx15x60

TWEEZER

Precision tweezers made out of high quality steels, meet with the standards of the electronic industry.
Further models upon request.

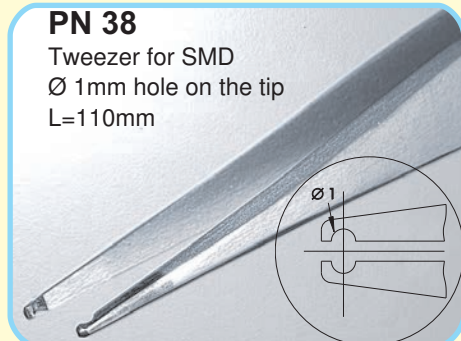
PN 0

Tweezer with fine tips
L=120mm



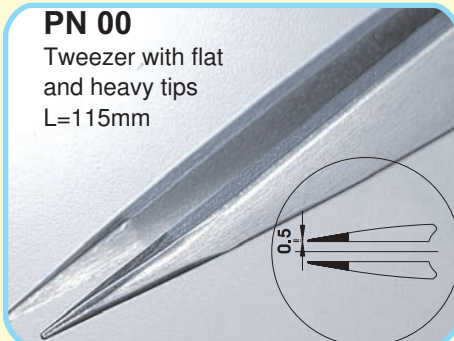
PN 38

Tweezer for SMD
Ø 1mm hole on the tip
L=110mm



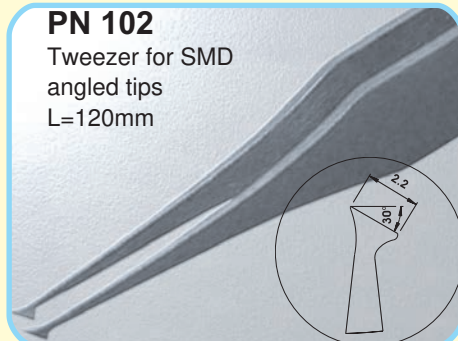
PN 00

Tweezer with flat and heavy tips
L=115mm



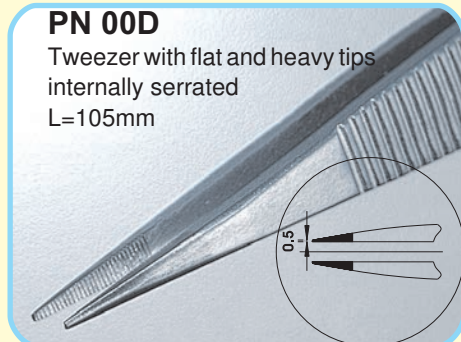
PN 102

Tweezer for SMD angled tips
L=120mm



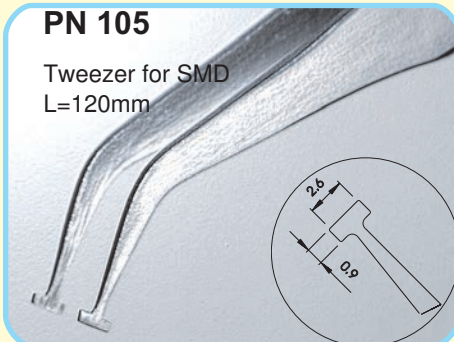
PN 00D

Tweezer with flat and heavy tips internally serrated
L=105mm



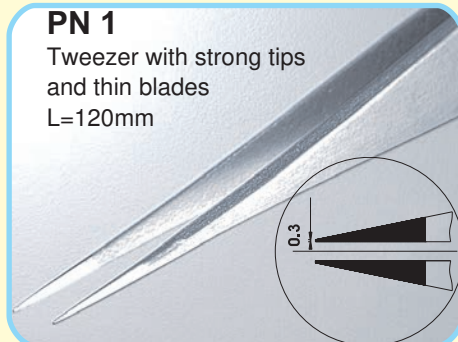
PN 105

Tweezer for SMD
L=120mm



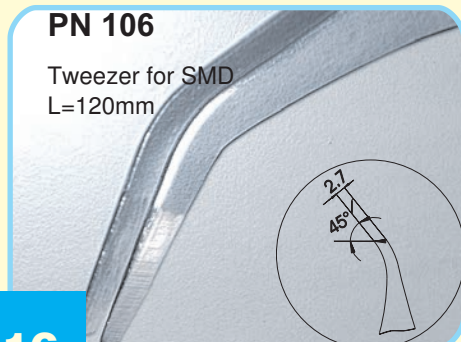
PN 1

Tweezer with strong tips and thin blades
L=120mm



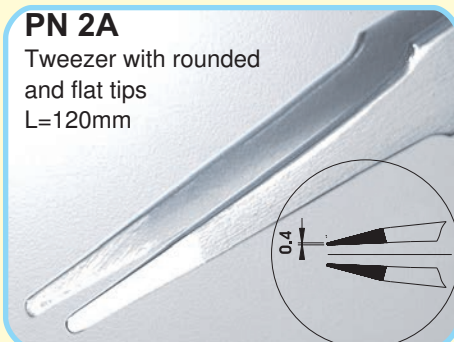
PN 106

Tweezer for SMD
L=120mm



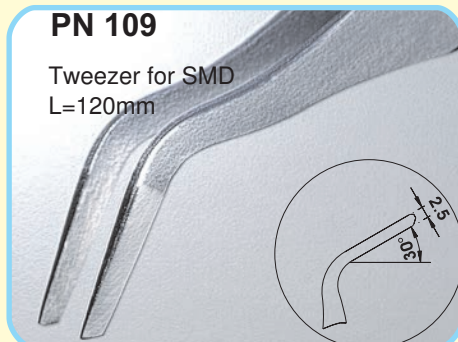
PN 2A

Tweezer with rounded and flat tips
L=120mm



PN 109

Tweezer for SMD
L=120mm



310

308

298

304

306



296

301

302

BRUSHES

Conventional brushes can generate high charges in use, they are therefore unsuitable for cleaning ESD sensitive assemblies. Nonetheless it is necessary to remove solder flux and other dirt particularly in SMD assembly where there are high densities of components.

A range of conductive brushes allows thorough cleaning without the risk of generating static charges. The brush consists of a conductive plastic handle and conductive fibres. Resistance from the tip of the brush to the handle is less than $1 \times 10^6 \Omega$.

Brushes should be used by operators who are earthed. Hard brushes are for scrubbing whilst soft ones are for brushing of delicate items such as optics and diskettes.

7807.296

7807.298

7807.301

7807.302

7807.304

7807.306

7807.308

7807.310

Hard brush 20x70mm (open nail type)

Hard block 40x150mm (closed nail type)

Hard brush 9x32mm

Flat hard brush 12mm

Flat hard brush 25mm

Round hard brush 3mm dia.

Flat soft brush 100mm

Flat soft brush with handle 130mm

HIGH TEMPERATURE ADHESIVE TAPES

Polyimide adhesive tape ideal to protect contacts on the boards during the wave soldering, or other high temperature production processes.

Silicone adhesive protection without leaving a residue

Length	33m
Diameter	75mm
Thickness	0.06mm (2.3mil)
Temperature	260°C maximum

7807.185

7807.186

7807.187

7807.189

7807.190

7807.191

HIGH TEMP. TAPE 6mm x 33m

HIGH TEMP. TAPE 9mm x 33m

HIGH TEMP. TAPE 12mm x 33m

HIGH TEMP. TAPE 19mm x 33m

HIGH TEMP. TAPE 25mm x 33m

HIGH TEMP. TAPE 40mm x 33m

7807.192

7807.193

7807.194

7807.196

HIGH TEMP. TAPE **ESD** 6mm x 33mHIGH TEMP. TAPE **ESD** 9mm x 33mHIGH TEMP. TAPE **ESD** 12mm x 33mHIGH TEMP. TAPE **ESD** 19mm x 33m

SOLDER MASKING PASTE

It is a good quality latex compound, ESD safe, designed to protect parts of the PC boards during the soldering production processes.

Once cured, the paste will not lift or separate during soldering, it is exceptionally cohesive, generally peeling off in one piece. It is also suitable for use as a conformal coating.

Mask can be applied using robotic, pneumatic, hand applicators, brush and template screening.

Curing at normal temperature

40 to 60 min

Curing at 60°C

15 to 25 min

Colour

white

Smell

light ammonia

Resistance Rs & Rv

< $10^{10} \Omega$

Shelf life at 22°C

6 months

7805.915

7805.918

Solder masking paste - 250g squeeze bottle

Solder masking paste - 5kg in plastic



SOLVENT CLEANING

Safe and effective cleaning of electronic and electrical components, screens and stencils, specially designed to remove most flux residues including "no-cleans" after touch-up and rework applications. Safe to use on most plastics and rubber, this solvent dries extremely quickly and leave no residues.

Cleaning:

by immersion or with brush

Composition:

hydrocarbon solvent blend,
aliphatic alcohol and methylal.

Flash point:

-21°C (highly flammable)

7805.929

7805.930

Electronic cleaning solvent - 1litre can

Electronic cleaning solvent - 5litre can



STICKY MAT FOR CLEAN ROOMS

Numbered Multilayer Dissipative Sticky Mats, for progressive removal when dirty. The special adhesiveness ensures collecting of dust and particles of shoe soles and cartwheels by passing over the mat. It should be placed where cleanness is required

7807.350

Multilayer Dissipative Sticky Mat with 30 layers
Dimensions: 660x1140mm



SILICON STICKY ROLLER FOR CONTAMINATION REMOVING



The silicon sticky roller is an hand-held device for cleaning films, panels, work surfaces, walls, glass, and it is useful in cleanroom environments too. It will pick up particles from any flat surface without damaging the surface or leaving anything behind. Once the roller has been applied to the surface it is rolled over a special adhesive pad that removes the debris, leaving the roller ready for the next application.

7913.151
7913.154

Single cleaning roller dim.: 150mm, with small handle
Single cleaning roller dim.: 300mm, with small handle

7913.158
7913.160

Spare cleaning roller dim.: 150mm. no handle
Spare cleaning roller dim.: 300mm. no handle

7913.170

DCR-PAD Block of 50 adhesive paper sheets
dim.: 240x333mm, 5 blocks per pad

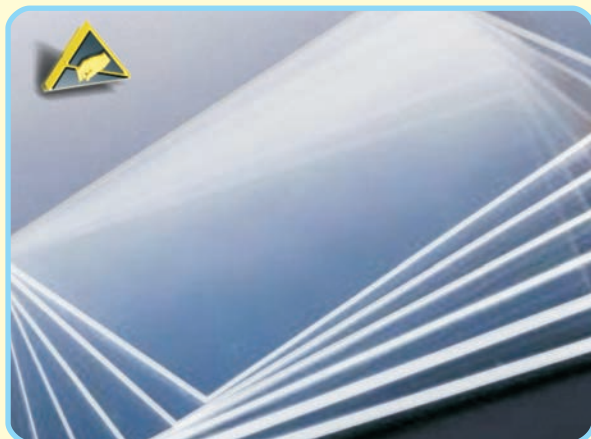
SELF-ADHESIVE POLYESTER FILM

Transparent static dissipative, self adhesive Polyester film. It includes a special abrasion resistant coating on one side and a release film on the other side. It can be applied on flat, insulative surfaces.

Point to point resistance	10 ⁹ Ω
Dissipative Polyester film	100μm thickness
Dissipative acrylic adhesive	12μm thickness
Release Not ESD film	23μm thickness

7809.042

Self-adhesive polyester film 1000mm x 100m roll
Custom size on request



ESD ACRYLIC PANELS

This clear acrylic sheets are surface coated with an extremely thin and highly abrasion resistant dissipative film which keeps the transparency and the working properties of acrylic sheets unvaried. Equipped with a protection film on both sides to avoid damages during transportation and storage.

Material: Acrylic
Permanent dissipative coating
Hardcoated surface, resistant to friction damage
Transparent
Machineable
Rs: 10⁸ a 10¹⁰Ω

Protection hoods



7809.010
7809.012
7809.014
7809.016
7809.018
7809.022

ACRYLIC PANEL - Transparent, Dissipative, 1m x 2m x 3mm
ACRYLIC PANEL - Transparent, Dissipative, 1m x 2m x 5mm
ACRYLIC PANEL - Transparent, Dissipative, 1m x 2m x 6mm
ACRYLIC PANEL - Transparent, Dissipative, 1m x 2m x 8mm
ACRYLIC PANEL - Transparent, Dissipative, 1m x 2m x 10mm
ACRYLIC PANEL - Transparent, Dissipative, 1.2m x 2,4m x 20mm

HAND ESD VACUUM CLEANER

All parts of the fully ESD safe vacuum cleaner are made out of conductive material.

It is compact, light and equipped with a carrying belt for easy handling.

It's Fully EPA compliant to IEC61340-5-1 and equipped with thermal cut-out & RFI/EMC filter.

Model 7913.051 is a "BlowVac" = Blower and vacuum cleaner in one.

Dimensions:	31.5 x 12 x 18.5cm
Weight :	2.2kg
Flexible pipe :	2.5m
Power cord length :	6m
Power supply:	220V – 1300V
Dust capacity:	1.2liter

7913.050	ESD vacuum cleaner
7913.051	ESD vacuum cleaner with electronic speed control
7913.060	Set of 10 special filterbags
7913.062	Micromotorfilter HEPA combined with Electrostatic charged filtermedia.
7913.066	Flexible rubber nozzle, 34cm with removable brush



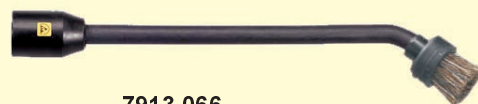
7913.050
WITH STANDARD ACCESSORIES



7913.060



7913.062



7913.066



7804.404

7804.405C

7804.405

7804.406

WASTE PAPER BIN

Waste paper bin made of conductive polypropylene. $R_s < 10^6 \Omega$

7804.406	Waste paper bin, volume 17 litre, ext. dia. 300x330(H)mm
7804.405	Waste paper bin, volume 60 litre, ext. 360x360x500(H)mm
7804.405C	Cover for waste paper bin 7804.405
7804.404	Waste paper bin, volume 120 litre, ext. 400x400x780(H)mm

ANTISTATIC WASTE BAGS (PACKAGE OF 100PCS)

Made of antistatic polyethylene, 40 μ m thickness. $R_s 10^{11} \Omega$
Green colour, printed with black ESD logo

7804.408	30 litre bag (package of 100pcs), to fit 7804.406 bin
7804.409	90 litre bag (package of 100pcs), to fit 7804.405 bin
7804.410	120 litre bag (package of 100pcs), to fit 7804.404

RING BINDER AND WALLETS

Static safe Ring Binders and Document Holders made from permanently antistatic materials, an excellent means of storing documents, specifications and drawings in any static sensitive environment.

7804.413	A4 permanent antistatic Document Pocket with holes (100 pack)
7804.414	A4 Document Pocket with holes (100 pack)
7804.420	A3 Document Pocket with holes, landscape (100 pack)
7804.423	A3 Document Pocket with holes, portrait (100 pack)
7804.400	A4 dissipative Ring Binder - 4 ring 35mm dia., blue



NEWBOX TOTE-BOX

Conductive polypropylene Tote-Boxes, stackable, in EURO format,

Rs < 10⁶ Ω.

CODE	MODEL	EXT.mm	INT.mm	Vol.lt
7804.705	NEWBOX 5	300x200x120	260x160x117	5
7804.706	NEWBOX 6	300x200x147	260x160x144	6
7804.709	NEWBOX 9	300x200x220	260x160x217	9
7804.690	NEWBOX 10	400x300x120	353x260x115	10
7804.687	NEWBOX 14	400x300x170	353x260x165	15
7804.688	NEWBOX 20	400x300x220	353x260x215	20
7804.704	NEWBOX 25	400x300x270	353x260x265	25
7804.689	NEWBOX 31	400x300x320	353x260x317	30
7804.692	NEWBOX 15	600x400x075	553x353x070	14
7804.694	NEWBOX 24	600x400x120	553x353x115	23
7804.693	NEWBOX 33	600x400x150	553x353x145	29
7804.698	NEWBOX 34	600x400x170	553x353x165	33
7804.699	NEWBOX 42	600x400x220	553x353x215	42
7804.696	NEWBOX 50	600x400x236	553x353x231	45
7804.695	NEWBOX 55	600x400x280	553x353x275	54
7804.697	NEWBOX 70	600x400x336	553x353x332	65
7804.685	NEWBOX 80	600x400x420	553x353x415	80
7804.713	NEWBOX 130	800x600x320	756x556x297	130



ROLLBOX



7804.703
7804.691
7804.700
7804.686
7804.923

300 x 200 Conductive Cover
400 x 300 Conductive Cover
600 x 400 Conductive Cover
Snapping Closure (2 /each cover)
SPRING LABEL HOLDER

7804.701
7804.702

Rollbox - 600x400 Conductive Trolley
Rollbox (2 wheels with brake)- 600x400 Conductive Trolley

7806.300
7806.306

10mm Conductive Foam FLAT DIVIDER for 600x400 Newbox
10mm Conductive Foam FLAT DIVIDER for 300x400 Newbox

7806.200

FLAT DIVIDER - Conductive fibreboard 350X550X5mm
for 600x400 Newbox

7806.202

FLAT DIVIDER - Conductive fibreboard 350X250X5mm
for 300x400 Newbox

7806.201

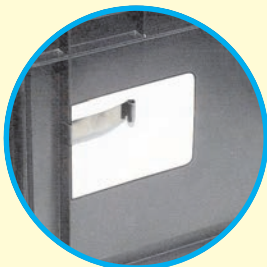
FLAT DIVIDER - Conductive fluted polypropylene LABEPLAST
350x550x2.5mm for 600x400 Newbox

7806.203

FLAT DIVIDER - Conductive fluted polypropylene LABEPLAST
350x250x2.5mm for 300x400 Newbox

7804.923 Label Holder

Logo Application over NEWBOX

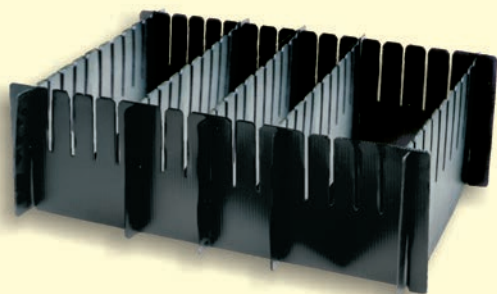


7804.931

Any personalized Logo or specific writings can be applied over the boxes, all colours available.

A plastic transparent film is thermally impressed over the box side.

The result is excellent, long life, at a low cost.



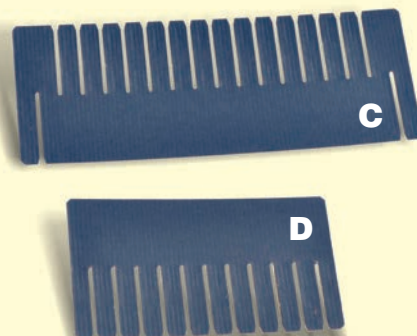
DIVIPRINT - LABEPLAST DIVIDERS

Made from LABEPLAST(extruded conductive polypropylene) sheet, the dividers can be used within CARTONBOX or NEWBOX containers. Other sizes are available on request.

7806.180	LABEPLAST Divider	555 length	100 height	31 pitch , 17 slits
7806.181	LABEPLAST Divider	350 length	100 height	30 pitch , 11 slits
7806.182	LABEPLAST Divider	552 length	155 height	40 pitch , 13 slits
7806.183	LABEPLAST Divider	350 length	155 height	153 pitch , 3 slits
7806.184	LABEPLAST Divider	552 length	182 height	104 pitch , 6 slits
7806.185	LABEPLAST Divider	350 length	182 height	30 pitch , 11 slits
7806.186	LABEPLAST Divider	552 length	200 height	31 pitch , 17 slits
7806.187	LABEPLAST Divider	350 length	200 height	30 pitch , 11 slits
7806.188	LABEPLAST Divider	250 length	200 height	32 pitch , 7 slits
7806.192	LABEPLAST Divider	552 length	300 height	31 pitch , 17 slits
7806.193	LABEPLAST Divider	350 length	300 height	30 pitch , 11 slits

DIVIPRINT - IN CONDUCTIVE CORRUGATED BOARD

7806.211	Type C DIVIDER	length 555 height 100 pitch 19, 28 slots
7806.215	Type D DIVIDER	length 350 height 100 pitch 19, 17 slots
7806.217	Type C DIVIDER	length 552 height 200 pitch 31 17 slots
7806.216	Type D DIVIDER	length 350 height 200 pitch 30, 11 slots
7806.219	Type C DIVIDER	length 552 height 300 pitch 31, 17 slots
7806.218	Type D DIVIDER	length 350 height 300 pitch 30, 11 slots



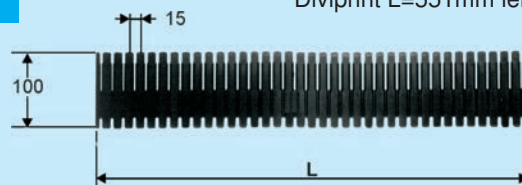
DIVIPRINT - PLASTIC DIVIDERS

Economical and versatile way to compartmentalise tote-boxes of various dimensions. Ideal for board transport and storage. Made from conductive polystyrene, DIVIPRINT dividers have one division every 15mm, are easy to cut and modify using ordinary scissors.

Material: black conductive polypropylene
 Rs: $<10^5 \Omega$
 Temperature range: from 0 to +55 °C
 Slit pitch : 15mm

7806.412
 7806.410
 7806.400

Diviprint L=255mm length
 Diviprint L=351mm length
 Diviprint L=551mm length



NEWBOX CASE

A complete range of conductive cases, ideal for PCB storage in transit, tool boxes or instrumentation, for use in the field service environment, $R_s < 10^6 \Omega$.

8500.510	- PC10	ext.400x300x133mm	1 handle on long side
8500.512	- PC20	ext.400x300x233mm	1 handle on long side
8500.514	- PC31	ext.400x300x333mm	1 handle on long side
8500.516	- PC15	ext.600x400x88 mm	1 handle on long side
8500.518	- PC24	ext.600x400x133mm	1 handle on long side
8500.522	- PC50	ext.600x400x249mm	2 handles on short side
8500.524	- PC55	ext.600x400x293mm	2 handles on short side
8500.526	- PC70	ext.600x400x349mm	2 handles on short side





LABERACK PCB5 HANDLING

LABERACK is an adjustable frames that provides a secure method for storage and handling of mounted PCBs or LABEFIX trays.

Material: Static dissipative polypropylene, Rs $10^6 \div 10^8 \Omega$
 Sidewall dimensions: 480 x 290 x 35 mm
 Intermediate wall dimensions: 470 x 280 x 40 mm
 Connecting rail: section: 30 x 15 mm
 Number of storage channels: 79
 Distance between channel centres: 5 mm
 Maximum PCB thickness: 2.3 mm max
 Channel depth: 4 mm
 Stainless-steel stiffening rib
 Bolts and screws included with sidewalls and intermediate walls.

To give the exact length of connecting rail add to the board width 20 mm for each sidewall and 6 mm for intermediate wall

7804.007

7804.017

7804.002

7804.021

7804.025

7804.040

7804.041

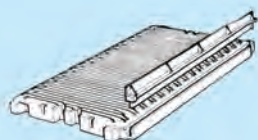
Sidewall in black dissipative polypropylene +70°C
 Intermediate wall in black dissipative polypropylene +70°C
 Aluminium connecting rail (length cut to max 3m)
 Handle for transport (rail fixing)
 Bag of 40 spare screw and bolts
 Clips for sidewall (with labels) - package of 100

Clips for intermediate wall (with labels) - package of 100

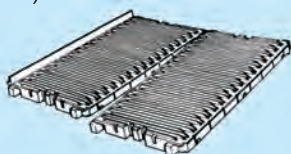
MINILABERACK

Safe storage and transport system for PCBs from assembly through testing. Easy snap-together modular system to increase storage capacity. The racks are made from black static dissipative polypropylene

Material: Static dissipative polypropylene, Rs $10^5 \div 10^8 \Omega$
 Distance between channel centres: 6mm
 Maximum PCB thickness: 3.8mm
 Channel depth: 3mm
 Number of storage channels: 44
 Side wall: dimensions: 300 x 170 x 21 mm
 Connecting rail: section: 37 x 9 mm
 Connecting rails cut to length (max 3 m)



Snap-on insertion
of back-stop



Snap-on insertion
for sidewall

7804.052

7804.060

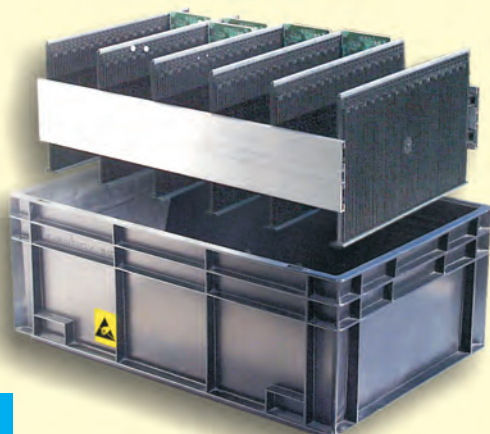
7804.072

7804.075

Sidewall black dissipative
 Aluminium connecting rail
 Flat slide black conductive
 Bag of 40 spare nuts and bolts)



To give the exact length of connecting rail add to the board width 18mm for each sidewall



DEPOPRINT

Made from black conductive polystyrene, the DEPOPRINT system accommodates various board dimensions throughout storage, production and despatch. Fits plastic containers type Newbox or other 300x400 and 600x400mm standard Euro boxes. Two different sidewall sizes that slide along two parallel aluminium connecting rails 95mm high (length cut to max 3m).

Material: black conductive polystyrene
 Rs: $<10^5 \Omega$
 Temperature range: from 0 to +55 °C
 Number of slots: 32
 Distance between slot centres: 10mm
 Maximum thickness of the board: 2.3mm
 Depth of the slots: 2.3mm

7804.751

7804.760

7804.762

7804.765

7804.759

7804.773

DEPOPRINT Sidewall 209mm (H)
 Aluminium Connecting Rail 95x553mm
 Aluminium Connecting Rail 95x250mm
 Aluminium Connecting Rail 95mm (H)
 Insertion Stop
 Hexagonal spanner for assembling sidewall

LABESERT 10

Made in conductive polypropylene, LABESERT racks are suitable for automatic PCB insertion machines. Channel pitch: 10mm

7804.110

PCB adjustment:
Side Guide Slot:

LABESERT 10 Rack

dim. 315x355x575(H)mm

Walls and terminal plates made by conductive plastic (60°C)

from 40 to 260mm

depth 3.5mm - width 7mm



LABEFIX PCB ASSEMBLY

LABEFIX trays are used for component insertion before wave soldering of the PCBs. A special foam gently holds the leads until the PCB is removed for wave soldering. The foam doesn't crumble, or pollute and has a very long life

Material:

- zinc plated material base
- conduttivo polyethylene closed cell
(cross linked foam density ISO 845
60Kg/m³ thickness 7mm)
1Kg

Weight:

7610.100

Standard tray 530x330x8mm with foam
(other dimensions on request)

7610.110D

Only foam 500x327x7mm

PCB ASSEMBLY FIXTURES

A professional line of assembly jigs for PCB's, designed to simplify placing and soldering of electronic components.

PCSA1,2,4 are supplied with central and two sliding rails as standards.

Additional rails may be added to accommodate a larger number of small boards.

The frame and lid assembly may be detached from the mounting base.

After mounting the components on the PCB's, the foam back lid is attached and closed, and the whole assembly is lifted and rotated for soldering.

An ingenious design of the base permit an adjustable working angle on both side of the PCB's.

The jig is varnished steel, and the component pressing foam is in conductive material.

7915.599

PCSA1 PCB's holder, max. working dimensions 270 x 220mm

7915.601

PCSA2 PCB's holder, max. working dimensions 500 x 220mm

7915.605

PCSA4 PCB's holder, max. working dimensions 500 x 350mm

7915.610

Additional sliding rail for PCSA1

7915.612

Additional sliding rail for PCSA2 and PCSA4

LABETRAY PCB HOLDERS

Made from black conductive polypropylene, LABETRAY have multiple uses in the static free environment, as holding the PCBs during assembly, testing and rework.

7804.130

Conductive L-shaped LABETRAY
dimensions : 208x272x93mm

7804.132

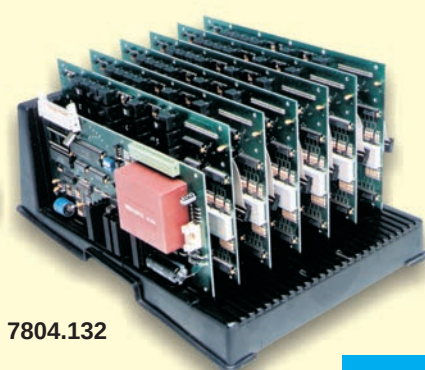
Conductive L-shaped LABETRAY
dimensions : 355x268x128mm

7804.134

Conductive flat LABETRAY - 25 slots
dimensions : 490x180x50mm



7804.134



7804.132

SMD SPOOL RACKS



7805.692

7805.692

LICEFA rack for 25 spools max.dia. 220mm
external dimensions 450 x 240mm
25 slots with adjustable width
ESD vacuum formed, black colour



7805.704

7805.696

LICEFA rack for 25 spools max.dia. 330mm
external dimensions 450 x 310mm
25 slots with adjustable width
ESD vacuum formed, black colour

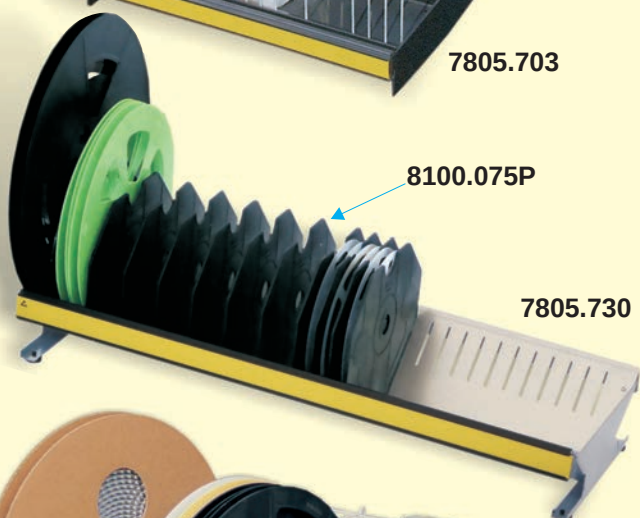
7805.703

7805.703

ITECO rack for spools dia. 180-330mm
external dimensions 395 x 250 x 110(H)mm
Movable wire dividers (10 pcs included, 20 pcs capacity)
moulded in conductive polypropylene black colour

7805.704

Movable wire divider for 7805.703



8100.075P

7805.730

Zinc plated spool rack, with movable dividers, to lay over tables
or inside lockers.
It can house reels from 180 to 380mm diameter

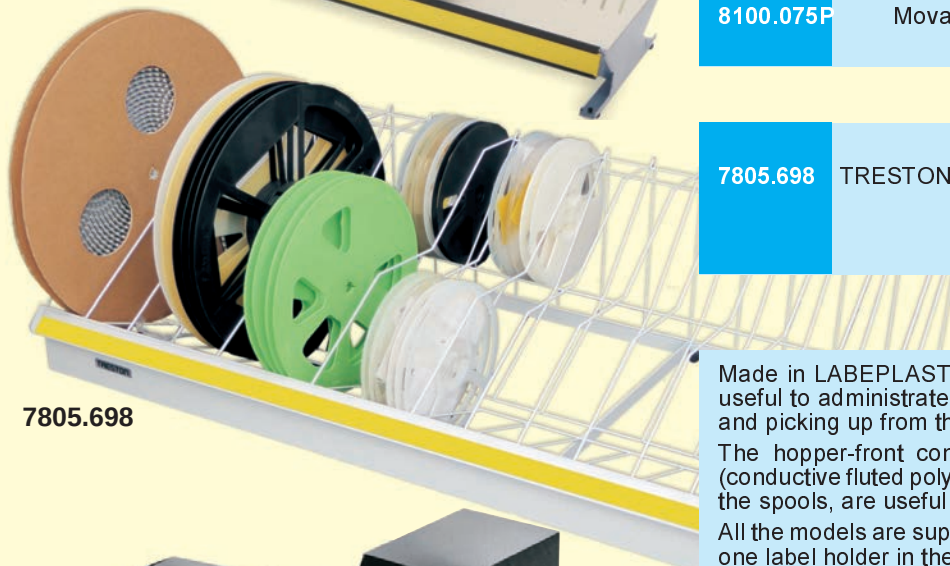
7805.730

Zinc plated spool rack,
180-330mm reels, 29 slots, length 630mm

7805.732

Zinc plated spool rack,
180-330mm reels, 49 slots, length 1000mm
Movable plastic divider for 7805.730 - 7805.732

8100.075P



7805.698

7805.698

TRESTON rack for spools Ø 180 / 220 / 330 / 380mm

Dim.960x426x254(H)mm
15 wire compartments of 60mm width

Made in LABEPLAST the F.I.F.O.(First-In First-Out) boxes are
useful to administrate the smd spools, loading in the higher slot
and picking up from the lower.

The hopper-front conductive boxes, made from LABEPLAST
(conductive fluted polypropylene), for a quick and easy removal of
the spools, are useful to save space on shelving units.

All the models are supplied in flat-pack form for assembly on-site,
one label holder in the front side is provided.

7805.711 FIFO box for 180mm dia. spools, useful height 160mm

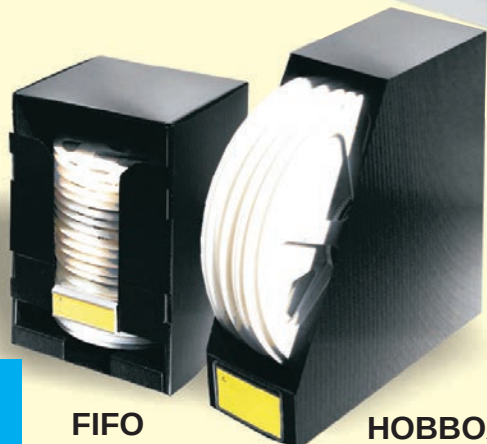
7805.710 FIFO box for 180mm dia. spools, useful height 280mm

7805.712 FIFO box for 330mm dia. spools, useful height 280mm

7805.724 HOBBOX - Hopper front box made from LABEPLAST
for 180mm dia. SMD spools, useful width 128mm

7805.725 HOBBOX - Hopper front box made from LABEPLAST
for 220mm dia. SMD spools, useful width 128mm

7805.728 HOBBOX - Hopper front box made from LABEPLAST
for 330mm dia. SMD spools, useful width 128mm



FIFO

HOBBOX

CONDUCTIVE BOXES

Made of black conductive polypropylene, $R_s < 10^6 \Omega$.

7804.460
7804.462
7804.464
7804.466
7804.468
7804.470

BJ removable lid, 1 hard foam, ins. 34x34x12mm
BJ removable lid, 1 hard foam, ins. 25x54x14mm
BJ removable lid, 1 hard foam, ins. 44x56x14mm
BJ removable lid, 1 hard foam, ins. 32x118x14mm
BJ removable lid, 1 hard foam, ins. 44x118x14mm
BJ removable lid, 1 hard foam, ins. 67x117x14mm

7804.471
7804.472
7804.474
7804.476
7804.478
7804.480
7804.482

BJ hinged lid, 1hard foam, ins. 34x34x10mm
BJ hinged lid, 1hard foam, ins. 73x51x16mm
BJ hinged lid, 1hard foam, ins. 88x63x16mm
BJ hinged lid, 1hard foam, ins. 108x81x16mm
BJ hinged lid, 1hard foam, ins. 228x125x20mm
BJ hinged lid, 1hard foam, ins. 228x125x30mm
BJ hinged lid, 1hard foam, ins. 228x125x39mm

7805.502
7805.504
7805.508

Removable lid, without foam ins. 50x30x16mm
Removable lid, without foam ins. 57x36x17mm
Removable lid, without foam ins. 80x50x27mm

7804.492
7804.496

MOS1 hinged lid, 1 hard foam, ins. 50x90x16mm
MOS2 hinged lid, 1 hard foam, ins. 95x160x16mm

7805.500
7805.499

Round with cover ins.diam. 27x13mm, black ESD
Round with cover ins.diam. 27x13mm, transparent ESD



7804.496

7804.492

CONDUCTIVE BOXES

WITH HINGES AND METAL FASTENERS



7805.522

int.288x156x16mm

7805.523

int.288x156x38mm

7805.525

with 54 compartments
each 28x27x15mm

CASES



A complete range of briefcases made from conductive polypropylene.
 $R_s < 10^6 \Omega$

8500.200

internal dimensions 170x130x37mm

8500.210

internal dimensions 240x170x42mm

8500.220

internal dimensions 270x185x76mm

8500.240

internal dimensions 375x265x80mm

8500.201

with conductive profiled foam int. 170x130x20(about)mm

8500.211

with conductive profiled foam int. 240x170x25(about)mm

8500.221

with conductive profiled foam int. 270x185x50(about)mm

8500.241

with conductive profiled foam int. 375x265x60(about)mm



CAROUSEL SYSTEM

The basic CAROUSEL system consists of four rotating trays stacked on the top of each other and secured to a stable metal base by a central column. The whole unit can be tilted through 20°.

They can be supplied with diameter 450 or 600mm and are available in black dissipative material ($R_{\text{sup}} 10^6\text{-}10^9\Omega$), or orange non antistatic version.

Two different sizes are available: 450mm and 600mm



Standards models have 4 trays, but it is easy to assembly carousels with different heights by means of single trays and of the assembly kit.

It is possible to mix different diameter trays on the same kit, because the central hanging part is the same.

7804.615	Carousel system, 4 trays 450mm dia. Black-ESD
7804.620	Carousel system, 4 trays 600mm dia. Black-ESD
7804.616	Carousel system, 4 trays 450mm dia. Orange-non ESD
7804.621	Carousel system, 4 trays 600mm dia. Orange-non ESD

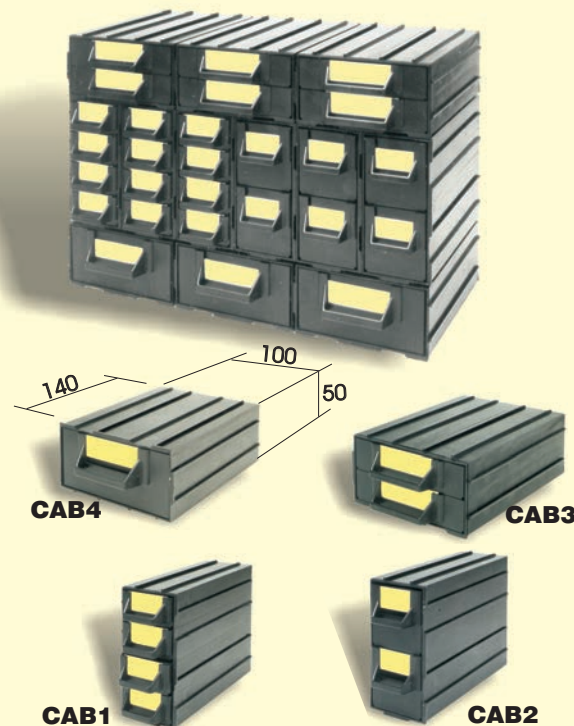
CAB - CABINETS

These cabinets provide systematic storage of small parts of components which are ESD sensitive.

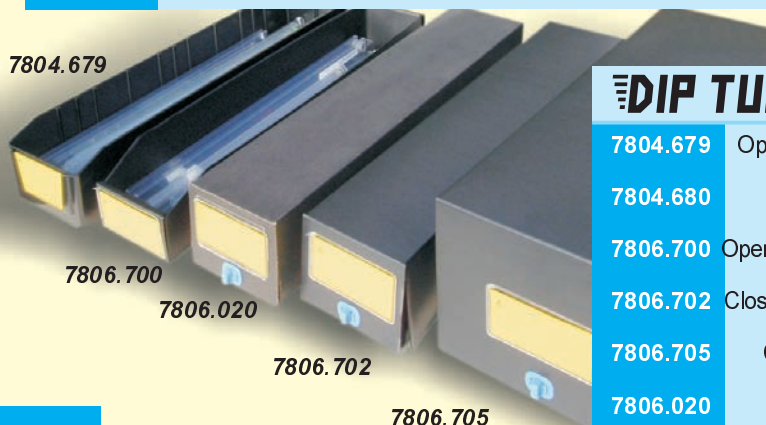
Four different bins are combined into one slot-in unit, to make possible various configurations.

External dimension of the unit is 50x100x140mm.

7804.625	CAB1 with 4 bins (4 x int.40x20x120mm) Combinable with CAB2
7804.626	CAB2 with 2 bins (2 x int.40x42x120mm) Combinable with CAB1
7804.627	CAB3 with 2 bins (2 x int.87x20x120mm) Combinable with CAB4
7804.628	CAB4 with 1 bin (1 x int.87x42x120mm) Combinable with CAB3
7804.629	Complete cabinet with 27 bins (see picture) (12 CAB1 + 6 CAB2 + 6 CAB3 + 3 CAB4)



7804.679



7806.700

7806.020

7806.702

7806.705

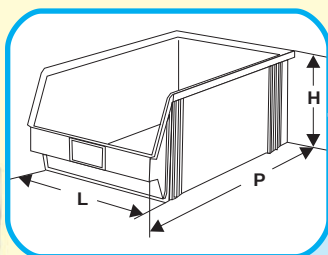
DIP TUBES BIN BOXES

7804.679	Open stick-container, very strong, conductive polystyrene moulded, ext. 625x140x90(H)mm int. 610x130x85(H)mm Control divider for 7804.679, zinc plated material
7804.680	
7806.700	Open stick-container made from LABEPLAST, supplied in flat-pack form ext. 620x112x90(H)mm int. 600x106x87(H)mm
7806.702	Closed stick-container made from LABEPLAST, supplied in flat-pack form ext. 630x125x100(H)mm int. 620x120x95(H)mm
7806.705	Closed stick-container with divider, made from LABEPLAST, supplied in flat-pack form, ext. 630x230x170(H)mm
7806.020	Closed stick-container made from conductive fibre board, supplied in flat-pack form, for assembly on-site ext. 630x120x100(H)mm int. 620x110x88(H)mm

TECOFIX - STACKING BINS

Conductive polypropylene hopper-front containers for storage and distribution of small parts. They are suitable for all known wall rail and for our VISTAFIX assembly stand.

7804.715	Container TECOFIX 6	95(P)x100(L)x50(H)mm ext.
7804.717	Container TECOFIX 6D	95x100x50(H)mm ext. with internal partition
7804.719	Container TECOFIX 5	175x100x75(H)mm ext.
7804.721	Container TECOFIX 4	235x145x125(H)mm ext.
7804.723	Container TECOFIX 3Z	350x200x145(H)mm ext.
7804.725	Container TECOFIX 3	350x200x200(H)mm ext.
7804.727	Container TECOFIX 2	500x300x200(H)mm ext.
7804.728	Yellow label for TECOFIX 6, 6D	79.5 x 15mm
7804.731	Yellow label for TECOFIX 5	79 x 22mm
7804.729	Yellow label for TECOFIX 4, 3Z	80 x 31mm
7804.730	Yellow label for TECOFIX 3, 2	81 x 40mm



FUTURA - STACKING BINS

- ergonomic shape
- stronger than TECOFIX
- stackable
- hungable on most types of rails and louvred panels (FUTURA 5-4)
- conductive polypropylene
- $R_s < 10^6 \Omega$
- dimensions compatible with the TECOFIX models

7804.745	Container FUTURA 5,	ext. 165(P)x100(L)x75(H)mm
7804.746	Container FUTURA 4,	ext. 235x147x125(H)mm
7804.747	Container FUTURA 3Z,	ext. 360x210x145(H)mm

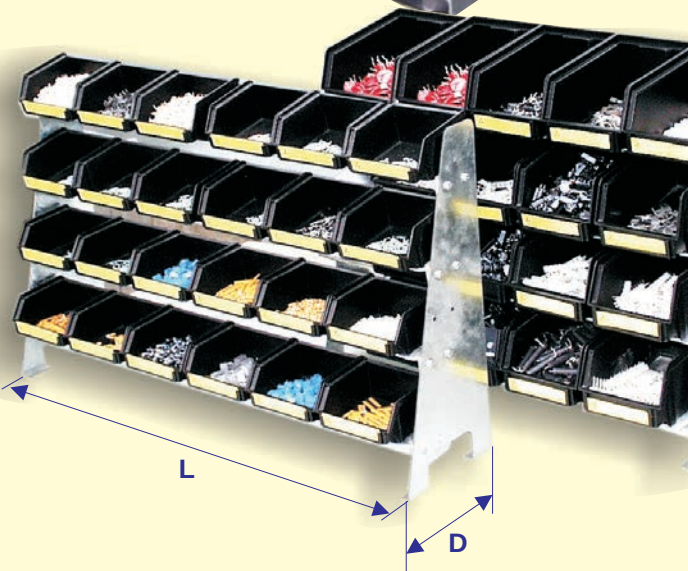
9993.956	Yellow label for FUTURA 5	15x54mm
9993.975	Yellow label for FUTURA 4	25x74mm
9993.962	Yellow label for FUTURA 3Z	31x96mm

VISTAFIX - ASSEMBLY STAND

VISTAFIX zinc plated assembly stands are supplied complete of conductive TECOFIX bins.

They are especially suited for PCBs assembly and take a little space on the work table.

7804.735	Assembly VISTAFIX 4	12 bins size 4 L = 630mm, D = 260mm, H = 490mm
7804.737	Assembly VISTAFIX 5	20 bins size 5 L = 540mm, D = 230mm, H = 430mm
7804.738	Assembly VISTAFIX 5/L	24 bins size 5 L = 650mm, D = 230mm, H = 430mm
7804.739	Assembly VISTAFIX 6	20 bins size 6 L = 540mm, D = 160mm, H = 400mm
7804.740	Assembly VISTAFIX 6/L	24 bins size 6 L = 650mm, D = 160mm, H = 400mm
7804.741	Assembly VISTAFIX 6D	20 bins size 6D L = 540mm, D = 160mm, H = 400mm

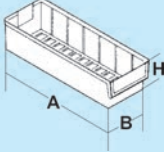
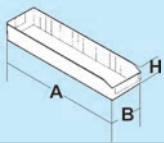


TRESTON BINS



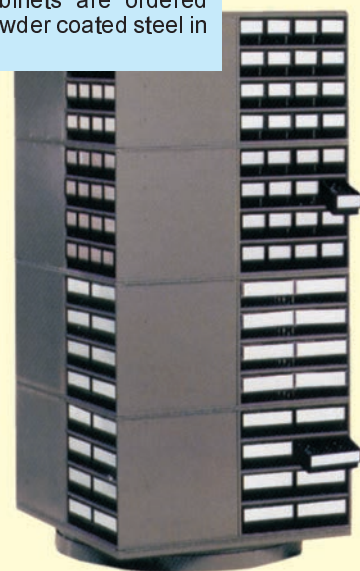
TRESTON bins made from conductive polypropylene fit all standard shelves with a depth 300,400, 500 and 600mm, some models are also used in the visible storage cabinets.

The storage bins have a corrugated base making it easier to pick very small items.

Bin		Bottom	Outer dim. mm A x B x H	Inner dim. mm A x B x H	Dividers (optional)		
Code	Type				Code	Type	Quantity per bin
7804.676	3010	 Corrugated	300x92x82	257x75x70	7804.682	D-10	4
7804.678	3020		300x186x82	257x167x70	7804.684	D-20	4
7804.675	4010		400x92x82	357x75x70	7804.682	D-10	6
7804.677	4020		400x186x82	357x167x70	7804.684	D-20	6
7804.665	4015		400x132x100	357x110x90	7804.683	D-15	6
7804.666	5010		500x92x82	457x75x70	7804.682	D-10	8
7804.668	5020		500x186x82	457x167x70	7804.684	D-20	8
7804.667	5015		500x132x100	457x110x90	7804.683	D-15	8
7804.671	6020		600x186x82	557x167x70	7804.684	D-20	10
7804.669	6015		600x132x100	557x110x90	7804.683	D-15	10
7804.660	L61	 Smooth	170x68x36	150x65x34	7804.662	V-1	5
7804.661	L64		170x90x59	150x86x55	7804.664	V-4	3
7804.679	1562		625x140x90	613x134x84	7804.681	V-15	11
					(corto) 7804.680 (lungo)	V-60	1

TRESTON STORAGE CARTS AND TURNTABLE ASSEMBLIES

Turntables and carts are supplied empty, the cabinets are ordered separately. Steel parts are of semiconductive epoxy powder coated steel in light gray colour.



7804.651
(BT-550)

Double stand trolley
holds 8 cabinets 551/554
dim.600x760x1700(H)mm
load capacity max. 150kg

7804.648
(12-550)

Turntable 3 layers
holds 12 cabinets 551/554
dim.500x500x1730(H)mm
load capacity max. 400kg

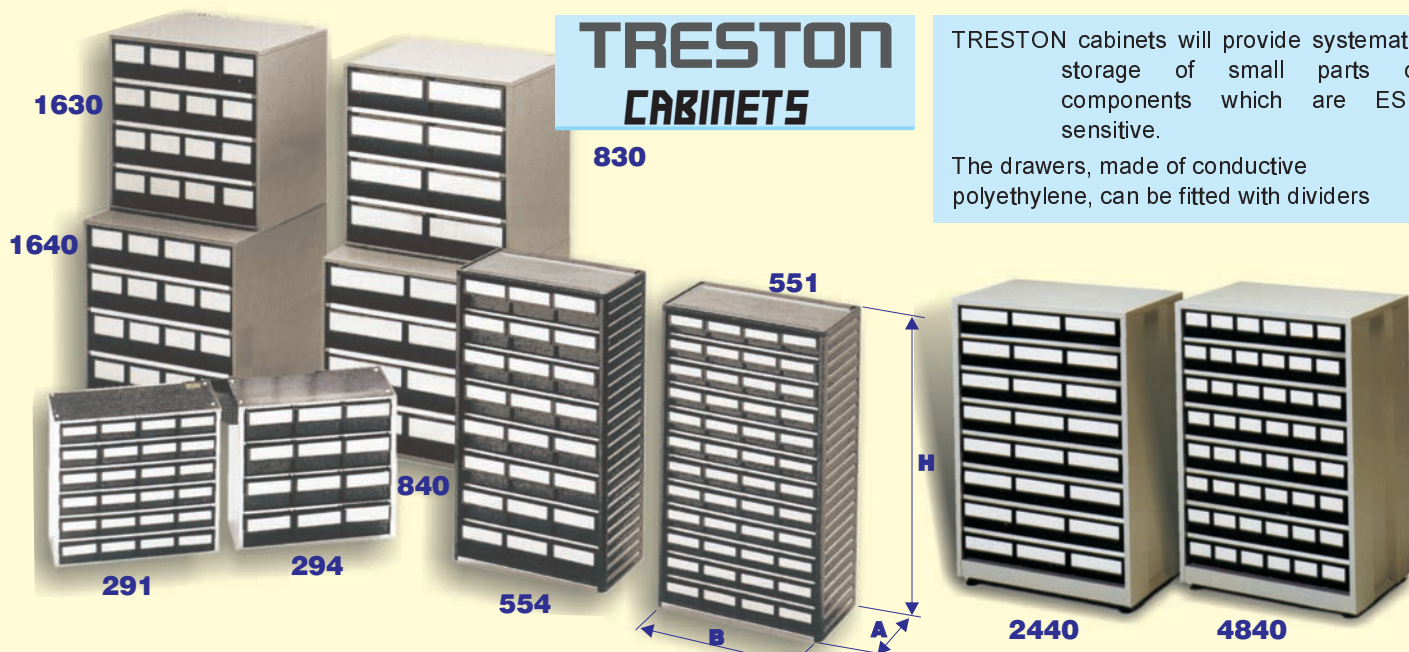
7804.649
(16-300)
7804.650
(16-400)

Turntable 4 layers
load capacity max. 800kg
holds 16 cabinets 0830/1630
dim.700x700x1680(H)mm
holds 16 cabinets 0840/1640
dim.800x800x1680(H)mm

TRESTON CABINETS

TRESTON cabinets will provide systematic storage of small parts or components which are ESD sensitive.

The drawers, made of conductive polyethylene, can be fitted with dividers



Code	Type	Frame	Outer dim. A x B x H mm	Conductive polypropylene bins	Dividers (optional)	
					Code	Type
7804.636	291	Moulded conductive polypropylene	180x300x280	24 x L61	7804.662	V-1
7804.638	294	Moulded conductive polypropylene	180x300x280	12 x L64	7804.664	V-4
7804.640	551	Moulded conductive polypropylene	180x310x550	48 x L61	7804.662	V-1
7804.642	554	Moulded conductive polypropylene	180x310x550	24 x L64	7804.664	V-4
7804.643	0830	Epoxy powder coated steel	300x400x395	8 x 3020	7804.684	D-20
7804.644	1630	Epoxy powder coated steel	300x400x395	16 x 3010	7804.682	D-10
7804.645	0840	Epoxy powder coated steel	400x400x395	8 x 4020	7804.684	D-20
7804.646	1640	Epoxy powder coated steel	400x400x395	16 x 4010	7804.682	D-10
7804.652	2440	Epoxy powder coated steel	410x605x870	24 x 4020	7804.684	D-20
7804.654	4840	Epoxy powder coated steel	410x605x870	48 x 4010	7804.682	D-10

TRESTON MOVEABLE BENCHES



8104.074 ESD Castor set for cabinets 2440 / 4840.
4 castors Ø 100mm, 2 with brakes
Load capacity 150kg



8104.735 ESD Moveable bench
H: 690-990mm Worktop 500x700mm
4 castors Ø 100mm, 2 with brakes
Load capacity 75kg



8104.730 (SAP507) ESD Moveable bench
H: 650-900mm Worktop 500x700mm
4 castors Ø 100mm, 2 with brakes, max. 150kg

8104.731 (SAP710) ESD Moveable bench
H: 650-900mm
Worktop 700x1000mm

STORAGE CABINETS

LICEFA Cabinets, made of conductive polypropylene, will provide systematic storage of loose SMD components and other small parts. Drawers can be fitted with Vacuum-formed inserts or with cups to give more compartments.

The cabinets, four different sizes, are normally supplied with the following assemblies: mod. 20 /6 drawers, mod. 22 /9 drawers, mod. 40 /6 drawers, mod. 62 /4 drawers.

To assemble cabinets with another number of drawers, it is needed one rim-frame for each drawer and one base-foundation for each cabinet. Transparent adhesive labels with exchangeable yellow paper are available in three different size.



7805.210	Storage cabinet with 6 drawers ext.275 x 250 x 190(H)mm	MOD. 20 (drawer int. height 20mm)
7805.221	Drawer, internal 261 x 238 x 20mm	
7805.230	Rim-frame, MOD.20	
7805.236	Base-foundation (1 each cabinet), MOD.20	
7805.150	Storage cabinet with 9 drawers ext.267 x 355 x 305(H)mm	MOD. 22 (drawer int. height 22mm)
7805.153	Storage cabinet with 3 drawers ext.267 x 355 x 105(H)mm	MOD. 22 (drawer int. height 22mm)
7805.160	Drawer, internal 340 x 250 x 22mm	
7805.170	Rim-frame, MOD.22	
7805.305	Storage cabinet with 6 drawers ext. 267 x 355 x 305(H)mm	MOD. 40 (drawer int. height 40mm)
7805.310	Drawer, internal 340 x 250 x 40mm	
7805.330	Rim-frame, MOD.40	
7805.405	Storage cabinet with 4 drawers ext. 267 x 355 x 310(H)mm	MOD. 62 (drawer int. height 62mm)
7805.410	Drawer, internal 340 x 250 x 62mm	
7805.430	Rim-frame, MOD.62	
7805.340	Base external 355 x 267mm (1 each cabinet)	MOD. 22 / 40 / 62
7805.350	Set of 6 inserts for closing the holes on the top-frame	MOD. 22 / 40 / 62
7805.240	Label holder with exchangeable yellow label 15 x 55mm	MOD. 20 / 22
7805.360	Label holder with exchangeable yellow label 15 x 94mm	MOD. 40
7805.358	Label holder with exchangeable yellow label 31 x 94mm	MOD. 62
7805.308	Cabinet Holder for transport in iron wire	MOD. 22 / 40 / 62



7808.686



7808.688

7808.686
Storage cabinet with 3 drawers H22
Black ESD
With 432 SNAPBOX1 (3 x 144)
ESD transparent cover

SNAPBOXSET

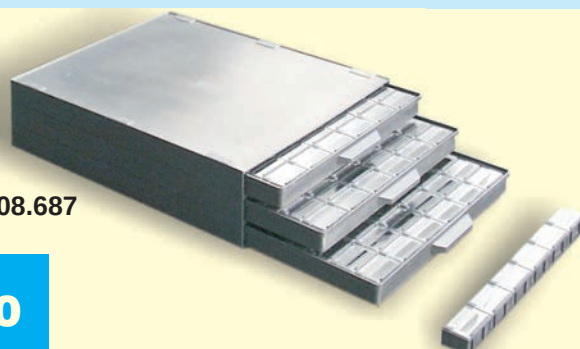


Snapbox >>> go to page 32

7808.688
Storage cabinet with 3 drawers H22
Black ESD
With 108 SNAPBOX3 (3 x 36)
ESD transparent cover

7808.687
Storage cabinet with 3 drawers H22
Black ESD
With 216 SNAPBOX2 (3 x 72)
ESD transparent cover

7808.689
Storage cabinet with 3 drawers H22
Black ESD
With 48 SNAPBOX4 (3 x 16)
ESD transparent cover

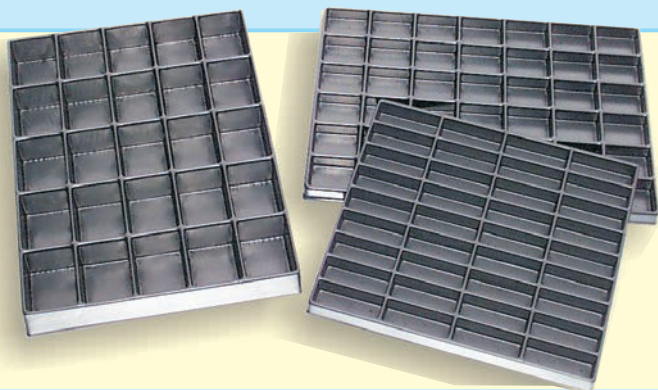


7808.687



7808.689

STORAGE CABINETS



Inserts for drawers 20mm height (storage cabinet mod. 20)

7805.252	16 compartments 61x56 mm
7805.254	18 compartments 82x36 mm
7805.256	24 compartments 40x55 mm
7805.258	36 compartments 60x23 mm
7805.260	42 compartments 34x36 mm
7805.262	42 round compartments Ø 27 mm

	61	61	61	61
56				
56				
56				
56				

7805.252

	82	82	82
36			
36			
36			
36			
36			

7805.254

	40	40	40	40	40
55					
55					
55					
55					

7805.256

	60	60	60	60
=				
=				
23				
=				
=				
=				

7805.258

	=	=	34	=	=
36					
36					
36					
36					
36					

7805.260

	Φ 27mm			
	○	○	○	○
	○	○	○	○
	○	○	○	○
	○	○	○	○
	○	○	○	○

7805.262

Inserts for drawers 22mm height (storage cabinet mod. 22)

7805.180	16 compartments 56x78 mm
7805.184	25 compartments 44x62 mm
7805.188	42 compartments 36x42 mm
7805.179	12 compartments 75x77 mm

	56	56	56	56
78				
78				
78				
78				

7805.180

	44	44	44	44
62				
62				
62				
62				
62				

7805.184

	36	36	36	36	36
42					
42					
42					
42					
42					

7805.188

	75	75	75
77			
77			
77			
77			

7805.179

Inserts for drawers 40mm height (storage cabinet mod. 40)

They also can be used in drawers 62mm height

7805.362	3 compartments 80x332 mm
7805.364	6 compartments 80x165 mm
7805.366	9 compartments 78x108 mm
7805.368	12 compartments 78x78 mm
7805.370	16 compartments 57x81 mm
7805.372	19 compartments 50x44 mm
	+ 1 compartment 92x50 mm
	+ 1 compartment 188x50 mm
	+ 1 compartment 237x50 mm
7805.374	25 compartments 46x63 mm
7805.376	30 compartments 44x50 mm

	80	80	80
332			

7805.362

	80	80	80
165			
165			

7805.364

	78	78	78
108			
108			
108			

7805.366

	78	78	78
78			
78			
78			
78			

7805.368

	57	57	57	57
81				
81				
81				
81				

7805.370

	44
50	
50	
50	
50	92
50	188
50	237

7805.372

	=	=	46	=	=
63					
63					
63					
63					

7805.374

	=	=	44	=	=
50					
50					
50					
50					
50					

7805.376

Inserts for drawers 62mm height (storage cabinet mod. 62)

7805.440	4 compartments 116x160 mm
7805.442	6 compartments 75x160 mm
7805.444	9 compartments 75x105 mm
7805.445	12 compartments 71x75 mm

	116	116
160		
160		

7805.440

	75	75	75
160			
160			

7805.442

	75	75	75
105			
105			
105			

7805.444

	71	71	71
75			
75			
75			
75			

7805.445

CUPS

Standard Cups for drawers 40mm height (storage cabinet mod. 40)

7805.471	Cup 62 x 56 x 36 mm black conductive	24 cups for drawer
7805.474	Cup 110 x 42 x 36 mm black conductive	18 cups for drawer
7805.473	Cup 112 x 62 x 33 mm black conductive	12 cups for drawer
7805.480	Cup 125 x 113 x 33 mm black conductive	6 cups for drawer

Standard cups for drawers 62mm height (storage cabinet mod. 62)

7805.477	Cup 59 x 23 x 60 mm black conductive	58 cups for drawer
7805.472	Cup 56 x 50 x 55 mm black conductive	30 cups for drawer
7805.478	Cup 113 x 50 x 55 mm black conductive	15 cups for drawer
7805.482	Cup 125 x 113 x 55 mm black conductive	6 cups for drawer



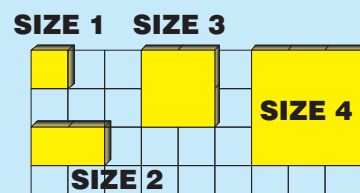


SNAPBOX

Boxes for SMD components with sprung lid, four different sizes available, can be joined to each other by means of a dovetail assembly system. The lid is provided with a finger point for easy and quick opening, can remain in open position and closes automatically thanks to spring loading.

Black conductive version is normally available from stock, on request (minimum 100 pcs) the colours: red, white, blue, yellow and green.

All boxes can be supplied with the transparent cover.



- 7808.620 SNAPBOX1 ESD black
- 7808.621 SNAPBOX1 ESD black, transparent cover
- 7808.622 SNAPBOX1 not ESD various colours
- 7808.627 SNAPBOX1 not ESD various colours, transparent cover

SIZE 1

int. 16x12x15mm
ext. 20x28x20mm

- 7808.632 SNAPBOX2 ESD black
- 7808.633 SNAPBOX2 ESD black, transparent cover
- 7808.634 SNAPBOX2 not ESD various colours
- 7808.635 SNAPBOX2 not ESD various colours, transparent cover

SIZE 2

int. 37x12x15mm
ext. 40x28x20mm

- 7808.644 SNAPBOX3 ESD black
- 7808.645 SNAPBOX3 ESD black, transparent cover
- 7808.646 SNAPBOX3 not ESD various colours
- 7808.651 SNAPBOX3 not ESD various colours, transparent cover

SIZE 3

int. 37x41x15mm
ext. 40x56x20mm

- 7808.656 SNAPBOX4 ESD black
- 7808.657 SNAPBOX4 ESD black, transparent cover
- 7808.658 SNAPBOX4 not ESD various colours
- 7808.663 SNAPBOX4 not ESD various colours, transparent cover

SIZE 4

int. 57x68x15mm
ext. 60x84x20mm



SIZE 1



SIZE 2



SIZE 4



SIZE 3



SMD - VISTABOX

VISTABOX zinc plated assembly stand can house in two shelves an assortment of SNAPBOX containers with different sizes.

The VISTABOX is especially suited for assembly and maintenance tables.

7808.690

Assembly-stand, 2 trays for SNAPBOX (containers excluded)

Material:
Dimensions:
Capacity:

zinc plated steel
180 x 260 x 200mm
48 base units (size 1) for shelf



LABEL HOLDER

Transparent adhesive label holder with and ESD symbol.

7805.240
7805.360
7805.358
7804.918
7804.920

Label Holder, with label 15 x 55mm
Label Holder, with label 15 x 94mm
Label Holder, with label 31 x 94mm
Label Holder, with label 47x100mm
Label Holder, with label 60 x 140mm

LABELS

7807.100	"ATTENTION" Adhesive label, ESD (A)	38x16mm(1000pcs.)
7807.102	"ATTENTION" Adhesive label, ESD (A)	50x25mm(1000pcs.)
7807.104	"ATTENTION" Adhesive label, ESD (A)	76x38mm(1000pcs.)
7807.110	ESD "SUSCEPTIBLE" symbol only, Adhesive label (C)	5x5mm(1000pcs.)
7807.112	ESD "SUSCEPTIBLE" symbol only, Adhesive label (C)	12.5x12.5mm(1000pcs.)
7807.114	ESD "SUSCEPTIBLE" symbol only, Adhesive label (C)	50x50mm(1000pcs.)
7807.115	ESD "PROTECTIVE" symbol only, Adhesive label (D)	12.5x12.5mm(1000pcs.)
7807.116	ESD "PROTECTIVE" symbol only, Adhesive label (D)	50x50mm(1000pcs.)
7807.158	"EARTH BONDING POINT" Adhesive label (E)	25x45mm(10pcs.)

A



C



D



E



Use where there are potentials > 250Vac

SIGNS

7807.148	"ESD PROTECTED AREA" self-adhesive yellow PVC	300x150mm
7807.149	"ESD PROTECTED AREA" rigid yellow PVC	300x150mm
7807.154	"ESD PROTECTED AREA"	English rigid PVC 600x300mm
7807.154H	"H.V. ESD PROTECTED AREA"	English rigid PVC 600x300mm
7807.155	"AREA PROTETTA ESD"	Italian rigid PVC 600x300mm
7807.155H	"A.T. AREA PROTETTA ESD"	Italian rigid PVC 600x300mm
7807.156	"ZONE PROTEGEE CONTRE LES ESD"	French rigid PVC 600x300mm
7807.157	"ESD GESCHÜTZTER BEREICH"	German rigid PVC 600x300mm

EPA RETRACTABLE BELT BARRIER

The patented retractable belt barrier is designed for delimiting an EPA easily and safely. To avoid confusion of visitors when leaving the EPA, the belts are printed just on one side so the indication of EPA can only be seen from outside. To prevent the belt barrier from undercut, the system is also available with two belts.

The belts are printed bilingual: English and German.

Wall mounted retractable belt head

Stainless steel head, for wall mounting; includes a wall receiving end, yellow polyester belt with one side print.

Belt barrier post

Powder coated steel post, colour: yellow
Plastic coated steel base colour: black
Base diameter: 350mm
Post height: 960mm
Weight: 12,5kg

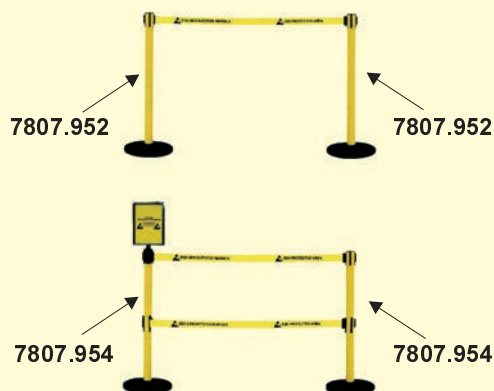
Sign holder

Stainless steel frame for the belt barrier posts, it is used to locate a warning sign A4 paper.

7807.950 Wall mounting retractable belt head, belt length 4m

7807.952 Belt barrier post, single bel, belt length 4m
7807.954 Belt barrier post, dual belt, belt length 2m

7807.956 Sign holder A4, for belt barrier post 7807.254
7807.957 Sign holder A4, for belt barrier post 7807.252



T-SHIRTS / POLO-SHIRTS (UNISEX)

Colour: light grey
 Symbol: yellow ESD
 Fabric: 96% cotton, 4% carbon fibre
 Weight: 140g/m²
 Charge decay: < 2 Sec



Polo-Shirt

7807.708
 7807.710
 7807.712
 7807.714
 7807.716

size S
 M
 L
 XL
 XXL

T-Shirt with breast pocket

7807.718
 7807.720
 7807.722
 7807.724
 7807.726

size S
 M
 L
 XL
 XXL



T-Shirt

7807.696
 7807.698
 7807.700
 7807.702
 7807.704
 7807.705

size XS
 S
 M
 L
 XL
 XXL

PROTECTIVE CLOTHING

- Style 3/4 length, unisex, with two side pockets and one breast pocket.

- 70% Cotton, 24% polyester, 6% Conductive carbon fibre.

- Lightweight (120g/m²)

- Washable without losing conductive properties.



7807.501	Dissipative Overall, WHITE colour	size XS
7807.502	Dissipative Overall, WHITE colour	S
7807.503	Dissipative Overall, WHITE colour	M
7807.504	Dissipative Overall, WHITE colour	L
7807.505	Dissipative Overall, WHITE colour	XL
7807.506	Dissipative Overall, WHITE colour	XXL
7807.511	Dissipative Overall, LIGHT BLUE	XS
7807.512	Dissipative Overall, LIGHT BLUE	S
7807.513	Dissipative Overall, LIGHT BLUE	M
7807.514	Dissipative Overall, LIGHT BLUE	L
7807.515	Dissipative Overall, LIGHT BLUE	XL
7807.516	Dissipative Overall, LIGHT BLUE	XXL

ESD FLEECE

Antistatic fleece in soft dissipative static fabric, unisex model with high neck and zip closure.

Complete with 2 side pockets and sewed fabric ESD logo.

Very warm is perfect for winter season.

Features:

- Color: gray or blue

- Fabric Composition:
 97% Polyester,
 3% Carbon Fiber

- Fabric weight: 245g/m²



7807.736G	Dissipative fleece, LIGHT GREY	size XS
7807.738G	Dissipative fleece, LIGHT GREY	S
7807.740G	Dissipative fleece, LIGHT GREY	M
7807.742G	Dissipative fleece, LIGHT GREY	L
7807.744G	Dissipative fleece, LIGHT GREY	XL
7807.746G	Dissipative fleece, LIGHT GREY	XXL
7807.736B	Dissipative fleece, NAVY BLUE	XS
7807.738B	Dissipative fleece, NAVY BLUE	S
7807.740B	Dissipative fleece, NAVY BLUE	M
7807.742B	Dissipative fleece, NAVY BLUE	L
7807.744B	Dissipative fleece, NAVY BLUE	XL
7807.746B	Dissipative fleece, NAVY BLUE	XXL

DISPOSABLE COATS

Polypropylene lab coat with elastic wrists, style 3/4 length, unisex, with two side pockets.

7807.658	Disposable coat ESD, white colour, size M
7807.659	Disposable coat ESD, white colour, size L
7807.660	Disposable coat ESD, white colour, size XL
7807.661	Disposable coat ESD, white colour, size XXL
7807.654	Disposable coat NOT-ESD, white colour, size L
7807.655	Disposable coat NOT-ESD, white colour, size XL



DISSIPATIVE BADGE HOLDER

Dissipative badge holders are amine free, colourless transparent and permanent dissipative.

Maximum size of the badge is 89 x 55mm.

7807.903

Soft Badge holder with clip

7807.901

Rigid Badge holder with clip

7807.902

Rigid Badge holder with necklace



7807.901

GLOVES

Fully launderable lightweight white gloves, made from additive polyester fabric and synthetic rubber. $R_g \leq 10^8 \Omega$

7805.001

DISSIPATIVE fabric GLOVES small size

7805.002

DISSIPATIVE fabric GLOVES medium size

7805.003

DISSIPATIVE fabric GLOVES large size



Made in dissipative VINYL are suitable for use in white chambers. Electrostatic decay time $< 2\text{sec}$.

7805.005

DISSIPATIVE VINYL GLOVES small size (100 pcs).

7805.007

DISSIPATIVE VINYL GLOVES medium size (100 pcs).

7805.009

DISSIPATIVE VINYL GLOVES large size (100 pcs).



Made in dissipative NITRILE, dust-free, double chlorination, are suitable for use in clean rooms, pharmaceutical, laboratory of analysis. Electrostatic decay time $< 2\text{sec}$.

7807.810

Dissipative green NITRILE gloves, (100 pcs) small size

7807.811

Dissipative green NITRILE gloves, (100 pcs) Medium size

7807.812

Dissipative green NITRILE gloves, (100 pcs) Large size

7807.813

Dissipative green NITRILE gloves, (100 pcs) XL size



Seamless knitted dissipative nylon gloves, with Polyurethane wet coating on each top and double sided are PVC dotted. $R_g \leq 10^8 \Omega$

7804.997

Dissipative nylon gloves, small size

7804.998

Dissipative nylon gloves, medium size

7804.999

Dissipative nylon gloves, large size

7805.000

Dissipative nylon gloves, XL size



DISSIPATIVE FINGER COTS

Dissipative latex finger cots, provide excellent tactile sensitivity for handling of ESD sensitive components. $R_s: < 4 \times 10^{10} \Omega$

7805.014

Dissipative finger cots size M, 1440 pcs/packing

7805.015

Dissipative finger cots size L, 1440 pcs/packing



BAGGY - BEAUTY-CASE FOR EPA AREAS

For storage of personal things into an EPA area.

Colour:

Grey

Dimensions:

320 x 100 x 150(H)mm

R_s

$< 10^9 \Omega$

7807.910

Beauty-case for EPA areas



DISSIPATIVE FOOTWEARS

Comfortable and aesthetically pleasing shoes and clogs provide a safest, efficient conductive path to ground.

According to the IEC 61340-5-1 2017-01 regulation all operators shall be connected to ground when operating in contact with ESDS.

In case of personnel seated at an ESD protective workstation, they shall be connected to ground via a wrist strap system (R_g between $750k\Omega$ - $35M\Omega$).

Standing operators may be grounded via a flooring / footwear system. When only the flooring / footwear system is used to ground it is necessary to wear ESD footwear on both feet and satisfy these 2 conditions:

- Total resistance of the system (person, footwear and flooring) to ground:

$$R_g < 1,0 \times 10^9 \Omega$$

- Maximum HBV (Human Body Voltage) generation:

$$HBV < 100V$$

R_g shall be measured during the product qualification according to IEC 61340-4-5 and HBV shall be checked periodically (note "d" Table 2 of the standard)

For compliance verification the person / footwear system must be checked at a groundable point:

$$R_{gp} < 1,0 \times 10^8 \Omega$$

Rgp person / footwear compliance verification

$$R_{gp} < 1,0 \times 10^8 \Omega$$



WRISTLAB-II (page 72)

HBV (Human Body Voltage) periodic verification

$$HBV < 100V$$



WALKING TEST EVO
(page 71)



M-CLOG

White colour

Non slip polyurethane sole

"MICROSAFE" Synthetic upper shoe

R_g from 1×10^6 to $3.5 \times 10^7 \Omega$

8915.935- 8915.947

White colour, sizes from 35 to 47

JUNIOR

High comfort, high style

White colour

Shock absorbent, anti-slip polyurethane sole

Perforated leather upper shoe

Removable and washable insole

R_g from 1×10^6 to $3.5 \times 10^7 \Omega$

7807.427- 7807.440

6807.420- 6807.433

Clog, sizes from 35 to 48

Spare innersole, sizes from 35 to 48



TRAINER

High comfort, high style

White colour

Shock absorbent, anti-slip polyurethane sole.

Perforated leather upper shoe

Removable and washable innersole

R_g from 1×10^6 to $3.5 \times 10^7 \Omega$

7807.469- 7807.481

6807.420- 6807.432

sizes from 35 to 47

Spare innersole, sizes from 35 to 47





EN20345 S1



SUMMER SAFETY SHOE WITH TOECAP

Very attractive price
Grey colour
Steel toe cap
Non-slip polyurethane sole
Upper with holes in real suede leather, perspiring lining
 R_G from 1×10^6 to $10 \times 10^7 \Omega$

8913.836- 8913.847

sizes from 36 to 47

WORKER SAFETY SHOE WITH TOECAP

Very attractive price
Black colour, steel toe cap
Shock absorbent, anti-slip polyurethane sole
Leather upper shoe
 R_G from 1×10^6 to $10 \times 10^7 \Omega$

8908.036- 8908.047

sizes from 36 to 47



EN20345 S2



DISPOSABLE SHOE COVERS

Shoe Covers are used in hospital, clean rooms, and other industrial facilities.

Are made by disposable blue polypropylene NOT-ESD material, with white tread for traction and an elastic opening.

7807.840

Light blue NOT-ESD shoe cover, 1000 pcs packing

Are made by disposable blue TNT material, includes carbon conductive cord, cannot be washed. $R_g : 10^5 - 10^7 \Omega$

7807.850

Light blue ESD shoe cover, 100 pcs packing

ESD SAFETY WORKING SOCKS

Non-slip, ESD Safety working socks made of a cotton, acrylic and nylon blend with a conductive carbonium fiber woven into the toes and heels.

**8908.002
8908.003
8908.004**

ESD Socks , unisex, gray, sizes 35-38
ESD Socks , unisex, gray, sizes 39-42
ESD Socks , unisex, gray, sizes 43-46



HEEL AND TOE GROUNDERS

Made from conductive rubber tape, they are used for earthing personnel where mobility is required such as in storage areas and where static protective flooring or mats have been installed.

Floors with a resistance to ground between 1 and $35 M\Omega$ are preferred.

A disposable heel grounder is available, ideal for plant visitors or anyone requiring a temporary grounding device. (expected life of 1 day)

**7804.200
7804.201
7804.202
7804.203**

Disposable Heel grounder (pack of 100)
Disposable Heel grounder Dispenser
Heel grounder with $2 M\Omega$ resistance
Toe grounder with $2 M\Omega$ resistance

FLOORS



DISSIPATIVE FLOOR COATING

It gives dissipative characteristics to a standard floor, and it is excellent in maintaining the conductive floor in operating rooms, clean rooms and data processing centres. It may also be used to maintain the table mat's dissipative surfaces.

First treatment:

- well wash the floor with the **stripper** -rinse with clean water.
- when dry apply two thin coats on the floor. (Yield: 1lt. for approx. 25m² per 2 coats)

Ordinary Maintenance:

- sweep the floor with a wet broom, then wash it with the **cleaner** diluted in water at 1-5% ratio.

Maintenance with spray:

- Dilute the coat in water at 30% ratio, spray it on the floor and then polish by a one-brush machine, provided with a suitable scotch-bride. (Yield: 1lt. for approx. 100m²)

Rs: < 10¹¹ Ω

7805.876

LIQUID COAT, 5 Kilos unit

DETERGENT

Low foaming-agent detergent with highly concentrated active substances and alkalinity. It is used for cleaning and maintenance of the waxed surface.

- Biodegradable: up to over 90%
- Dilution in water 1-5%
- It may be used to wash by hand and with a one-brush polisher or a washing-drying machine.

7805.873

DETERGENT, 5 Kilos unit

STRIPPER

Dewaxing alkaline detergent have to be used the first time, before applying the coating on the floor. It removes quickly multiple coats of wax and embedded dirt. It is suitable on PVC, Rubber and Hard floors.

- Biodegradable up to over 90%
- Dilution in water 5-10% machine stripping 12-16% manual stripping
- Lay off the solution and let it act for 5 minutes, then wash with water.

7805.870

FLOOR STRIPPER, 5 Kilos unit

ELECSTAT-112 DISSIPATIVE FLOOR DETERGENT

ELECSTAT-112 is a non-toxic, low foaming, static dissipative agent for cleaning, used to enhance the features of the existing ESD floors or make a non-ESD floor static dissipative.

Rs: < 10¹¹ Ω

Biodegradability:

over 90%

Dilution in water:

10 to 20%:

Application :

for manual or mechanical cleaning.

7805.890

Dissipative agent ELECSTAT-112 5kg plastic can



DISSIPATIVE FLOOR PAINT

A ready to use single pack, dissipative water based paint can be easily applied by brush or roller. The paint has an attractive satin finish and is available in mid grey, nearest to RAL7035. Two coats are recommended for best results and should be applied over a sound, sealed floor, free from dirt, oil or any loose particles. It is strongly recommended that the paint is not applied directly over bare concrete. Where this occurs the Water Based Primer 7805.856 should be first applied.

7805.854

ELECTROGUARD 40, SINGLE PACK water based static dissipative acrylic paint, 5 litre unit
Coverage: 10m²/litre per coat (we recommend 2 coats)
Typical resistance to ground $R_G 10^6 \Omega \div 10^8 \Omega$

7805.856

FLOORPOX EPOXY PRIMER
for bare concrete floor
12 litre unit (6 litres base + 6 litres activator)
Coverage: 16m²/litre per coat (we recommend 2 coats)



FLOOR MARKING TAPE

7807.172

PVC adhesive tape, ESD Protected Area floor marking

- Self-adhesive
- 75mm wide, 33m long roll
- PVC laminated with clear PP for durability and washability



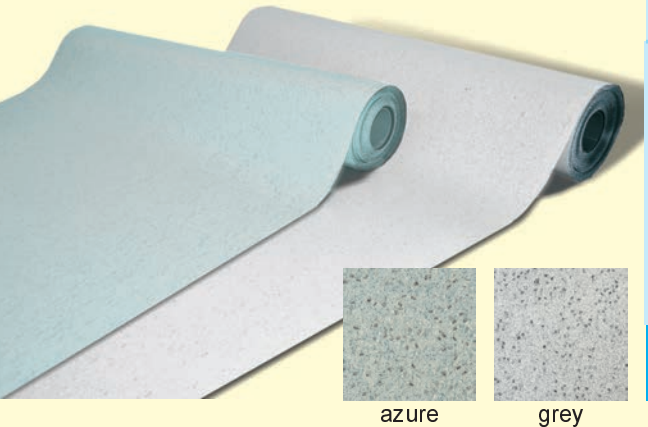
FLOORS

VINYLAB

VINYLAB is a resilient, permanently static-dissipative control flooring developed for facilities where static discharge may cause damage to sensitive electronic devices.

The VINYLAB mat meets the requirements for floors in standard IEC61340-5-1, the "Combination Resistance" with appropriate shoes is $35M\Omega$.

It is made by two vinyl layers, the underside layer is black conductive, the top layer, glare free coloured surface, has a $1 \times 10^6 \Omega$ typical Rs.



azure

grey

MAT

- It is required a perfect, smooth permanently dry and sound subfloor.
- Never use conductive primers, since they reduce the subfloor's absorbcency.
- Rubber mats should be dry laid first to reach the floor temperature (acclimatise)
- Use conductive adhesive to apply the rubber mat.
- Water dispersion adhesive type ECO V4, easy to apply, is mostly used on absorbent and moisture-stable subfloors.
- Detailed installation procedures available on demand.

7805.820
7805.818

Mat roll, azure colour 140cm x 2.2mm x 10m.
Mat roll, grey colour 140cm x 2.2mm x 10m.

INTERLOCKING FLOOR TILE

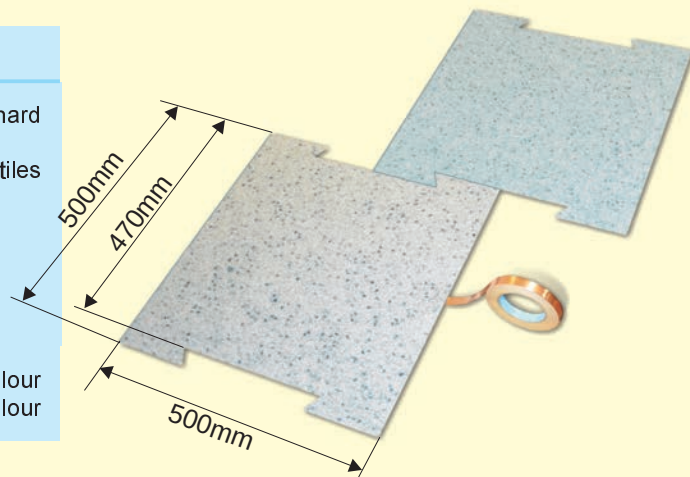
The tiles are clicked together quickly and can be dry laid over any hard and flat base even on damaged, damp or contaminated surfaces.

To have a reliable ground connection create a copper grid under the tiles and ground it.

Dimensions: 500 x 500 x 4 mm
Weight: 6kg/m²
Packages: 20 tiles for package (4.70m²)

7805.800
7805.801

Interlocking tile, azure colour
Interlocking tile, grey colour



ECO V4 GLUE FOR MATS, ONE COMPONENT

Conductive glue for sticking mats on benches or on the floor.
Rs.: $< 3 \times 10^5 \Omega$

7805.840

One component conductive glue, gray color, 16kg can
Useful time 10-15 minutes, consumption about 350g/m²

COPPER EARTHING TAPE

Used to ground ESD matting
Self-adhesive - 0.05mm thickness - 30m long roll

7805.828
7805.830

COPPER tape 10mm wide
COPPER tape 15mm wide



FLOOR GROUNDING KIT AND TEST POINT

7805.834

GROUNDING KIT

Supplied with two meters long copper earthing type. Dowels and screws not supplied.



ANTI-FATIGUE ESD MATS

ESD Anti-Fatigue Floor Mats designed to provide comfort and reduce worker fatigue.

Provide ergonomic comfort for your feet and create a healthier more productive work environment

The mats should be used on ESD floors correctly grounded

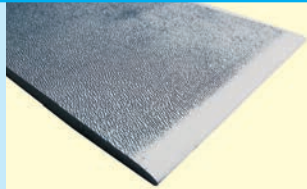


ANTI-FATIGUE GREY MAT IN ROLL

Roll 1 x 10m, thickness 8mm

PVC foam, grey colour

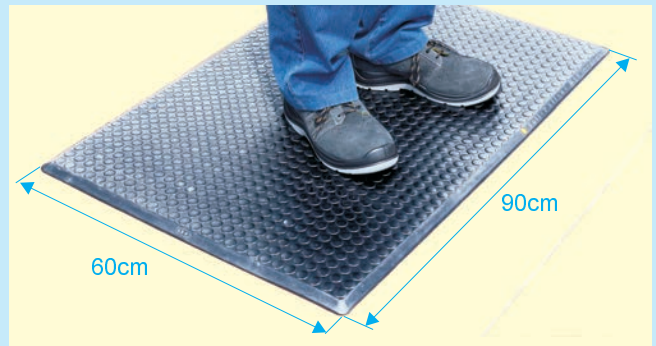
$R_s : 10^7 - 10^9 \Omega$



7804.843

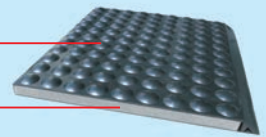
Anti-fatigue grey mat in roll (1x10m)

ANTI-FATIGUE ESD MAT



external side in nitrile conductive rubber ($10^5 - 10^6 \Omega$)

internal in highly elastic Polyurethane foam

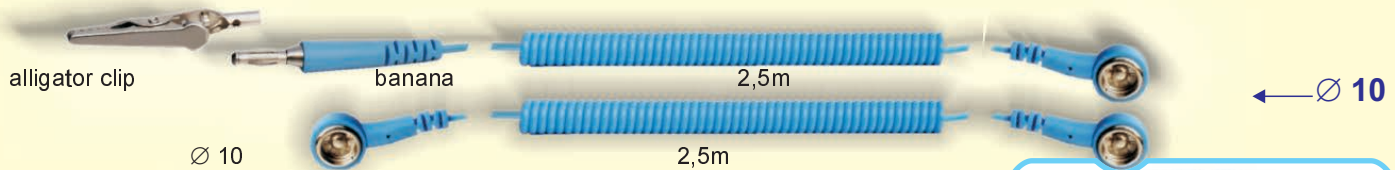


7804.841

Anti-fatigue ESD mat 60x90x1,6cm

WRISTSTRAP

The wrist strap is the most common and effective means of controlling ESD generated from people, it should be worn at all times by anyone at the work station. Our adjustable wrist strap includes an extendible coiled cord fitted with $1M\Omega$ resistor.



7804.190

Adjustable wrist strap, blue colour, with coiled cord banana/socket, alligator clip

7804.193

Adjustable wrist strap, blue colour, with coiled cord socket/socket

6604.804

Spare Wrist-band

6604.803

Spare coiled cord, banana/socket

7804.885

Spare coiled cord, socket/socket



7804.192

ANTI-ALLERGENIC wrist strap with coiled cord

6604.805

Spare Wrist-band

6604.803

Spare coiled cord



7804.188

Metal wrist strap, with coiled cord

6604.808

Spare Wrist-band

6604.809

Spare coiled cord





7804.140
black
semigloss

7804.148
grey
matt



7804.152
grey
orange peel

7804.153
sky-blue
orange peel

7804.154
beige
orange peel



KOSTAPLAN MATS

KOSTAPLAN mats are made from a rugged synthetic rubber resistant to hot solder, fluxes and chemicals.

The underside layer is black conductive, the top coloured layer, glare free surface, has a R_{surface} from 10^7 to $10^9 \Omega$.

KOSTAPLAN 1 layer , conductive BLACK

7804.140
7804.139
7804.145

60cmx2mmx10meters roll
90cmx2mmx10meters roll
120cmx2mmx10meters roll

KOSTAPLAN 2 layers , dissipative GRAY / conductive BLACK

7804.148
7804.149
7804.150

60cmx2mmx10meters roll
90cmx2mmx10meters roll
120cmx2mmx10meters roll

LABESTAT TABLE MATS

LABESTAT mats are made from a rugged rubber resistant to hot solder, fluxes and chemicals.

The underside layer is black conductive, the top coloured layer, glare free surface, has a R_{surface} from 10^7 to $10^9 \Omega$.

LABESTAT 2 layers
dissipative COLOURED / conductive BLACK

7804.851 GRAY
7804.852 GRAY
7804.152 GRAY
7804.853 GRAY

60cmx2mmx10meters roll
90cmx2mmx10meters roll
122cmx2mmx10meters roll
150cmx2mmx10meters roll

7804.153 SKY-BLUE
7804.154 BEIGE

122cmx2mmx10meters roll
122cmx2mmx10meters roll

ESD WORKSTATION KIT

600 x 1200 x 2mm , includes one adjustable wrist strap, one ground cord 3m, four snap fasteners installed.

7804.830
7804.831
7804.833

Two layer KOSTAPLAN mat, GREY / BLACK
Two layer LABESTAT mat, GREY / BLACK
Two layer LABESTAT mat, SKY-BLUE / BLACK

FIELD SERVICE KIT

The Portable Field Service Kit protects installed electronic components from static damage as a result of normal handling during field maintenance and repair. It has two pockets and one 10mm press stud for Wrist-strap and Grounding cord connection.

- 3 Layer Mat RED/BLACK colour, 600x600mm dim.
- Surface resistance $R_s \leq 10^9 \Omega$
- Point to ground resistance $R_g \leq 10^9 \Omega$
- 1 adjustable wrist strap + 1 grounding cord 3m length

7804.195

PORTABLE FIELD SERVICE KIT



Elecstat-109 ESD CLEANER

A topical antistatic cleaning solution for use on dissipative and non-ESD surfaces. After it has been applied and the surface dries, an antistatic and protective static dissipative coating is left behind. This enhances existing ESD surfaces and will give electrical properties to insulative surfaces.

$R_s < 10^{11} \Omega$

7805.895
7805.896

Bottle, 0.75 litre spray
5 litre Can/e





EARTH BONDING POINT PLUG

EBP plug provides a safe, effective and simple method of using the ring mains earth as ground.

Made of yellow ABS, Earth Bonding Plug fits the European CEE(7) VII Schuko sockets.

7804.874

Earth Bonding Plug with two 4mm plug sockets, one 10mm stud

EARTH BONDING POINT

An Earth Bonding Point (EBP) ties together (via cords) several elements of an EPA such as bench surface, floor mat or wrist strap.

Each input is fitted with a 1MΩ resistor.

EBP is supplied with a 2 meters grounding cord for connecting to the Earth Facility.

7804.896 EBP BOX

7804.898 EBP BAR

7804.899 EBP BAR

three 4mm shrouded plug sockets

three 4mm shrouded plug sockets

three studs Ø 10mm



GROUNDING CORDS

7804.876



male
10mm

1,8m

R=1MΩ



male
10mm

7804.878



male
10mm

0,15m

R=0 Ω



male
10mm

7804.880



male
10mm

4m

R=1MΩ



eyelet Φ 4,3x7mm

7804.882



male
10mm

4m

R=1MΩ



banana alligator-clip

7804.883



female 10mm

3m

R=1MΩ



banana alligator-clip

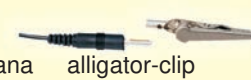
7804.866



female 10mm

3m

R=0Ω



banana alligator-clip

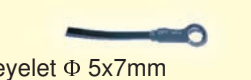
7804.884



female 10mm

3m

R=1MΩ



eyelet Φ 5x7mm

6604.803



female 10mm

2,5m

R=1MΩ



banana alligator-clip

7804.885



female 10mm

3m

R=1MΩ



female 10mm

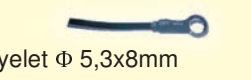
7804.886



female 10mm

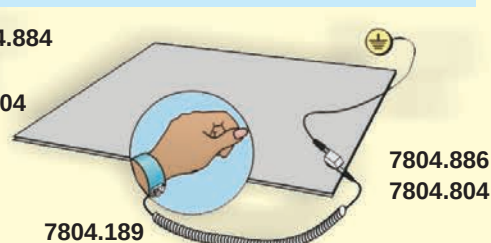
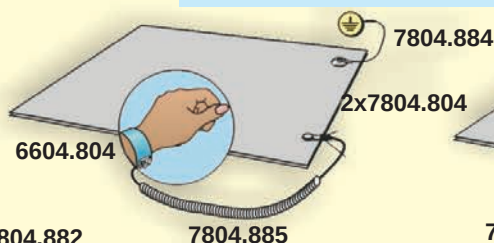
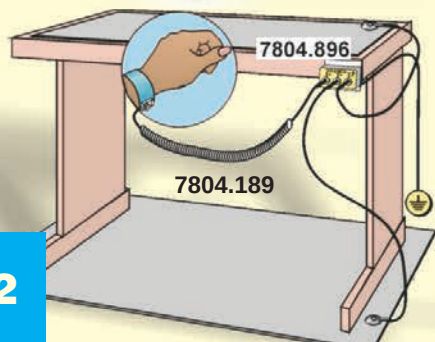
3m

R=1MΩ

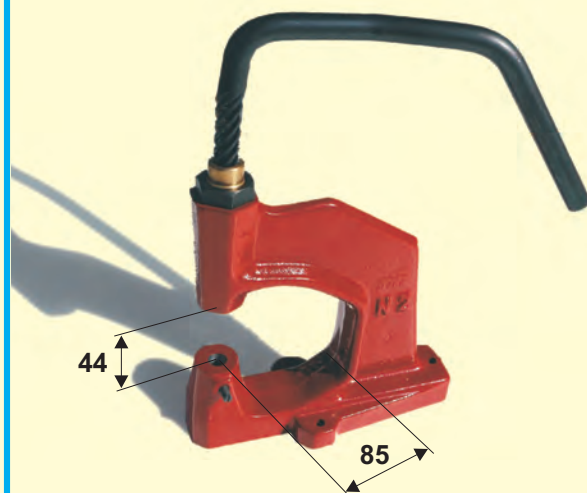
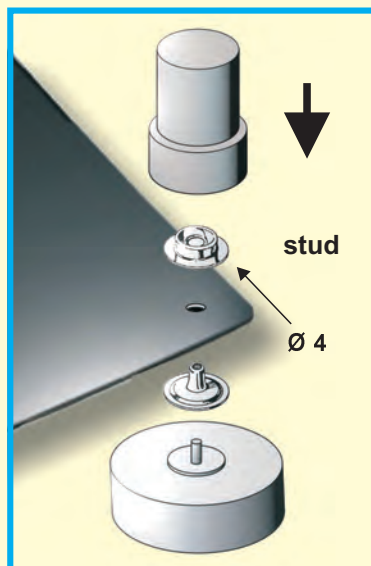
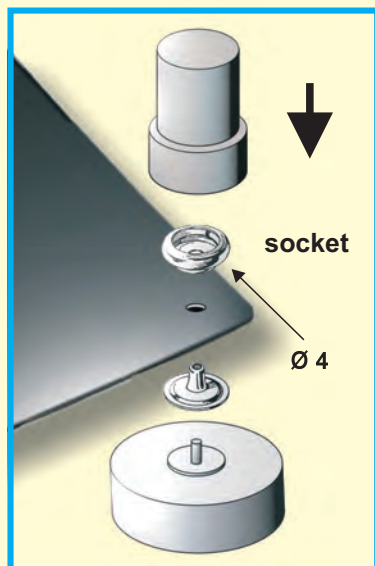


eyelet Φ 5,3x8mm

TIPICAL APPLICATIONS



GROUNDING ACCESSORIES



7804.803
7804.809
7804.804
7804.805

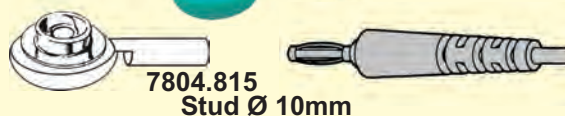
Ø 10mm socket (2 parts)
Punch and Anvil for socket F
Ø 10mm stud (2 parts)
Punch and Anvil for stud M

7804.811

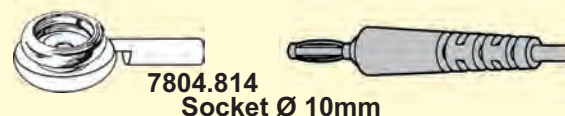
Dimensions:
Weight:

Eyelets manual press
(Without punch and anvil)
80 x 180 x 280mm
3.3 Kg

7804.870



7804.815
Stud Ø 10mm



7804.814
Socket Ø 10mm

7804.818

Stud

7804.819

Stud
Socket

7804.796

Socket

7804.797

Stud

Socket

7804.816



7804.817



7804.872



7804.873

7804.870

ADAPTOR
socket Ø 10mm + stud Ø 10mm + banana plug Ø 4mm

7804.815

ADAPTOR from socket Ø 10mm
to banana plug Ø 4mm

7804.814

ADAPTOR from stud Ø 10mm
to banana plug Ø 4mm

7804.818

ADAPTOR from socket Ø 10mm
to stud Ø 10mm

7804.819

ADAPTOR from stud Ø 10mm
to socket Ø 10mm

7804.796

Clinch SNAP
male, Ø 10mm

7804.797

Clinch SNAP
female, Ø 10mm

7804.816

Ø 10mm socket
crimp terminable on AWG 22-16 wire

7804.817

Ø 10mm plug
crimp terminable on AWG 22-16 wire

7804.872

BANANA Ø 4mm

7804.873

Alligator-clip for banana plug Ø 4mm

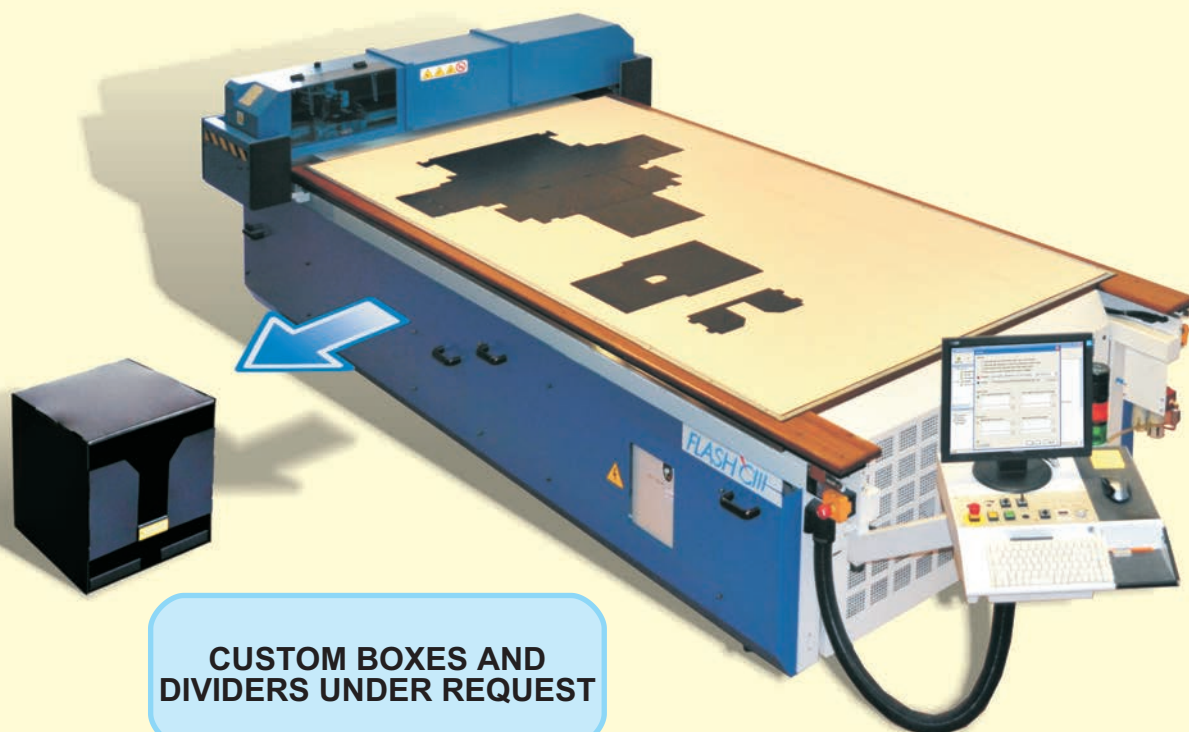
LABEPLAST CONDUCTIVE FLUTED POLYPROPYLENE

LABEPLAST is an extruded conductive polypropylene that offers strength, durability and appearance superior to the fiber-board. LABEPLAST sheet has many capabilities such as die-cutting, line bending, riveting and sonic welding.

Rs: $\leq 10^5 \Omega$
Rv: $\leq 10^5 \Omega$
Color: black

7806.166
7806.169
7806.156

LABEPLAST, 1250x1250x2,5mm, 550g/m² sheets
LABEPLAST, 1550x1250x2,9mm, 700g/m² sheets
LABEPLAST, 2000x1250x2,5mm, 550g/m² sheets
minimum order quantity: 30 pcs



**CUSTOM BOXES AND
DIVIDERS UNDER REQUEST**



7806.245

7806.815



7806.815

LABBOX-S

Box with antistatic profiled foam
ext. 350x145x70mm

7806.245

LABBOX-S

Box with antistatic profiled foam
ext. 400x230x60mm

7806.720
7806.724
7806.725
7806.760
7806.763
7806.766

LABBOX10 Base container ext.275x400x250(H)mm
LABBOX14 Base container ext.430x510x200(H)mm
LABBOXC2 Cover for LABBOX14
LABBOX30 Base container ext.370x590x140(H)mm
LABBOX50 Base container ext.370x590x220(H)mm
LABBOXC1 Cover for LABBOX30/50

Fifo



>>> go to page 24

Diviprint



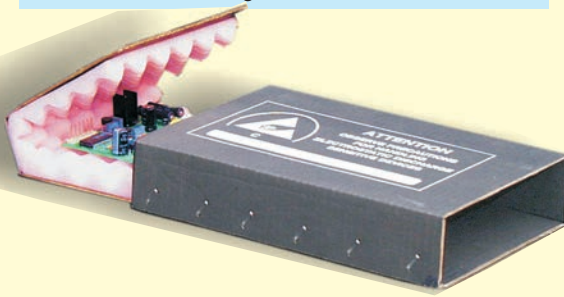
>>> go to page 21

ESD CORRUGATED BOARD

REUSABLE, STURDY CARTONS
CONDUCTIVE CORRUGATED BOARD
MADE FROM
 $R_{\text{sup}} \leq 1 \times 10^5 \Omega$

SLIDING SLEEVE BOXES

Antistatic cushioning FOAM



code	mod.	Esternal dim. mm	Internal Dim. mm
7806.051	EUR 1	215 x 120 x 55	190 x 100 x 30
7806.056	EUR 2	285 x 180 x 55	260 x 165 x 30
7806.061	LAB 1	325 x 285 x 70	285 x 270 x 35
7806.066	SAB 1	225 x 160 x 100	195 x 130 x 75
7806.078	SAB 3	300 x 200 x 90	260 x 185 x 50
7806.076	SAB 2	350 x 280 x 90	310 x 265 x 50
7806.081	LAB 2	390 x 320 x 70	350 x 305 x 35

SIMM SHIPPERS

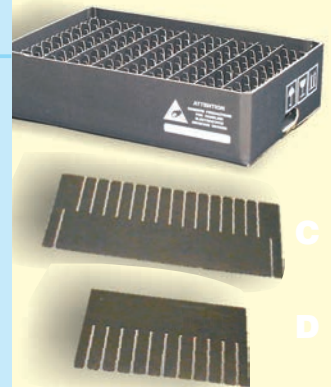
Designed to ship SIMM or DIMM modules, the containers are normally assembled with internal antistatic foams. A hard type on the bottom, a middle foam with the cells, and a soft cushioning foam on the top.

7806.030	HYBRID H28	ext 320 x 240 x 28mm - int.294x235x25mm
7806.032	HYBRID H40	ext.320 x 240 x 40mm - int.294x235x37mm
7806.322	Antistatic HARD FOAM	235 x 294 x 6 mm
7806.324	Antistatic HARD FOAM with dividers	81 cells 90x3mm 235x294x6mm
7806.326	Antistatic HARD FOAM with dividers	108 cells 60x3mm - 235 x 294 x 6 mm
7806.320	Antistatic cushioning FOAM	235 x294 x 6mm



CARTONBOX

7806.220	CARTONBOX 30	int.352x560x130(H)mm without cover, without dividers
7806.226	CARTONBOX 50	int.352x560x210(H)mm without cover, without dividers
8718.091	CARTONBOX cover	
7806.211	Type C DIVIDER	length 555 height100 pitch 19, 28 slots (x CARTONBOX 30)
7806.215	Type D DIVIDER	length 350 height100 pitch 19, 17 slots (x CARTONBOX 30)
7806.217	Type C DIVIDER	length 552 height200 pitch 31 17 slots (x CARTONBOX 50)
7806.216	Type D DIVIDER	length 350 height200 pitch 30, 11 slots (x CARTONBOX 50)
7806.219	Type C DIVIDER	length 552 height300 pitch 31, 17 slots (x NEWBOX 70)
7806.218	Type D DIVIDER	length 350 height300 pitch 30, 11 slots (x NEWBOX 70)



PACKING TAPE

7807.121	Antistatic PAPER	adhesive tape - yellow with ESD symbol - Paper tape with water-based acrylic adhesive - 50mm wide, 50m long roll
7807.170	PVC adhesive tape	yellow with ESD symbol - Conventional PVC auto adhesive tape - 50mm wide, 66m long roll



FOAM

HARD FOAM CUSTOM CUSHIONING FOR NEWBOX

NEWBOX TOTE-BOX

Conductive polypropylene Tote-Boxes,
stackable,
Rs < 10⁶ Ω.

Available in two EURO format:
400x300mm and 600x400mm

Newbox



>>> go to page 20

ANTISTATIC HARD PINK FOAM

Use:
Density:
7804.165
7804.166

cushioning purposes
20 Kg/m³, Rs < 10¹² Ω
1m x 1.5m sheet, thickness 10mm
1m x 1.5m sheet, thickness 20mm



CUSTOM CUT



CUSTOM CUT

FOAM (CUSTOM CUT)

ANTISTATIC SOFT PINK FOAM

Use:
Density:
7804.161
7804.162

cushioning purposes
30 Kg/m³, Rs < 10¹² Ω
1m x 1.5m sheet, thickness 6mm
1m x 1.5m sheet, thickness 10mm

CONDUCTIVE SOFT BLACK FOAM

Use:
Density:
7804.168
7804.170
7806.300
7806.306

cushioning purposes
30 Kg/m³, Rs < 10⁶ Ω
1m x 1m sheet, thickness 6mm
1m x 1m sheet, thickness 10mm
550 x 350mm sheet, thickness 10mm
for Euro 600x400 container
360 x 260mm sheet, thickness 10mm
for Euro 300x400 container

CONDUCTIVE HARD BLACK FOAM

Use:
Density:
7804.172
7804.174

insertion of component leads
65Kg/m³, Rs < 10⁵ Ω
1m x 1m sheet, thickness 6mm
1m x 1m sheet, thickness 10mm

CROSS LINKED CONDUCTIVE BLACK FOAM

Use:
Density:
7804.156
7804.158

insertion of component leads high grade, extended life
60Kg/m³, Rs < 10⁶ Ω
1m x 1.78m sheet, thickness 2.5mm
1m x 1.78m sheet, thickness 7.5mm

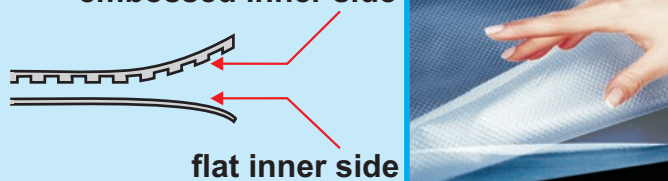
NOT-ESD MOISTURE BARRIER BAGS

(Packaging of 100pcs)

TEXTURED BARRIER BAGS

In external aspiration appliances textured bags are the best solution for an easy operation. One of the inner layer is made with small straight rails parallel to the lateral sides that facilitate the output of the air during the aspiration job.

embossed inner side



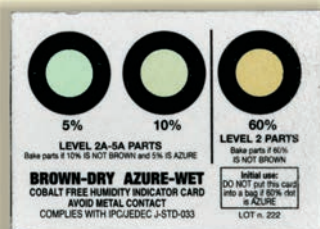
flat inner side

Opening on the short side (mm)	Embossed 85μm	Flat 95μm
150 x 200	6604.004	6603.923
150 x 300	6604.006	6603.925
200 x 300	6604.010	6603.928
250 x 350	6604.015	6603.932
250 x 600	6604.020	6603.936
300 x 400	6604.025	6603.940
400 x 600	6604.030	6603.945
Tubing 200x6m	6604.052	
Tubing 300x6m	6604.054	

DRY PACK



HUMIDITY INDICATOR CARD



7914.008

3 spot humidity indicator card
5-10-60% (500pcs)



MOISTURE ABSORBING DESICCANT BAGS

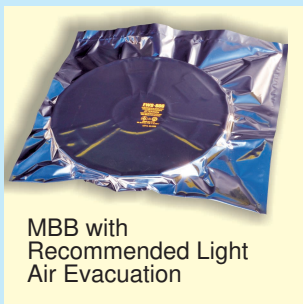
7914.002

7914.005

bags gr.12 1/3U-DIN (100 pcs)
bags Tyvek gr.34 1U-DIN(300 pcs)



MBB with Too Much
(Full) Evacuation



MBB with
Recommended Light
Air Evacuation

J-STD-033 doesn't require vacuum for dry-pack.

Light air evacuation may be used to reduce the packaging bulk and enhance carton packing.

Full evacuation **shall** not be used as it will impede desiccant and HIC performance and possibly lead to MBB puncture.

VacuWeld heat sealers have digital adjustment of vacuum, controlled by an internal vacuum sensor.

VacuWeld



>>> go to page 53

ESD MOISTURE BARRIER BAGS (METAL-IM)

Excellent in EMI/RFI and static field shielding, these bags are water vapor proof and grease proof. Heat sealable, Moisture Barrier Bags are made from a multilayer metallized film.

MIL-B-81705C class1 TC1 SBM356

Thickness: 85μm
Film complying: MIL-B-81705C class1 TC1 SBM356
Rs: < 1x10¹¹ Ω
Electrostatic decay: < 0.1 sec
EMI shielding (MIL 81705-C): 40dB / 1 ÷ 10GHz
Packaging of **100pcs**

Opening on the short side (mm)	Thickness 85μm
100 x 660	7804.344
150 x 660	7804.347
200 x 250	7804.348
250 x 660	7804.350
400 x 400	7804.354
400 x 660	7804.353
450 x 450	7804.355
450 x 660	7804.356

JEDEC-STD-033

Thickness: 150μm
Film complying: JEDEC-STD-033
Rs: < 1x10¹¹ Ω
Electrostatic decay: < 0.1 sec
EMI shielding (MIL 81705-C): 40dB / 1 ÷ 10GHz
Packaging of **100pcs**

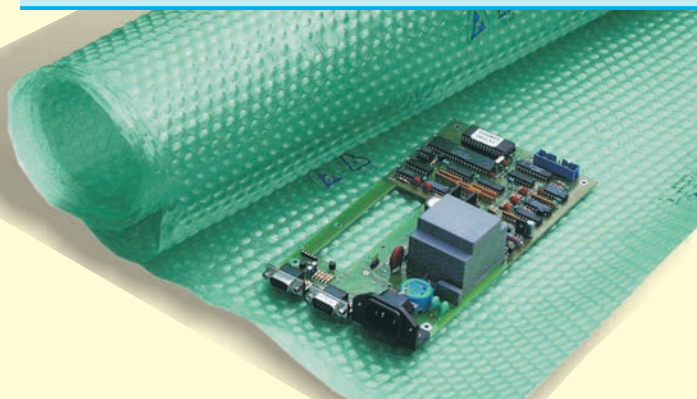
Opening on the short side (mm)	Thickness 150μm
100 x 660	7804.344P
150 x 660	7804.347P
200 x 250	7804.348P
250 x 660	7804.350P
400 x 400	7804.354P
400 x 660	7804.353P
450 x 450	7804.355P
450 x 660	7804.356P

POLYETHYLENE TUBING

6604.210	Black CONDUCTIVE	75µm - 100mm width - 500m roll
6604.214	Black CONDUCTIVE	75µm - 150mm width - 500m roll
6604.218	Black CONDUCTIVE	75µm - 200mm width - 500m roll
6604.224	Black CONDUCTIVE	75µm - 250mm width - 500m roll
6604.228	Black CONDUCTIVE	75µm - 300mm width - 500m roll
6604.230	Black CONDUCTIVE	75µm - 400mm width - 500m roll
6604.239	Green DISSIPATIVE	100µm - 75mm width - 250m roll
6604.240	Green DISSIPATIVE	100µm - 100mm width - 250m roll
6604.244	Green DISSIPATIVE	100µm - 150mm width - 250m roll
6604.248	Green DISSIPATIVE	100µm - 200mm width - 250m roll
6604.254	Green DISSIPATIVE	100µm - 250mm width - 250m roll
6604.258	Green DISSIPATIVE	100µm - 300mm width - 250m roll
6604.260	Green DISSIPATIVE	100µm - 400mm width - 250m roll
6604.261	Green DISSIPATIVE	100µm - 500mm width - 250m roll
6604.264	SHIELDING	78µm - 100mm width - 100m roll
6604.266	SHIELDING	78µm - 150mm width - 100m roll
6604.268	SHIELDING	78µm - 200mm width - 100m roll
6604.270	SHIELDING	78µm - 250mm width - 100m roll
6604.272	SHIELDING	78µm - 300mm width - 100m roll
6604.275	SHIELDING	78µm - 400mm width - 100m roll
6604.280	SHIELDING	78µm - 800mm width - 100m roll



GREEN POLY ANTISTATIC BUBBLE PACK



Multilayer polyethylene, green colour, amine-free, heat sealable, recyclable. Small strong barrier bubble provides a superior packaging protection with excellent puncture and tear resistance.

Electrostatic decay:

< 2 sec

Rs:

< $10^{11} \Omega$

Colour:

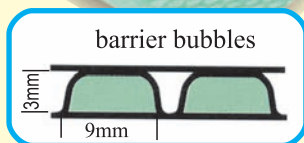
transparent green

7804.184

Dissipative bubble pack roll
0.5meters x 200meters

7804.185

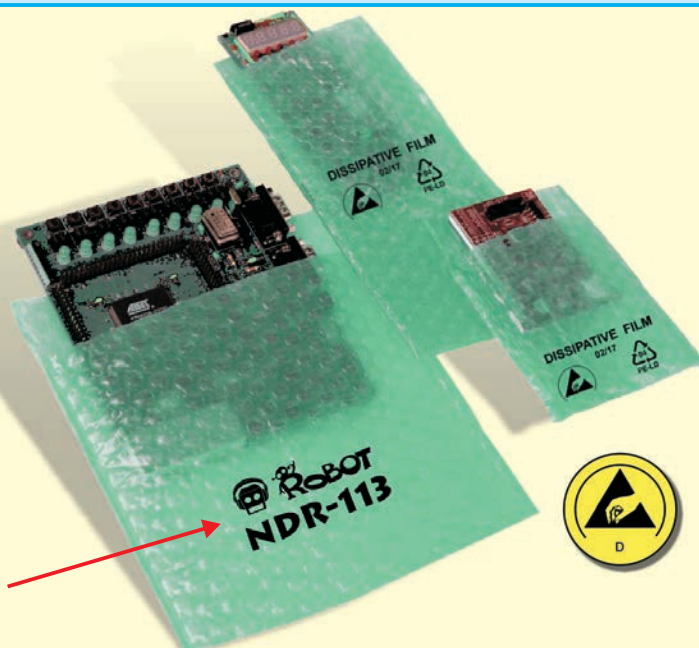
Dissipative bubble pack roll
1meter x 200meters



Provide superior protection against physical damage during shipping and storage.

	Opening x depth	Closing pad
6604.100	90 x 100mm	30mm
6604.101	100 x 180mm	30mm
6604.102	130 x 185mm	30mm
6604.105	180 x 230mm	30mm
6604.107	250 x 250mm	NO
6604.110	280 x 360mm	30mm
6604.114	300 x 480mm	30mm

DISSIPATIVE BUBBLE PACK BAGS



CUSTOM LOGO
PRINTING



SHIELDING BAGS (METAL-IN)



LABESTAT S85

(packages of 100pcs)

Semi-transparent, heat sealable, the metallised shielding bags offer excellent protection for ESD sensitive devices.

A buried layer of metallic film sandwiched between an inner layer of polyethylene and an outer layer of polyester to provide protection against all static damage without exposing metal surfaces.

Thickness of the film: 78 µm
Transparency: 40%

Surface Resistivity inner layer (polyethylene): $< 10^{11} \Omega$
Surface Resistivity intermediate layer (metal): $< 10^2 \Omega$
Surface Resistivity outer layer (polyester): $< 10^{11} \Omega$

	opening x depth				
7804.268	76 x 127 mm (3" x 5")	7804.280	200 x 300 mm (8" x 12")	7804.312	450 x 680 mm (18" x 27")
7804.270	100 x 150 mm (4" x 6")	7804.284	250 x 300 mm (10" x 12")		
7804.272	125 x 200 mm (5" x 8")	7804.285	250 x 350 mm (10" x 14")		
7804.274	150 x 200 mm (6" x 8")	7804.286	300 x 400 mm (12" x 16")		
7804.276	150 x 250 mm (6" x 10")	7804.287	400 x 500 mm (16" x 20")		
7804.278	200 x 250 mm (8" x 10")	7804.288	450 x 450 mm (18" x 18")		
		7804.310	400 x 450 mm (16" x 18")		

ZIPLOCK (zippered recloseable bags)

7804.290	100 x 150 mm (4" x 6")
7804.296	150 x 250 mm (6" x 10")
7804.304	250 x 300 mm (10" x 12")
7804.306	300 x 400 mm (12" x 16")

CONDUCTIVE BAGS

LABESTAT C75

(package of 100pcs)

Made from black multilayer polyethylene layflat tubing are available in many sizes. All bags are printed with the ESD logo and text in conformity to IEC61340-5-1. Don't use for packaging PCBs with on-board batteries.

Thickness of the film: 75 µm
Surface Resistivity $\leq 10^5 \Omega$



	opening x depth				
7804.210	100 x 150 mm (4" x 6")	7804.216	150 x 250 mm (6" x 10")	7804.224	250 x 300 mm (10" x 12")
7804.212	100 x 200 mm (4" x 8")	7804.218	200 x 250 mm (8" x 10")	7804.226	250 x 350 mm (10" x 14")
7804.214	150 x 200 mm (6" x 8")	7804.220	200 x 300 mm (8" x 12")	7804.228	300 x 400 mm (12" x 16")
		7804.222	200 x 350 mm (8" x 14")	7804.230	400 x 450 mm (16" x 18")



DISSIPATIVE BAGS

LABESTAT A100

(package of 100pcs)

Material:

polyethylene, green colour
amine-free, heat sealable, recyclable
ESD and Recycle logos, production batch
100µm
 $< 10^{11} \Omega$

Print:
Thickness
Rs

	opening x depth				
7804.239	76 x 127 mm (3" x 5")	7804.247	150 x 300 mm (6" x 12")	7804.258	300 x 400 mm (12" x 16")
7804.240	100 x 150 mm (4" x 6")	7804.248	200 x 250 mm (8" x 10")	7804.260	400 x 500 mm (16" x 20")
7804.242	100 x 200 mm (4" x 8")	7804.250	200 x 300 mm (8" x 12")	7804.262	400 x 600 mm (16" x 24")
7804.237	100 x 460 mm (4" x 18")	7804.252	200 x 350 mm (8" x 14")	7804.267	450 x 550 mm (18" x 22")
7804.244	150 x 200 mm (6" x 8")	7804.254	250 x 300 mm (10" x 12")		
7804.246	150 x 250 mm (6" x 10")	7804.256	250 x 350 mm (10" x 14")		
		7804.257	300 x 350 mm (12" x 14")		

CLEAR DISSIPATIVE TAPE

Clear Dissipative Tape used to seal shielding bags or boxes.

Generates low electrostatic charge and can be used in EPA.

Material: Cellulose based tape with rubber based adhesive.

Rs: $10^9 - 10^{11} \Omega$ T1000: 2 sec at 25% rH

7807.180
7807.181

Clear Dissipative Tape 12mm x 66m
Clear Dissipative Tape 24mm x 36m

HAND HELD CRIMPER SEALER

Model	7914.172	7914.175	7914.176	7914.177
Weldable material	polyethylene	cellophane, wax paper, aluminium or moisture barrier bags	cellophane, wax paper, aluminium or moisture barrier bags	cellophane, wax paper, aluminium or moisture barrier bags
Soldering lenght (mm)	150	150	300	400
Max. soldering thickness(mm)	2x0,15	2x0,15 Aluminium bag	2x0,15 Aluminium bag	2x0,15 Aluminium bag
Seal width (mm)	2	15	12	12
Power (W)	25	50	320	420
Weight (kg)	0,5	1	2,5	3,5
heating jaws	1	2	2	2
Finishing	flat	embossed	embossed	embossed
Temp.Adjustment	50-200°C	50-200°C	50-200°C	50-200°C



7914.172



7914.175



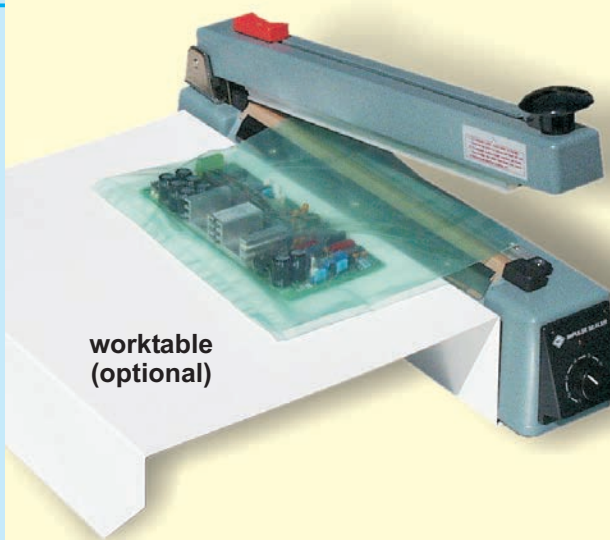
7914.176-177

HAND SEALERS

The welding time is adjustable, to match the type and thickness of material. The models with cutting blade can be used to produce bags from tubing or to seal filled bags and to trim the exceeding material.

Seal width : 2mm
Max.Sealable Thickness : 2x0.125mm

Model		Sealing lenght	Power (Watts)	Weight (Kg)
7914.201		200	260	4
7914.211	with cutter blade	200	260	4
7914.221		300	380	5
7914.222	with cutter blade	300	380	5
7914.231		400	500	6
7914.232	with cutter blade	400	500	6
7914.233	with cutter blade	500	550	7



worktable (optional)



7914.216
stainless steel

HAND SEALER (MEDICAL)

Recommended for the health care industry, creates water-tight seals on sterilisation rolls (paper-plastic) and sterilisation tubing (plastic-plastic) materials.

The welding time is adjustable, to match the type and thickness of material, an audible beep advises when the seal is complete. Each seal has a deeply embossed texture.

- Soldering width: 10mm (according DIN58953)
- Max.Sealable Thickness : 2x0.2mm

Model	Sealing lenght	Power (Watts)	Weight (Kg)
7914.215	200	1000	6,5
7914.216 stainless steel	300	1200	8



Holding Magnet

HAND SEALER WITH HOLDING MAGNET AND CUTTER

The machine operates quickly and efficiently with magnet hold, offering consistent secure sealing for every package. After the seal cycle the machine re-opens automatically.

- Adjustable welding and cooling time.
- Uniform set contact pressure.
- Welds all types of thermoplastic films.
- Easy and simple to operate.

Seal width:
Max. seal thickness:

5mm
2x0.15mm

7914.245

Hand Sealer with holding magnet and Cutting Blade

Max. seal length:

300mm

7914.246

Hand Sealer with holding magnet and Cutting Blade

Max. seal length:

400mm

ACCESSORIES FOR HAND SEALERS

7914.217	Worktable for sealing unit 200mm
7914.227	Worktable for sealing unit 300mm
7914.237	Worktable for sealing unit 400mm
7914.226	Holder for tubing roll, maximum width 310mm
7914.236	Holder for tubing roll, maximum width 510mm



DOUBLE AUTOMATIC HEAT SEALER

Heavy duty, single or double, automatic or manual impulse heat sealer. Seals up to 0.5mm gusseted or regular thermoplastic film.

Separate programmable timers (for sealing, cooling and recycle time when in automatic mode). Foot switch included for manual operation.

Seal width
Max. seal thickness

10mm
2x0.15mm

7914.247

Automatic heat sealer 300mm (2000W - weight 22kg)

7914.247V

Automatic heat sealer 300mm with floor support

7914.248

Automatic heat sealer 450mm (2500W - weight 24kg)

7914.248V

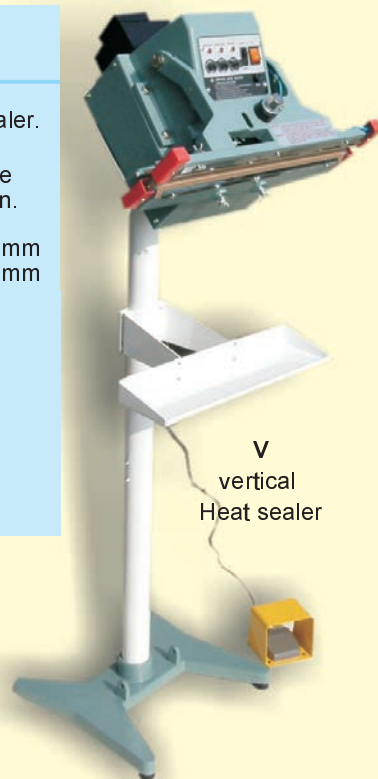
Automatic heat sealer 450mm with floor support

7914.249

Automatic heat sealer 600mm (3000W - weight 26kg)

7914.249V

Automatic heat sealer 600mm with floor support



V
vertical
Heat sealer

AUTOMATIC HEAT SEALER WITH TEMPERATURE CONTROL

Heavy duty, constant temperature, magnet hold, automatic or manual impulse heat sealer.

The machine is suitable for heavy bags like poly-cello films, aluminum foil or moisture barrier bags.

Each seal has a deeply embossed texture.



Seal width
Max. seal thickness
Temperature range
Sealing time
Recycle time (automatic mode)

15mm
2 x 0.25mm
30 - 199°C
0,2 - 2,5 sec
1 - 8 sec

7914.163

Constant automatic heat sealer 200mm (350W - weight 15kg)

7914.165

Constant automatic heat sealer 400mm (520W - weight 19kg)

7914.166

Constant automatic heat sealer 600mm (600W - weight 22kg)

AUTOMATIC BAND SEALERS



7914.191

These versatile portable band sealers, available in horizontal and vertical feed, are designed for sealing all kinds of plastic materials and bag.

The vertical model is ideal for the packaging of bags containing spillable items such as powders or liquids.

Standard embossing attachment allows to print date and lot coding on the bag (till to 39 numbers)

Model	External dimensions (mm)	Conveyor width (mm)	Weight (kg)
7914.190 horizontal	805x460x280(H)	150	30
7914.191 vertical	805x320x640(H)	150	30
7914.192 horizontal	805x610x280(H)	300	32
7914.193 vertical	805x370x640(H)	300	32

Construction	stainless steel
Seal width	8mm
Max. Seal thickness (PE)	800µm
Max. Length of the bags	300mm
Conveyor speed	0-12m/min
Max. conveyor load	6kg
Temperature range	30-300°C
Power	500W

7914.190	Horizontal automatic band sealer, conveyor width 150mm
7914.191	Vertical automatic band sealer, conveyor width 150mm
7914.192	Horizontal automatic band sealer, conveyor width 300mm
7914.193	Vertical automatic band sealer, conveyor width 300mm



7914.190



SHRINK WRAP SYSTEM

- Works on monofolded shrink film (already perforated to let the air flow out).
- Sealing bar with timer, to be used in 2 steps.
- Warming by means of a heating gun, 2 speeds.

Model	Sealing lenght (mm)	Sealer Power (Watts)	Heat Gun Power (Watts)
7914.255	450	350	600/1200
7914.257	600	450	600/1200

VACUUM TANK SEALERS

7914.262	Vacuum tank sealer
Seal length	400 x 5 mm
Vacuum pump	Oil bath, 20m³/h.
Chamber capacity	410x400x90 mm
Power supply:	230V/50Hz 2kW

7914.263	Vacuum tank sealer
Seal length	450 x 5 mm
Vacuum pump	Oil bath, 20m³/h.
Chamber capacity	460x450x90 mm
Power supply:	230V/50Hz 2kW



VACUUM PACKING MACHINES FOR EPA AREA

VACULAB - EXTERNAL ASPIRATION



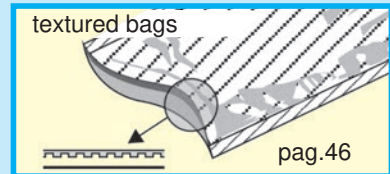
7914.359 Vacuum bag sealer, external aspiration, 450mm

Seal length : 450 mm
 Soldering jaws: 2 x 6mm
 Vacuum pump : Dry , 3m³/h.
 Noise: <65dB
 External dimensions : 490x390x220mm
 Power supply: 230V/50Hz - 600W

With these economic and flexible machines is possible to package every length of bag.

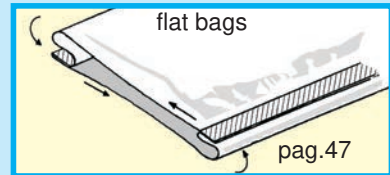
The unit is hand operated and the degree of vacuum is achieved by the operator's valuation.

The air is strongly sucked out from the bag's opening, so it is needed to use textured bags.



Flat barrier bags for electronic appliances are ESD dissipative and show good EMI/RFI shielding properties.

When using external aspiration vacuum sealers make sure that the two lateral bag borders are out of alignment in order to obtain two little air suction channels..



VACUWELD - VACUUM TANK SEALERS

The VACUWELD machines have been designed to avoid electrostatic charges, for the use in ESD environments: stainless steel chamber, aluminium cover and conductive wheels.

Digital adjustment of vacuum, controlled by an internal vacuum sensor.

7914.278 Vacuum tank sealer
7914.279 Vacuum tank sealer, with inert gas injection

The use of an oil pump let the sealer to reach a high vacuum level.

Maximum vacuum level **98%** (measured at the sea level)
 Seal length 450 x 5 mm
 Vacuum pump Oil bath, 20m³/h.
 Chamber capacity 450x500x90(H) mm
 Power supply: 230V/50Hz 2kW



7914.275



7914.278

7914.275 Vacuum tank sealer

The use of a compressed air-driven vacuum pump, minimizes noise, vibration and heat generation.

Maximum vacuum level **90%** (measured at the sea level)
 Seal bar: 460 x 10mm
 Useful chamber size: 500 x 600 x 100(H)mm
 Air requirements: 6nl/s at 6ATM
 Power supply: 230V/50Hz 1kW

WIRE SHELVING

Solid CONDUCTIVE shelving, in chrome plated steel, resistant to rust, bumps and scratches.

This system allows an efficient air circulation, a good light penetration and the maximum accessibility.

Easy to assembly on field, it doesn't require any screws, bolts or tools.

Split sleeve assembly device locks shelves in place in 1" increments along height of post.

Levelling bolt compensate for uneven floors.

Every wire shelf system can be made mobil by using conductive castors.

VINYLAB mat optional cover, 2 layers, grey ESD

Load capacity for single shelf: 150 kgs

Load capacity for shelving unit: 800 kgs

Composition

The Starter Unit, the first one, is composed by two, three or four shelves by choice, and four posts.

An Add-on Unit, to be attached to the preceding, needs two posts only. This unit connect to the Starter Unit by mean of "S" hooks, two for shelf, easy to fix. In this case two split sleeves for shelf will be enough (For a total of two "S" hooks and two split sleeves for shelf).



Shelf Dim. (mm)	Shelf	VINYLAB mat
350x910	8103.990	8104.140
350x1220	8103.991	8104.141
455x910	8104.001	8104.142
455x1220	8104.002	8104.143
455x1525	8104.003	8104.144
455x1830	8104.000	8104.145
610x910	8104.004	8104.146
610x1220	8104.005	8104.147
610x1525	8104.006	8104.148
610x1830	8104.007	8104.149

8104.020
8104.021
8104.022
8104.023

Post H= 864mm
Post H=1370mm
Post H=1600mm
Post H=1890mm

8104.108
8104.060
8104.061
8104.050

Esd Document holder A4 - 2 magnets included
Aluminium split sleeve (optional)
Chromed plastic split sleeve (optional)
"S" Hooks for Add-on Unit.



8104.050

Side and back ledges (3)

Side and back ledges 100mm height to avoid dangerous falls.

8104.130
8104.131
8104.135

Ledge 100mm x 455mm
Ledge 100mm x 610mm
Ledge 100mm x 762mm

SMD reel shelf (4)

8104.012

SMD reel shelf 455 x 910mm

8104.013

Reel capacity: 78, DIA.180mm x width. max.17mm

SMD reel shelf 455 x 910mm

Reel capacity: 15, DIA.330mm x width. max.50mm



8104.060
Aluminium ESD split sleeve (optional)

8104.061
Chromed plastic ESD split sleeve (optional)



Plastic split sleeve included with shelves



8104.101

Fixed Label-holder (1)
Fixed Label-holder 80mm

8104.110
8104.111

Divider (2)
Shelf Dividers 455x200(H)mm
Shelf Dividers 610x200(H)mm



1



2



3



4

WIRE CARTS

Two version of it: with 2 U-handles or 4 posts.

The shelves are the same used in the shelving unit, easy to assembly with split sleeve devices to avoid any tools, screws and bolts.

Load capacity :

200 kgs

8104.041

U-handle 455mm width, 876mm height

8104.042

U-handle 610mm width, 876mm height

8104.046

Handle 455mm

8104.047

Handle 610mm

8104.070

Set of 4 conductive castors Ø125mm(2 with brake)

8104.071

Set of 4 NON-ESD castors Ø125mm(2 with brake)

Composition A:

2 U-handles, 1 set of castors ,
3 shelves and 12 split sleeves

Composition B:

1 handle, 4 posts, 1 set of castors
2 shelves, 12 split sleeves and 2 VINYLAB mats



STAINLESS STEEL CARTS

Stainless steel carts - AISI304 with solid conductive wheels Ø125mm, 2 with brake.

TWO/THREE SHELF CART (A)

Load capacity for single shelf:

50kg

8104.700

2 U-handle KIT, with conductive wheels

8104.706

Shelf - dim. 800 x 500mm

8104.708

Shelf - dim. 1000 x 500mm

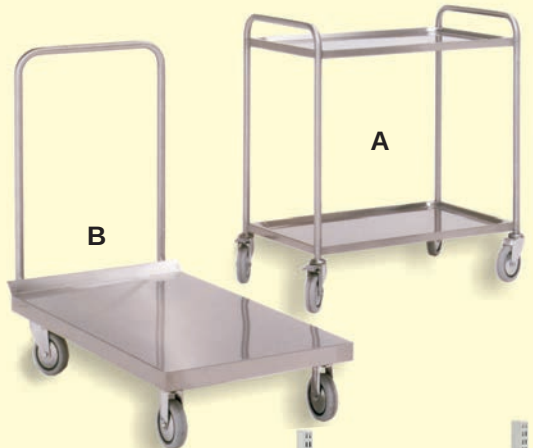
CART FOR STUFF (B)

Load capacity :

200kg

8104.720

Trolley - dim. 1000 x 550mm



TRESTON TROLLEY

TRESTON TROLLEY ESD (C)

Storage trolley is an easy solution for mobile storage, it has an adjustable middle shelf and all shelves are fitted with standard rubber mats.

Set of 4 ESD castors diam. 100mm (2 with brake)

S852773-49

TRESTON TROLLEY ESD (C)

dim. 650x450x775mm, max. load 3x30kg

TRESTON BASIC TROLLEY ESD (D)

The Basic Trolley can be equipped with several accessories to transport and store tools and electronic components. The standard version (in picture) includes 4 shelves dim. 720x560x32mm, with a max. load of 150kg/each.

This standard version also includes the lower shelf with rubber mat. Set of 4 ESD castors Ø125mm (2 with brake).

SC74049003

TRESTON BASIC TROLLEY ESD (D)

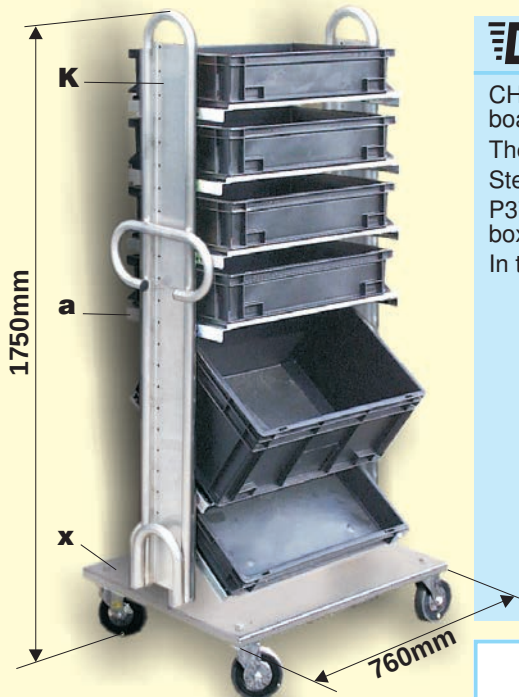
dim. 800x715x162mm, max. load. 350kg



C



D



CHARIOTTE TROLLEY FOR NEWBOX

CHARIOTTE conductive trolleys are ideal for efficient handling of tote boxes, circuit board carriers, cabinets and other parts handling containers.

The basic unit consist of two lateral support posts on a stable, wide based assembly. Steel shelves are adjustable in height, depth and tilt angle.

P370 shelf, without fittings, can accomodate one EURO 600x400 or two EURO 300x400 boxes.

In the table below are listed the parts forming the trolley shown left.

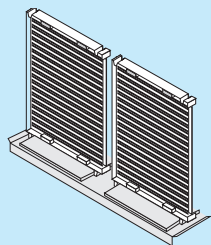
code	description	ref.	Qnt.
8100.050	Stainless steel baseplate with castors	x	1
8100.054	Stainless steel lateral support post	H	
8100.055	Stainless steel lateral post with handle	K	2
8100.056	A4 document holder	J	
8100.065	P370 shelf 370x630mm	a	6 in figure
8100.066	P600 shelf 600x630mm NEWBOX tote boxes (cat. page 22)		6 in figure

Load capacity for single shelf: 50kg

CHARIOTTE TROLLEY FOR LABERACK

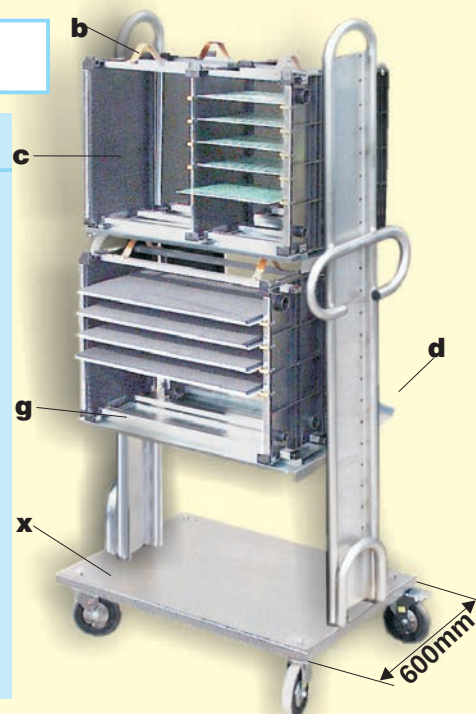
CHARIOTTE conductive trolley can be customized to carry Printed Circuit Boards or LABEFIX trays. The trolley shown in figure consists of four LABERACK carriers, securely housed on the two special double support shelves.

In the table below are listed the parts forming the trolley shown right



LABERACK housing
on shelf

code	description	ref.	Qnt.
8100.050	Stainless steel baseplate with conductive castors	x	1
8100.054	Stainless steel lateral support post	H	
8100.055	Stainless steel lateral post with handle	K	2
8100.056	A4 document holder	J	
8100.068	Double shelf for 2 LABERACK racks	d	2
7804.007	LABERACK wall	c	
7804.017	LABERACK intermediate wall		
7804.002	LABERACK aluminium bar (600mm lenght)	g	
7804.021	LABERACK handle for transport (rail fixing)	b	rack



PC BOARD STORAGE & TRANSPORT LABECART

A mobile PCBs' store, ideal for transporting work process and storing large quantities of board.

Adjustable panels with horizontal slides feature 12,54mm(1/2") spacing.

Made by stainless steel structure and conductive plastic panels. 84 slides per side, accepts boards or trays up to 9mm thickness.

Load capacity: 250kg

8104.312

Stainless steel lateral support post pair

8104.318

Stainless steel stud Ø 25x1000mm (n.6 each cart)

8104.327

Side wall 1120x510mm / 84 rails

8104.325

Intermediate wall 1120x510mm / 84 rails each side

8104.330

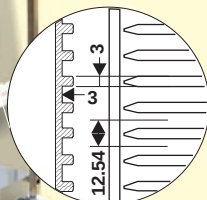
Lower stainless steel shelf 660x1000mm

8104.695

ESD wheel kit, Ø 125mm (2 with brake)

8104.696

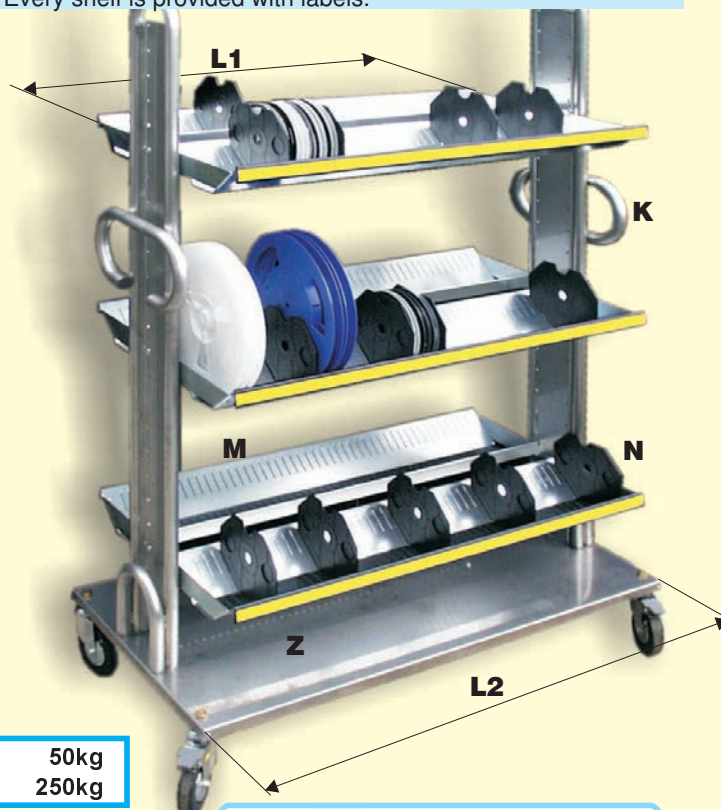
NON-ESD wheel kit, Ø 125mm (2 with brake)



CHARIOTTE SMD REEL HOLDER



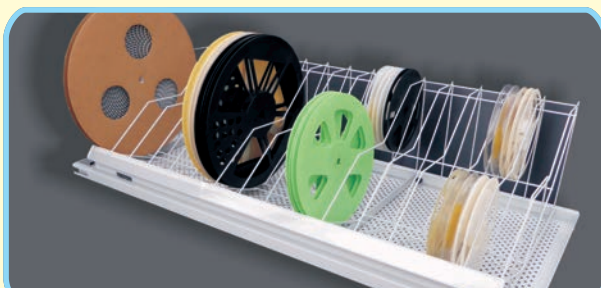
CHARLOTTE reel holder is designed to prepare and transport the SMD reels to the assembly area, and mainly to make the replacement of empty reels on the automatic machines. The capacity of the trolley is 4 shelves for reel size 330mm and 5 shelves for reel size 220mm. Steel shelves are adjustable in height, the mobile dividers help to compartmentalize the reels. Every shelf is provided with labels.



code	description	ref.	Qnt.
8100.050	Stainless steel baseplate with castors, 600 x 760(L2) mm	x	
8100.049	Stainless steel baseplate with castors, 600 x 1130(L2) mm	Z	1
8100.054	Stainless steel lateral support post	H	
8100.055	Stainless steel lateral support post with handle	K	2
8100.056	A4 document holder	J	
8100.073	Double shelf for SMD reel support L1 = 630mm 29 slits for side, pitch 20mm		
8100.074	Double shelf for SMD reel support L1 = 1000mm 49 slits for side, pitch 20mm	M	3
8100.075P	Divider for SMD reels	N	

Load capacity for single shelf: 50kg
Load capacity: 250kg

TRESTON SMD REEL HOLDER



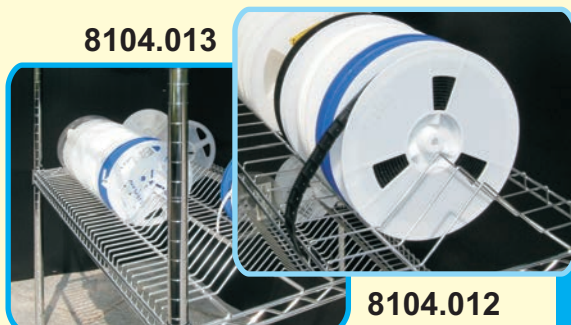
The adjustable reel holder trolley is compatible with SMD reels, and suitable for transport and stocking of them. All parts are powder coated steel, RAL7035 ESD. The trolley has four perforated steel shelves depth 28mm. All shelves are individually adjustable.

The load capacity of one shelf is 50kg, and the load capacity of the trolley is 200kg.

8100.020 Trolley with four shelves and wheels (reel holders not included)
7805.698 Reel rack Ø 180 / 330 / 380mm Dim.960x426x254(H)mm



8104.013



SMD REEL HOLDER (wire shelving page 54)

The Wire Reel Holders can be combined with the standard wire shelves and posts. (see page 54)

8104.012 WIRE SHELF for 180mm SMD reels - 455x910x95(H)
Slot opening 16mm - Reel capacity /shelf: about 78
8104.013 WIRE SHELF for 330/380mm SMD reels 455x910x108(H)mm
Slot opening 50mm - Reel capacity /shelf : about 15

8104.012



CHARIOTTE TRAY TROLLEYS

Supporting structure made of tubular AISI 304 stainless steel.

⌒ - shaped tray control guides, made of stainless steel with back stops.

Chariotte trolleys with height of 1520mm shall be equipped with 1 stiffening cross on the back side and 1 central tie rod on front side.

Pivoting conductive wheels , Φ 125mm (2 with brakes)

The optional stainless steel shelf, can be placed on the bottom and on the top.

- 8104.605 (A) Lateral support post pair, 20 rails 825(H) x 400(P)mm
 8104.607 (A) Lateral support post pair, 20 rails 825(H) x 660(P)mm
 8104.610 (A) Lateral support post pair, 38 rails 1520(H) x 400(P)mm
 8104.612 (A) Lateral support post pair, 38 rails 1520(H) x 660(P)mm

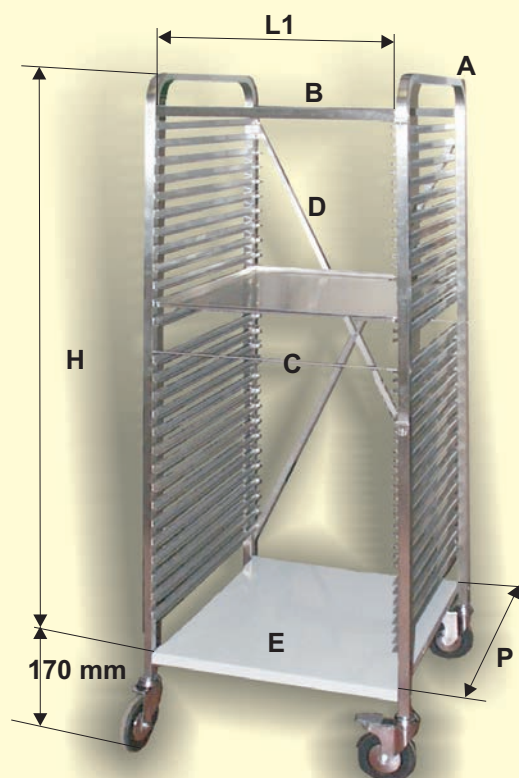
- 8104.650 (B) STRINGER 25 x 25 x 508(L1)mm
 8104.651 (B) STRINGER 25 x 25 x 538(L1)mm
 8104.654 (B) STRINGER 25 x 25 x 808(L1)mm

- 8104.660 (C) Central tie rod Φ 8X 508(L1)mm
 8104.661 (C) Central tie rod Φ 8X 538(L1)mm
 8104.664 (C) Central tie rod Φ 8X 808(L1)mm

- 8104.685 (D) Stiffening cross 1520(H)x508(L1)mm
 8104.686 (D) Stiffening cross 1520(H)x538(L1)mm
 8104.687 (D) Stiffening cross 1520(H)x808(L1)mm

- 8104.670 (E) Inox SHELF 10/10 400 (P) x 508(L1)mm (optional)
 8104.674 (E) Inox SHELF 10/10 660 (P) x 508(L1)mm (optional)
 8104.675 (E) Inox SHELF 10/10 400 (P) x 538(L1)mm (optional)
 8104.676 (E) Inox SHELF 10/10 660 (P) x 538(L1)mm (optional)
 8104.678 (E) Inox SHELF 10/10 400 (P) x 808(L1)mm (optional)
 8104.682 (E) Inox SHELF 10/10 660 (P) x 808(L1)mm (optional)

- 8104.695 Conductive wheels KIT, Φ 125mm (2 with brakes)
 8104.696 Set of 4 NON-ESD castors, Φ 125mm, (2 with brakes)



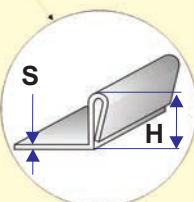
Load capacity 350kg

welded corners

P

L2

Anti-injuries lap



ALUMINIUM TRAYS

Flat trays, made of aluminium alloy 3003 with anti-injuries laps. Welded on the corners.

Code	S	H	L2xP	L1
8104.580	1.2	12	500x330	508
8104.582	1.2	12	500x390	508
8104.584	1.2	15	500x650	508
8104.587	1.2	12	535x290	538
8104.588	1.2	12	535x600	538
8104.592	1.2	15	800x330	808
8104.594	1.5	15	800x390	808
8104.596	1.5	16	800x650	808

TRESTON **WORKBENCHES TP**

Ergonomic workbench is suitable for light assembly.

Frames are of epoxy powder coated steel in grey RAL7035

The worktops are of 25 mm ESD-laminate Height adjustment with allen-key between 650 to 900 mm.



TP 510 ESD	500 x 1000mm	charge max. 150kg
TP 710 ESD	700 x 1000mm	charge max. 300kg
TP 712 ESD	700 x 1200mm	charge max. 300kg
TP 715 ESD	700 x 1500mm	charge max. 300kg
TP 718 ESD	700 x 1800mm	charge max. 300kg
TP 915 ESD	900 x 1500mm	charge max. 300kg
TP 918 ESD	900 x 1800mm	charge max. 300kg

TRESTON **STEEL CABINET 45**

Suitable for TP/TPH/WB benches of 700 mm depth and over, Centrally locked high quality steel cabinet for storage of tools and small components. Mounted under workbenches with brackets (included).

Steel cabinets are semiconductive epoxy powder coated in grey paint, RAL 7035.

One model 7804.563 available as an independent tool trolley, with wheels 100 mm diameter, two with brakes.

Full width drawer handle in anodised aluminium. Smooth and quiet telescopic ball-race runners and clear opening of 375 mm.

Load capacity: 30 kg/drawer.

Drawers size: 380 x 500 mm (Width x Depth).



code	7804.533	7804.543	7804.553	7804.563	7804.573
drawer outer height (mm)	1X100	2X100	3X100 1X200	3X100 1X200 with castor	3X100 2X150 with base
outer dimensions (mm)	450x520x140	450x520x260	450x520x560	450x520x700	450x520x660



Workbench with upright profiles and a laminate shelf, depth 310 mm, height adjustment 1080 to 1550mm

Worktop height adjustment with allen-key, between 650 - 900mm

Frames are of epoxy powder coated steel in dark grey RAL 7035.

The worktops are of 26 mm laminated particle board

Load capacity 300 kg equipment static u.d.l.



TPH 712 ESD
TPH 715 ESD
TPH 718 ESD
TPH 915 ESD
TPH 918 ESD

Workbench top dimensions 700 x 1200mm
Workbench top dimensions 700 x 1500mm
Workbench top dimensions 700 x 1800mm
Workbench top dimensions 900 x 1500mm
Workbench top dimensions 900 x 1800mm



CORNER WORKBENCH

TPH 707 KK ESD
TPH 909 KK ESD

Corner Workbench
with top dimensions 1100 x 1100mm
Corner Workbench
with top dimensions 1300 x 1300mm



AUXILIARY SHELF SH

Height adjustable shelf, 26mm ESD laminate

SH 120 ESD
SH 150 ESD
SH 180 ESD

dim.310 x 1200 Suitable for TPH712
dim.310 x 1500 Suitable for TPH715/915
dim.310 x 1800 Suitable for TPH718/918



METAL SHELF TH

For stacking and picking bins Tecofix 5
Adjustment for depth, height and angle.
Load capacity 30kg

TH 120 ESD
TH 150 ESD
TH 180 ESD

dim.145 x 1119 Suitable for TPH712
dim.145 x 1419 Suitable for TPH715/915
dim.145 x 1719 Suitable for TPH718/918



Movable Benches



>>> go to page 29

Tecofix



>>> go to page 27



TOOL AND LIGHTING SUPPORT KT

For suspending power tools and lighting units includes one C-profile bar with sliding hook

KT120
KT150
KT180

C-profile bar, for bench 1200mm
C-profile bar, for bench 1500mm
C-profile bar, for bench 1800mm

CC12

Cable clip set (5 pcs)

CKV400ESD Swivel arm with tray 210x460mm, Load 15kg



CC12 Cable clip set
(5 pcs)



CABLE TIDY TPHCT

Mounted between C-profiles below worktop
Perforated epoxy powder coated steel

TPHCT 120

45 x 205 x 1115 Suitable for TPH712

TPHCT 150

45 x 205 x 1415 Suitable for TPH715/915

TPHCT 180

45 x 205 x 1715 Suitable for TPH718/918



CKV400ESD

Swivel arm with tray
210x460mm Load 15kg

CABLE CHANNEL TJK

TJK150 SET
TJK180 SET

with switch and 6 Schuko socket - 1500mm
with switch and 6 Schuko socket - 1800mm



OVERLIGHT DL254

OL254

Silver gray lighting unit with a matte anti-dazzle screen, with switch and 3 m cable. Length: 1200 mm. 2 x 54W fluorescent tubes.

OL254 D

Silver gray lighting unit with dimmer.

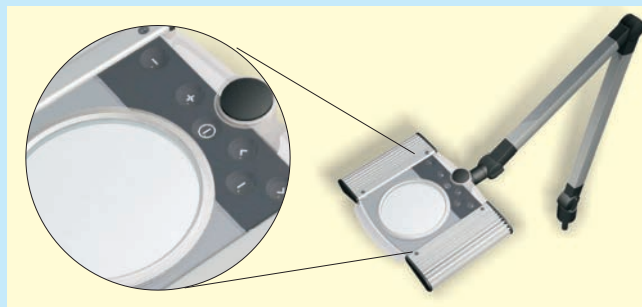


MAGNIFYING LED TASK LIGHT

The ZL3 Task Light is the ideal desk-mounted lamp for precise work. Together with a large built-in magnifying glass, six LED - bulbs and independent left/right dimming functionality, this light gives superb control. ZL3 is easy to secure on any work surface of 55 mm or less.

ZL3

LED task light, 3 diopter magnifying glass
127mm diameter.



TRESTON SHELF CABINETS



Designed to store electronic components.

Delivered pre-assembled.

The metal frame is epoxy powder coated with a light grey ESD paint.

Shelves can be installed in different position at 80mm pitch distance.

There are leveling screws under the cabinet for adjusting the cabinet straight, and the door are key lockable.

The empty cabinet can be lift up with forks.

Maximum load capacity 150 kg./shelf

SC10050100

ESD SHELF CABINET with 2 shelves, 1030x530x1010 mm

SC10050200

ESD SHELF CABINET with 4 shelves, 1030x530x2010 mm

S852185-49

Extra shelf with brackets



- Suitable for use in demanding assembly environments.
- Adaptable to a large variety of tasks.
- Offering a wide range of accessories to meet any need.

Select the height adjustment method: allen-key, electric or crank.

Stepless height adjustment between 700-1100 mm.

The adjustment system in both cases utilises interlocking, aluminium profiles, providing a strong, rigid frame.

Steel frame parts are epoxy coated light grey paint, RAL 7035. Worktops are of 25 mm ESD laminate particle board, adjustable feet are provided for fine levelling.

Cable tidy as standard with crank and electric adjustable benches. Load capacity 200 kg (250 kg with allen-key adjustable bench).



Design your own workstation with Treston's 3D configurator at:

www.treston.com

ALLEN-KEY ADJUSTABLE BENCH

WB811 ESD	1073 x 800 mm Max load 250 kg
WB815 ESD	1500 x 800 mm Max load . 250 kg
WB818 ESD	1800 x 800 mm Max load . 250 kg



CRANK ADJUSTABLE BENCH

WB811 C ESD	1073 x 800 mm Max load 200 kg
WB815 C ESD	1500 x 800 mm Max load 200 kg
WB818 C ESD	1800 x 800 mm Max load 200 kg



ELECTRIC ADJUSTABLE BENCH

WB811 EL ESD	1073 x 800 mm Max load 200 kg
WB815 EL ESD	1500 x 800 mm Max load . 200 kg
WB818 EL ESD	1800 x 800 mm Max load . 200 kg



UPRIGHT PROFILES AL2X

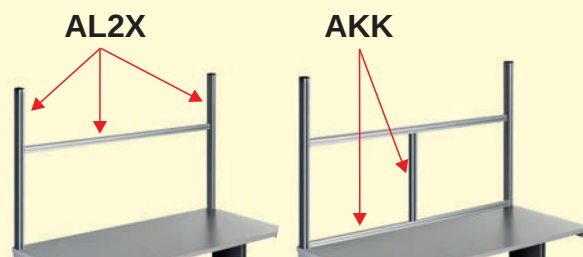
Needed for mounting accessories to WB benches. Includes 2 vertical and 1 horizontal profile. With 3 cable clips (CC8).

AL2X110 W	1063 x 900 Suitable for WB811
AL2X150 W	1489 x 900 Suitable for WB815
AL2X180 W	1789 x 900 Suitable for WB818

ACCESSORY FRAME AKK

The accessory frame divides the space between the upright profiles. Includes 1 vertical and 1 horizontal profile. Useable height 500 mm.

AKK70	730 x 540 Suitable for AL2X150 W, AL2X180 W
AKK150	690 x 500 + 690 x 500 Suitable for AL2X150 W
AKK180	690 x 500 + 990 x 500 Suitable for AL2X180 W



SUPPORT BRACKET HSB



Support bracket of steel for suspending power tools and lighting units. Mount on upright profiles.

HSB110

Length 1073 mm Suitable for AL2X110 W

HSB150

Length 1500 mm Suitable for AL2X150 W

HSB180

Length 1800 mm Suitable for AL2X180 W



861956-00

Width 1230 mm, lighting level 1 m ~ 1800 lx

SHELF ALH



Height adjustable shelf. 25 mm laminated particle board. Load capacity 50 kg. Mount on upright profiles..

ALH110 ESD

1073 x 310 Suitable for WB811

ALH150 ESD

1500 x 310 Suitable for WB815

ALH180 ESD

1800 x 310 Suitable for WB818



AKV400 ESD

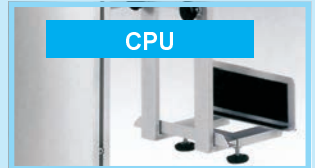
Swivel arm with tray 210 x 460 mm. Load 15 kg.

POWER CHANNEL CJK



CJK70 SET

SET 3 double sockets (n.6 Schuko) and a switch 3 m cable is included.



CPU

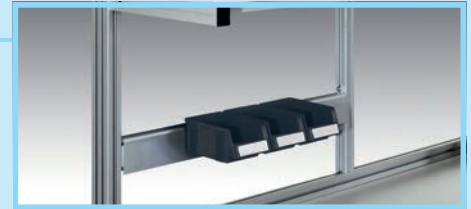
An adjustable holder for either vertical or horizontal CPU

BIN PROFILE BP

Aluminium profile for stacking and picking bins. Mount on accessory frame AKK.

BP70 ESD
BP100 ESD

Length 685 mm Suitable for AKK70, AKK150, AKK180
Length 985 mm Suitable for AKK180

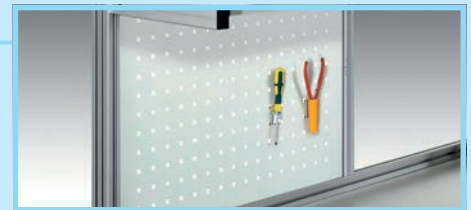


PERFORATED PANELS ARL

Mount on accessory frame AKK. The size of the perforation is 9 x 9 mm, center to center 38 mm.

ARL70
ARL100

668 x 500 Suitable for AKK70, AKK150
968 x 500 Suitable for AKK180



DOCUMENT STAND WDA

Document stand A3 with swivel arm. Epoxy powder coated steel: light grey. Arm length 220 mm. Tilt 75°.

WDA ESD

440 x 300 Suitable for AL2X upright profiles



ADJUSTABLE SHELF ASH

Continuous adjustment for depth, height and angle. Shelf of 25 mm laminated particle board. Lipped front edge. Load capacity 35 kg static load. Mount on accessory frame AKK.

ASH70 ESD
ASH100 ESD

660 x 400 Suitable for AKK70, AKK150, AKK180
960 x 400 Suitable for AKK180



CHAIRS



Comfortable static safe chairs designed to improve job efficiency and productivity.
 Chrome -plated metal parts - Pneumatic seat height adjustment - Standard self-braking conductive castors
 Rg to ground < $1 \times 10^{10} \Omega$

COMFORT

ESD chairs with durable dissipative fabric, anthracite color. Synchronized seat and backrest mechanism lockable in different positions, anti-return system of the backrest, adjustment of intensity based on the weight of the person.

code	back rest dimensions (mm)	backrest adjustment	seat dimensions (mm)	seat height (mm)
7804.209A	580 x 400	synchronous movement	510 x 480	420 ÷ 550

CLASSIC / STANDARD

ESD chair with long wearing dissipative upholstery, antracite colour

code	back rest dimensions (mm)	back rest angle	seat dimensions (mm)	seat height (mm)
7804.204S	380 x 240	fix.	390 x 460	480 ÷ 580
7804.208	390 x 360	adj.		



7804.204

7804.204R

CLASSIC / HIGH WITH FOOT-PLATE

ESD chair with long wearing dissipative upholstery, antracite colour

code	back rest dimensions (mm)	back rest angle	dimensioni seduta (mm)	seat height (mm)
7804.204	380 x 240	fix.	390 x 460	500 ÷ 700
7804.204R	390 x 360	adj.		



PU / STANDARD

ESD chair in black dissipative PU foam

code	back rest dimensions (mm)	back rest angle	seat dimensions (mm)	seat height (mm)
7807.338	400 x 250	fix.	450 x 460	450 ÷ 580
7807.345	400 x 380	adj.		



7807.336

7807.341

PU / HIGH WITH FOOT-PLATE

ESD chair in black dissipative PU foam

code	back rest dimensions (mm)	back rest angle	seat dimensions (mm)	seat height (mm)
7807.336	400 x 250	fix	450 x 460	500 ÷ 680
7807.341	400 x 380	adj		

YOUNG / STANDARD

ESD chair with long wearing dissipative upholstery, antracite colour

code	back rest dimensions (mm)	back rest angle	seat dimensions (mm)	seat height (mm)
7807.315	380 x 230	fix.	450 x 460	490 ÷ 590
7807.317	420 x 480	adj.		



7807.315

7807.317



7807.320

7807.322

YOUNG / HIGH WITH FOOT-PLATE

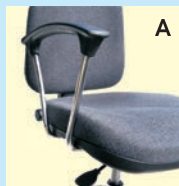
ESD chair with long wearing dissipative upholstery, antracite colour

code	back rest dimensions (mm)	back rest angle	seat dimensions (mm)	seat height (mm)
7807.320	380 x 230	fix.	450 x 460	560 ÷ 720
7807.322	420 x 480	adj.		

OPTIONS

On request, other versions of chairs can be done by mounting the options described below, simply add the suffix letter to the code of the chair.

Suffix	Option
A	Armrest
G	Conductive rubber castor (replacing standard castor)
P	Glide (replacing standard castor)



A



G



P

(does not leave marks on the floor)

DISSIPATIVE CHAIR COVER SET

Made of grey conductive woven fabric, the dissipative chair covers are designed to make a conventional padded factory chair more suitable for use in an EPA. The covers easily fitted on all chair types, are supplied with the cables to connect the back rest to the seat and the seat to the earth (by means of a 1MΩ series resistor)

7804.197

Dissipative CHAIR COVER SET, 2 cables included

LEADER ON THE MARKET

Since 2010 Simco and Ion System, the leaders in the production of Ionization System for the Electronic Industry, belong to the same Group.

It is the beginning of a real and effective partnership.

This will sort big benefits for all the End User, which will find a combined offer with the best solution offered by the two producers. Big benefits too for the Research and Development of new products as they will join and merge knowledge to reach the top level of technology and quality.

IONIZATION SIMCO-ION

- low decay time
- reduced airflow
- clean room compatible
- balanced
- IEC 61340-5-1

ACTIVE PROTECTION SYSTEM

Where grounding of some equipment or parts of equipment through traditional earthing techniques is impractical, where it is impossible to exclude all charging materials from the area, the use of suitable ionizers is highly recommended. Air ionization systems work by flooding the atmosphere with positive and negative ions.

When the ionized air comes in contact with a charged surface, the surface attracts ions of the opposite polarity. As a result the static electricity that has built up on products and equipment is neutralized.

Ions do remove small particles or smoke and pollens from the air, and subjective research suggest that people working in ionized area are happier.

The generated ozone is lower than 0.002ppm after 24 hours accumulation, conform to OSHA requirements.



6422/E POINT OF USE IONIZING BLOWER

The smallest and most versatile blower available for equipment or local area ionization. It is ideal for use inside or on top of production equipment. Battery operated model is very useful on field service call.

Discharge time
Emitter points
Air flow:
Power requirement
Dimensions:

from $\pm 1000V$ to $100V \leq 10s$ at 60cm
Tungsten alloy, internally shielded, 5 year life
15m³/h
24Vac 5W
11.4 x 8.4 x 5.1 cm

9265.560
9265.577

Point-of-use ionizing blower, 24Vac
Wall transformer 230Vac/24Vac 32W

6432/E LOCAL AREA IONIZING BLOWER

Controls static discharge in mid-sized areas, it is indicated for general workbenches applications, conveyors, equipment.

Discharge time from $\pm 1000V$ to $100V \leq 7s$ at 60cm
Emitter points Tungsten alloy, internally shielded, 5 year life
Air flow: 80m³/h
Coverage area 122x46cm
Power requirement 230Vac / 6W

9265.576

Local area ionizing blower



LOCAL AREA IONIZING BLOWER AEROSTAT PC

High performance compact ionizing blower, features an adjustable air flow speed and integrated heater. Suitable for workbenches, conveyors, robotics, packaging.

Decay Time:
Emitter:
Air Flow:
Coverage Area:
Power requirement:
Auto-balance:

$\pm 1000V$ to $100V \leq 2.5s$ at 60cm
Patented emitter point cleaner
120 m³/h at high speed
150x30cm
230Vac
0 $\pm 5 V$

9265.578

Local Area Ionizing Blower AEROSTAT PC, 230V



TURBO IONIZING BLOWER XC2

The Turbo Blower is designed to achieve full control in any environment, it is ideal to cover large areas.

The fan can work at 3 different speed and has heater incorporated to grant a good comfort (heater can be turned on or off). Easy cleaning of the emitters with the "Emitter Clear Button". The decay time is minimum due to the high performance of this ionizer.

Decay Time:	$\pm 1000V$ to $100V \leq 3.5s$ at 60cm
Emitter cleaning:	"Emitter Clear Button"
Air Flow:	250 m ³ /h at high speed
Power requirement:	230Vac
Auto-balance:	$0 \pm 10 V$

9265.602

Turbo Ionizing Blower XC2, 230V



OVERHEAD IONIZING BLOWER GUARDIAN



Decay Time:	$\pm 1000V$ to $100V \leq 6s$ at 45cm
Emitter:	Patented emitter point cleaner
Air Flow:	500 m ³ /h at high speed
Coverage Area:	120x60cm
Power requirement:	230Vac
Auto-balance:	$0 \pm 5 V$

9265.610

Overhead Ionizing Blower GUARDIAN, 230V

It is a 3 fan smart ionizer that provides reliable, adaptable performance in the most static-sensitive environment.

Designed for mounting over the benches, conveyors, it allows a complete 3D neutralization of the static charges, without compromising space over the table, and in the most comfortable environment.

Equipped with 3 fan, adjustable air flow, heater, 13W twin tube fluorescent light, and emitter cleaning system.

CR2000 OVERHEAD IONIZER FOR CLEAN ROOM



Decay Time:	$\pm 1000V$ to $100V \leq 3s$ at 45cm
Emitter:	Patented emitter point cleaner
Air Flow:	450 m ³ /h at high speed for the 3 fan / 300 m ³ /h for the 2 fan
Coverage Area:	120x60cm for the 3 fan version / 90x60cm for the 2 fan
Power requirement:	230Vac
Auto-balance:	$0 \pm 5 V$
Clean room:	Compatible with Class 10

9265.620

CR2000 overhead ionizing blower for clean room
2 Fan, 230V – length 81cm

9265.622

CR2000 overhead ionizing blower for clean room
3 Fan, 230V – length 109cm

This ionizer has been designed specifically for critical clean room environment, up to Class 10. It is powerful and efficient with a minimum decay time.

It is normally used suspended over the benches, conveyors and assembling areas.

Equipped with 3 fan, adjustable air flow and emitter cleaning system. Available in 2 version, with 2 or 3 fan.

IONIZING GUNS

Ionizing guns neutralize static charges and clean surfaces using compressed air that is ionized. Like all the ionizers they find application in the electronic industry, but they can be useful in many other contest like mechanical industry, painting works, packing areas, displays cover removing, etc.... This because the neutralization of static charges simplifies the cleaning works and prevents the risk that airborne particles and dust will be attracted again.



6115 LIGHT ANATOMIC GUN

Usable also in clean room, ergonomically designed, light, it is used to blow off charged dust particles from electronic cards and other equipment or materials. Extremely light, anatomic, and with a flexible soft cable (no HIGH voltage passing through this cable)

Gun ergonomic, low-noise, weight 0.34 kg
 Discharge time from 1000 to 100V ≤ 0.5 seconds at 6", 30psi
 Emitter points: Machined Titanium, field-replaceable
 Gas input 20-87psi (1.4-6 bar), Clean dry air or Nitrogen
 Ozone 0.005ppm (24 hour accumulation)
 Noise 70dba at 1m, 30psi
 Power requirement 24Vac - 10W

9265.530

9265.532

Complete kit including hand unit, console, air filter and transformer 220/24Vac
 Additional Filter pack, (Pack of 3) - 0.1 μ m 99,99%EFF

HEAVY DUTY TOP GUN

Designed for heavy duty jobs, due to its high performance, reliability and durability.

There is a flow control valve to adjust airflows for the specific application.

It is completely ESD and can be used even in clean rooms.

The version with sidekick allows "hands free" operation.

Discharge time from 1000 to 100V ≤ 0.5 seconds at 5cm at 60 psi
 Air Input: adjustable to 100 psi (7 bar) max.
 Power requirement: 230Vac
 Noise: 76 dBA at 60cm, 30 psi

9265.520

9265.523

Ionizing Gun TOP-GUN, 230Vac
 Ionizing Gun TOP-GUN, 230Vac
 with flexible support and Sidekick (foot pedal switch)



9265.520



9265.523

6110A AIR CARTRIDGE

The cartridge can be used either for in-line ionization or as ionizing blow-off gun, adapts to compressed air lines. Two models available, one turns off ionizer when air is not flowing.

Weight 170g
 Power 24Vac, 1W, from 9265.544 wall transformer

9265.542

9265.544

Ionizing cartridge, air flow triggered - 24Vac
 Transformer 230/24Vac



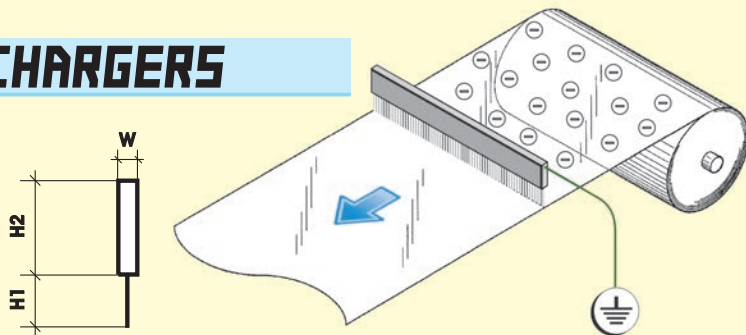
ATTENTION: the cartridge don't withstand high air pressure. It should be installed downstream from any system valves or shutoffs

CARBON FIBRE STATIC DISCHARGERS

Highly efficient anti-static tools which are used to neutralize static electricity on different types of machines including: paper, texture or plastic film handling, packaging, labeling, coding and printing. The brushes housed in an aluminium body contain a large number of highly conductive carbon fibre.

The fibre tips are normally positioned a few millimetres from the material to be neutralized.

The aluminium body must be connected to earth by a 5mm² wire. The brushes are available in different sizes and are custom length supplied.



Code	Length (cm)	W(mm)	H1(mm)	H2(mm)
9266.001	from 10 to 100	5	27	35
9266.003	from 101 to 250	5	27	35
9266.009	from 10 to 110	3,5	20	25
9266.012	from 10 to 60	3	12	12,7



FIELDLAB ELECTROSTATIC FIELDMETER

The 775 electrostatic meter detects and measures intensity and polarity of electrostatic fields.

Indispensable for checking packaging materials, circuit assemblies, ionized areas; this versatile meter offers:

- Digital display in KV from 0 to 20KV at 1"(25.4mm).
- Accuracy $\pm 5\%$.
- LED distancing feature for accuracy.
- Chopper stabilized circuit, for accurate reading in a ionized environment.
- Analog output for recorder.

9265.501
9265.403

Electrostatic Field Meter mod. 775, 9V battery included
Ionizer Verification System
(instrument, charger, plate, cables and carrying case)



The 9265.403 is a Ionizer Verification System which includes a detachable isolated plate and a 1100V charger in addition to the fieldmeter.

Together, the three components can be used to verify ionizer operation and check ion balance and discharge time



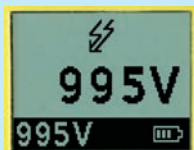
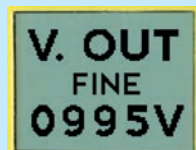
CHARGER EVO

The CHARGER EVO is used to charge insulated plates at a desired voltage.

Settable output: 100V to 1100V (step 1V)
Resolution: 1 Volt
Accuracy: 5%
Dimensions: 124x72x28mm

The additional benefits compared to other chargers are:

- Settable output voltage (step 1V)
- The output voltage is clearly indicated on the LCD and the internal accuracy (5%) allows a rough check of other ESD instrumentation equipments.
- Low battery and overload are clearly indicated.



9265.401

CHARGER EVO with batteries, case, and grounding cord

9265.410

Instrument recalibration
ISO9000 Traceable Certificate is supplied





TREK520 ELECTROSTATIC VOLTMETER

A new type of handheld electrostatic voltmeters provides accurate, noncontacting measurements of electrostatic surface voltage for ESD applications in either ionized or non-ionized environments.

- No need to maintain fixed spacing.
- Inspect small spots for charge accumulation.
- Chopper stabilized circuit for accurate reading in ionized environments.
- 9V alkaline battery included (for 8 hours operating time)

9265.099	TREK520-1	Electrostatic Voltmeter	0 to ± 2 kVDC
	Resolution		1V
	Accuracy	better than 5% of full scale over a probe-to-surface distance of 5 to 25mm.	
9265.100	TREK520-2	Electrostatic Voltmeter	0 to ± 2 kVDC
	Model with Voltage Monitor Output	(1/1000 Vmeas)	
9265.101	TREK523	Electrostatic Voltmeter	0 to ± 20 kVDC
	Resolution		10V
	Accuracy	better than 5% of full scale over a probe-to-surface distance of 30 to 60mm	

WALKING TEST SYSTEM

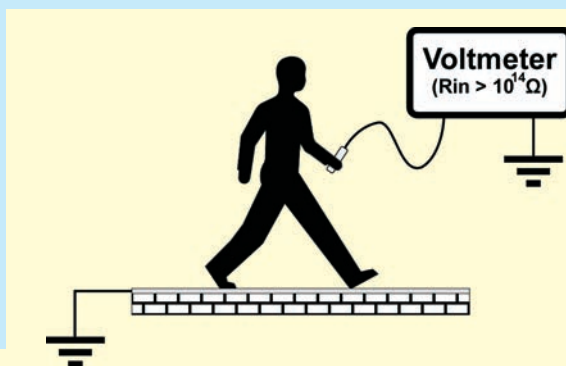
How important is the walking test after the recent update of the IEC EN 61340-5-1 (Rev. 2017-01) "Protection of electronic devices from electrostatic phenomena"?

Here some clarifications

The factory ESD Coordinator, when selecting flooring/footwear system ("personnel standing", without wriststrap connection to ground), often raises the following questions:

"What are the benefits of the Walking Test equipment when I already have a megaohmmeter to measure point-to-point resistance, resistance to ground and surface resistivity? What has changed in the standard IEC 61340-5-1 (Rev. 2017-01) compared to the previous release (Rev. 2007-10)?"

First of all we must note that ESD standards are constantly evolving and that European standard IEC 61340-5-1 is now aligned with the requirements of the American ANSI / ESD 20.20 (2014-7).



While for "personnel sitting" (sitting operators connected to GND with a wriststrap) the rules are known since long time, in the case of "personnel standing" the rules (Table 2: Personnel Grounding Requirements) now focus on the capability to ensure that the maximum electrical potential of the objects they handle is always lower than 100V.

This implies that the electrical potential on the operator's human body (HBV or Human Body Voltage), when walking with ESD footwear on the EPA floor, shall be less than 100V.

Even if the person/footwear system falls within the specifications required by Table 2 ($R_{gp} < 1.0 \times 10^8 \Omega$), the person/footwear/flooring system may not be able to keep the HBV under 100V.

Periodic monitoring of HBV is specified in the notes in Table 2 of the standard as a condition to avoid the use of the wriststrap when handling ESDS components.

The key feature of the Walking Test tool is to store data at such a resolution that, once exported to a PC, it should be possible to perform a thorough analysis of the 5 peaks required to calculate the average value required by the standard.

WALKING TEST EVO

The WALKING TEST EVO is a portable measuring system that allows analysis of charge levels accumulated on the human body according to IEC 61340-5-1 standard.

It's fully portable and doesn't require a PC for data acquisition because all data are measured and logged in the internal memory.

The operator can perform all necessary operations without any collaborator, and while he is walking the instrument is attached only with a single cable to a fixed position for the reference to the ground.

The graphs of the tests can be displayed on the graphic LCD for a quick evaluation.

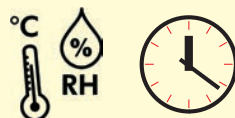
Then they can be easily exported and analyzed on a PC for a professional documentation.

A program to manage the tests recorded in the instrument is included in the Walking Test EVO.

Range: $\pm 1050V$
Resolution: 1 Volt
Accuracy: 5% $\pm 5V$
Input resistance: $10^{14} \Omega$

Humidity: 1 to 95%RH
(accuracy: $\pm 2\%RH$ to 25°C, 10%RH~90%RH)
Temperature: -20°C to +60°C (accuracy: $\pm 1^\circ C$)

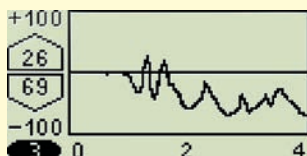
Display: graphicLCD 128 x 64 pixel, 68x51mm
Power supply: 6 alkaline batteries, LR6 1, 5V
Dimensioni: 243x130x60mm (instrument)
 $\varnothing 35x130mm$ (probe)
Weight: 650g (instrument) - 250g (probe)



Humidity, Temperature,
Date and Time
of every test are
memorized



MONITOR
(Datalogger OFF)



DATALOGGER
Graph n.3



Datalogger

In the internal memory of the instrument can be logged till to 10 graphs.

Sample rate: 200Hz
Max total graphs duration: 2minutes and 30 sec
Interface: USB

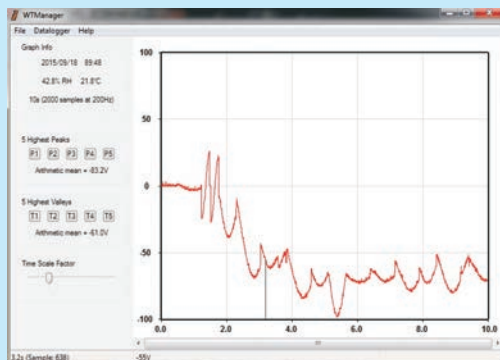
Software WT Manager (included)

Program to manage the tests recorded in the instrument, compatible with WIN XP/7/8/10

For each walking measurement, the five highest peaks (P1-P5) and the five highest valleys (T1-T5) are indicated with their arithmetic means.



FREEWARE



9265.080
9265.082

WALKING TEST EVO Meter with batteries and case
Instrument recalibration
ISO9000 Traceable Certificate is supplied



WRIST STRAP AND DUAL FOOTWEAR TEST STATION

Test station for checking personnel grounding connection of wrist straps and footwear, according to the IEC 61340-5-1.

Separate testing of left and right shoe; the test is executed at 50V or 100V to provide more accuracy.

A relay output allows access to ESD Protected Area.

Internal battery supplied 9V or external 9Vdc.

ISO9000 traceable certificate is included.

The personnel grounding test station can work in 4 modes:
 1) Simultaneous measurement of wrist straps and footwears.
 2) Wrist straps only measurement
 3) Footwears only measurement
 4) HandsFree mode (if the serial measure of the two footwears pass the test then the internal relay enables the gate to the EPA area)

High efficiency led displays:

PASS
 ERROR LOW
 ERROR HIGH

	LOW limit	HIGH limit
Wrist strap	750KΩ	35MΩ
Footwear	0 - 100KΩ (selectable)	35MΩ - 70MΩ - 100MΩ (selectable) or: 1GΩ for the ATEX compliant version



9264.950* Personnel Grounding Test Station wall mounting including: Wristlab-II instrument, footplate and yellow panel.

9264.952* Personnel Grounding Test Station on Stand-up support including: Wristlab-II instrument, footplate, yellow panel and stand-up support

9264.960 Wristlab-II instrument

9264.955 Instrument recalibration
(ISO9000 Traceable certificate is supplied)

* Add to code: I (Italian), F (French), E (English), D (German), H (Hungarian), S (Spanish)



9264.950.1G* ATEX version for code 9264.950*
(Footwear High Limit = 1GΩ)

9264.952.1G* ATEX version for code 9264.952*
(Footwear High Limit = 1GΩ)

9264.960.1G ATEX version for code 9264.960
(Footwear High Limit = 1GΩ)

* Add to code: I (Italian), F (French), E (English), D (German), H (Hungarian), S (Spanish)



CONTINUOUS MONITOR

This instrument continuously monitors the integrity of the operator and one ESD worksurface.

It uses the "wave distortion" technology to avoid false alarms caused by voltage offset, 50Hz fields and other electro-magnetic and electrostatic interference.

Supply: 24Vac
 Wriststrap input: 10mm banana plug / 10mm snap adaptor
 Dimensions: 98,3x52,8x22,9mm

9263.001 Continuous Monitor with power 230/24Vac adapter included

TEST STATION EVO

The test station EVO records and documents the parameters of the ESD protection of the personnel (wriststrap and footwears).

It can be used both wall-mounted or in a console configuration to make measurements at the workstations.

TECHNICAL FEATURES

- Measurement of bracelets and footwears according to IEC61340-5-1
- Up to 1000 different users identified through fingerprint recognition or manual recognition (entering the ID number)
- Fingerprint recognition 1,5 sec
- Datalogger can store data for the last 10000 access (date and time, user name and ID, the resistance values of the bracelet and shoes, etc ...)
- Control footwear separate (left and right)

- Relay output for controlling the opening of the access door to the EPA
- LCD display with blue backlight 160 x 104 pixels, 74 x 46mm viewable area
- Beep to indicate clearly PASS or FAIL test of the protections
- Voltage Test selectable to 50V or 100V.
- Programmable thresholds
- Wriststrap measuring range: 50k Ω - 2G Ω
- Footwear measuring range: 50k Ω - 2G Ω
- Footwear measuring range (2 in series): 50k Ω - 2G Ω
- Precisione misura: 10%
- ISO9000 Traceable Calibration Certificate included
- Freeware program to manage the data included in the Test Station EVO (compatible with Win XP//7/8/10)

A common USB flash drive can be inserted in the Test Station EVO to:

- import/export all the configuration data (users name and ID number, personnel thresholds values, etc...)
- save a log report of the EPA accesses (date and time, ID and user name, resistance values of wriststrap and shoes, etc...)



The fingerprint sensor capture a digital image of the fingerprint pattern.

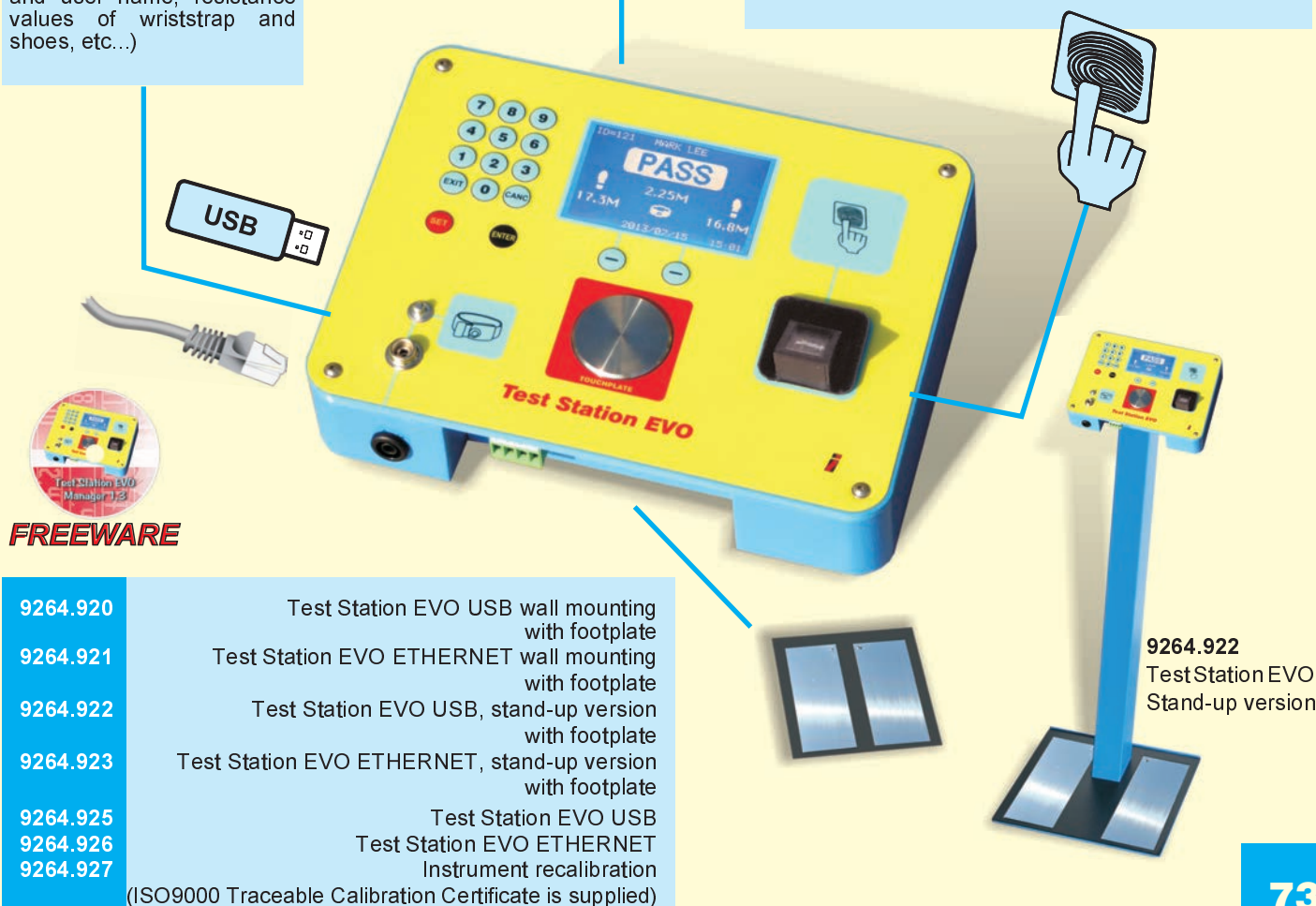
The captured image it's not stored inside the Test Station EVO,

therefore the biometrical data of the users are safe and can't be duplicated.

Only a biometric template (a collection of extracted features) is memorized.

The template size is very small: about 400 byte.

The templates are used for a smart and secure identification of the operator.

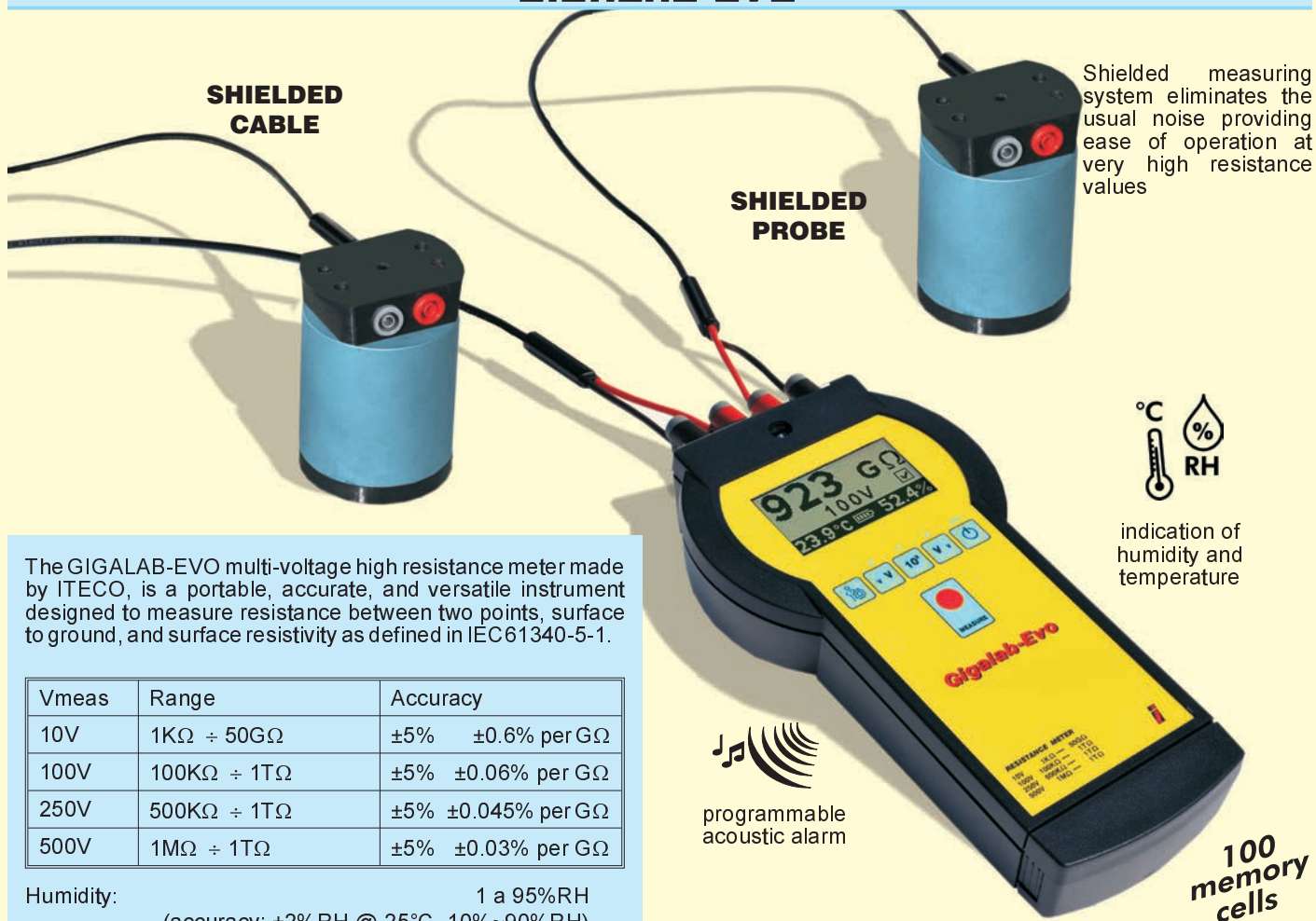


FREEWARE

9264.920	Test Station EVO USB wall mounting with footplate
9264.921	Test Station EVO ETHERNET wall mounting with footplate
9264.922	Test Station EVO USB, stand-up version with footplate
9264.923	Test Station EVO ETHERNET, stand-up version with footplate
9264.925	Test Station EVO USB
9264.926	Test Station EVO ETHERNET
9264.927	Instrument recalibration
(ISO9000 Traceable Calibration Certificate is supplied)	

9264.922
Test Station EVO
Stand-up version

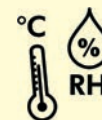
GIGALAB EVO



**SHIELDED
CABLE**

**SHIELDED
PROBE**

Shielded measuring system eliminates the usual noise providing ease of operation at very high resistance values



indication of humidity and temperature



programmable acoustic alarm

**100
memory
cells**

The GIGALAB-EVO multi-voltage high resistance meter made by ITECO, is a portable, accurate, and versatile instrument designed to measure resistance between two points, surface to ground, and surface resistivity as defined in IEC61340-5-1.

Vmeas	Range	Accuracy
10V	1KΩ ÷ 50GΩ	±5% ±0.6% per GΩ
100V	100KΩ ÷ 1TΩ	±5% ±0.06% per GΩ
250V	500KΩ ÷ 1TΩ	±5% ±0.045% per GΩ
500V	1MΩ ÷ 1TΩ	±5% ±0.03% per GΩ

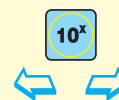
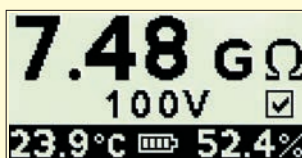
Humidity: 1 a 95%RH
(accuracy: ±2%RH @ 25°C, 10%~90%RH)
Temperature: -20°C to +60°C (accuracy: ±1°C)

Display: Graphic LCD, 128x64pixel, 68x51mm.
Power supply: 6 alkaline batteries, LR6 1.5V
Dimensions: 243x130x60mm
Weight: 650g

Internal memory where the data of 100 measures can be stored.

The data stored for each measurement are:

- Resistance value
- Voltage used for the measurement
- Humidity detected during measurement
- Measured temperature during measurement



By pressing a dedicated button it's possible to quickly switch between viewing formats natural to exponential and vice versa

9265.063
9265.064

9265.065
9265.070
9265.042

GIGALAB EVO Meter with batteries and case
GIGALAB EVO Complete kit including meter, 2 probes, batteries and case, Traceable Certificate is supplied
Cylindrical SHIELDED PROBE 63mm diameter, 2.3Kg weight
Concentric ring PROBE 63/30mm diameter, 2.3Kg weight
Instrument recalibration
ISO9000 Traceable Certificate is supplied

KIT 9265.064

ESD SURFACE RESISTANCE TESTER 100V

LABEOHM EASY



LABEOHM EVO



programmable
acoustic alarm

The Labeohm EVO and the Labeohm EASY are instruments that measure the surface resistance and the ground resistance of mats, worktops, floorings and other objects in the EPA area.

The embedded probes are suitable for surface resistance measure, connecting one ground cord the resistance to ground can be read, and two external probes can be connected for point to point measurements.

Both instruments are pocket-size and use 2 embedded parallel electrodes, in accordance with DIN EN 100015/1.

The Easy version allows to measure the order of magnitude of surface resistance or resistance to ground.

The EVO version is more accurate (accuracy of $\frac{1}{2}$ decade), it displays up to one significant digit and it is equipped with a graphical display and programmable sound alarm

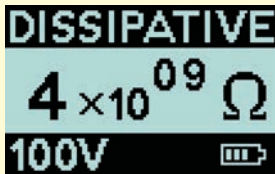
Measuring range: from 10^4 to $10^{12} \Omega$

Test voltage: 10V $R < 100K\Omega$, 100V $R > 100K\Omega$

Electrodes: Soft conductive rubber

Dimensions: 80x120x27mm

ISO9000 Traceable Certificate is supplied



LABEOHM EVO

Display: graphic LCD
102x64pixel, 36x26mm.

9265.051 LABEOHM EVO 100V, cable,battery,box included

9265.055 LABEOHM EASY 100V, cable,battery,box included

9265.065 Cylindrical SHIELDED PROBE 63mm diameter, 2.3Kg weight

9265.070 Concentric ring PROBE 63/30mm diameter, 2.3Kg weight

9265.056 Portable Kit including 9265.051 tester, two 9265.065 probes and carrying case

9265.057 Portable Kit including 9265.055 tester, two 9265.065 probes and carrying case

9265.003 Labeohm recalibration
ISO9000 Traceable Certificate is included



LABEOHM KIT

PROBES FOR GIGALAB AND LABEOHM (page 76)

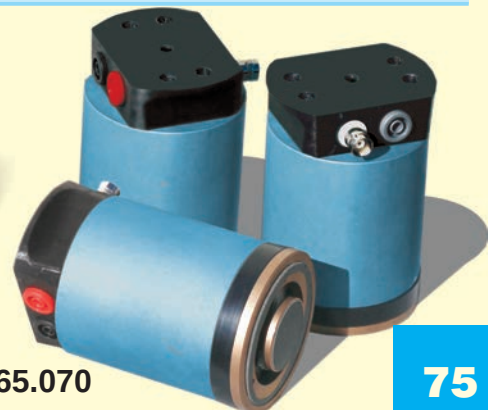
9265.065



9265.047



9265.070



9265.065

Shielded probe, 63mm, weight 2,3Kg,
one BNC socket, two 4mm sockets

**CONNECTIONS**

Rubber measuring electrode:

BNC int. / red 4mm socket

Shield / Guard:

BNC ext. / gray 4mm socket

OPTIONS**9265.012B**

Cable 1.5m - 4mm banana plugs terminated, BLACK

9265.012R

Cable 1.5m - 4mm banana plugs terminated, RED

9265.008

Coaxial cable, L=1m, BNC plug / 2x4mm banana plugs

9265.072

T-handle with thread end M5

H = 25cm to facilitate repetitive measurements on the floor
(only for 9265.070 and 9265.065)

9265.070

Concentric ring probe, 63/30mm, weight 2,3Kg,
one BNC socket, three 4mm sockets

**CONNECTIONS**

Inner sensing ring:

BNC int. / red 4mm socket

Outer sensing ring:

BNC ext. / black 4mm socket

Shield / Guard:

gray 4mm socket

9265.047

Counter-electrode, 150 x 150mm



Counter-electrode for cross
resistance measurements

CONNECTIONS

Stainless steel measuring electrode:

BNC int. / red 4mm socket

Shield / Guard:

BNC ext.

**CALIBRATION UNIT**

It's a resistance decade box made specifically for the calibration of the ESD Test Station (9264.960 Wristlab-II, 9264.925 Test Station EVO, 9265.030 Wristlab and IEC 61340-5-1 compatible testers)

Range: 10Ω - 110MΩ (resolution 10Ω)

Tolerance: 1%

Power: 1W for resistors up to 4MΩ

0.5W for resistors from 10MΩ to 40MΩ

Operative Voltage: 250Vac max

Dimensions: 14,7 x 11,7 x 5,5cm

Weight: 320g

Detailed instruction manual for calibration procedures of the IEC61340-5-1

9264.980

Calibration Unit for ESD testers
cables and adapters included

9264.982

Instrument recalibration
(ISO9000 Traceable certificate is supplied)

**ESD SURVEY KIT**

The ESD Survey Kit contains everything needed to conduct an ESD control program survey according to IEC 61340-5-1 in an ESD protected area (EPA)



code	description	page
9265.063	GIGALAB EVO meter	74
9265.070	Concentric Ring Probe	76
9265.065	Shielded Probe	76
9264.960	WRISTLAB-II instrument	72
9264.967(x2)	Single footwear plate	72
9265.403	Ionizer Verification System	69
7804.190	Adjustable Wrist Strap	40
7804.874	Earth bonding plug	42

9265.150

ESD Survey KIT - Carrying case with instruments

DRYLOGGER

Precision Temperature/Humidity meter. It is also a datalogger used to collect environmental data of humidity and temperature and to transfer them to a Windows PC.

It is possible to set an alarm that become active when, after a certain period of time, humidity or temperature are above a predetermined maximum threshold.

When the alarm is activated the red LED under the display flashes.

Humidity: 1 to 95%RH	resolution: 0.1%RH
accuracy: $\pm 2\%$ RH	
Temperature: -20°C to 60°C	resolution: 0.1°C
Accuracy: $\pm 0.5^\circ\text{C}$	
Display size: 48 x 11mm	
Humidity Alarm : from 1 to 95%	
Temperature Alarm : from 0 to 60°C	
Alarm activation delay: from 1 to 99 minutes	
Memory: 21600 samples	
Sampling rates: can be set at 1, 5, 10, 15, 30 seconds	
	and 1, 5, 10, 15, 30 minutes
Interface: RS232 and USB	
Size: 184 x 67 x 44mm	

9265.302

DryLogger – Humidity/Temperature hand LCD datalogger
USB cable and LogManager software to collect data to Windows PC are included.

CK-005

ISO9000 Traceable certificate for DryLogger

Alarm Led



LOGMANAGER

The "LogManager" software, working on Windows PC, used for downloading, displaying, analyzing and reporting your collected humidity and temperature data is included.

TEKMATRIX 32 HUMIDITY/TEMPERATURE MONITORING & ALARMING & DATALOGGING



It monitors simultaneously humidity, temperature on his large display, and alerts the engineers to check and repair the facilities immediately when the settable HIGH or LOW limits of RH/T are exceeded.

When the alarm is active, its output relay can activate an emergency circuitry.

The internal datalogger samples the environmental data of humidity and temperature that can subsequently be transferred to a Windows PC via USB or Ethernet interface (the "LogManager" software is included).

The instrument sensor can be hooked to the display or positioned externally.

Can be set to fixed display of RH/T or alternate it with date and time.

Humidity: 1 to 95%RH	resolution: 0.1%RH
accuracy: $\pm 2\%$ RH	
Temperature: -20°C to +60°C	resolution: 0.1°C
accuracy: $\pm 0.5^\circ\text{C}$	
LED Display: 190 x 190mm	
Memory: 21600 samples	
Interface: USB + ETHERNET	
Dimensions: Ø300 x 40mm	

8105.113

Humidity/Temperature
Monitoring & Alarming & Datalogging

HUMIDITY / TEMPERATURE PEN

This pen continuously and simultaneously displays both RH and °F/°C with dual-recall memories. Memory displays highest and lowest humidity/temperature readings

Temperature: 0 to +50°C	Resolution 0,1°C	Accuracy $\pm 1^\circ\text{C}$
Relative humidity: 20 to 95%	Resolution 1%	
Accuracy: $\pm 3.5\%$ (mid.range) $\pm 5\%$ (ends range)		

ISO9000 Traceable® Certificate is supplied

9265.200

Humidity / temperature pen



GHIBLI-II DRY CABINETS

Moisture Sensitive Devices (MSDs), must be managed correctly because "a single mistake" on a tray or reel of MSD causes "negative impact on the entire production batch".

Electronic components (like QFP, BGA or SOIC for example), LEDs and Printed Circuit Boards, when extracted from their original protective package, absorb humidity from the environment and during the soldering process the trapped moisture can vaporize and exert internal package stress.

GHIBLI-II dry cabinets provides a "safe place" to temporary stock the MSDs removed from their original Dry Pack before soldering process.

In fact the J-STD-033 tells that under 5% RH the Floor Life is congealed.



8104.812



8104.808

Technical specifications

Humidity range:	<5% RH guaranteed , typical 2% RH
Colour:	Anthracite
Power supply:	230Vac
Structure:	1mm thick carbon steel with antistatic paint
Door:	magnetic handles , magnetic sealers and antistatic glass
Wheel:	4 antistatic 3" wheels, two of them with brakes
Grounding wire:	940mm long
ESD paint:	$10^3 - 10^9 \Omega$



DryLogger (included in every cabinet)

Humidity: 1 to 95% RH
resolution: 0.1%RH
Temperature: -20°C to +60°C,
resolution: 0.1°C
ALARM for Max.humidity and Max temperature
(see page 77)

Advantages about GHIBLI-II

Easy use:

It's plug and play, just connect it to the main supply without any settings and it will be stable at less than 5%RH (5%RH is guaranteed but the cabinets easily reach 2%).

The dehumidifier units are always active and not controlled by any sensor. This avoid dangerous problems due to malfunction or drift of hygrometers.

Easy calibration:

Inside every cabinet there is a portable Hygrometer (DryLogger 9265.300) visible through the glass of the upper door. You can return it for calibration anytime without problems: the cabinet still works to the best.

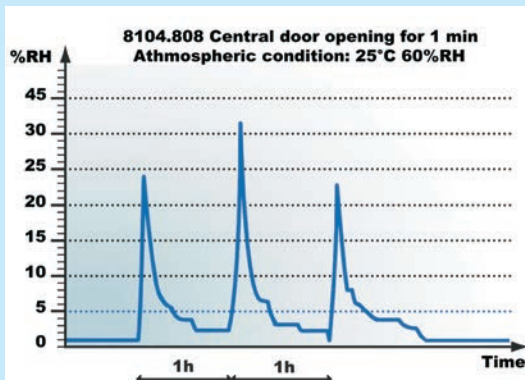
The portable instrument DryLogger can measure RH & Temperature values in several points inside the cabinet, and can record H/T and transfer the data to PC for graphing and analyzing. Made for very low humidity measurement can be used also for applications outside the cabinets.

Modular design:

The dehumidifier modules are easy extractable with only a screwdriver. This allow easy reparation and grant the long life of the cabinet, over 20 years, as long as the metal structure last. This is our green policy.

Smart magnetic handles with key lock at every door. The front of the cabinet is flat.

2 years warranty



Data analysis

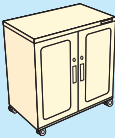
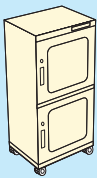
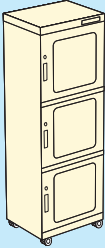
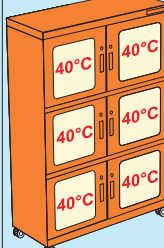
With the portable instrument DryLogger and the software LogManager supplied with every cabinet you can calculate the time intervals and percentage that exceed the 10%RH or 5%RH which leads to the estimation of the MSD floor life ("Floor Life" is the allowable time period after removal from a moisture barrier bag, dry storage or dry bake and before the solder process reflow).

Another typical data analysis is the graph of the door opening.

40°C Baking

Some cabinets version can do 40°C low baking process of SMD components.

At this temperature the reels are not damaged and can be afterwards inserted into the feeders of the pick and place without problems.

							
Code	8104.800	8104.802	8104.804	8104.808	8104.812	8104.830	8104.832
Model	Ghibli II/200L	Ghibli II/328L	Ghibli II/400L	Ghibli II/600L	Ghibli II/1200L	Ghibli II/600L 40°C baking	Ghibli II/1200L 40°C baking
Capacity	200L	328L	400L	650L	1280L	600L	1180L
Ext.Dimensions (mm)	600x672x610	905x452x1045	600x672x1255	600x672x1805	1200x672x1805	600x672x1805	1200x672x1805
Shelves	2	3	3	5	5	5	5
Shelf Size (mm)	555x530x20	860x310x20	555x530x20	555x530x20	1155x530x20	555x530x20	1155x530x20
Average power	28W	56W	56W	56W	56W	56W without baking 456W with baking	56W without baking 856W with baking
Maximum power	210W	420W	420W	420W	420W	420W without baking 1220W with baking	420W without baking 2020W with baking
Weight	55kg	64kg	64kg	81kg	134kg	91kg	144kg

8104.840 Additional shelf 555x530x20mm , Ghibli-II 200L, 400L, 600L

8104.841 Additional shelf 1155x530x20mm , Ghibli-II 1200L

ALARM BOX

With this option it's possible to set an alarm that become active when, after a certain period of time, humidity or temperature are above a predetermined maximum threshold.

The Alarm Box has a warning light and a buzzer that can be silenced from a switch on the panel.



8104.856

Alarm Box for Ghibli-II cabinets

TRAY RACK

Professional tray rack made of stainless steel that can be placed on the trays of the Ghibli-II dry cabinets.



8104.865
8104.583

GHIBLI-II - RACK 10 trays store
Aluminium tray 530 x 500 x 12mm

SAHARA - BAKING OVENS

Forced ventilation oven available in two models: with temperature control only (Sahara) and also with humidity control (Sahara Dry). They are designed to perform the following works:

1) Baking of the PCBs, according IPC-1601 standard, should be done at 105-125°C for 4-6 hours into a forced ventilation oven. All our ovens are equipped with timer, programmable start-up, and countdown mode that is helpful to make sure you do the baking of PCBs only for 4-6 hours, avoiding the risk of an unnecessary oxidation of the printed board circuits.

2) Baking of SMD components according to J-STD-033 that specify three temperatures: 40°C, 90°C and 125°C. To ensure <5% RH when baking at 40°C or 90°C is recommended the use of the Sahara Dry that are ovens equipped with humidity control. How long to bake depends on the moisture sensitive level and package type and body thickness. In the worst case is 79 days for 40°C baking, 10 days for 90°C baking and 96 hours for 125°C baking. Once baked MSDs have their Floor Life restored to the initial value. It's important to bake in ovens equipped with a programmable timer command like all the ovens in the Sahara line.

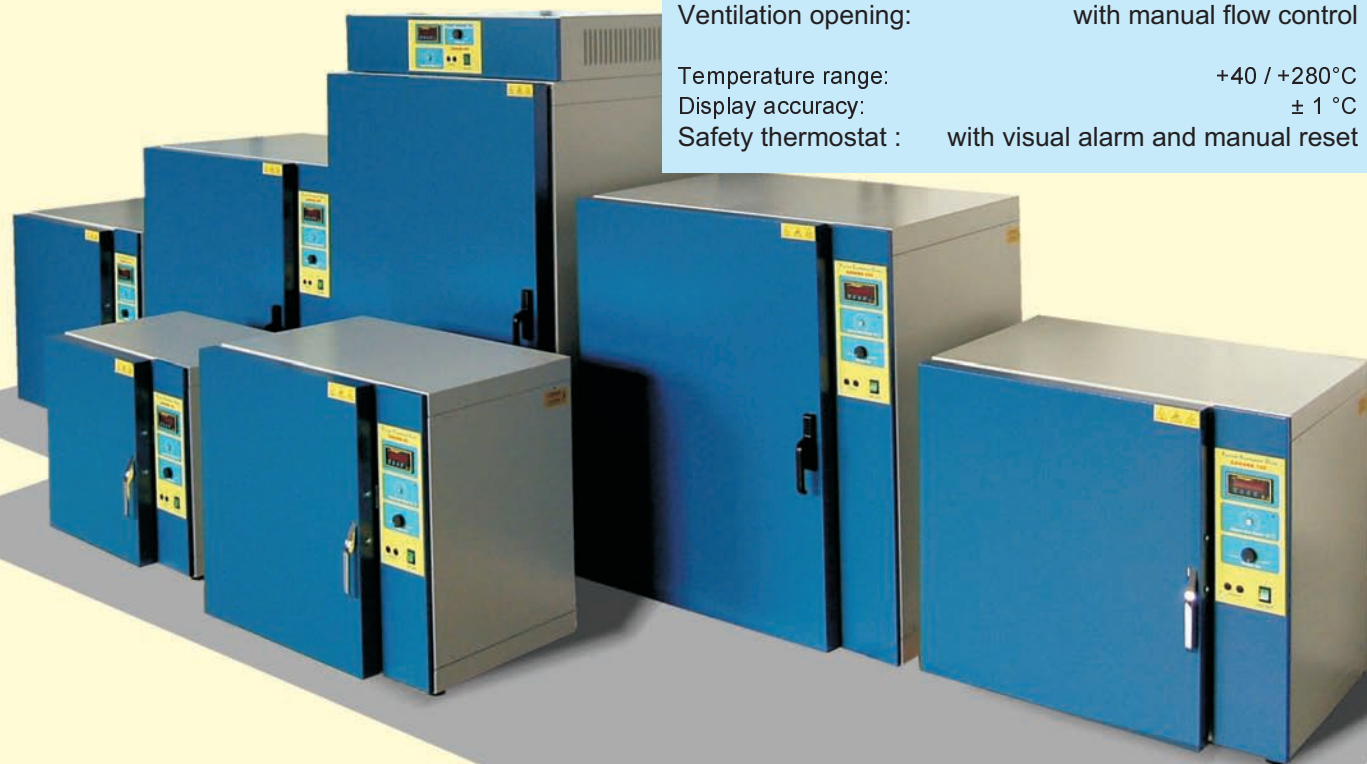
3) Thermal cycle.

All the Sahara ovens can execute thermal program (easy editable on a PC) useful for testing and for heating/cooling with settable temperature gradient

Technical specifications:

Outer body :	steel coated in epoxy anti-acid paint.
Inner structure:	in stainless steel AISI304
Heating elements:	not in contact with the internal chamber
Thermal insulation:	with natural mineral fibre
Internal grid shelves:	can be placed at different height
Ventilation opening:	with manual flow control

Temperature range:	+40 / +280°C
Display accuracy:	± 1 °C
Safety thermostat :	with visual alarm and manual reset



SAHARA OVENS

Oven with temperature control only



- Temperature Control
- Safety thermostat
- Ventilation opening

Compliance with:
IPC-1601
Baking PCB

SAHARA DRY OVENS

Oven with temperature control and humidity control (<5%RH)

Dehumidification at <5% RH is reached by blowing dry air.

The Sahara Dry ovens, unlike Sahara models, are equipped with a air-tightness improved internal chamber so as to keep the dry environment achieved without having to continually blow dry air.



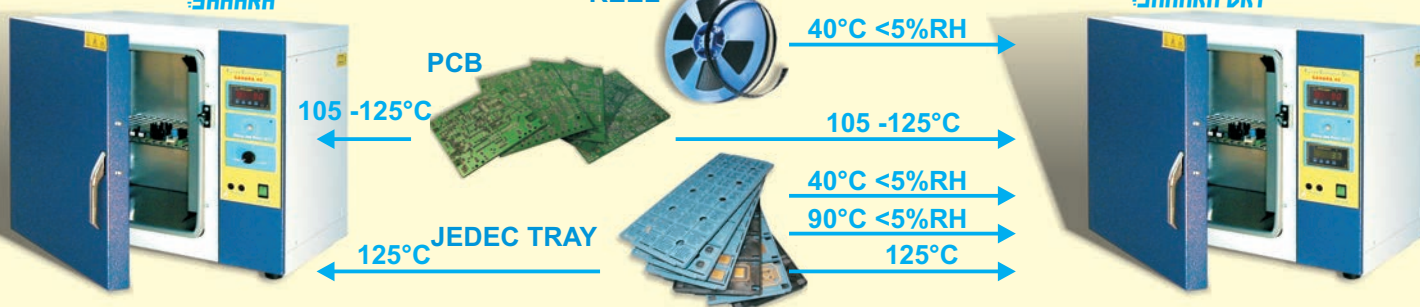
- Temperature Control
- Safety thermostat
- Humidity Control

Compliance with:
J-STD-033
Baking SMD
IPC-1601
Baking PCB

SAHARA

REEL

SAHARA DRY



Temperature Control (Included both on Sahara and Sahara Dry models)



Temperature electronic control with PID regulator and multifunction timer.

Temperature Range: 40-280°C

Accuracy: $\pm 1.5^\circ\text{C}$

Resolution: $\pm 1^\circ\text{C}$



The digital controller has an internal clock with back-up that can keep the right clock for a week without power supply. This is useful to minimize the damage caused by any black-out when the oven is working in "Countdown", "Programmed start-up" or "Thermal programmer" mode.

The Sahara ovens can work in 4 modes:

1) SetPoint:

The oven reaches a setpoint temperature and stays steady.

2) Countdown:

It's like the SetPoint mode but with a time limit. After the countdown time is expired the oven stops. Time limit can be set from 1 minute to 999 hours and 59 minutes.

3) Programmed start-up:

It's useful when you want to start-up the oven on a precise date/time (for example at 6:30 on monday after the weekend the oven start-up to SetPoint 200°C)

4) Thermal programmer:

It's possible to edit on a PC and then download to the digital controller up to 10 programs with 100 steps each. In every step you can set: the temperature setpoint, the maximum gradient to reach it and the duration.

To set the thermal programmer it is necessary to have the 8107.215 option, comprehensive of the PidManager software and the special USB cable (see page on the right)

Humidity Control (Included on Sahara Dry models only)



Humidity electronic control

Humidity control:

Humidity range:

Accuracy:

Resolution:

$<5\% \text{ RH}$ when $40^\circ\text{C} \leq T \leq 100^\circ\text{C}$

1-95%RH

$\pm 2\% \text{ RH}$ (10%RH~90%RH)

$\pm 3\% \text{ RH}$ (1%RH~10%, 90%RH~95%)

$\pm 0.1\% \text{ RH}$

It can work in 2 modes:

Fast: dehumidification occurs at the maximum possible speed.

Eco: dehumidification is proportional adjustment to optimize the consumption of compressed air. This mode is for a more rational use of compressed air, in fact, the low level of humidity is reached for subsequent cycles and not in a direct way.

The Sahara Dry Ovens must be fed with dry air from 3 to 8 atm.

? How much should be dry the air supply?

Normally, centralized systems of compressed air are already equipped with dehumidification system good enough to work properly with this humidity control.

For example, a compressed air system to 7 bar with a dew point of less than 3°C is usually sufficient.

? How much is the compressed air consumption?

The dry air is blown into the inner chamber very slowly and only when necessary.

Max consumption: 100 nl per minute

Average consumption: 30 nl per minute

? Can be used the nitrogen and what advantages there are?

Yes. The baking in inert environment reduces oxidation of the PCBs and SMD components..

SAHARA MODEL		Shelves	Int. Dimensions	Ext Dimensions	Power	Weight
		(included/max)	(LxPxH)	(LxPxH)	W	kg
8107.103	Sahara 40 litre	1/7	348x312x367	686x515x575	800/230V	35
8107.105	Sahara 60 litre	2/7	408x372x422	746x570x605	1200/230V	40
8107.107	Sahara 80 litre	2/8	458x372x472	796x570x680	1200/230V	45
8107.109	Sahara 120 litre	2/9	498x477x512	836x680x720	1600/230V	50
8107.111	Sahara 250 litre	2/14	593x522x797	956x730x1025	3200/230V	90
8107.113	Sahara 400 litre (with wheels)	2/18	693x607x980	901x815x1487	3200/230V	140
8107.108	Sahara DRY 80 litre	2/8	458x372x472	796x570x680	1200/230V	45
8107.110	Sahara DRY 120 litre	2/9	498x477x512	836x680x720	1600/230V	50
8107.112	Sahara DRY 250 litre	2/14	593x522x797	956x730x1025	3200/230V	90

OPTIONS

8107.1xxW	Door with inspection window, 200x200mm
8107.1xxH	Lateral hole for cables, Ø 50mm

ACCESSORIES

8107.150	Additional shelf for Sahara 40 litre	(max. 7 shelves)
8107.152	Additional shelf for Sahara 60 litre	(max. 7 shelves)
8107.154	Additional shelf for Sahara and Sahara DRY 80 litre	(max. 8 shelves)
8107.156	Additional shelf for Sahara and Sahara DRY 120 litre	(max. 9 shelves)
8107.158	Additional shelf for Sahara and Sahara DRY 250 litre	(max. 14 shelves)
8107.160	Additional shelf for Sahara 400 litre	(max. 18 shelves)

DATALOGGER

All our ovens are equipped with a data logger for traceability and you can print/save graphs of temperature (for sahara ovens) and temperature/humidity (for Sahara DRY ovens)

To analyze the logged data and to set the thermal programmer is required the 8107.215 option which include the PidManager software and USB specific cable.

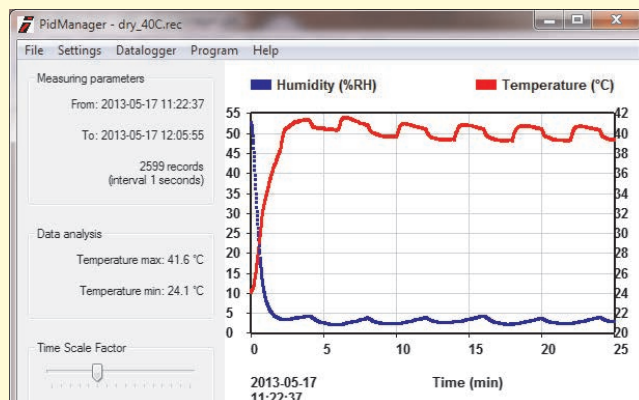
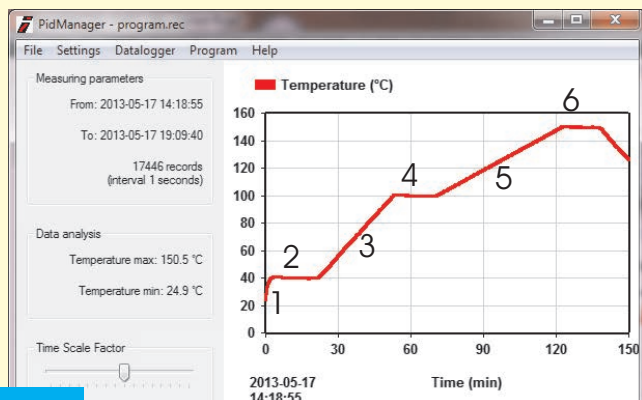
The software is compatible with Windows XP/7/8/10.

Sample rate:		1, 5, 10, 15,30 sec
		1, 5, 10, 15, 30 min
Duration (T)	Sahara	from 6 hour(1sec) to 450 day(30min)
Duration (T+RH%)	Sahara Dry:	from 3 hour(1sec) to 225 day(30min)

8107.215	PIDManager software and specific USB cable to set the thermal programs and to download and view datalogger records
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Thermal Program :

- 1 SETPOINT 40°C / gradient MAX.
- 2 WAIT 20min @40°C
- 3 SETPOINT 100°C / GRADIENT<2°C/min
- 4 WAIT 20min @100°C
- 5 SETPOINT 150°C / GRADIENT<1°C/min
- 6 WAIT 20min @150°C



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