

iteco



ESD 2010

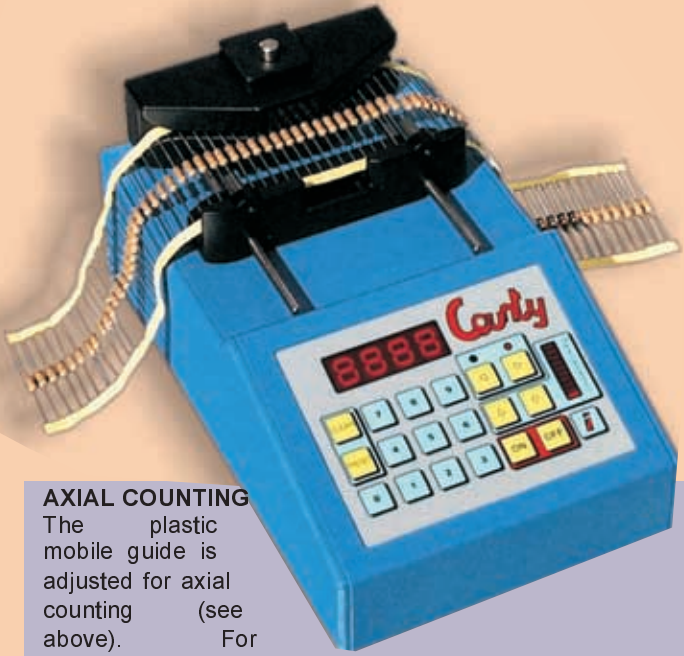
COUNTY

COUNTY 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 1 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
 Rechargeable model available (8301.072 and .074)
 Relay output

Maximum counting value:	899999 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



AXIAL COUNTING

The plastic mobile guide is adjusted for axial counting (see above). For bandolier counting the 8301.023 support is available, with an easily inserted 8301.025 handle (see figure on right).

RADIAL COUNTING

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

SMD COUNTY ADAPTOR

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

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

Mounting the adaptor does not require any tools and it is locked in place by snap action.

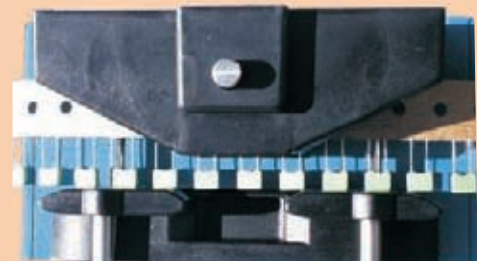
Component counting is achieved by counting the punched holes on the SMD tapes.

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



SUPPORT FOR ROLLED BANDOLIER

LABEL PRINTER



RADIAL COUNTING



- | | |
|----------|--|
| 8301.051 | COUNTY 220 V 50-60 Hz |
| 8301.072 | COUNTY 220 V 50 - 60 Hz |
| | with accumulator, auxiliary relay, printer output, watch |
| 8301.053 | COUNTY 110 V 50 - 60 Hz |
| 8301.074 | COUNTY 110 V 50 - 60 Hz |
| | with accumulator, auxiliary relay, printer output, watch |
| 8301.023 | Complete support for rolled bandolier(1 pcs) |
| 8301.025 | Bandolier handle |
| 8301.018 | SMD County Adaptor |
| 8301.028 | SMD support for rolled bandolier |
| 8301.030 | SMD bandolier handle |
| 8301.350 | ISO9000 Traceable® Certificate |

COUNTY-S

For taped SMD component counting. This machine works in a simple way by counting the holes on the tape.

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.

Step number indication (division factor) is always present, showed on a two digit display.



8301.110

EMPTY REEL

aluminium made
inner 150 / outer 350mm diameter
easily chargeable
height of the tape from 8 to 56mm

TECHNICAL FEATURES

Display: 6 digits high efficiency leds
Maximum counting speed: 100 pc/sec (1 piece per hole)
Accuracy: ± 1 piece
Holes per component: from 0.5 to 99 (factor division)
Maximum tape height: 56 mm
Maximum reel diameter: 400 mm
UP/DOWN counting
Partial counting memory
PRESET mode
Variable feeding speed
Step by step (1 component at a time)
RS232C serial output for host computer or thermal label printer.

8301.101	COUNTY-S	220/240V 50-60Hz
8301.103	COUNTY-S	110V 50-60Hz
8301.110		Empty reel
8301.350		ISO9000 Traceable® Certificate

THERMAL LABEL PRINTER

8301.090 thermo-adhesive label printer, can be fitted to COUNTY (8301.072/074) and COUNTY-S counters for the printing of the following data:

date, hour, total quantity in text format
date and quantity in bar code format
ac adaptor 110-230vac and data cable included.

8301.091 thermo-adhesive roll paper 30m length. it is possible to obtain from 300 to 500 labels, depending on the printed data.



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.

8301.120
COUNTER-PEN digital counter
8301.122
Replacement pen cartridge



COUNTY-W COUNTING SCALES

System: strain gauge
 Display: 3 groups of 14mm backlighted LCDs
 Main: 110-120-220-240Vac 50/60Hz
 Battery: Internal rechargeable
 Operating temperature: 0 +40°C
 RS232C serial output option
 Optional printer interface

basic

8301.215
8301.217

750g
3Kg

Display resolution:
 Internal resolution:

1/15,000
 1/300,000



8301.215



8301.217



8301.190

high resolution

8301.190
8301.191
8301.192
8301.193

3Kg
6Kg
15Kg
30Kg

Display resolution:
 Internal resolution:

1/30,000
 1/480,000



8301.200

professional

8301.200

6Kg

Display resolution: : 1/30.000
 Internal resolution: 1/600.000
 - Auto-Calibration: software
 - 50 unit weight memory cells

MODEL	CAPACITY	DISPLAY RESOLUTION	INTERNAL RESOLUTION	MINIMUM UNIT WEIGHT	PLATTER SIZE
8301.215	300g	0,02g	0,005g	0,04g	Ø 150 mm
	750g	0,05g	0,01g	0,08g	
8301.217	1500g	0,1g	0,02g	0,2g	235 x 178 mm
	3000g	0,2g	0,04g	0,4g	
8301.190	3000g	0,1g	0,01g	0,1g	334 x 245 mm
8301.191	6000g	0,2g	0,02g	0,2g	334 x 245 mm
8301.192	15000g	0,5g	0,05g	0,5g	334 x 245 mm
8301.193	30000g	1g	0,1g	1g	334 x 245 mm
8301.200	6000g	0,2g	0,01g	0,1g	320 x 240 mm

8301.197 RS232C serial output option (to be installed before shipment),
8301.198 Optional printer interface (to be installed before shipment),

for models **8301.215/217**
 for models **8301.215/217**

8301.195 RS232C serial output option (to be installed before shipment),
8301.196 Optional printer interface (to be installed before shipment),

for models **8301.190/191/192/193**
 for models **8301.190/191/193/193**

8301.202 RS232C serial output option (to be installed before shipment),
8301.203 Optional printer interface (to be installed before shipment),

for models **8301.200**
 for models **8301.200**

8301.355 ISO9000 Traceable® Certificate



8301.230

Precision Balance

Precision electronic balance with anti-dust and anti-wind covers for to minimise the mistakes caused by the environment. Normal weighting, piece counting, and percentage counting modes.

Weighing units: 13 selectable (Gram, Carat, Ounce, etc.)
 Pan size: Ø 125mm (4.9 inches)
 Scale dimensions: 220 x 180 x 160(H)mm
 Measuring system: Strain Gauge Load Cell
 Display: liquid crystal 14mm, with backlight
 Set up: can be configured by the customer
 Display resolution: 1 / 30,000
 Internal resolution: 1 / 150,000
 Interface: Uni-direction RS232C
 Power: AC/DC adaptor operated by 220 or 110Vac (specify in the order) with 4 alkaline batteries size C(UM-2), 100 hours operation

Model	Capacity	Display resolution	Internal resolution
8301.230	150g	0.005g	0.001g
8301.231	300g	0.01g	0.002g
8301.232	600g	0.02g	0.004g

Platform Counting Scale

Accurate and efficient industrial model, with two capacities selectable by software 60 and 150Kgs.

Measuring system: strain gauge
 Pan size: 510 x 420mm (16 x 20inches)
 Total height: 1m
 Calibration: by software
 Display: liquid crystal 14mm, with backlight
 Display resolution: 1/15.000 - 4g@60Kg - 10g@150Kg
 Internal resolution: 1/75.000 - 0,8g@60Kg - 2g@150Kg
 Set up: can be configured by the customer
 Power: 110-120-220-240Vac 50/60Hz
 Internal rechargeable battery: 120 hours operation
 8301.225 Platform counting scale 60 / 150Kgs
 8301.221 Optional RS232C interface



8301.223



THERMAL LABEL PRINTER

8301.223 THERMO-ADHESIVE LABEL PRINTER, can be fitted to COUNTY-W counters for the printing of the following data:
 total weight, unit weight
 total quantity.

WARNING: optional printer interface must be added to the scale.

AC Adaptor 110-230Vac and Data Cable included.

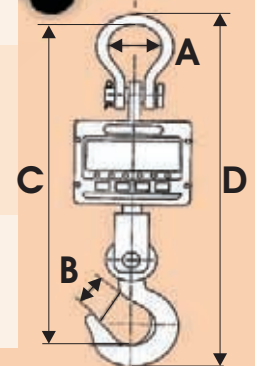
8301.091 THERMO-ADHESIVE ROLL PAPER 30m length. It is possible to obtain about 500 labels.

SERIES CRANE SCALE

For medium capacity industrial applications such as under-hook crane load weighing and material testing, suitable for indoor and outdoor use.

Infrared remote control included. (Distance approx. 15 m)
 6V/10AH rechargeable battery, recharge time about 10 hours. Data-Hold function.

Model	Capacity	Res.	Weight	Dimensions mm			
				A	B	C	D
8301.245	1000kg	500g	13kg	56	30	500	560
8301.247	3000kg	1kg	20kg	56	30	500	560



NEW!

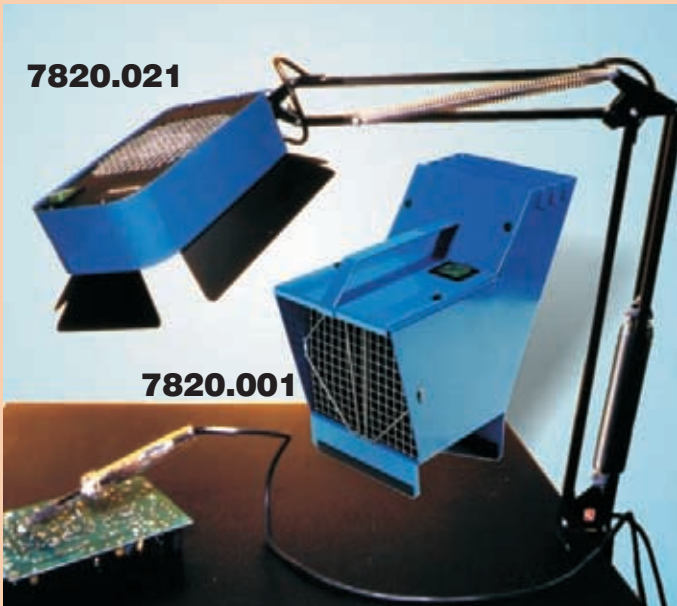
Test Weights

All counting scales can be calibrated using the internal software, and a certified test weight. To achieve optimum accuracy from the balance, it should be adjusted in the locality where it is used, because the latitude and longitude affect the calibration and the strain gauge cell could go out of adjustment during the transportation.

8301.296	Test Weight	0.02Kg	F1 class - case - DKD certificate
8301.300	Test Weight	0.1Kg	F1 class - case - DKD certificate
8301.303	Test Weight	0.5Kg	F1 class - case - DKD certificate
8301.305	Test Weight	1Kg	F1 class - case - DKD certificate
8301.310	Test Weight	2Kg	F1 class - case - DKD certificate
8301.315	Test Weight	10Kg	F1 class - case - DKD certificate



GOSMOKE



The GOSMOKE exhauster 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 exhauster 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 .

- 7820.001 Exhauster 220V (table model)
 - 7820.003 Set of 4 spare filters
 - 7820.004 Adjustable support for table model
 - 7820.021 Exhauster 220V (hanging model)
 - 7820.031 Exhauster 220V (hanging model) with lamp.
- All GOSMOKE exhausters are supplied with 4 spare filters.

TECHNICAL FEATURES

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



MASTERFILTER

The MASTERFILTER set is a good way of dealing with hazardous fumes associated with circuit board soldering, consisting of a filtering unit connected two table aspirators.

The filtering unit consists of two distinct and separated aspirators: the first one is a mechanical filter providing a progressive filtering action on the fumes and the second one, an active charcoal filter absorbing vapours and smell.

The air intake of the aspirator unit is an adjustable semirigid plastic pipe (70mm dia.).

ASPIRATOR UNIT	8012.001
Mains:	220V 50 Hz 130W
Air volume:	230 m³/h
Noise:	60 dB(A)
Dimensions:	260 x 160 x 300 mm
Weight:	6 kg

FLEXIBLE CONNECTING PIPE	8012.003
To connect the aspirator to the filtering unit 100 mm dia. (max. length 6 m)	

FILTERING UNIT	8012.002
Mechanical filter:	with folded construction, progressive action
Active charcoal filter:	absorbing filter with 1.8 Kg amorphous active charcoal
Dimensions:	600 x 220 x 270 mm
Weight:	8,5 kg

SPARE PARTS	
Spare mechanical filter	8012.004
Spare charcoal filter (bag with 1.8 Kg)	8012.005



SEP3

SEP3 separates milled PCBs, the off-cut material is smoothly and precisely removed.

7915.530 Off-Cut Remover SEP3 (without blades)



STANDARD "L" BLADE - L=5mm	
7915.531	Thickness 1.4 - for 1.5mm slots
7915.532	Thickness 1.9 - for 2mm slots
7915.533	Thickness 2.4 - for 2,5mm slots
7915.534	Thickness 2.9 - for 3mm slots



REINFORCED "L" BLADE - L=9mm	
7915.541	Thickness 1.4 - for 1.5mm slots
7915.542	Thickness 1.9 - for 2mm slots
7915.543	Thickness 2.4 - for 2,5mm slots
7915.544	Thickness 2.9 - for 3mm slots



STANDARD "T" BLADE - L=4,75mm	
7915.551	Thickness 1.4 - for 1.5mm slots
7915.552	Thickness 1.9 - for 2mm slots
7915.553	Thickness 2.4 - for 2,5mm slots
7915.554	Thickness 2.9 - for 3mm slots

TRACTOR

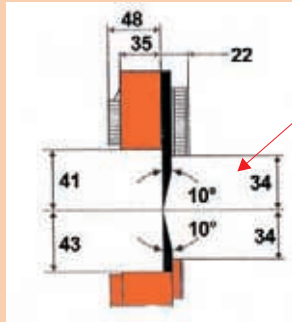
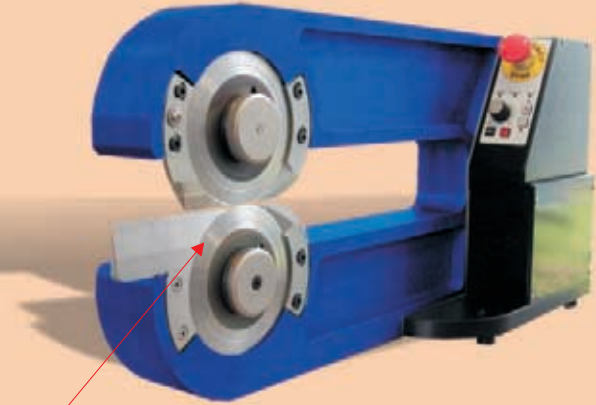
TRACTOR depaneling machine separates the prescored PCB, in a very quick and economic way.

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.

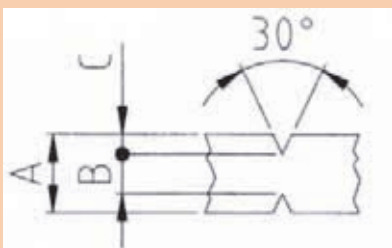
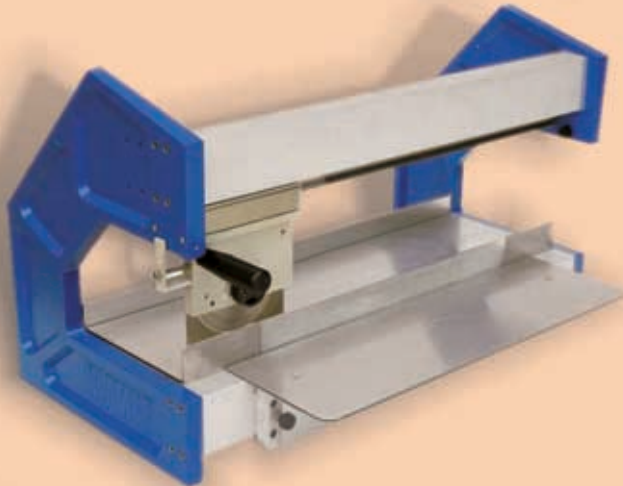
The hand model is suggested only for small productions and prototype series.



Separation length: up to 350mm
 Thickness of panels: 0.8 - 3.2mm
 Maximum components's height: 34 - 43mm

7915.580 TRACTOR - PCB Hand depaneling machine
 7915.582 TRACTOR - PCB Motorized depaneling machine 220VAC
 7915.584 TRACTOR - PCB Motorized depaneling machine 110VAC

TRACTOR 2

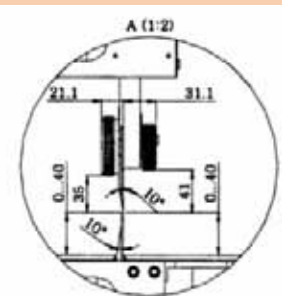
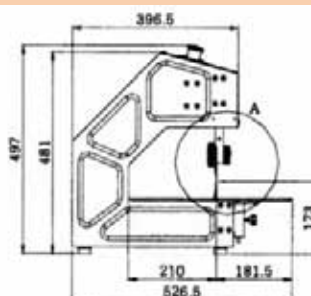
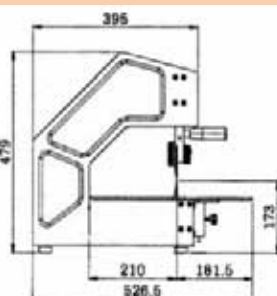
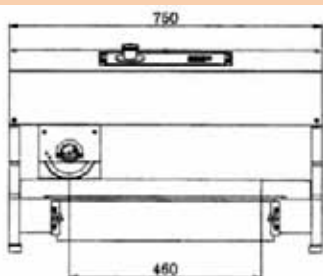
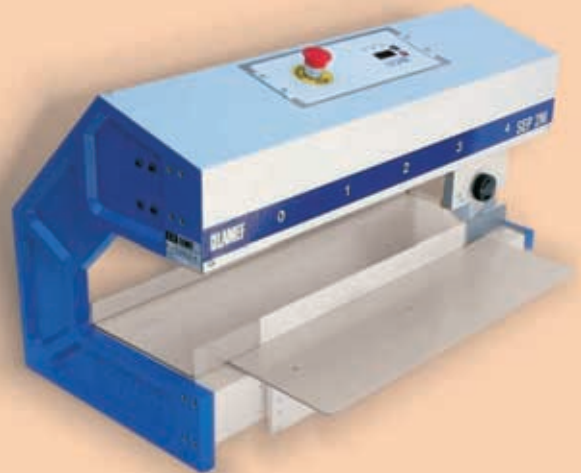


A = 1.0 - 3.2mm
 B = min.0.3mm
 max.0.8mm
 C = min.0.25mm

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 TRACTOR 2 - PCB Hand depaneling machine
 7915.564 TRACTOR 2M - PCB Motorized depaneling machine 220VAC
 7915.568 TRACTOR 2M - PCB Motorized depaneling machine 110VAC

TRACTOR 2M



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.

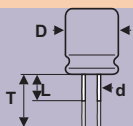


BR3

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, 110V - 50/60Hz
 7915.148N Motorized cutting machine SUPERCUT, 220V - 50/60Hz
 7915.160 Tape Reel Holder BR3, P=12.7mm
 7915.159 Tape Reel Holder BR3, P=15mm



T (original length) > 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.

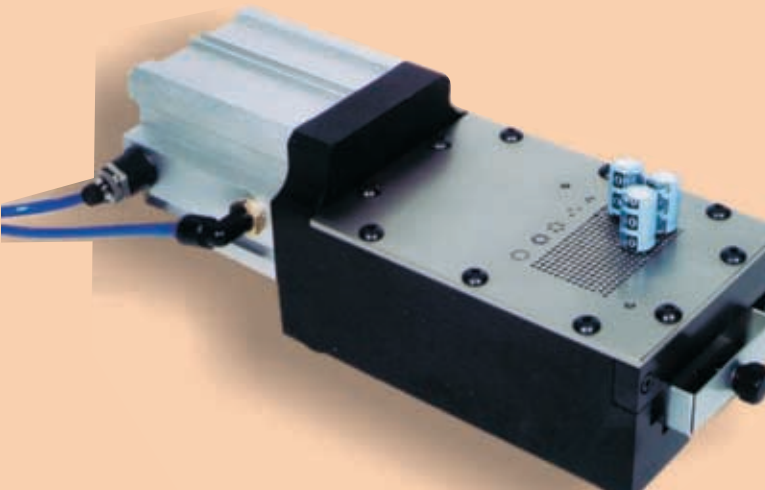
The guillotine cutting system, with zero clearance between the plates, guarantees a sharp and precise cut without burrs or damage to the leads.

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

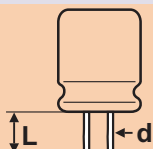
Weight: 6 Kg

7915.041 SUPERCUT/LN5 with foot pedal control

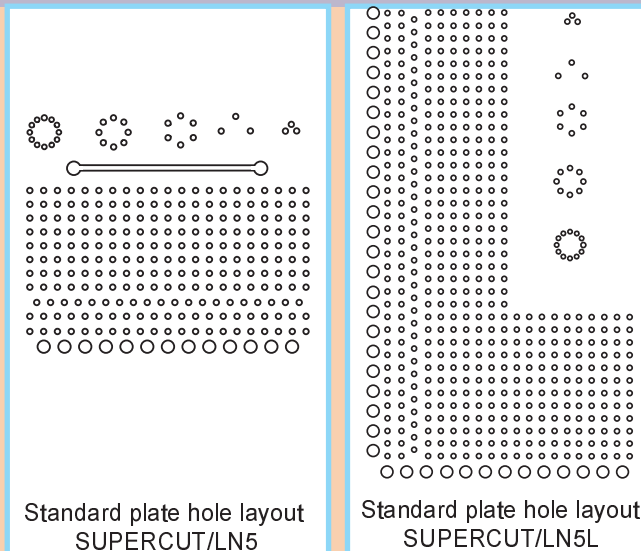
7915.041L SUPERCUT/LN5L long model with foot pedal control

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-R

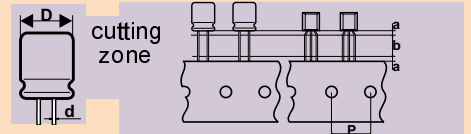


SUPERFORM/R is a machine made for cutting radial taped components such as capacitors, transistors and stand-off resistors.
Production rate: up to 20000 pcs/hr

7915.113A (standard)
7915.113B
7915.030
7915.031
7915.185

SUPERFORM/R P=12.7mm (.5")
SUPERFORM/R P=15.0mm (.59")
Motor Unit for SUPERFORM, 220V - 50/60Hz
Motor Unit for SUPERFORM, 110V - 50/60Hz
Tape Reel Holder arm BR6

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



SUPERFORM/V

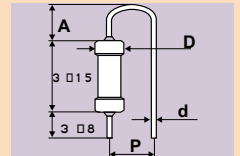


	P		d		A		D
	fix	min	min	max	min	max	max
7915.101 B standard model	2.54	0.5	0.5	0.8	2	6	3
7915.101 C	3.8	0.5	0.5	0.8	2.5	6	5
7915.101 D	5.08	0.5	0.5	0.8	3	7	8
7915.101 E	7.62	0.5	0.5	0.8	4	7	10
7915.091 A	3.8	0.8	1.3	1.3	4	9	5
7915.091 B	5.08	0.8	1.3	1.3	5	9	8
7915.091 C	7.62	0.8	1.3	1.3	6	9	10

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, 220V - 50/60Hz
7915.031 Motor Unit for SUPERFORM, 110V - 50/60Hz
7915.182 Feeder CS30 for loose axial components
7915.185 Tape Reel Holder arm BR6

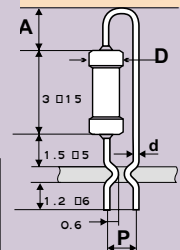


SUPERFORM/VP

SUPERFORM/VP is a machine made for cutting and bending axial taped components for vertical assembling, and shaping a little curl on each reophore.

Production rate: up to 7000 pcs/hr

	P		d		A		D
	fix	min	min	max	min	max	max
7915.108 A standard model	2.54	0.5	0.5	0.8	2.8	5	4



CUSTOM MADE, need samples to test feasibility

7915.032
7915.033
7915.185

Motor Unit for SUPERFORM/VP, 220V - 50/60Hz
Motor Unit for SUPERFORM/VP, 110V - 50/60Hz
Tape Reel Holder arm BR6

SUPERCUT/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 footpedal 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:

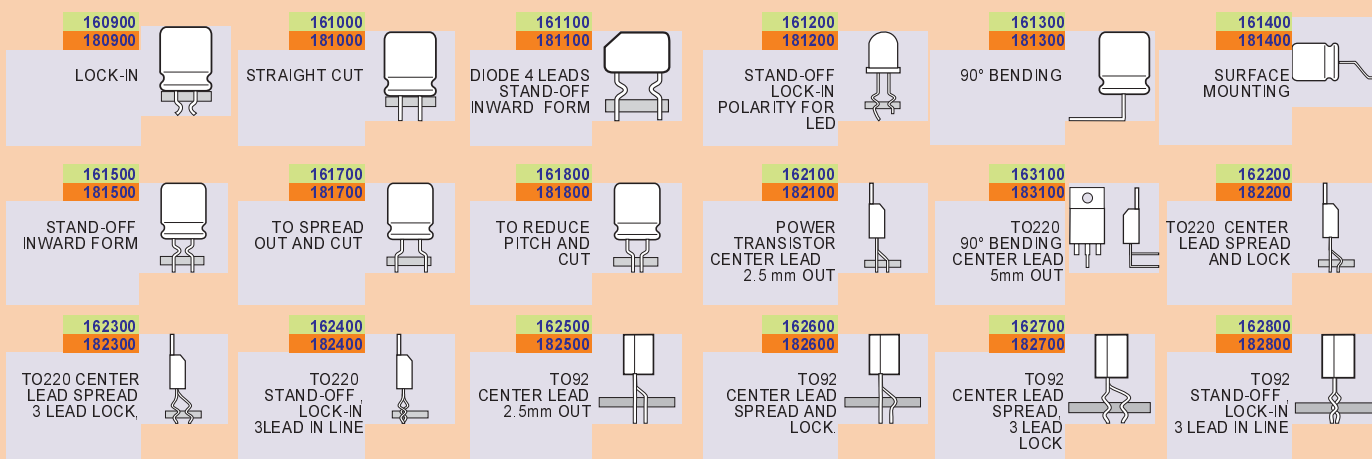
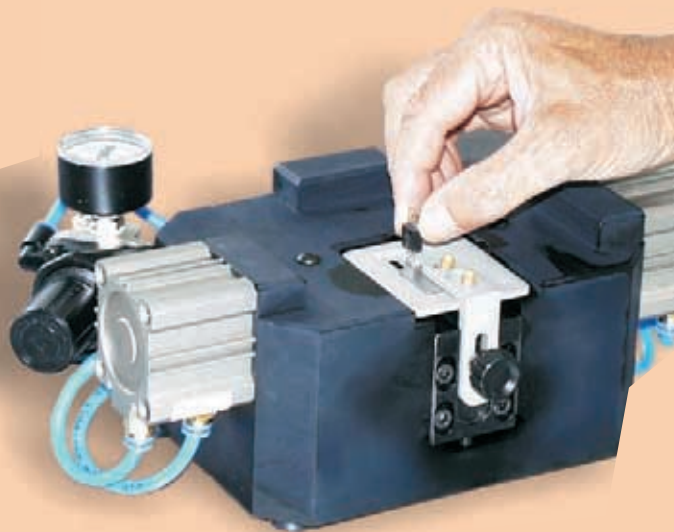
2000 pcs/hr

7915.166

SUPERCUT/RS without preforming set

16xxxx

Preforming set



SUPERCUT/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 footpedal 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.

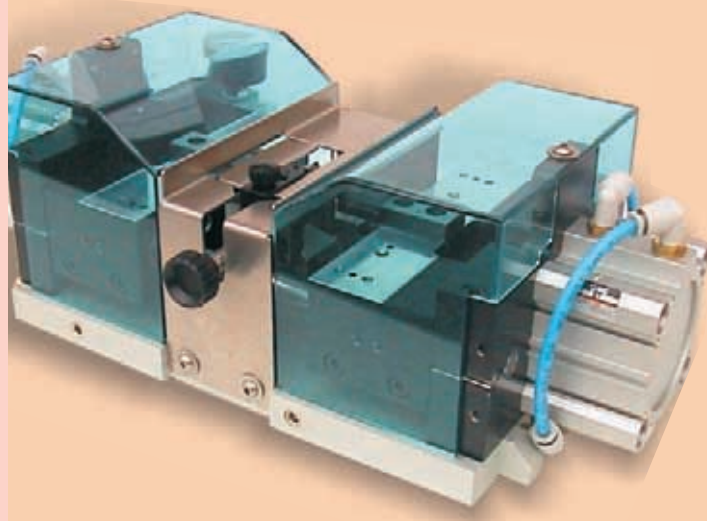
- wire holder system available on request
- more powerful cylinders
- stronger and more accurate
- less wear
- very large components processing (max. length 140mm, max. pitch 45mm)
- production rate 2000 pcs/hr

7915.171

SUPERCUT/TS1 without preforming set

18xxxx

Preforming set





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.

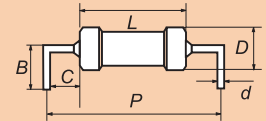
Production rate:

up to 40000 pcs/hr

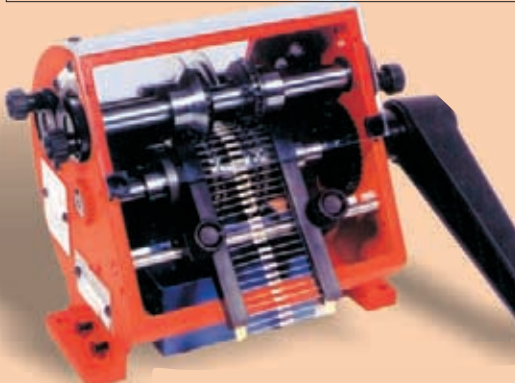
7915.030
7915.031
7915.180
7915.185

Motor unit for SUPERFORM, 220V - 50/60Hz
Motor unit for SUPERFORM, 110V - 50/60Hz
CS10 feeder for loose axial components
Tape reel holder arm BR6

	B		P		C		D		d		L	
	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 quick setting
7915.100D reinforced bending knives	5	13	10.5	60 (40*)	2.4	16			0.6	1.4	50	7915.100DR quick setting
7915.100F reduced cutting length reduced bending length	4	13	5	60 (40*)	0.8	10			0.4	0.8	50	7915.100FR quick setting
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.

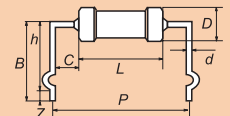
Production rate:

up to 20000 pcs/hr

7915.030
7915.031
7915.180
7915.185

Motor unit for SUPERFORM, 220V - 50/60Hz
Motor unit for SUPERFORM, 110V - 50/60Hz
CS10 feeder for loose axial components
Tape reel holder arm BR6

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



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 220V Motor Unit for SUPERFORM/A-AP-S-V-R-RCP
7915.031 110V Motor Unit for SUPERFORM/A-AP-S-V-R-RCP
7915.032 220V Motor Unit for SUPERFORM/AF-VP
7915.033 110V Motor Unit for SUPERFORM/AF-VP

600.023 Foot switch for 7915.030/031/032/033 motors

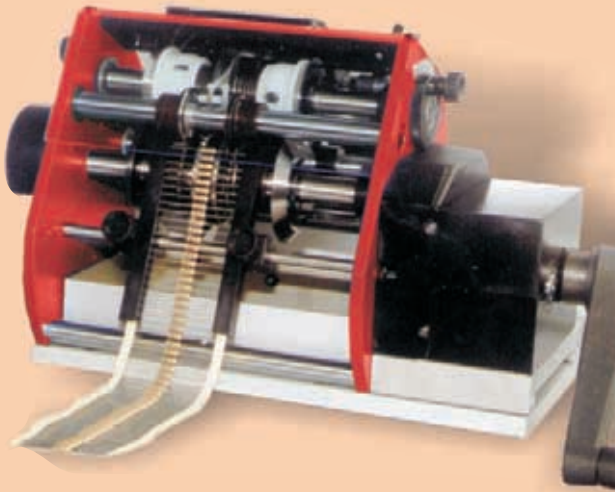
SUPERFORM Tape Reel Holder BR6

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



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.

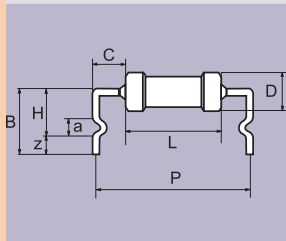
It is also possible to exclude part of the preforming operation to obtain the cutting and "U" bending only.

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

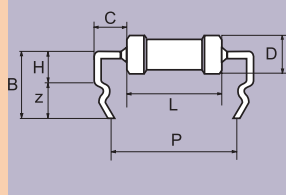
Dimensions in mm (* can increase, according to the component diameter)



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

STAND OFF - LOCK IN

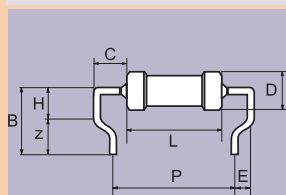
Dimensions in mm (* can increase, according to the component diameter)



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

STAND OFF - REDUCED PITCH

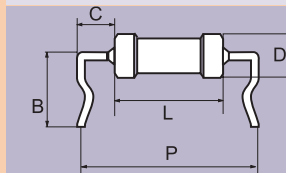
Dimensions in mm (* can increase, according to the component diameter)



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



model	P		L	C	B		d		D
	min	max	max	min	min	max	min	max	max
7915.095 (standard) with 421.000 assembly die	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, 220V- 50/60Hz
 7915.033 Motor Unit for SUPERFORM/AF, 110V- 50/60Hz
 7915.184 Loose Component Feeder CS40 for SUPERFORM/AF

420750 STAND-OFF preforming die assembly, curl 3mm
 420800 STAND-OFF preforming die assembly, curl 2.5mm
 420850 STAND-OFF/LOCK-IN pref. die assembly (d:0.5 - 0.8)
 420900 STAND-OFF/REDUCED PITCH pref. die assembly
 420950 STAND-OFF/LOCK-IN pref. die assembly (d:0.6 - 1)
 421000 BODY LOCKED ON PCB preforming die assembly
 430700 STAND-OFF preforming die assembly (d:1-1,3mm)
 430900 STAND-OFF/REDUCED PITCH (d:1-1,3mm)

SUPERCUT/TOCF for tubed transistors



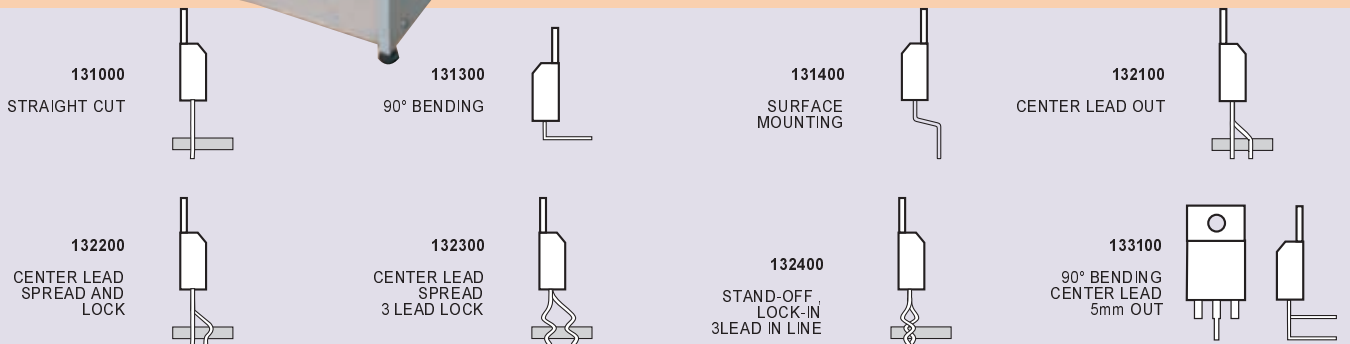
SUPERCUT/TOCF automatic machine is designed to cut and form tubed radial components type TO220, TO218, TO126.

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, 110Vac
- 7915.177** SUPERCUT/TOCF without tools, 220Vac



SUPERCUT/RP for taped radials

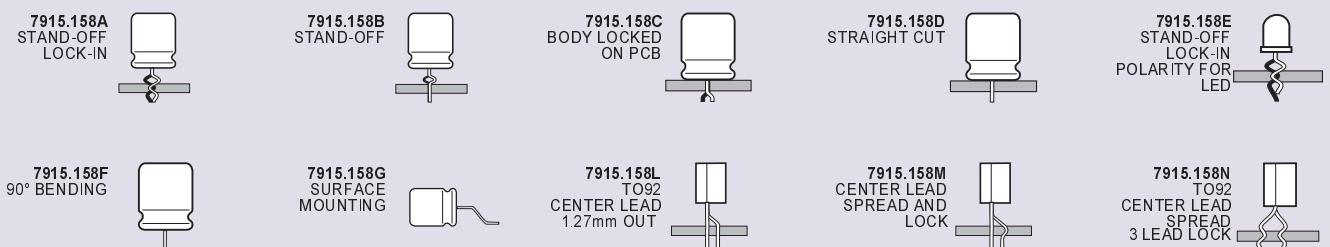
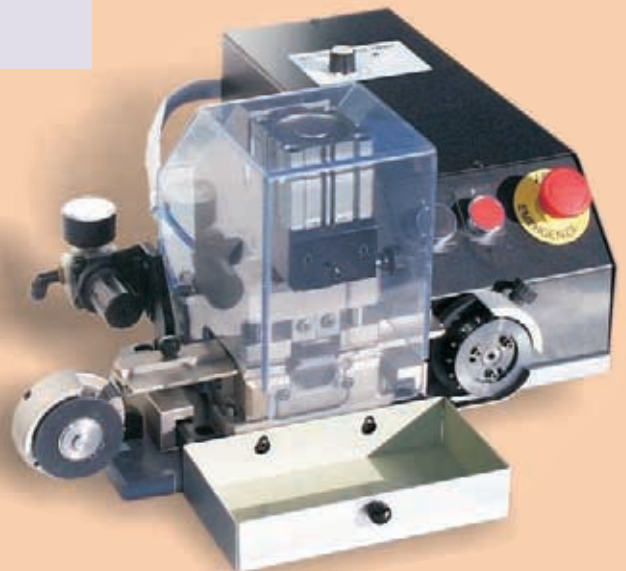
SUPERCUT/RP is a machine designed to cut and form taped radial component leads, the curl formed by this model allows the components to remain spaced and locked in the PCB, making assembly operations easier .

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

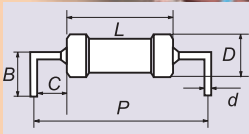
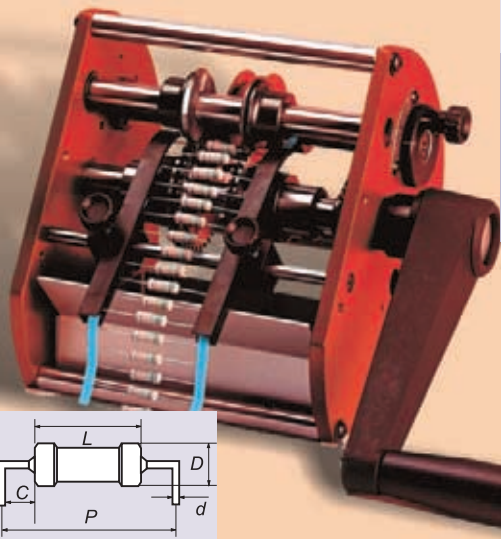
- 7915.153** Manual machine SUPERCUT/RP without preforming set
- 7915.156** Feed system for taped components, tape P=12.7, 110Vac
- 7915.156A** Feed system for taped components, tape P=15, 110Vac
- 7915.157** Feed system for taped components, tape P=12.7, 220Vac
- 7915.157A** Feed system for taped components, tape P=15, 220Vac
- 7915.158** Die block



SUPERFORM-LC

low-cost series

Economic, manual machines, designed for small productions. These machines can not be motorized, the "Tape reel holder" model BR6 (page 15 of the catalog) can be applied



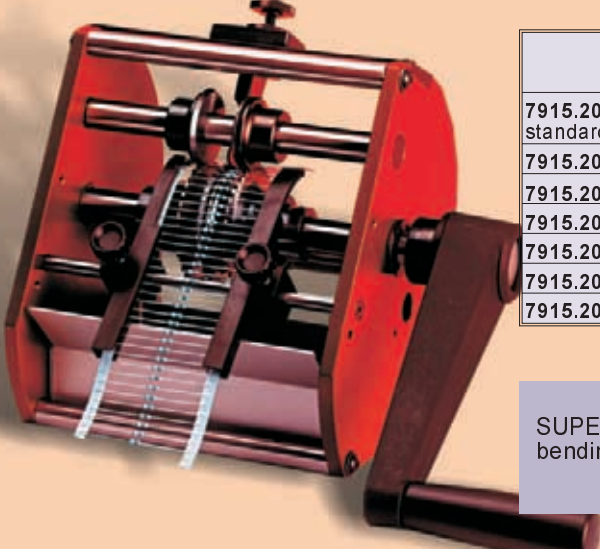
SUPERFORM/A-LC

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.

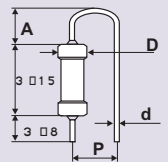
	B		P		C	D	d		L
	min	max	min	max	min	max	min	max	max
7915.200A standard model	4	13	6.5	60	1.2	16	0.4	1.3	50
7915.200D reinforced bending knives	5	13	10.5	60	2.4	16	0.6	1.4	50
7915.200F reduced cutting length reduced bending length	4	13	5	60	0.8	10	0.4	0.8	50
7915.200G like "F" + fixed pitch	4	10	5	-	0.5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

SUPERFORM/V-LC

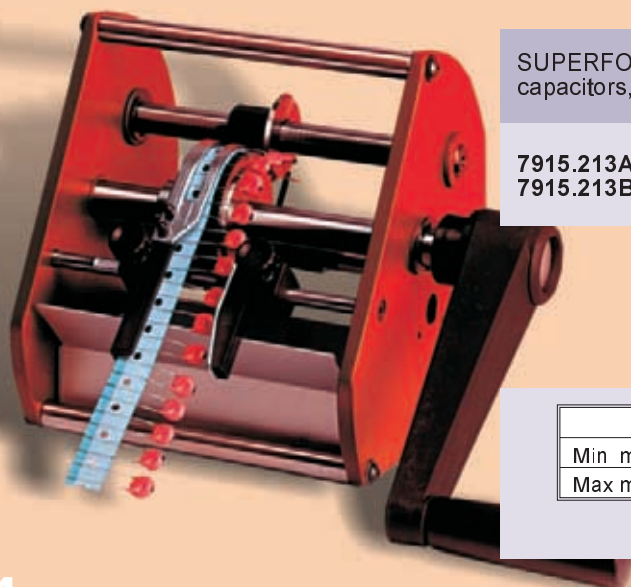


	P	d		A		D
	fix	min	max	min	max	max
7915.201 B standard model	2.54	0.5	0.8	2	6	3
7915.201 C	3.8	0.5	0.8	2.5	6	5
7915.201 D	5.08	0.5	0.8	3	7	8
7915.201 E	7.62	0.5	0.8	4	7	10
7915.209 A	3.8	0.8	1.3	4	9	5
7915.209 B	5.08	0.8	1.3	5	9	8
7915.209 C	7.62	0.8	1.3	6	9	10

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



SUPERFORM/R-LC

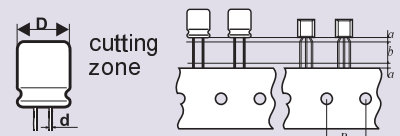


SUPERFORM/R is a machine made for cutting radial taped components such as capacitors, transistors and stand-off resistors.

7915.213A (standard)
7915.213B

P=12.7mm
P=15mm

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



Free cap rotation

PRECISION SCREWDRIVERS



Chrome-Molybdenum-Vanadium alloy, with a black tip

SLOT



PHILLIPS



PVC	Dissipativo	Misure
PG1-0	PG 1-0-D	1,2x60
PG1-1	PG 1-1-D	1,5x60
PG1-2	PG 1-2-D	1,8x60
PG1-3	PG 1-3-D	2,5x75
PG1-4	PG 1-4-D	3,0x100
PG1-5	PG 1-5-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



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

TAMPER RESISTANT



AUTOMATIC FORMING TOOLS

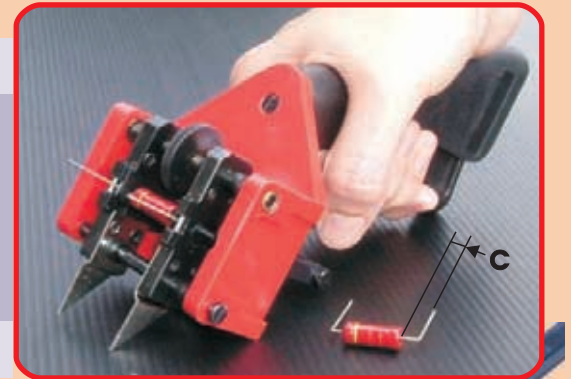
This tool is hand operated, adjustable, useful to obtain a U-form for axial components.

Adjustable pitch from 12 to 28mm.

Max. Body diameter : 11mm.
 Max. Lead diameter : 01mm
 Min bending distance from body "C" : 2.5mm

7915.593

U-form plier - mod.PR/3

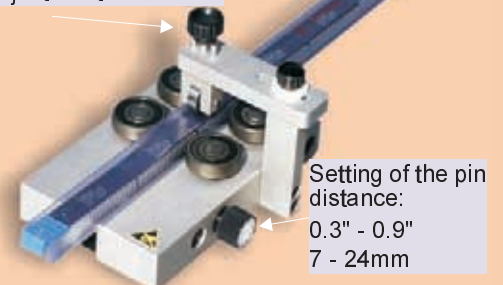


PINS ALIGNER

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.

7804.711PINS Aligner

Down pressure of vertical bearing adjustment.



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.

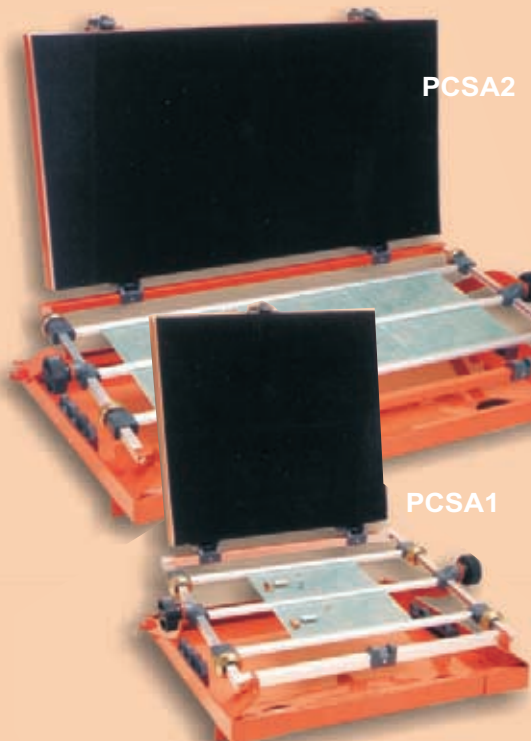
Additional rails may be added to accommodate a larger number of small boards.

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.



PCSA2

PCSA1

7915.599
 7915.601
 7915.605

PCSA1 PCB's holder, max. working dimensions 270 x 220mm
 PCSA2 PCB's holder, max. working dimensions 500 x 220mm
 PCSA4 PCB's holder, max. working dimensions 500 x 350mm

7915.610
 7915.612

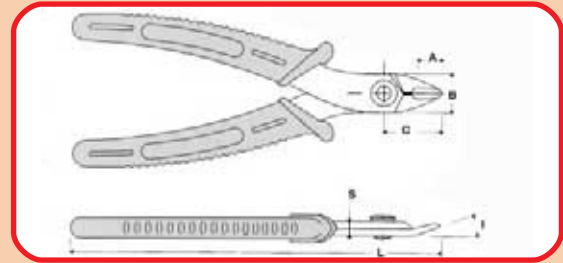
Additional sliding rail for PCSA1
 Additional sliding rail for PCSA2 and PCSA4

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° - 10° Ω)
INSULATING blue

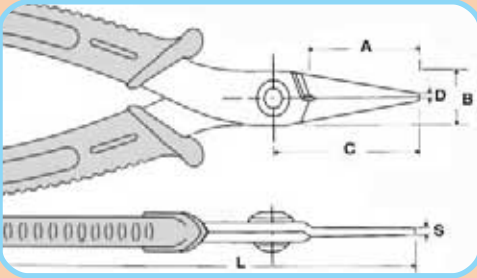
A patented safety clip to prevent the cut lead to spring out dangerously is available.



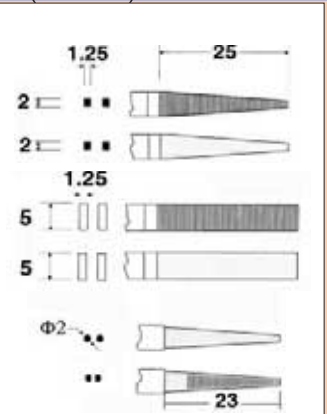
USE	TYPE OF CUT	WT	dia. max Copper wire		DIMENSIONS						CODE	HANDLES		SAFETY CLIP
			gr.	mm	AWG	A	B	C	S	L		I	ESD black	
normal For lead diameter to 1mm	Clean cut 	60	1,02	18	8	13,5	20	5	138	21°	TRE 03 NB TRE 03 AB TRE 03 NBD TRE 03 ABD	• • •	• •	• •
normal For lead diameter to 1,3mm	Clean cut 	65	1,30	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

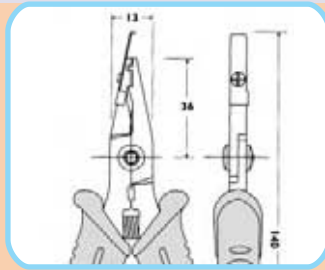
Professional pliers developed for the electronics industry.
Short, long, rounded pliers, with smooth or serrated nose.
Extension D is for the Black Dissipative PVC handles ($10^6-10^9\Omega$).



	A	B	C	D	S	L	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

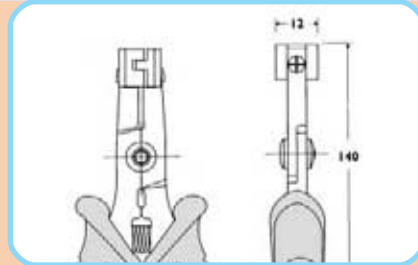


Professional tool specially designed to cut and preform components in a single operation.
Variable length by means of an adjustable stop.

PNR5000 PVC blue handles
PNR5000D black dissipative ESD handles
($10^6-10^9\Omega$)
Max. diam.: copper lead 1mm/18AWG

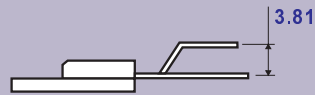


PREFORMING TO220

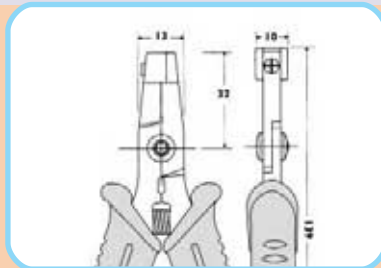


Professional tool specially designed to preform with central lead out of 3.81mm.

PN5050 PVC blue handles
PN5050D black dissipative ESD handles
($10^6-10^9\Omega$)

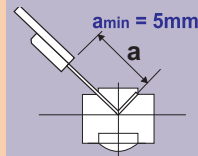


PREFORMING AT 90°



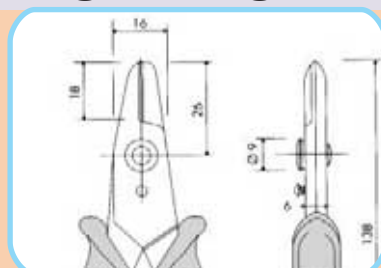
Professional tool specially designed to preform components at 90°.

PN5040 PVC blue handles
PN5040D black dissipative ESD handles
($10^6-10^9\Omega$)



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 blue handles

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

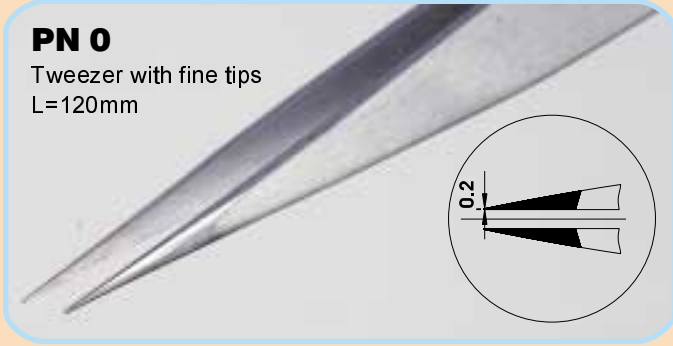
TWEEZER

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



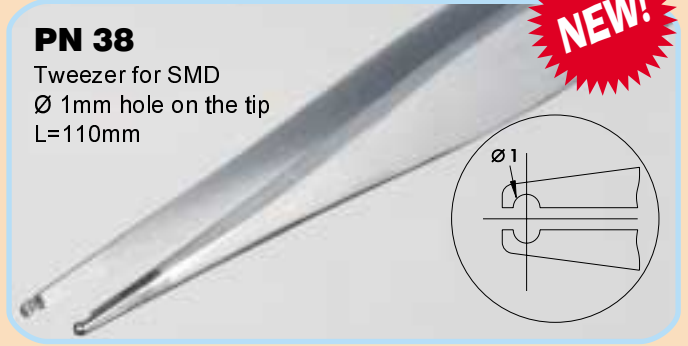
PN 0

Tweezer with fine tips
L=120mm



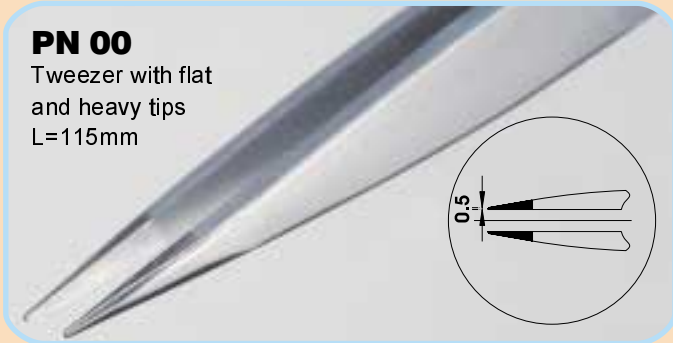
PN 38

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



PN 00

Tweezer with flat
and heavy tips
L=115mm



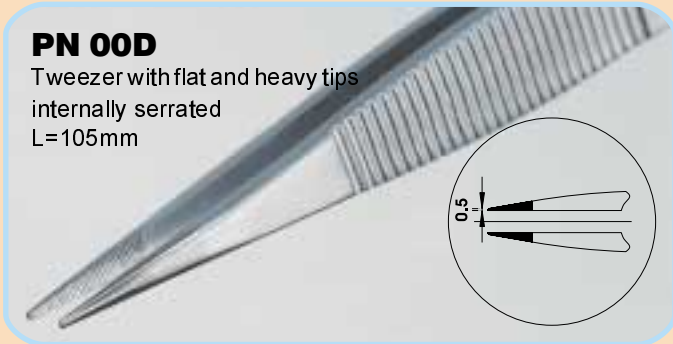
PN 102

Tweezer for SMD
angled tips
L=120mm



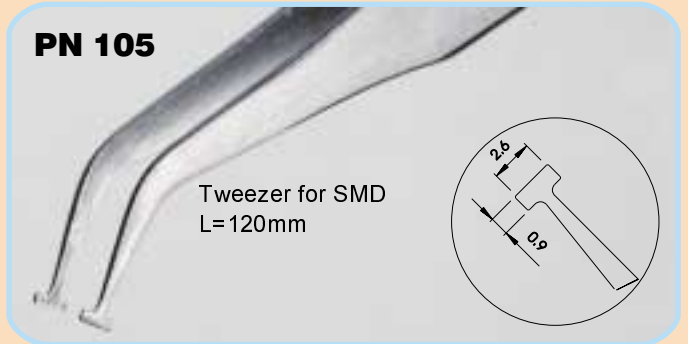
PN 00D

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



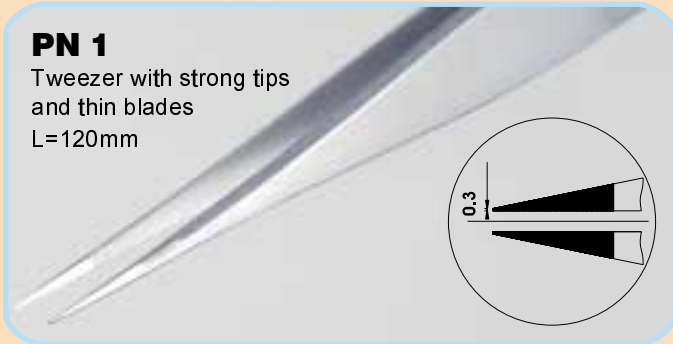
PN 105

Tweezer for SMD
L=120mm



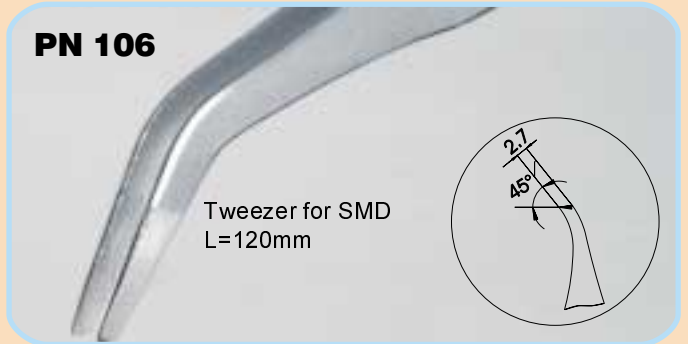
PN 1

Tweezer with strong tips
and thin blades
L=120mm



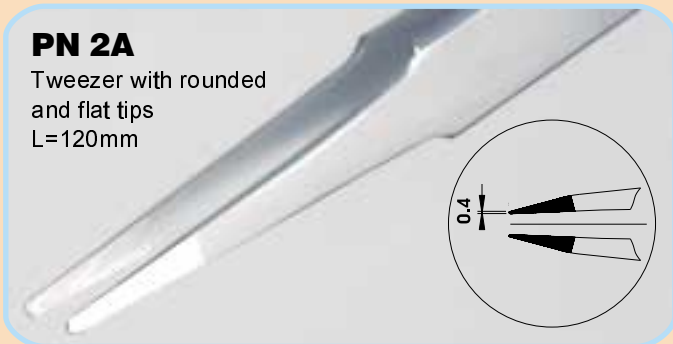
PN 106

Tweezer for SMD
L=120mm



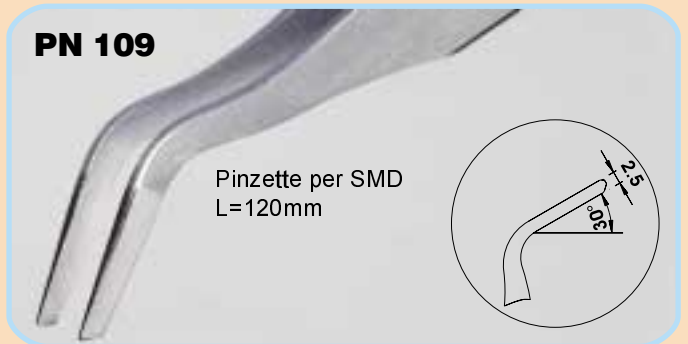
PN 2A

Tweezer with rounded
and flat tips
L=120mm



PN 109

Pinzette per SMD
L=120mm



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} Ω
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)

7805.930

Electronic cleaning solvent - 5litre can

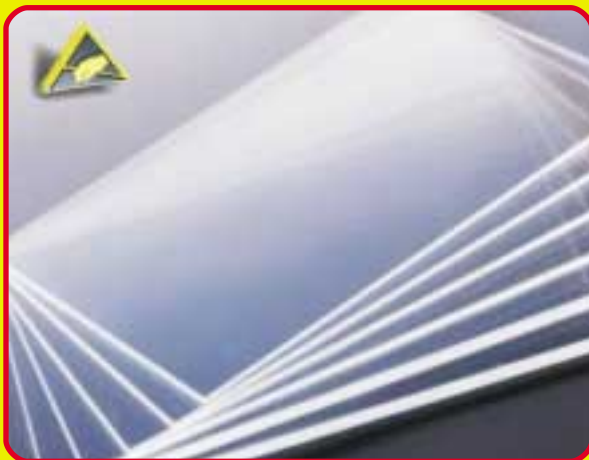


SELF-ADHESIVE POLYESTER FILM

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	10^6 to 10^8 Ω
Dissipative Polyester film	100µm thickness
Dissipative acrylic adhesive	12µm thickness
Release Not ESD film	23µm thickness

7809.040 Self-adhesive polyester film 1300mm 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: 10^6 to 10^8 Ω

Protection hoods



- 7809.010** ACRYLIC PANEL - Transparent, Dissipative, 1m x 2m x 3mm
- 7809.012** ACRYLIC PANEL - Transparent, Dissipative, 1m x 2m x 5mm
- 7809.014** ACRYLIC PANEL - Transparent, Dissipative, 1m x 2m x 6mm
- 7809.016** ACRYLIC PANEL - Transparent, Dissipative, 1m x 2m x 8mm
- 7809.018** ACRYLIC PANEL - Transparent, Dissipative, 1m x 2m x 10mm
- 7809.022** ACRYLIC PANEL - Transparent, Dissipative, 1.2m x 2,4m x 20mm

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.

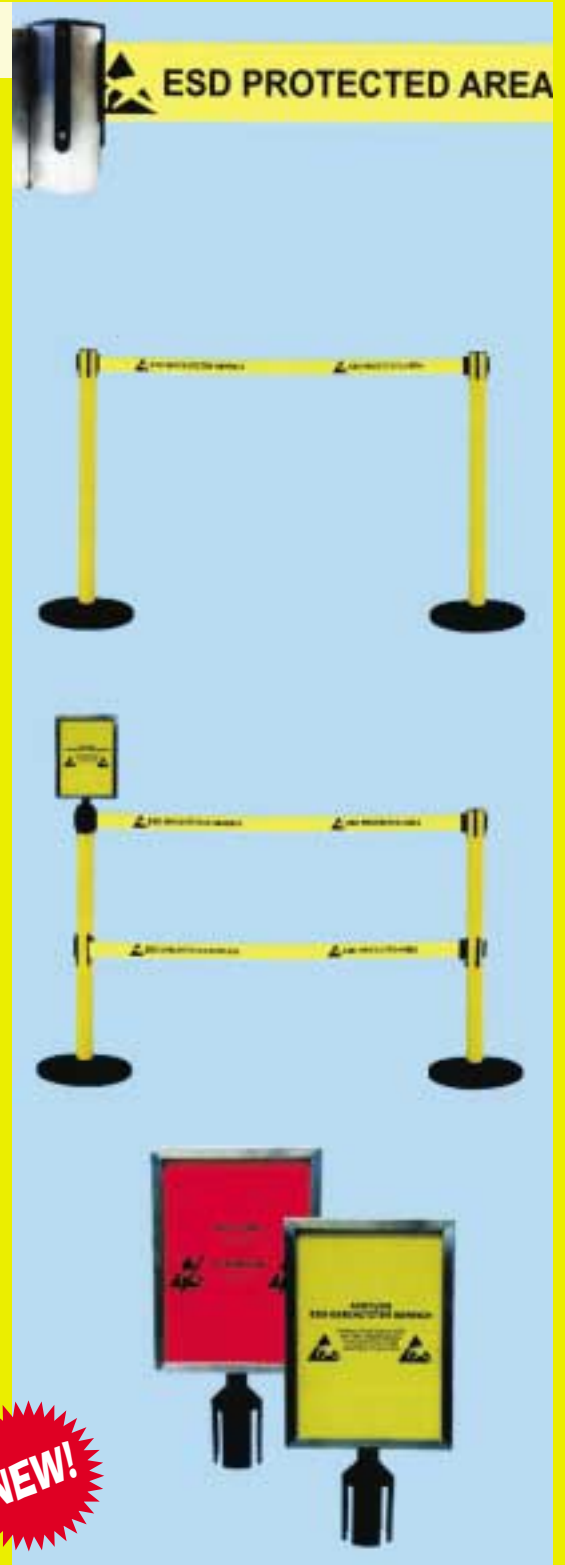
Belt barrier post

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 belt belt length 4m
7807.954	Belt barrier post, dual belt belt length 2m
7807.956	Sign holder A4, for belt barrier post



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	HIGH TEMP. TAPE 6mm x 33m	7807.192	HIGH TEMP. TAPE ESD 6mm x 33m
7807.186	HIGH TEMP. TAPE 9mm x 33m	7807.193	HIGH TEMP. TAPE ESD 9mm x 33m
7807.187	HIGH TEMP. TAPE 12mm x 33m	7807.194	HIGH TEMP. TAPE ESD 12mm x 33m
7807.189	HIGH TEMP. TAPE 19mm x 33m	7807.196	HIGH TEMP. TAPE ESD 19mm x 33m
7807.190	HIGH TEMP. TAPE 25mm x 33m		



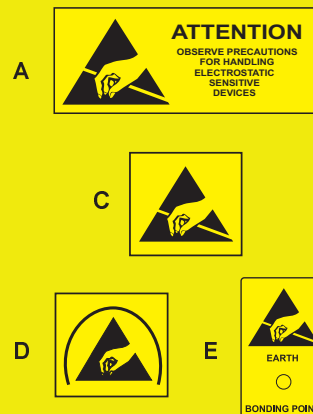
LABEL HOLDER

Transparent adhesive label holder with and ESD symbol.

7805.240	Label Holder, with label	15 x 55mm
7805.360	Label Holder, with label	15 x 94mm
7805.358	Label Holder, with label	31 x 94mm
7804.918	Label Holder, with label	47x100mm
7804.920	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.)
7807.105	"ATTENTION" Adhesive label, ESD (A)	127x50mm(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.)



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
7807.159	"ESD SUOJATTU ALUE" Finnish rigid PVC	600x300mm

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



COPPER EARTHING TAPE

Used to ground ESD matting

7805.828	- Self-adhesive - 0.05mm thickness, 10mm wide, 30m long roll	COPPER adhesive earthing tape
7805.830	- Self-adhesive - 0.05mm thickness, 15mm wide, 30m long roll	COPPER adhesive earthing tape



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



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	Clear Dissipative Tape	12mm x 66m
7807.180B	High quality blue clear Dissipative Tape	12mm x 66m
7807.181	Clear Dissipative Tape	24mm x 36m

NEWBOX TOTE-BOX

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

CODE	MODEL	EXT.mm	INT.mm	Vol.lt
7804.690	NEWBOX 10	400x300x120	353x253x117	10
7804.687	NEWBOX 14	400x300x170	353x253x167	15
7804.688	NEWBOX 20	400x300x220	353x253x217	20
7804.689	NEWBOX 31	400x300x320	353x253x317	30
7804.692	NEWBOX 15	600x400x075	553x353x071	14
7804.694	NEWBOX 24	600x400x120	553x353x116	23
7804.693	NEWBOX 33	600x400x150	553x353x146	29
7804.698	NEWBOX 34	600x400x170	553x353x166	33
7804.699	NEWBOX 42	600x400x220	553x353x216	42
7804.696	NEWBOX 50	600x400x236	553x353x232	45
7804.695	NEWBOX 55	600x400x280	553x353x276	54
7804.697	NEWBOX 70	600x400x336	553x353x332	65
7804.685	NEWBOX 80	600x400x420	553x353x415	80



Label Holder

Logo Application over NEWBOX



7804.931

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

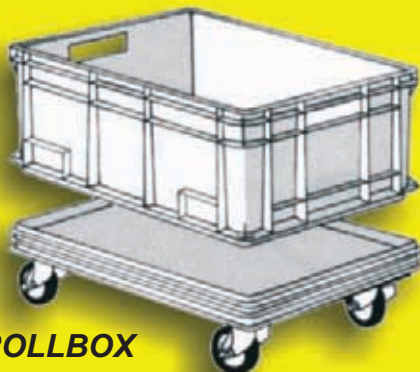
A plastic transparent film is thermally

impressed over the box side.

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

ACCESSORIES

7804.691	300 x 400 Conductive Cover
7804.700	600 x 400 Conductive Cover
7804.686	Snapping Closure (2 /each cover)
7804.923	SPRING LABEL HOLDER
7804.701	Rollbox - 600x400 Conductive Trolley
7804.702	Rollbox (2 wheels with brake)- 600x400 Conductive Trolley
7806.300	10mm Conductive Foam for 600x400 Newbox
7806.306	10mm Conductive Foam 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



ROLLBOX

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, Rs < 10⁶ Ω.

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





DEPOPRINT

Made from black conductive polystyrene, the **DEPOPRINT** system accomodates 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 (lenght cut to max 3m).

Material:	black conductive polystyrene
Rs:	<math><10^5 \Omega</math>
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	DEPOPRINT 2 Sidewall 209mm (H)
7804.752	DEPOPRINT 3 Sidewall 312mm (H)
7804.765	Aluminium Connecting Rail 95mm (H)
7804.759	Insertion Stop
7804.773	Hexagonal spanner for assembling sidewall



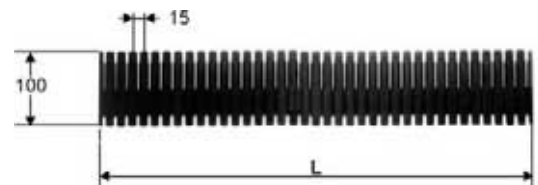
DIVIPRINT - plastic dividers

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 polystyrene
Rs:	<math><10^5 \Omega</math>
Temperature range:	from 0 to +55 °C
Slit pitch :	15mm

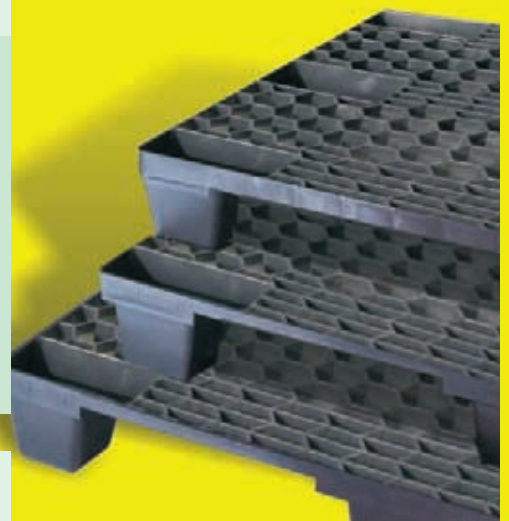
7806.412	Diviprint L=255mm length
7806.410	Diviprint L=351mm length
7806.400	Diviprint L=551mm length



Polypropylene conductive Pallet

These conductive pallets are particularly suitable for the electronic and pharmaceutical industry. Rigid and dimensionally stable due to its "honeycomb structure"; they are also lightweight, nestable, washable, and easy to handle.

colour	black
material	conductive polypropylene
Dimensions	800 x 1200 x 150(H)mm
weight	9 kg
fork entry	4 way
static load	4,000 kg
dynamic load	1,200 kg (on a forklift)
Rs	$10^6 \Omega$



7803.700	Polypropylene conductive Pallet, 800 x 1200 x 150(H)
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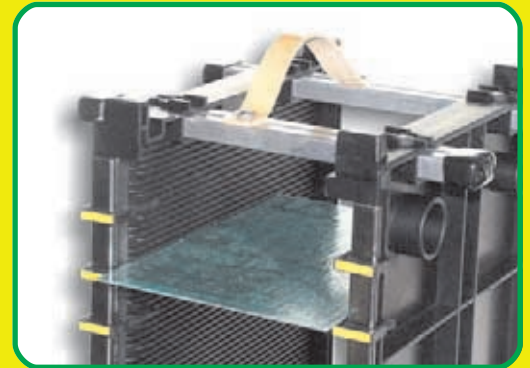


LABERACK PCBs handling

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

Material: Static dissipative polypropylene, $R_s 10^6 \div 10^8 \Omega$
 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.

7804.002 Aluminium connecting rail (length cut to max 3m)
 To give the exact length of connecting rail add to the board width 20 mm for each sidewall and 6 mm for intermediate wall



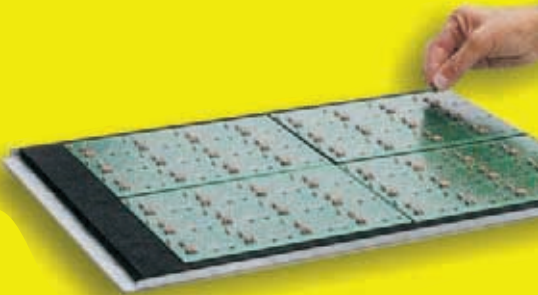
- 7804.007** Sidewall in black dissipative polypropylene +70°C
- 7804.017** Intermediate wall in black dissipative polypropylene +70°C
- 7804.021** Handle for transport (rail fixing)
- 7804.025** Bag of 40 spare screw and bolts
- 7804.040** Clips for sidewall (with labels)
- package of 100
- 7804.041** Clips for intermediate wall (with labels)
- package of 100

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
 - conductive 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 500x330x7mm



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



7804.132



7804.134

An effective alternative to LABETRAY is the DESK HOLDER 7804.120 . It is possible to make an adjustable rack by assembling 2 Desk Holders with 4 threaded bars.

- 7804.120** Black conductive Desk Holder
dim.: 200x240x20mm
- 7804.125** Kit of four 330mmxM8 threaded bars and nuts





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, $R_s 10^5 \div 10^8 \Omega$
 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).
 To give the exact length of connecting rail add to the board width 18mm for each sidewall



Snap-on insertion of back-stop



Snap-on insertion for sidewall

- | | |
|----------|---------------------------------|
| 7804.052 | Sidewall black dissipative |
| 7804.060 | Aluminium connecting rail |
| 7804.072 | Flat slide black conductive |
| 7804.075 | Bag of 40 spare nuts and bolts) |

MODULINE

The MODULINE adjustable circuit board holders have multiple uses in the static-free environment. At workstations they hold PCBs during insertion, assembly, testing, burn-in and rework.

TECHNICAL FEATURES

material: static dissipative polypropylene, black colour
 Dimensions: 285x145x80mm

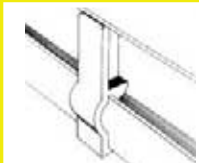
- | | |
|----------|---|
| 7610.011 | Dissipative PCB holder with 1 clamp and 2 clips |
| 7610.012 | Dissipative adjustable clamp |
| 7610.013 | Dissipative board supporting clips |
| 7610.014 | Dissipative PCB holder without clamp |



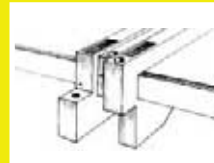
Adjustable clamp



Width extension



Board supporting clips



Length extension



Stacking holders



7804.110

LABESERT 10

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

7804.110
LABESERT 10-2 Rack dim. 315x355x575(H)mm
 Walls and terminal plates made by conductive plastic (60°C)
 PCB adjustment: from 40 to 260mm
 Side Guide Slot: depth 3.5mm - width 7mm

7804.090
LABESERT 10-4 Rack dim. 460x535x570(H)mm
 Conductive plastic walls, metal terminal plates (60°C)
 PCB adjustment: from 50 to 390mm
 Side Guide Slot: depth 3.5mm - width 5mm



7804.090

SMD SPOOL RACKS



7805.692



7805.703

- 7805.690** LICEFA rack for 25 spools max.dia. 220mm
external dimensions 450 x 240mm
25 slots with adjustable width
not ESD vacuum formed, gray colour
- 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
- 7805.694** LICEFA rack for 25 spools max.dia. 330mm
external dimensions 450 x 310mm
25 slots with adjustable width
not ESD vacuum formed, gray colour
- 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** ITECO rack for spools dia. 180-330mm
external dimensions 400 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

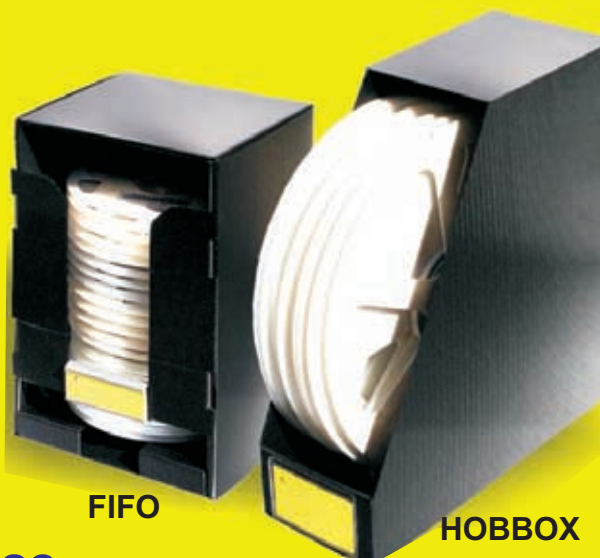
Zinc plated spool rack, with movable dividers, to lay over tables or inside lockers.
It can house reels from 180 to 330mm diameter

- 7805.730** Zinc plated spool rack, 29 slots, length 630mm
- 7805.732** Zinc plated spool rack, 47 slots, length 1000mm
- 8100.075P** Movable plastic divider



7805.730

8100.075P



FIFO

HOBBOX

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

Conductive BOXES

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

7804.460	BJ removable lid, 1 hard foam, ins. 34x34x12mm
7804.462	BJ removable lid, 1 hard foam, ins. 25x54x14mm
7804.464	BJ removable lid, 1 hard foam, ins. 44x56x14mm
7804.466	BJ removable lid, 1 hard foam, ins. 32x118x14mm
7804.468	BJ removable lid, 1 hard foam, ins. 44x118x14mm
7804.470	BJ removable lid, 1 hard foam, ins. 67x117x14mm
7804.471	BJ hinged lid, 1hard foam, ins. 34x34x10mm
7804.472	BJ hinged lid, 1hard foam, ins. 73x51x16mm
7804.474	BJ hinged lid, 1hard foam, ins. 88x63x16mm
7804.476	BJ hinged lid, 1hard foam, ins. 108x81x16mm
7804.478	BJ hinged lid, 1hard foam, ins. 228x125x20mm
7804.480	BJ hinged lid, 1hard foam, ins. 228x125x30mm
7804.482	BJ hinged lid, 1hard foam, ins. 228x125x39mm

7805.502	Removable lid, without foam	ins. 50x30x16mm
7805.504	Removable lid, without foam	ins. 57x36x17mm
7805.506	Removable lid, without foam	ins. 73x42x17mm
7805.508	Removable lid, without foam	ins. 80x50x27mm
7804.492	MOS1 hinged lid, 1 hard foam, ins. 50x90x16mm	
7804.496	MOS2 hinged lid, 1 hard foam, ins. 95x160x16mm	

7805.500	Round with cover	ins.diam. 27x13mm, black ESD
7805.499	Round with cover	ins.diam. 27x13mm, transparent ESD



7805.512 int.183x108x30mm



Conductive BOXES with hinges and metal fasteners



7805.522 int.288x156x16mm



7805.523 int.288x156x38mm



7805.525 with 54 folds
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
8500.230	internal dimensions 340x250x53mm
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
8500.231	with conductive profiled foam int. 340x250x35(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_{sup} 10⁶-10⁹Ω), 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

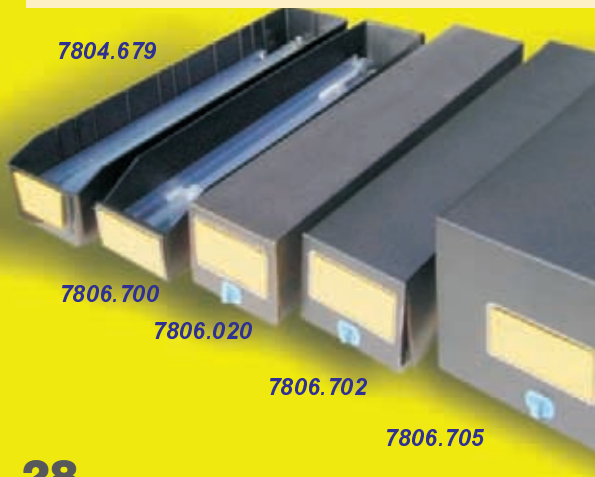
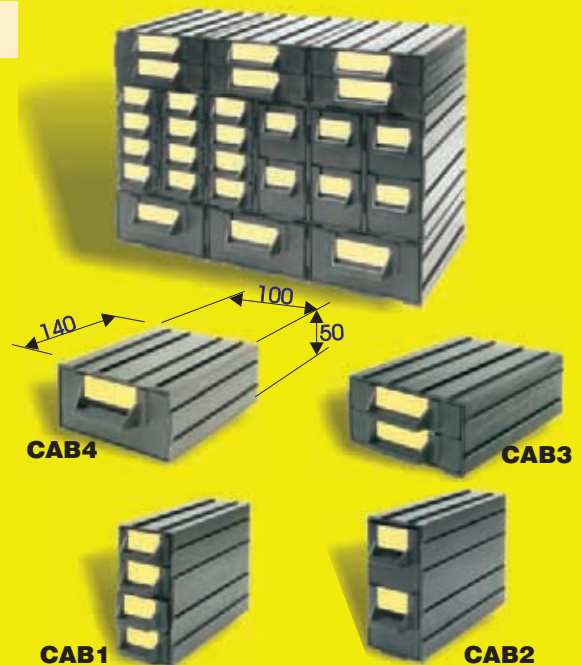
CAB - cabinets

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)



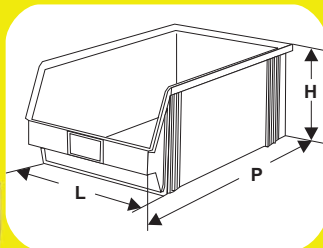
DIP TUBES BIN BOXES

7804.679	Open stick-container, very strong, conductive polystyrene moulded, ext. 625x140x90(H)mm int. 610x130x85(H)mm
7804.680	Control divider for 7804.679, zinc plated material
7806.700	Open stick-container made from LABEPLAST, supplied in flat-pack form, for assembly on-site 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. 605x115x88(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

- 3 ergonomic shape
- 3 stronger than TECOFIX
- 3 stackable
- 3 hungable on most types of rails and louvred panels (FUTURA 5- 4)
- 3 conductive polypropylene
- 3 $R_s < 10^6 \Omega$
- 3 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
7804.748	Container FUTURA 3	ext.360x210x200(H)mm
7804.749	Container FUTURA 2	ext.508x310x200(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
9993.969	Yellow label for FUTURA 3-2	47x100mm

VISTAFIX - assembly stand

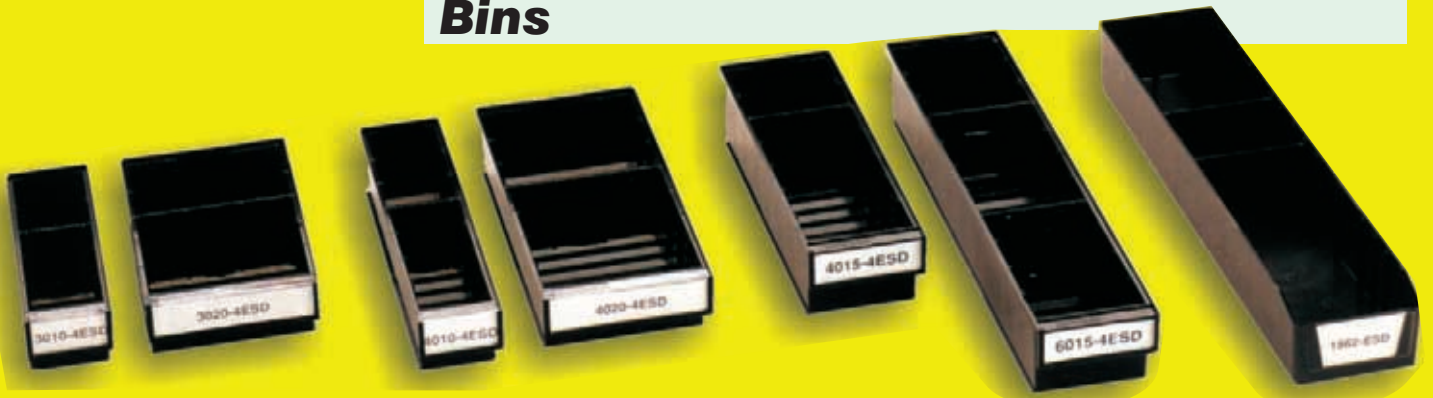
VISTAFIX zinc plated assembly stands are supplied complete of conductive TECOFIX bins.

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

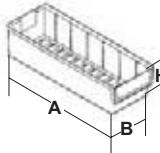
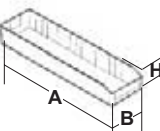


Bins



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		Fondo	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
7804.661	L64	170x90x59		150x86x55	7804.664	V-4	3
7804.679	1562	625x140x90		613x134x84	7804.681	V-15	11
					(corto)		
				7804.680	V-60	1	
				(lungo)			

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

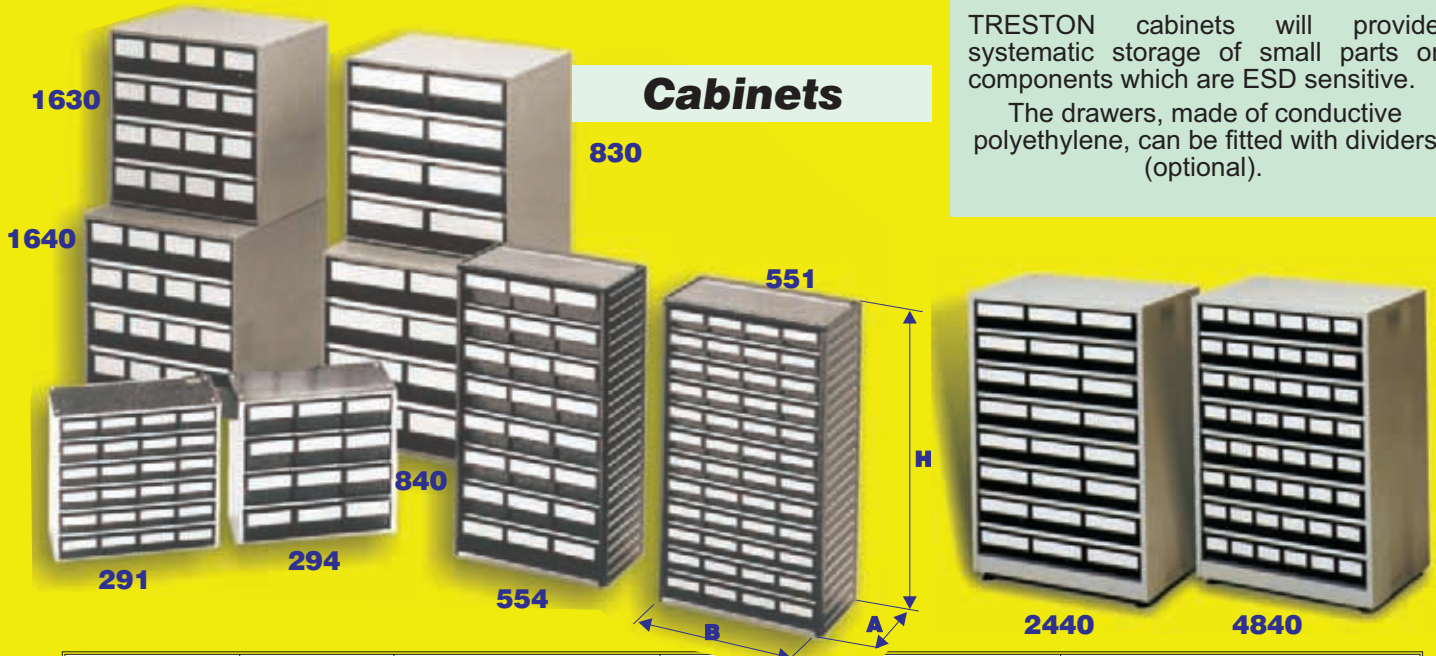


7804.648
(12-550) Turntable 3 layers holds 12 cabinets 551/554 dim.500x500x1730(H)mm load capacity max. 400kg



Turntable 4 layers load capacity max. 400kg
7804.649 holds 16 cabinets 0830/1630 (16-300) dim.700x700x1680(H)mm
7804.650 holds 16 cabinets 0840/1640 (16-400) dim.800x800x1680(H)mm

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 (optional).

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

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
Load capacity 150kg
8104.731(SAP710)ESD Moveable bench
H: 650-900mm Worktop 700x1000mm

310



308



296



298



301



304



302

306



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 $1 \times 10^8 \Omega$.

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	Hard brush 20x70mm (open nail type)
7807.298	Hard block 40x150mm (closed nail type)
7807.301	Hard brush 9x32mm
7807.302	Flat hard brush 12mm
7807.304	Flat hard brush 25mm
7807.306	Round hard brush 3mm dia.
7807.308	Flat soft brush 100mm
7807.310	Flat soft brush with handle 130mm

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.

Rs $< 10^5 \Omega$ (7804.399) – Rs $10^{11} \Omega$ (7804.400)

7804.414	A4 Document Pocket with holes (100 pack)
7804.420	A3 Document Pocket with holes (100 pack)
7804.399	A4 conductive Ring Binder - 4 ring 35mm dia., black
7804.400	A4 dissipative Ring Binder - 4 ring 35mm dia., blue



WASTE PAPER BIN

Waste paper bin made of conductive polypropylene.

Rs $< 10^5 \Omega$

7804.406	Waste paper bin, volume 17 litre, ext. dia. 300x330(H)mm
7804.407	Waste paper bin, volume 60 litre, ext. dia. 420x560(H)mm

Antistatic waste BAGS

Made of antistatic polyethylene, 40 μ m thickness.

Rs $10^{11} \Omega$

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 7804.407 bin

BAGGY - beauty-case for EPA areas

For storage of personal things into an EPA area.

Colour: Black

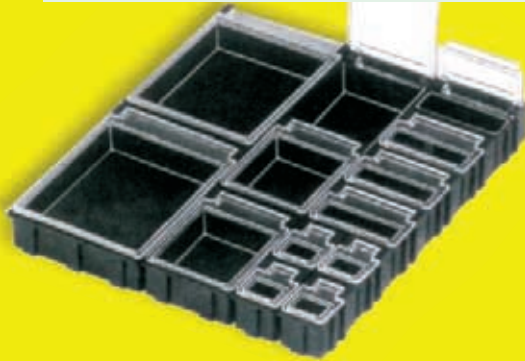
Dimensions: 320 x 100 x 150(H)mm

Rs $< 10^9 \Omega$

7807.910	Beauty-case per aree EPA
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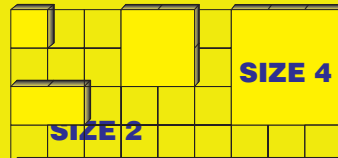
SNAPBOX



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.

SIZE 1 SIZE 3



SIZE 1

- 7808.620 SNAPBOX1 ESD black *int. 16x12x15mm*
- 7808.621 SNAPBOX1 ESD black, transparent cover *ext. 20x28x20mm*
- 7808.622 SNAPBOX1 not ESD various colours
- 7808.627 SNAPBOX1 not ESD various colours, transparent cover

SIZE 2

- 7808.632 SNAPBOX2 ESD black *int. 37x12x15mm*
- 7808.633 SNAPBOX2 ESD black, transparent cover *ext. 40x28x20mm*
- 7808.634 SNAPBOX2 not ESD various colours
- 7808.635 SNAPBOX2 not ESD various colours, transparent cover

SIZE 3

- 7808.644 SNAPBOX3 ESD black *int. 37x41x15mm*
- 7808.645 SNAPBOX3 ESD black, transparent cover *ext. 40x56x20mm*
- 7808.646 SNAPBOX3 not ESD various colours
- 7808.651 SNAPBOX3 not ESD various colours, transparent cover

SIZE 4

- 7808.656 SNAPBOX4 ESD black *int. 57x68x15mm*
- 7808.657 SNAPBOX4 ESD black, transparent cover *ext. 60x84x20mm*
- 7808.658 SNAPBOX4 not ESD various colours
- 7808.663 SNAPBOX4 not ESD various colours, transparent cover



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

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

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

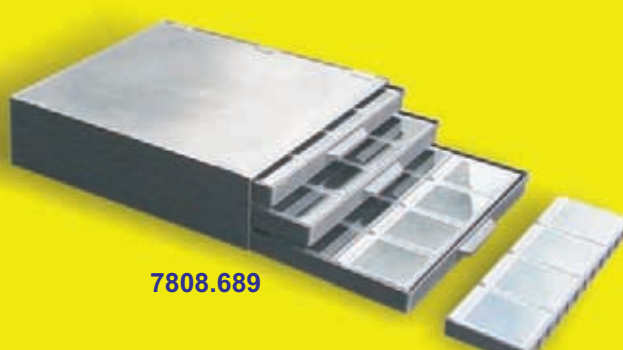
7808.688
Storage cabinet with 3 drawers H22
Black ESD
With 108 SNAPBOX3 (3 x 36)
ESD transparent cover

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

SNAPBOXSET

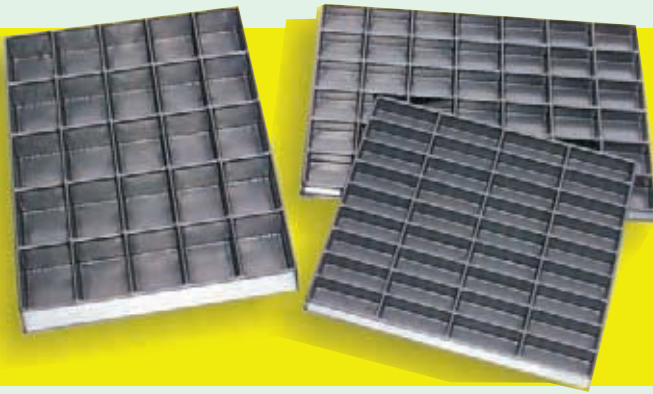


7808.687



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 \varnothing 27 mm

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

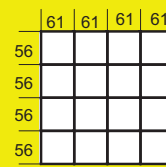
Inserts for drawers 40mm height (storage cabinet mod. 40)

They also can be used in drawers 62mm height

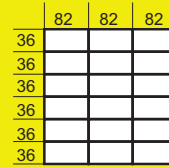
7805.362	3 compartments 80x332 mm
7805.364	6 compartments 80x165 mm
7805.366	9 compartments 78x108 mm
7805.368	12 compartments 78x78 mm
7805.370	16 compartments 57x81 mm
7805.372	19 compartments 50x44 mm
	+ 1 compartment 92x50 mm
	+ 1 compartment 188x50 mm
	+ 1 compartment 237x50 mm
7805.374	25 compartments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

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

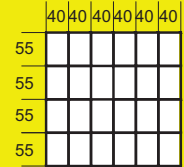
7805.440	4 compartments 116x160 mm
7805.442	6 compartments 75x160 mm
7805.444	9 compartments 75x105 mm
7805.445	12 compartments 71x75 mm



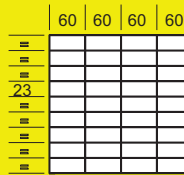
7805.252



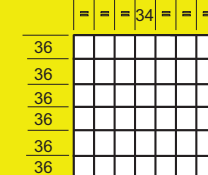
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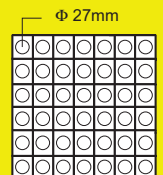
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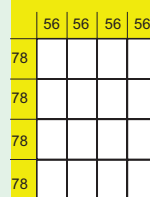
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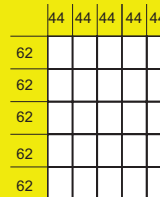
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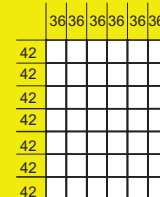
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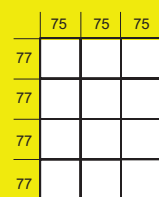
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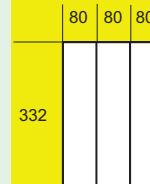
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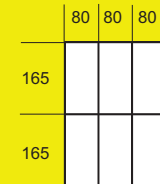
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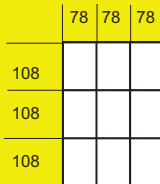
7805.179



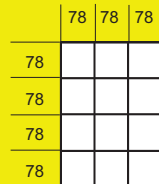
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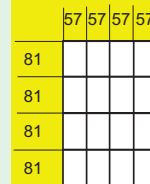
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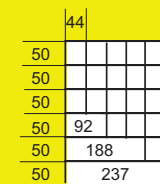
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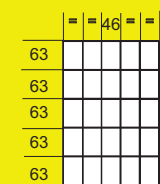
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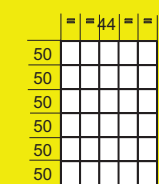
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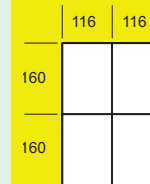
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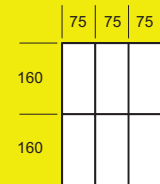
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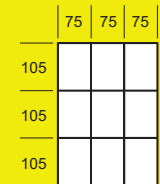
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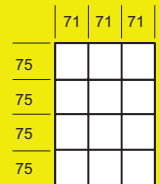
7805.440



7805.442



7805.444



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



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 < 10¹⁰Ω

Cheaper models for EPA workstation, made in fabric covering, without armrests and back angle adjustment.
 Video terminal models made in fabric covering, with armrest and back angle adjustment.
 Clean room models made from conductive, fire retarding, expanded polyurethane.





7807.345 

7807.347 



7807.325 

7807.326 



7807.327 

7807.328 

code	back rest angle		back rest		material			foot-plate	seat height adjust. mm		armrest	wheel	feet
	fix.	adj.	short	high	fabric	polyur ethane	wood		450/580	500/700			
7804.204	x		x		x			x		x		x	
7804.205	x		x		x			x		x			x
7804.204S	x		x		x				x			x	
7804.205S	x		x		x				x				x
7804.204R		x		x	x			x		x		x	
7804.205R		x		x	x			x		x			x
7804.204RB		x		x	x			x		x	x	x	
7804.207		x		x	x				x		x	x	
7804.208		x		x	x				x			x	
7804.207P		x		x	x				x		x		x
7804.208P		x		x	x				x				x
7807.336	x		x			x		x		x		x	
7807.337	x		x			x		x		x			x
7807.338	x		x			x			x			x	
7807.339	x		x			x			x				x
7807.341		x		x		x		x		x		x	
7807.343		x		x		x		x		x			x
7807.345		x		x		x			x			x	
7807.347		x		x		x			x				x
7807.325		x		x			x		x			x	
7807.326		x		x			x		x				x
7807.327		x		x			x	x		x		x	
7807.328		x		x			x	x		x			x



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

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: $\leq 10^5 \Omega$

Thickness:

2.5mm

Weight:

550g/m²

Color:

black

7806.164

LABEPLAST, 1250 x 600x2.5mm sheets

7806.166

LABEPLAST, 1250x1250x2.5mm sheets

2.5mm

DIVIPRINT - LABEPLAST dividers

Made from LABEPLAST 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



LABBOX - LABEPLAST Kitting Totes

LABBOX21 A very efficient means of preparing and transporting the components to the assembly area. The version without the short dividers, can be used to transport or store the Dip Tubes up to 600mm length.

7806.750

Base container

7806.752

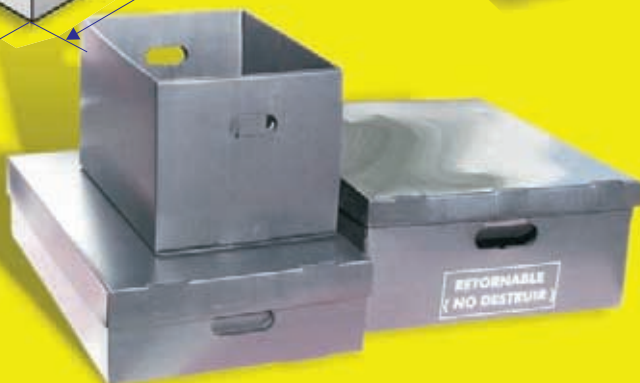
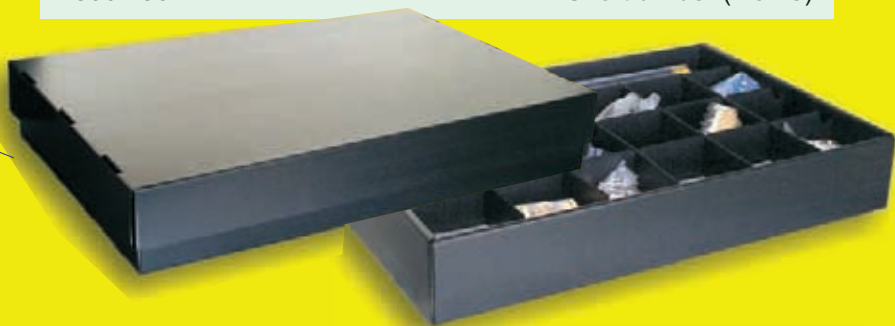
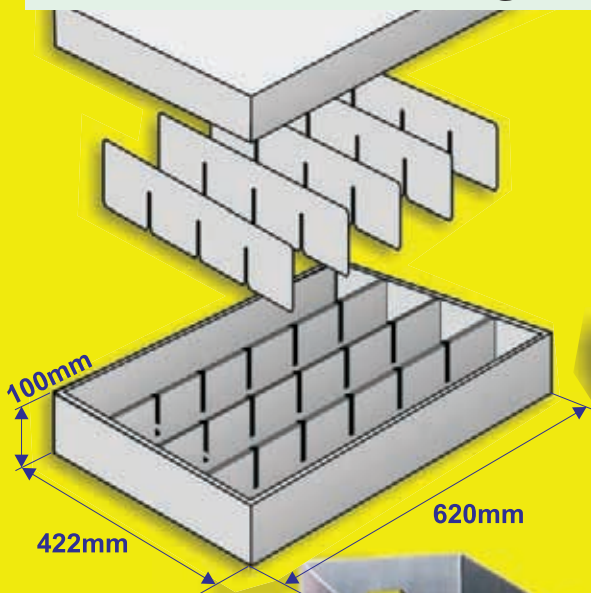
Cover

7806.754

Long divider (max.3)

7806.756

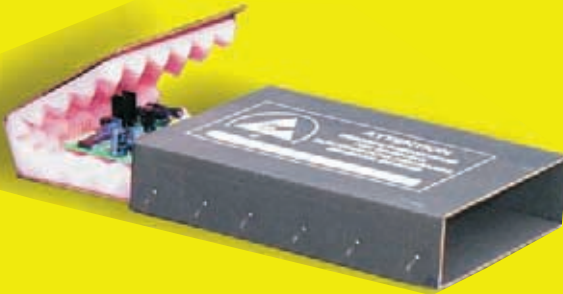
Short divider (max.5)



7806.720	LABBOX10 Base container	7806.760	LABBOX30 Base container	7806.815	LABBOX-S
	ext.275x400x250(H)mm		ext.370x590x140(H)mm		Box with antistatic profiled foam
7806.724	LABBOX14 Base container	7806.763	LABBOX50 Base container		ext. 350x145x70mm
	ext.430x510x200(H)mm		ext.370x590x220(H)mm	7806.245	LABBOX-S
7806.725	LABBOXC2	7806.766	LABBOXC1		Box with antistatic profiled foam
	Cover for LABBOX14		Cover for LABBOX30/50		ext. 410x240x60mm

PACKING

REUSABLE, STURDY CARTONS MADE FROM CONDUCTIVE CORRUGATED BOARD $R_s \leq 10^5 \Omega$



SLIDING SLEEVE BOXES

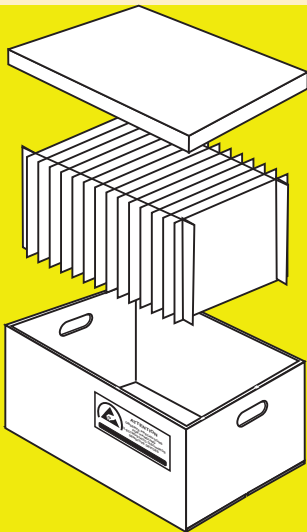
Antistatic cushioning FOAM

code	mod.	External 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.

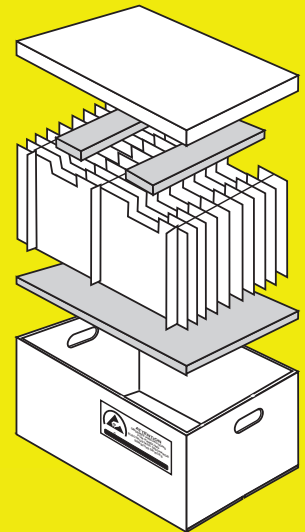
- 7806.030 HYBRID H28 ext.320 x 240 x 28mm - int.294x235x25mm
- 7806.032 HYBRID H40 ext.320 x 240 x 40mm - int.294x235x37mm
- 7806.322 Antistatic HARD FOAM 235 x 294 x 6 mm
- 7806.324 Antistatic HARD FOAM with dividers 81 cells 90x3mm 235x294x6mm
- 7806.326 Antistatic HARD FOAM with dividers 108 cells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



CUSTOM BOXES UNDER REQUEST

7806.112

12 cells - int.225x225x25mm
ext.270x430x240(H)mm
with cover



CARTONBOX

- 7806.220 CARTONBOX 30 int.352x560x130(H)mm without cover, without dividers, with 1 plate
- 7806.226 CARTONBOX 50 int.352x560x210(H)mm without cover, without dividers, with 1 plate
- 7806.232 CARTONBOX 70 int.352x560x310(H)mm without cover, without dividers, with 1 plate
- 8718.091 CARTONBOX cover
- 7806.211 Type C DIVIDER lenght 555 heigth100 pitch 19, 28 slots (x CARTONBOX 30)
- 7806.215 Type D DIVIDER lenght 350 heigth100 pitch 19, 17 slots (x CARTONBOX 30)
- 7806.217 Type C DIVIDER lenght 552 heigth200 pitch 31 17 slots (x CARTONBOX 50)
- 7806.216 Type D DIVIDER lenght 350 heigth200 pitch 30, 11 slots (x CARTONBOX 50)
- 7806.219 Type C DIVIDER lenght 552 heigth300 pitch 31, 17 slots (x CARTONBOX 70)
- 7806.218 Type D DIVIDER lenght 350 heigth300 pitch 30, 11 slots (x CARTONBOX 70)



DISSIPATIVE FOOTWEAR

iSTAT SHOES

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

The standard IEC 61340-5-1 prescribes that the Resistance to ground " R_G " should be between $50K\Omega$ and $100M\Omega$. When the footwear / floor system is used as the primary means of grounding personnel, the resistance of the combination shall be between $750K\Omega$ and $35M\Omega$.

The electrical resistance must be measured between the operator's hand and a metal plate where he stands with both feet. **Wear the new shoes at least 30 minutes before making the first test. For successive tests it is enough 5 minutes.**



W-CLOG

White colour

Non slip polyurethane sole

"MICROSAFE" Synthetic upper shoe

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

8914.934-8914.942

sizes from 34 to 42

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

sizes from 35 to 47



NEW LANDER

High comfort, high style

White colour

Non slip polyurethane sole

Breathable leather upper shoe

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

8912.935-8912.947

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

Clog, sizes from 35 to 48

6807.400 - 6807.413

Spare innersole, sizes from 35 to 48



EN20345 S1



S-CLOG

"Hi-Tech" safety shoes are soft, resistant and perspirant.

White colour

Synthetic toe cap

Non slip polyurethane sole

Synthetic upper shoe "TEXFIBER"

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

8920.935-8920.947

sizes from 35 to 47



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
 6807.400 - 6807.412

sizes from 35 to 47
 Spare innersole, sizes from 35 to 47

CLASSIC

High comfort, high style
 Black colour
 Shock absorbent, anti-slip nitrile rubber sole, carbonium additivated.
 Leather upper shoe
 R_G from 1×10^6 to $3.5 \times 10^7 \Omega$

8906.037-8906.046

sizes from 37 to 46



CLASSIC-Punched

High comfort, high style
 Black colour
 Shock absorbent, anti-slip nitrile rubber sole, carbonium additivated
 Perforated leather upper shoe
 R_G from 1×10^6 to $3.5 \times 10^7 \Omega$

8907.037-8907.046

sizes from 37 to 46

WORKER

SAFETY SHOE WITH TOECAP

Very attractive price
 Black colour
 Steel toe cap
 Non-slip polyurethane sole
 Leather upper shoe
 R_G from 1×10^6 to $3.5 \times 10^7 \Omega$

8908.035-8908.047

sizes from 35 to 47



EN20345 S2



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 $3.5 \times 10^7 \Omega$

8913.835-8913.847

sizes from 35 to 47

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.
- Charge decay < 2 sec

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	size XS
7807.512	Dissipative Overall, LIGHT BLUE	size S
7807.513	Dissipative Overall, LIGHT BLUE	size M
7807.514	Dissipative Overall, LIGHT BLUE	size L
7807.515	Dissipative Overall, LIGHT BLUE	size XL
7807.516	Dissipative Overall, LIGHT BLUE	size XXL



T-SHIRTS & POLO-SHIRTS (unisex)

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

T-shirt		T-shirt with breast pocket		Polo-shirt	
7807.696	XS			7807.708	S
7807.698	S	7807.718	S	7807.710	M
7807.700	M	7807.720	M	7807.712	L
7807.702	L	7807.722	L	7807.714	XL
7807.704	XL	7807.724	XL	7807.716	XXL
7807.705	XXL	7807.726	XXL		

GLOVES

Fully launderable lightweight white gloves, made from added 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 <2Sec.

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).

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

DISSIPATIVE FINGER COTS

Dissipative latex finger cots, provide excellent tactile sensitivity for handling of ESD sensitive components.

Rs: $4 \times 10^{10} \Omega$

7805.014	Dissipative finger cots size M , 1440 pcs/packing
7805.015	Dissipative finger cots size L , 1440 pcs/packing





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

7807.901

7807.902

Soft Badge holder with clip
Rigid Badge holder with clip
Rigid Badge holder with necklace

DISPOSABLE COATS

DISPOSABLE COATS

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

7807.654

7807.655

Disposable coat, white colour, size L
Disposable coat, white colour, size XL



DISPOSABLE SHOE COVERS

DISPOSABLE SHOE COVERS

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

Are made by disposable blue polypropylene material, with white tread for traction and an elastic opening for a snug fit around the ankle.

7807.840

Light blue shoe cover 1000 pcs packing

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 35M Ω are preferred.

7804.200

7804.201

Disposable Heel grounder (pack of 100)
Disposable Heel grounder Dispenser

7804.202

7804.203

Heel grounder with 2 M Ω resistance
Toe grounder with 2 M Ω resistance





7804.140
black
semigloss

7804.148
grey
matt

KOSTAPLAN MATS

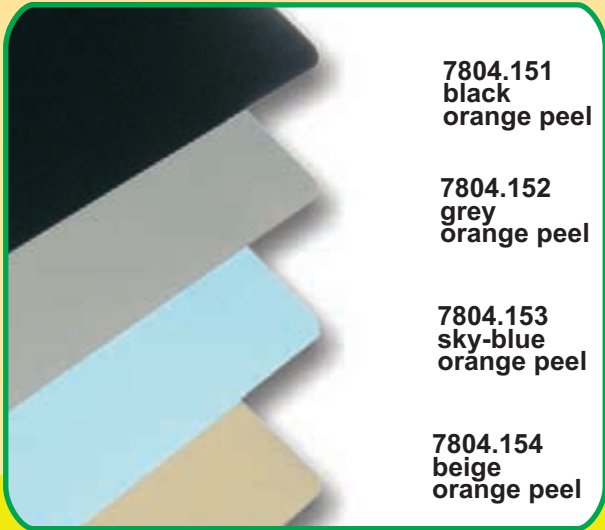
LABESTAT mats are made from a rugged synthetic rubber resistant to hot solder, fluxes and chemicals. The underside layer is black conductive, the top coloured layer, glare free surface, has a R_{surface} from 10^7 to $10^9 \Omega$.

KOSTAPLAN 1 layer , conductive BLACK

7804.140 60cmx2mmx10meters roll
7804.139 90cmx2mmx10meters roll
7804.145 120cmx2mmx10meters roll

KOSTAPLAN 2 layers , dissipative GRAY / conductive BLACK

7804.148 60cmx2mmx10meters roll
7804.149 90cmx2mmx10meters roll
7804.150 120cmx2mmx10meters roll



7804.151
black
orange peel

7804.152
grey
orange peel

7804.153
sky-blue
orange peel

7804.154
beige
orange peel

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 1 layer conductive BLACK

7804.151 122cmx1.5mmx10meters roll

LABESTAT 2 layers dissipative COLOURED / conductive BLACK

7804.152 GRAY 122cmx2mmx10meters roll
7804.153 SKY-BLUE 122cmx2mmx10meters roll
7804.154 BEIGE 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 Two layer KOSTAPLAN mat, GREY / BLACK
7804.831 Two layer LABESTAT mat, GREY / BLACK
7804.833 Two layer LABESTAT mat, SKY-BLUE / BLACK

PERSONAL COMPUTER TOUCH MAT

500 x 600 x 2mm, includes one 4m ground cord with a 4mm plug and a crocodile clip.

7804.820 Two layer KOSTAPLAN mat , GREY colour.



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 temporary electrical properties to insulative surfaces.
 $R_s < 10^{11} \Omega$

7804.906 Bottle, 1 litre spray
7804.909 5 litre Can/e





All mats can be supplied either by length or as standard size mats, complete with press studs for connecting ground cords, or as mats cut to the customer specification.

The mats are cut on a computer controlled cutting table that offers several benefits:

- high repeatability
- accurate dimensions
- truer edges and angles
- small quantities feasibility

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 two 10mm press studs for Wrist-strap and Grounding cord connection.

- Two Layer Mat RED/BLACK colour, 600x650mm dim.
- Red layer: $R_s : 10^8 \Omega$
- Black layer: $R_s : 10^3 \Omega$
- Two 10mm male studs + 1 adjustable wrist strap + 1 grounding cord 3m length

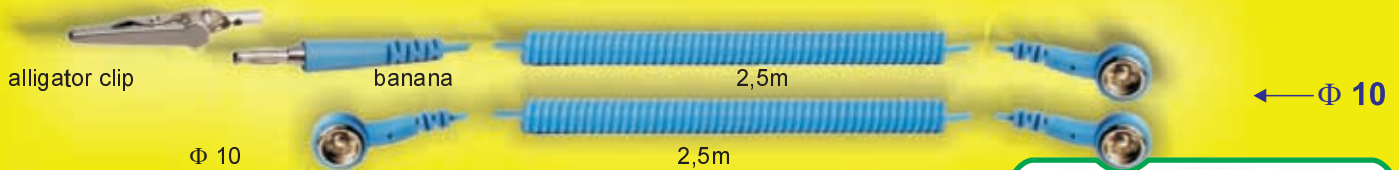
7804.194

PORTABLE FIELD SERVICE KIT



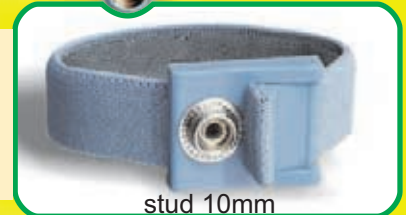
WRISTSTRAP

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 1MΩ resistor.



7804.190
7804.193
6604.804
6604.803
7804.885

Adjustable wrist strap, blue colour, with coiled cord banana/socket
Adjustable wrist strap, blue colour, with coiled cord socket/socket
Spare Wrist-band
Spare coiled cord, banana/socket
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
6604.808
6604.809

Metal wrist strap, with coiled cord
Spare Wrist-band
Spare coiled cord



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)

7805.876

Rs: < 10¹¹ Ω

LIQUID COAT, 5 Kilos unit

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.



DETERGENT

7805.873

DETERGENT, 5 Kilos unit

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.

STRIPPER

7805.870

FLOOR STRIPPER, 5 Kilos unit

ELECSTAT-C Static Dissipative Agent

ELECSTAT-C 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: 1 to 5%

Application: for manual or mechanical cleaning.

7805.885

Dissipative agent ELECSTAT 5kg plastic can



DISSIPATIVE FLOOR PAINT

ELECTROGUARD 30 is a two pack water based epoxy coating which can be simply applied to existing concrete floors without the need for specialist flooring contractors.

It is normally applied with two coats by brush or roller.

Electroguard 30 has an attractive satin gloss finish, easy to clean and is available in grey colour.

Number of coats : 2 Yield: approx. 8m²/litre

Rs: 10⁹ Ω - Rg: 10⁹ Ω

7805.853

ELECTROGUARD 30 medium gray, 5 litre unit
(4 litres base, 1 litre activator)

7805.856

FLOORPOX EPOXY PRIMER

for bare concrete floor

12 litre unit (6 litres base + 6 litres activator)

Number of coats : 2

approx. 16m²/litre

Yield:



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

Flooring solution for runners and workstations (without glue)

A two layer rubber, glare free surface, for connection to a conductive backing.

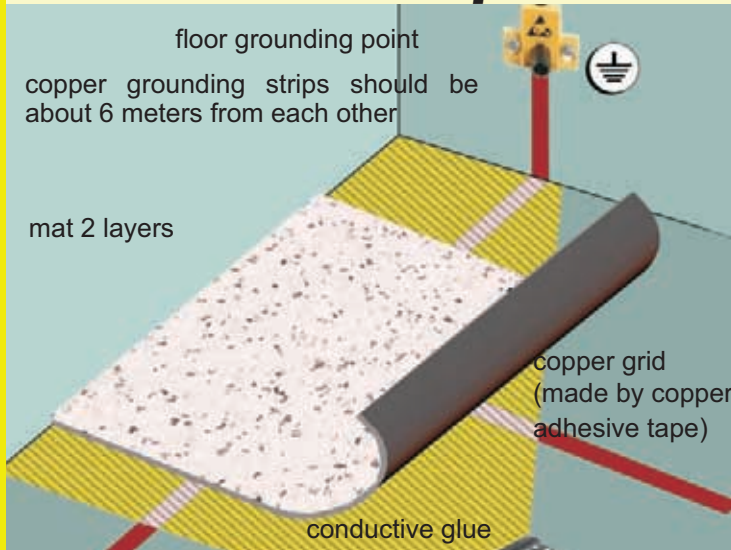
Resistance to ground: $R_g < 10^7 - 10^8 \Omega$

NORASTAT 2 layers
dissipative GRAY / conductive BLACK
 can be laid loose without adhesive

7804.181 122cmx2.5mmx10meters roll



Floor mat for complete area installation (with glue)



- It is required a perfect, smooth permanently dry and sound subfloor.
 - Never use conductive primers, since they reduce the subfloor's absorbency.
 - Rubber mats should be dry laid first to reach the floor temperature (acclimatise)
 - Create a copper grid, and connect it to the ground.
 - 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.

NORAPLAN 2 layers, $R_g = 10^6 - 10^7 \Omega$
dissipative GRAY / conductive BLACK
 for heavy duty appliances, to be glued
7804.180 122cmx2mmx12meters roll

ECO V4 glue for mats, one component

Conductive glue for sticking mats on benches or on the floor.
 Rs.: $< 3 \times 10^9 \Omega$

7805.840 One component conductive glue, black color, 16Kg can
 Useful time 10-15 minutes, consumption about 350g/m²



Interlocking PVC ESD-TILE

7mm thick interlocking tiles manufactured from PVC with millions of tiny stainless steel fibres distributed evenly throughout the tile to provide a permanent anti-static floor. The tiles are dry laid over any hard and flat base even on damaged, damp or contaminated surfaces. The tiles are clicked together quickly and simply by means of dovetail joints.

Resistance to ground $< 10^6 \Omega$

7805.805 Interlocking PVC ESD-TILE, RAL7031, 49 x 49cm
7805.812 Interlocking ramp 49 X 14cm, RAL7001, NOT ESD



COPPER EARTHING TAPE

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

7805.828 COPPER adhesive earthing tape 10mm wide
7805.830 COPPER adhesive earthing tape 15mm wide



FLOOR GROUNDING KIT

7805.834
 GROUNDING KIT
 Supplied with one meter long copper earthing type. Dowels and screws not supplied.



ASTATIC TILE

Single layer tiles for indoor and outdoor flooring, produced by means of the vacuum-packing process with vibro-compaction. Made of a high concentration of stone materials bonded together with a white special cement these tiles have permanent dissipative characteristics.

Laying:

Create a copper grid, and connect it to the ground.

Bond the tiles using a good cementitious adhesive blended with a 10% of conductive additive

Resistance to ground $< 10^8 \Omega$
 Finishing: laid, rectified on all 4 sides, chamfered edges
 Resistance to fire class 0

7805.760	ASTATIC TILE 40 x 40 x 1,5cm (colour on request)
7805.765	ASTATIC TILE 40 x 40 x 2cm (colour on request)
7805.780	Cementitious adhesive Keraflex class C2TE box with 4 holders (5kg each)
7805.781	Conductive additive Mapelectric CP1 2,5kg can



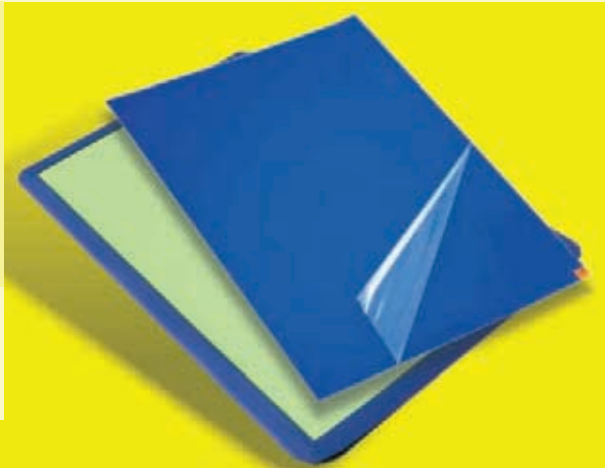
STICKY MAT for clean rooms

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
7807.351	Support for STICKY MAT 7807.350



SILICON STICKY ROLLER FOR CONTAMINATION REMOVING

The silicon sticky roller is a 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	Single cleaning roller dim.: 150mm, with small handle
7913.154	Single cleaning roller dim.: 300mm, with small handle
7913.156	Single cleaning roller dim.: 500mm with long handle for floor
7913.158	Spare cleaning roller dim.: 150mm. no handle
7913.160	Spare cleaning roller dim.: 300mm. no handle
7913.162	Spare cleaning roller dim.: 500mm. no handle
7913.170	DCR-PAD Block of 50 adhesive paper sheets dim.: 240x333mm, 5 blocks per pad



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.

Dimensions: 31,5 x 12 x 18,5cm
 Weight : 2,2kg
 Flexible pipe : 2,5m
 Power cord length : 6m
 Power supply: 220V – 1300W
 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

ESD CLEANROOM VACUUM CLEANER

Made of conductive polypropilene, enables the suction of coarse pollution as well as small particles. It's very strong with silent motor (overheating protected)

Dimensions: 40cm dia x 35cm height
 Weight : 6,3kg
 Hose length : 1,3m
 Power cord length : 10m
 Power supply: 220V – 1300W
 Dust capacity: 9 liters

- 7913.080 ESD cleanroom vacuum cleaner
- 7913.083 ESD cleanroom vacuum cleaner, with electronic speed control
- 7913.090 Paper bag set (10 each set)
- 7913.092 Filter cartridge standard grade black
- 7913.096 Filter cassette standard grade black



7913.090



7913.092



7913.096



7013.080
WITH STANDARD ACCESSORIES



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)
7805.930 Electronic cleaning solvent - 5litre can





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.

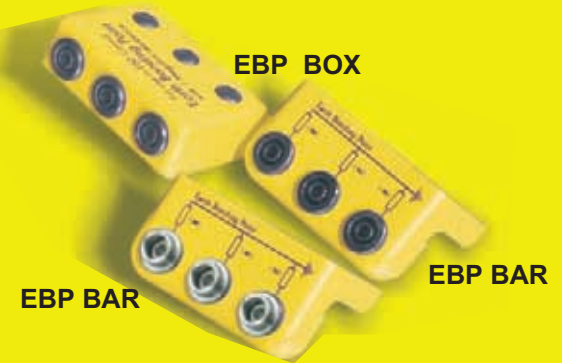
Each input is fitted with a 1MΩ resistor.

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

7804.896 EBP BOX three 4mm shrouded plug sockets

7804.898 EBP BAR three 4mm shrouded plug sockets

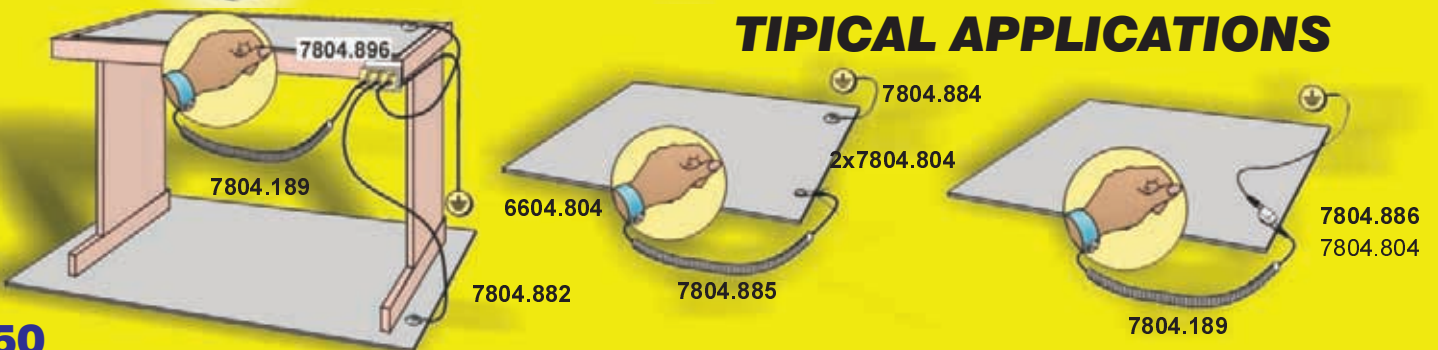
7804.899 EBP BAR three studs Φ 10mm



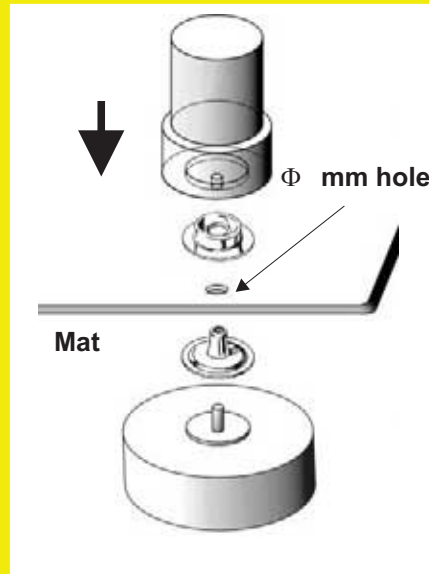
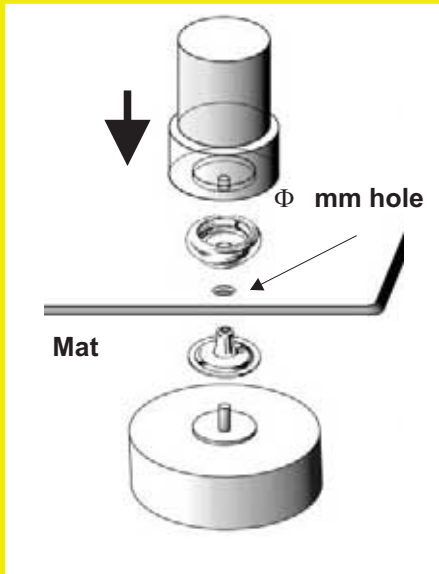
GROUNDING CORDS

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
7804.885	 female 10mm	3m	R=1MΩ	 female 10mm
7804.886	 female 10mm	3m	R=1MΩ	 eyelet Φ 5.3x8mm

TYPICAL APPLICATIONS

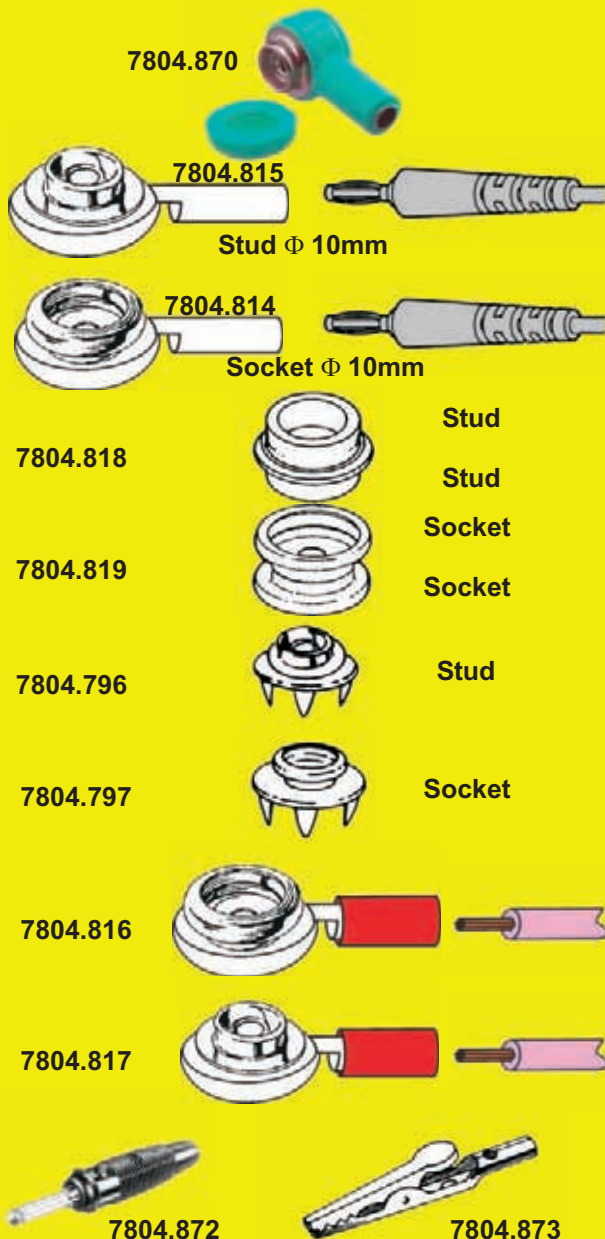


GROUNDING ACCESSORIES



7804.803 Φ10mm socket (2 parts)
 7804.809 Punch and Anvil for socket F
 7804.804 Φ10mm stud (2 parts)
 7804.805 Punch and Anvil for stud M

7804.811 Eyelets manual press
 (Without punch and anvil)
 Dimensions: 90 x 180 x 320mm
 Weight: 3 Kg



7804.870 ADAPTOR
 socket Φ 10mm + stud Φ 10mm + banana plug Φ 4mm

7804.815 ADAPTOR from socket Φ 10mm
 to banana plug Φ 4mm

7804.814 ADAPTOR from stud Φ 10mm
 to banana plug Φ 4mm

7804.818 ADAPTOR from socket Φ 10mm
 to stud Φ 10mm

7804.819 ADAPTOR from stud Φ 10mm
 to socket Φ 10mm

7804.796 Clinch SNAP
 male, Φ 10mm

7804.797 Clinch SNAP
 female, Φ 10mm

7804.816 Φ 10mm socket
 crimp terminable on AWG 22-16 wire

7804.817 Φ 10mm plug
 crimp terminable on AWG 22-16 wire

7804.872 BANANA Φ 4mm

7804.873 Alligator-clip for banana plug Φ 4mm

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 Ω
Surface Resistivity intermediate layer (metal):	< 10 ² Ω
Surface Resistivity outer layer (polyester):	< 10 ¹¹ Ω



7804.268 opening x depth	76 x 127 mm (3" x 5")	7804.287	400 x 500 mm (16" x 20")
7804.270	100 x 150 mm (4" x 6")	7804.288	450 x 450 mm (18" x 18")
7804.274	150 x 200 mm (6" x 8")	7804.310	400 x 450 mm (16" x 18")
7804.276	150 x 250 mm (6" x 10")	7804.312	450 x 680 mm (18" x 27")
7804.278	200 x 250 mm (8" x 10")	ZIPLOCK (zippered recloseable bags)	
7804.280	200 x 300 mm (8" x 12")	7804.290 opening x depth	100 x 150 mm (4" x 6")
7804.284	250 x 300 mm (10" x 12")	7804.296	150 x 250 mm (6" x 10")
7804.285	250 x 350 mm (10" x 14")	7804.304	250 x 300 mm (10" x 12")
7804.286	300 x 400 mm (12" x 16")	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 EN100 015. Don't use for packaging PCBs with on-board batteries.

Thickness of the film:	75 µm
Surface Resistivity	≤10 ⁵ Ω



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

Permanent Dissipative BAGS

LABESTAT A100

(package of 100pcs)

Material:	multilayer polyethylene, green colour amine-free, heat sealable, recyclable
Print:	ESD and Recycle logos, production batch
Thickness	100µm
Rs	< 10 ¹¹ Ω

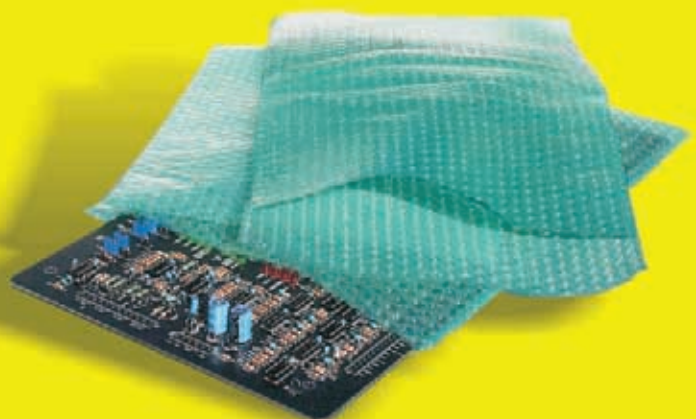


7804.239 opening x depth	76 x 127 mm (3" x 5")	7804.254	250 x 300 mm (10" x 12")
7804.240	100 x 150 mm (4" x 6")	7804.256	250 x 350 mm (10" x 14")
7804.242	100 x 200 mm (4" x 8")	7804.257	300 x 350 mm (12" x 14")
7804.244	150 x 200 mm (6" x 8")	7804.258	300 x 400 mm (12" x 16")
7804.246	150 x 250 mm (6" x 10")	7804.260	400 x 500 mm (16" x 20")
7804.247	150 x 300 mm (6" x 12")	7804.262	400 x 600 mm (16" x 24")
7804.245	150 x 350 mm (6" x 14")	7804.267	450 x 550 mm (18" x 22")
7804.248	200 x 250 mm (8" x 10")		
7804.250	200 x 300 mm (8" x 12")	ZIPLOCK (zippered recloseable bags)	
7804.252	200 x 350 mm (8" x 14")	7804.330 opening x depth	100 x 150 mm (4" x 6")

DISSIPATIVE BUBBLE PACK BAGS

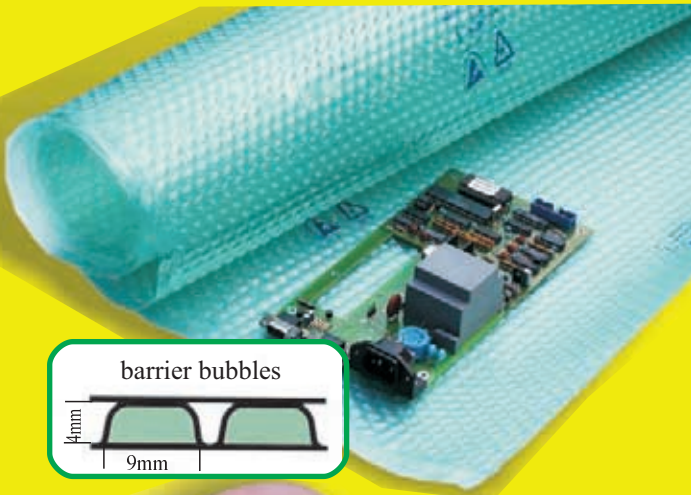
Provide superior protection against physical damage during shipping and storage.

6604.100	Dissipative green bubble bags 90 x 100mm
6604.101	Dissipative green bubble bags 100 x 180mm
6604.102	Dissipative green bubble bags 130 x 185mm
6604.105	Dissipative green bubble bags 180 x 230mm
6604.107	Dissipative green bubble bags 250 x 250mm
6604.110	Dissipative green bubble bags 280 x 360mm)
6604.114	Dissipative green bubble bags 300 x 480mm)



POLYETHYLENE TUBING

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

7804.184 Dissipative bubble pack roll
0.5meters x 200meters

7804.185 Dissipative bubble pack roll
1meter x 200meters

FOAM (custom cut)

ANTISTATIC SOFT PINK FOAM

Use:	cushioning purposes
Density:	30 Kg/m ³ , Rs < 10 ¹² Ω
7804.161	1m x 1.5m sheet, thickness 6mm
7804.162	1m x 1.5m sheet, thickness 10mm

CONDUCTIVE SOFT BLACK FOAM

Use:	cushioning purposes
Density:	30 Kg/m ³ , Rs < 10 ⁵ Ω
7804.168	1m x 1m sheet, thickness 6mm
7804.170	1m x 1m sheet, thickness 10mm
7806.300	550 x 350mm sheet, thickness 10mm for Euro 600x400 container
7806.306	360 x 260mm sheet, thickness 10mm for Euro 300x400 container

CONDUCTIVE HARD BLACK FOAM

Use:	insertion of component leads
Density:	65Kg/m ³ , Rs < 10 ⁵ Ω
7804.172	1m x 1m sheet, thickness 6mm
7804.174	1m x 1m sheet, thickness 10mm

CROSS LINKED CONDUCTIVE BLACK FOAM

Use:	insertion of component leads high grade, extended life
Density:	60Kg/m ³ , Rs < 10 ⁶ Ω
7804.157	1m x 0.5m sheet, thickness 7.5mm
7804.158	1m x 1.78m sheet, thickness 7.5mm

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 lenaht	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



LARGEST HAND SEALER

- Easy to operate, short distance from your working table, only 2.8cm
- Super longer seal length (600mm)
- Impulse sealing with electronic control, heating time from 0-2sec
- with handle easy to carry
- Soldering width: 2mm
- Max. Sealable Thickness : 2x0.125mm

7914.252 Largest hand sealer, 450 x 2mm (600W - peso 6kg)
 7914.253 Largest hand sealer, 600 x 2mm (800W - peso 8kg)
 7914.254 Largest hand sealer, 800 x 2mm (800W - peso 9kg)



HAND SEALER (medical)

10mm seal with beeper and cutter

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.

7914.215 MEDICAL Hand Sealer with Cutting Blade

Max. seal length: 200mm
Seal width: 10mm
 (according DIN58953 regulations)
 Max. seal thickness: 2x0.25mm
 Power 1000W - Weight 6,4kg

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	Max. sealing lenght	Sealer Power (Watts)	Heat Gun Power (Watts)
7914.255	450	350	600/1200
7914.257	600	450	600/1200



HAND HELD CRIMPER SEALER

Soldering lenght: 150mm
 Max. soldering thickness : 2x0.15mm

7914172 Hand held crimper sealer for polyethylene film
 Teflon covered heating resistance
 Seal width 2mm
 7914175 Hand held crimper sealer for cellophane
 or wax paper
 Double 15mm wide heating jaws
 Vertical line embossed seal



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: **5mm**

Max. seal thickness: 2x0.150mm

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

Holding Magnet

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 material thickness, congealing and operating cycle.

Foot switch included for manual operation.

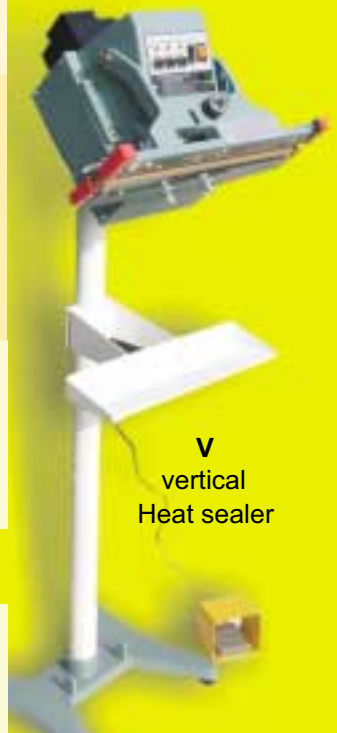
Seal width **10mm**

Max. seal thickness 0.5mm

7914.247 Automatic constant heat sealer 300mm (2000W - weight 22kg) **7914.247V**

7914.248 Automatic constant heat sealer 450mm (2500W - weight 24kg) **7914.248V**

7914.249 Automatic constant heat sealer 600mm (3000W - weight 26kg) **7914.249V**



V
vertical
Heat sealer

AUTOMATIC BAND SEALERS

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)



Construction	stainless steel
Seal width	8mm
Max. Seal thickness	800µm
Max. Length (height) of the bags	300mm
Conveyor speed	0-12m/min
Temperature range	0-300°C
Power	500W
Weight	35kgg

- 7914.190** Horizontal automatic band sealer
- 7914.191** Vertical automatic band sealer



GHIBLI-II Dry Cabinets

The GHIBLI II dry cabinets are ideal to provide low humidity and moisture-proof storage for MSD (Moisture Sensitive Devices) like IC packages, for example. They are complying with IPC/JEDEC J-STD-033B.1, ESD safe, easy to use (no need to set any panel button at all), and every cabinet include a portable humidity/temperature meter (DryLogger 9265.300, details on page 65) with datalogging function.

NEW!



DryLogger



Dehumidifier

8104.812

8104.808



8104.800



8104.804



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 Ω

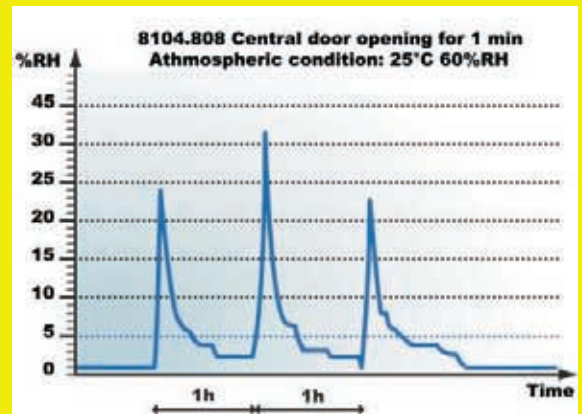
Advantages about GIBLI II

- **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.



	8104.800 Ghibli II/200L	8104.804 Ghibli II/400L	8104.808 Ghibli II/600L	8104.812 Ghibli II/1200L	8104.830 Ghibli II/600L baking 40°C	8104.832 Ghibli II/1200L baking 40°C
Capacity	200L	400L	650L	1280L	600L	1180L
External Dimensions(mm)	600x672x610	600x672x1255	600x672x1805	1200x672x1805	600x672x1805	1200x672x1805
Shelves	2	3	5	5	5	5
Shelf Size (mm)	555x530x20	555x530x20	555x530x20	1155x530x20	555x530x20	1155x530x20
Average power	28W	56W	56W	56W	56W without baking, 456W with baking	56W without baking, 856W with baking
Maximum power	210W	420W	420W	420W	420W without baking, 1220W with baking	420W without baking, 2020W with baking

Humidity/Temperature Monitoring & Alarming & Datalogging

It monitors simultaneously humidity, temperature and time 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. Datalogging capacity is 30,000 records and the instrument is supplied with the software needed to analyze the environmental data.

Humidity: 5 to 95%RH resolution: 0.1%RH
accuracy: ±2%RH (at 25°C, 35%RH~80%RH)

±2.5%RH (at 25°C, 10%RH~35%RH, 80%RH~90%RH)

±5%RH (at 25°C, <10%RH, >90%RH)

Temperature: -20°C to +60°C resolution: 0.1°C
accuracy: ±1°C (-5°C~40°C), other ±2°C

LED Display: 214x120mm

Memory: 30000 samples

Interface: USB

Dimensions: 260 x 178 x 47mm

Weight: 1Kg



8105.103

Humidity/Temperature
Monitoring & Alarming & Datalogging

BAKING OVENS



Professional forced ventilation oven ideal for all thermostatic applications where a specific precision is needed.

Drying the MSD components
to reset the floor life clock.

Drying the PCBs
(Printed Circuit Boards) before the assembly

Drying the PBAs
(Printed Boards Assembled) before the rework or repair.

Pre-heating of the PCBs / PBAs
to reduce the delta T °C before rework or repair

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 from +50°C to +280°C.
Temperature control with digital PID thermo regulator.
Display accuracy +/-1°C
Safety thermostat with visual alarm and manual reset.

Code	Internal Volume L	Included Shelves	Dimensions INT.(LxPxH)	Dimensions EXT.(LxPxH)	Power W	Weight kg
8107.103	40	1	348x312x367	686x515x575	800/230V	35
8107.105	60	2	408x372x422	746x570x605	1200/230V	40
8107.107	80	2	458x372x472	796x570x680	1200/230V	45
8107.109	120	2	498x477x512	836x680x720	1600/230V	50
8107.111	250	2	593x522x797	956x730x1025	2500/230V	90
8107.113	400	2	693x607x980	901x815x1487	3200/230V	140
8107.115	700	3	693x607x1470	901x815x1977	6000/400V	180
8107.150	Additional shelf for	lt.40 oven	(max. 7 shelves)			
8107.152	Additional shelf for	lt.60 oven	(max. 7 shelves)			
8107.154	Additional shelf for	lt.80 oven	(max. 7 shelves)			
8107.156	Additional shelf for	lt.120 oven	(max. 9 shelves)			
8107.158	Additional shelf for	lt.250 oven	(max. 11 shelves)			
8107.160	Additional shelf for	lt.400 oven	(max. 11 shelves)			
8107.162	Additional shelf for	lt.700 oven	(max. 11 shelves)			



Moisture absorbing desiccant bags

7914.002 bags gr.12 1/3U-DIN (100 pcs)
7914.005 bags Tyvek gr.34 1U-DIN(300 pcs)

MOISTURE BARRIER BAGS (100 pcs)

Excellent in EMI/RFI and static field shielding, these bags are water vapor proof and grease proof. Used as packaging of electrostatic/humidity sensitive parts, disk drives, flat pack etc. Heat sealable, Moisture Barrier Bags are made from a multilayer metallized film.

We suggest to place inside the barrier bags a Moisture Desiccant Bag to eliminate the residual moisture.

Film complying:

MIL-B-81705C class1 TC1 SBM356

Rs:

< 1x10¹²Ω

Electrostatic decay:

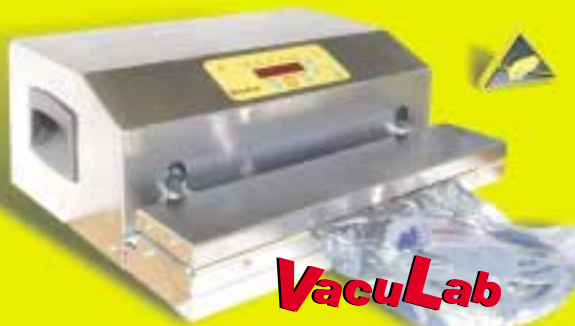
< 2 sec

Opening on the short side	Thickness 80um	Thickness 150um
100 x 660 mm	7804.344	7804.344P
150 x 660 mm	7804.347	7804.347P
200 x 250 mm	7804.348	7804.348P
250 x 660 mm	7804.350	7804.350P
400 x 400 mm	7804.354	7804.354P
400 x 660 mm	7804.353	7804.353P
450 x 450 mm	7804.355	7804.355P
450 x 660 mm	7804.356	7804.356P

7914.008
7914.009
7914.010

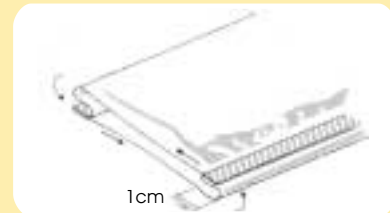
3 spot humidity indicator card 5-10-60% (500pcs)
3 spot humidity indicator card 5-10-15% (200pcs)
4 spot humidity indicator card 10-20-30-40% (200pcs)

EXTERNAL ASPIRATION VACUUM SEALERS



External Aspiration

With these economic and flexible machines it 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 specific bags or to unfold the sides of the bags, so to provide two little way out for the aspiration. (see drawing)



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

TEXTURED BARRIER BAGS **NON ESD** FOR EXTERNAL ASPIRATION MACHINES

6604.010 200 x 300mm
6604.015 250 x 350mm
6604.020 250 x 600mm
6604.025 300 x 400mm
6604.030 400 x 600mm
6604.052 Tubing 200mm
6604.054 Tubing 300mm

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

These are professional and automatically operated models, with degree of vacuum set on the front panel by the operator. External aspiration system cause the bag to wrinkle, fold, and distort under vacuum pressure before sealing, possibly leaving small holes that affect the integrity of the vacuum. Vacuum Tank models eliminate this problem by creating the seal before the bag's distortion.

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

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 Vacuum tank sealer

The use of a compressed air-driven vacuum pump, minimizes noise, vibration and heat generation. Digital adjustment of vacuum, controlled by an internal vacuum sensor.

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: 6l/s at 6ATM
 Power supply: 230V/50Hz 1kW



7914.275



ACTIVE PROTECTION SYSTEM

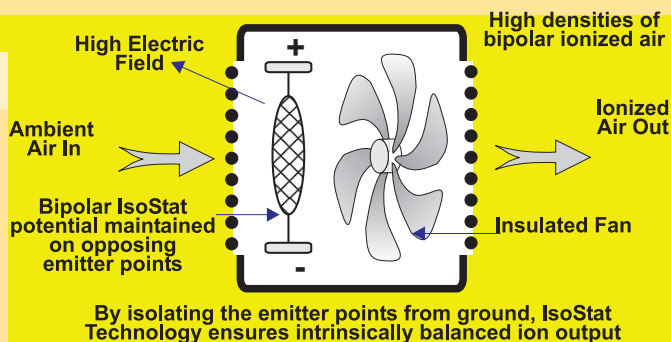
Where grounding of some equipment or parts of equipment through traditional earthing techniques is impractical, where it is impossible to exclude all charging materials from the area, the use of suitable ionizers is highly recommended. Air ionization systems work by flooding the atmosphere with positive 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 0.005ppm after 24 hours accumulation, conform to OSHA requirements.

"STEADY STATE DC" IONIZERS

Normally the ions are produced by a phenomenon called "corona discharge" where a high voltage (AC or DC) is applied to a sharp point. ION SYSTEM uses the Steady-State DC system, the most efficient ionization method for applications requiring fans or compressed gases to deliver ions. With this method, separate emitter points are provided for each polarity. Steady -State DC ionizers provide higher ion outputs with low recombination between them, operates effectively at lower air flows, and produce fewer particles than AC ionizers.



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	from $\pm 1000V$ to $100V \leq 10s$ at 60cm
Emitter points	Tungsten alloy, internally shielded, 5 year life
Air flow:	15m ³ /h
Power requirement	24VAC 5W
Dimensions:	11.4 x 8.4 x 5.1 cm

9265.560 Point-of-use ionizing blower, 24VDC

9265.577 Wall transformer 230/24VDC 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:	80m ³ /h
Coverage area	122x46cm
Power requirement	24VAC/DC 50/60Hz

9265.576 Local area ionizing blower 24VAC 6W transformer 230VAC included



6442 THREE SPEED IONIZING BLOWER

High performance ionizing blower features an adjustable two speed fan for varying applications as workbenches, conveyors, robotics, packaging.

Discharge time	from $\pm 1000V$ to $100V \leq 4.5s$ at 60cm
Emitter points	Tungsten alloy, internally shielded, 2 year life
Air flow:	70m ³ /h
Coverage area	122x61cm
Power requirement	24VAC 50/60Hz, 7W

9265.586 Full-featured ionizing blower 24VAC 230/24vac transformer included





OVERHEAD IONIZING BLOWER 6460

It is the smart ionizer that provides reliable, adaptable performance in the most static-sensitive environments. Designed for mounting over the benches or conveyors, it allows a complete 3D neutralisation of the static charges, without compromising space over the table, and in the most comfortable environment.

Discharge time: from $\pm 1000V$ to $100V$ 10s at 60cm
 Emitter Point: Tungsten alloy, internally shielded, 2 years life
 Ion Balance: $\pm 15V$ measured 46cm under the blower
 Protected Area: 90x120cm
 Air Speed: Adjustable on High/Off/Low settings
 Air Flow: 140m³/h maximum
 Power requirement: 100-230Vac 50-60Hz, 30 Watt max.

9265.592 Overhead Blower, 2 fan, length 813mm

TURBO IONIZING BLOWER 6480

The Turbo Blower designed to achieve full control in any environment, is ideal to cover large ionisation areas. The built-in heater provides comfortable working environment for operators.

The new "Wire AC" self-balancing technology means: better discharge times and fewer maintenance cycles.

Discharge time: 1,5s at 30cm (1 feet) 2,5s at the corners
 Ion Emission: Wire AC self-balancing
 Ion Balance: +/- 20V, maximum
 Protected Area: 60 x 130cm
 Air Flow: 560mc/h max
 Power requirement: 100-240Vac 50-60Hz, 30Watt max.

NEW "WIRE AC" TECHNOLOGY



9265.582 Turbo Ionizing Blower, 3-fan, length 650mm



6115 AIR FORCE BLOW-OFF 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.

Gun: ergonomic, low-noise, weight 0.34Kg
 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 Complete kit including hand unit, console, air filter and transformer 220/24Vac

9265.532 Additional Filter pack, (Pack of 3) - 0.1 μ m 99,99%EFF

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 Ionizing cartridge, air flow triggered - 24Vac
 9265.544 Transformer 220/24Vac



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



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
9265.503

Electrostatic Field Meter - 9V battery included
Periodic Verification System
(instrument, charger, plate, cables and carrying case)



The 775PVS is a Periodic 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



TREK156 CHARGED-PLATE MONITOR

The model 156 instrument tests the efficiency of an air ionizer's ion production by measuring how long it takes air ions produced to discharge a floating ion collecting plate that has been precharged to either a positive or negative charge level.

Mode selector switch for:	+Decay, -Decay, or Float Mode
Voltage Monitor output	
:3 1/2 digit LED display	
Test / Reset control	
Monitored Voltage Range:	0 to ± 1100 VDC or peak AC
Plate self discharge:	less than 12V/minute (unpolarized)
Power :	Rechargeable Battery supplied

9265.110	CHARGED-PLATE MONITOR without plate and AC adapter
9265.115	AC adapter, 90-260Vac
9265.120	6"x6" plate



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.

GIGALAB Digital mega-ohmmeter

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

SHIELDED CABLE

SHIELDED PROBE

The GIGALAB 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.

Alphanumeric liquid crystal display 10mm height

Measuring range: 10V 1KΩ to 20GΩ
100V 100KΩ to 200GΩ
500V 1MΩ to 1TΩ

Accuracy:
10V ±5% ±3% per GΩ
100V ±5% ±0.3% per GΩ
500V ±5% ±0.06% per GΩ

Fully settable acoustic alarm



KIT 9265.044



9265.043
9265.044
9265.045
9265.042

GIGALAB Meter with batteries and case
GIGALAB Complete kit including meter, 2 probes, batteries and case, Traceable Certificate is supplied
Shielded probe 63mm / 2,3kg
Instrument recalibration
ISO9000 Traceable Certificate is supplied

PROBES

- 9265.004B** Cylindrical probe, one 4mm socket, BLACK
- 9265.004R** Cylindrical probe, one 4mm socket, RED
- 9265.012B** Cable 1.5m - 4mm banana plugs terminated, BLACK
- 9265.012R** Cable 1.5m - 4mm banana plugs terminated, RED
- 9265.014** POINT TO POINT MINIATURE PROBE, two miniature conductive rubberpoints at a distance 15mm
- 9265.015** MINIATURE 10 X 10mm Square PROBE, performs measurements on areas too small to measure with other standard probes.
- 9265.005** Concentric ring probe, BLACK one BNC socket, 9265.008 cable included
- 9265.045** Shielded probe, one BNC socket, two 4mm sockets
- 9265.047** Counter-electrode 150x150mm
- 9265.008** Coaxial cable, 1m length, BNC plug / 2 x 4mm banana plugs

9265.014

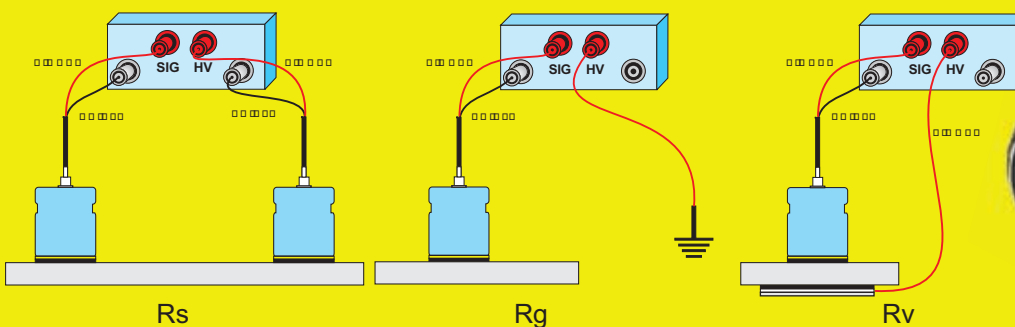
9265.015



9265.004

9265.045

9265.047



9265.005



WRISTLAB personnel tester 24V

The WRISTLAB personnel circuit tester is indispensable to check the conditions of wrist band, skin contact of wrist band and coiled cord. Associated with an optional foot plate (code 9265.025) it also allows testing of conductive footwear and heel straps. Visual and audible alarm.

The test is performed in accordance with IEC 61340-5-1.

The tester operates on a 9V battery but the test voltage is 24V for greater accuracy. All wrist-straps should be checked every day.

ISO9000 Traceable Certificate is supplied

9265.030

WRISTLAB personnel tester, 9V battery included

9265.030R

WRISTLAB personnel tester, relay output (PASS=CLOSE)

9265.031

Instrument recalibration

ISO9000 Traceable Certificate is supplied

Personnel test station 24V

The station incorporates a WRISTLAB tester, a foot plate and a striking yellow PVC panel.

On the panel there is a mounting for the tester and also clearly written operating instructions.

ISO9000 Traceable Certificate is supplied

9265.022*

TEST STATION including:

9265.023* WRISTLAB, Conductive rubber footplate and yellow panel

TEST STATION including:

WRISTLAB, Stainless steel footplate and yellow panel

9265.024

Stainless Steel Footplate with connecting cord

9265.025

Conductive Rubber Footplate with connecting cord

9265.026*

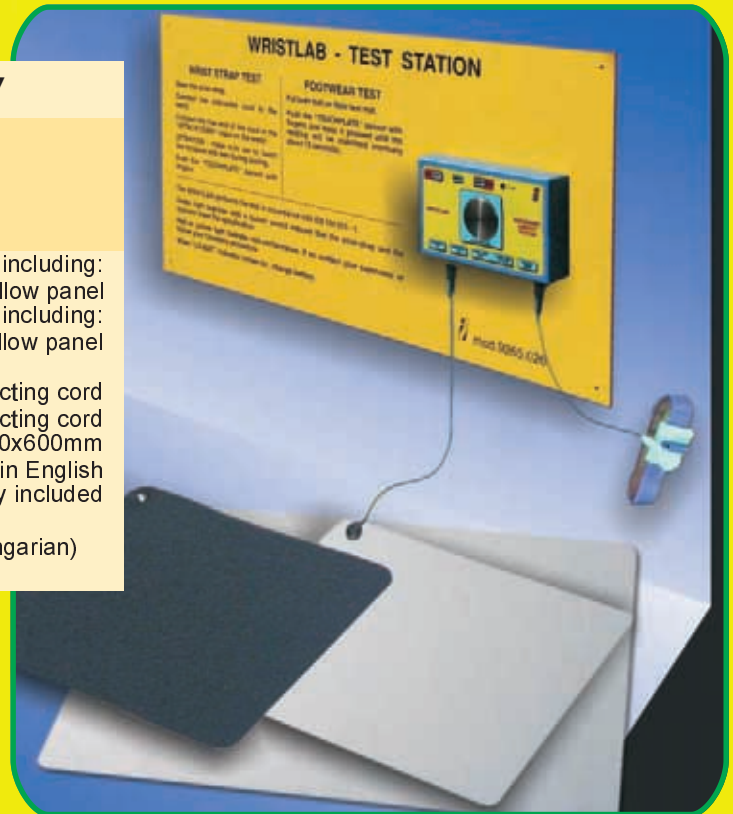
Yellow support panel, 300x600mm

with operating instructions in English

9265.030

WRISTLAB personnel tester, 9V battery included

* add to code: I(italian) F(french) E(english) D(german) H(Hungarian)



LABEOHM surface resistivity tester 100V

LABEOHM surface resistivity tester is designed to measure the resistivity and resistance to ground of mats, workbenches, floors and other components of an ESD controlled area.

Without the grounding cord connection, LABEOHM measures the surface resistivity; with the grounding cord connected, LABEOHM measures the resistance to the ground.

Allows use of two external electrodes.

Range:

from 10^4 to 10^{12} Ω

Test voltage:

10V from 10^4 to 10^5 Ω , 100V from 10^6 to 10^{12} Ω

Electrodes:

rubber covered

ISO9000 Traceable Certificate is supplied

9265.002

LABEOHM 100V, cable, battery, box included

9265.000

LABEOHM 100V with acoustic alarm when $R < 1 \times 10^9 \Omega$

9265.003

Labehm recalibration

9265.004B

Cylindrical PROBE 63mm diameter, 2.3Kg weight, BLACK

9265.004R

Cylindrical PROBE 63mm diameter, 2.3Kg weight, RED

9265.005

Concentric ring PROBE 63/30mm diameter, 2.5Kg weight

9265.006

Portable Kit including 9265.002 tester, two 9265.004 probes and carrying case

9265.007

Portable Kit including 9265.000 tester, two 9265.004 probes and carrying case



HUMIDITY / TEMPERATURE PEN

Pen continuously and simultaneously displays both RH and °F/°C with dual-recall memories. Handy pocket clip makes it easy to carry. Memory displays highest and lowest humidity/temperature readings

Temperature: 0 to +50°C Resolution 0,1°C
Accuracy ±1°C
Relative humidity: 2 to 98% Resolution 1%
Accuracy ±5%

An individually serial-numbered ISO9000 Traceable® Certificate is supplied
9265.200 Humidity / temperature pen

BASIC HUMIDITY/TEMPERATURE METER

Light weight, pocket-sized design, large LCD display for simultaneous readings of temperature and humidity, backlight function.

Humidity: 1 to 99%RH resolution: 0.1%RH
accuracy: ±2.5%RH (at 25°C, 30%RH~80%RH)
±3.0%RH (at 25°C, 20%RH~30%, 80%RH~90%RH), other 5%
Temperature: -20°C to 60°C resolution: 0.1°C
accuracy: ±0.8°C
LCD Display: 42 x 32 mm
Size: 200 x 55 x 38mm Weight: 165g

9265.235 BASIC HUMIDITY/TEMPERATURE METER



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

Humidity: 1 to 95%RH resolution: 0.1%RH
accuracy: ±2%RH (at 25°C, 10%RH~90%RH)
±3%RH (at 25°C, 1%RH~10%, 90%RH~95%RH)
Temperature: -20°C to 60°C resolution: 0.1°C
accuracy: ±1°C
LCD Display: 48 x 11 mm
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

MINILOGGER

It's an accurate and compact humidity and temperature datalogger. Designed to be placed in refrigerators, cold transport and storage (it works down to -40°C), or in any industrial sector where you need to track the humidity and temperature conditions.

The "LogManager" software, working on Windows PC, is used for downloading, displaying, analyzing and reporting your collected humidity and temperature data. (9265.312)

Temperature: -40°C to +60°C, resolution: 0.1°C
Humidity: 1 to 95%RH, resolution: 0.1%RH
Dimensions: 89 x 56 x 23mm
Battery: Lithium battery with life of 10 years at 1 min sampling rate
Memory: 21600 samples Interface: USB

9265.300 DryLogger – Humidity/Temperature hand LCD datalogger. USB cable and LogManager software to collect data to Windows PC are included.

9265.310 MiniLogger– Humidity/Temperature datalogger. Specific USB cable and LogManager software to collect data to Windows PC are not included.

9265.312 Specific USB cable and LogManager software to collect data from MiniLogger to Windows PC.

CK-005 ISO9000 Traceable certificate for DryLogger or MiniLogger

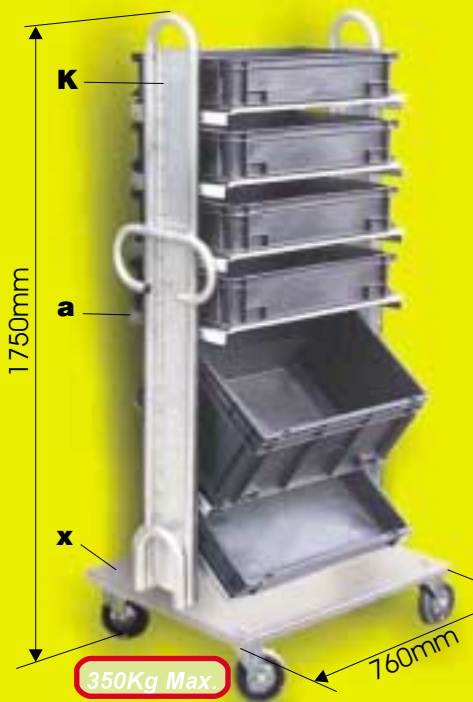
PRECISION HUMIDITY/TEMPERATURE METER

Highly accurate humidity measurement up to ±1%RH, light weight, pocket-sized design. It takes accurate measurement for humidity, temperature, wet bulb and dew point. Large LCD display for simultaneous readings of temperature and humidity. Backlight function, alarm for Hi and Low limit of RH/T, real time clock with calendar, datalogger capacity of 30,000 records. Quick-response capacitance sensor with twist-open protective cover wired with 1meter long cable.

Humidity: 1 to 99%RH resolution: 0.1%RH
accuracy: ±1%RH (at 25°C, 15%RH~90%RH)
±2%RH (at 25°C, 1%RH~15%, 90%RH~99%RH)
Temperature: -20°C to 60°C resolution: 0.1°C
accuracy: ±0.5°C (0°C~40°C), other ±2°C
LCD Display: 42 x 32 mm
Memory: 30000 samples Interface: USB
Size: 130 x 54 x 38mm
Weight: 250g

9265.230 PRECISION HUMIDITY/TEMPERATURE METER





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.

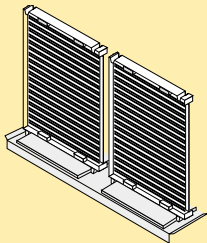
In the table below are listed the parts forming the trolley shown left.

code	description	ref.	Qty.
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 20)		6 in figure

CHARIOTTE trolley for LABERACK

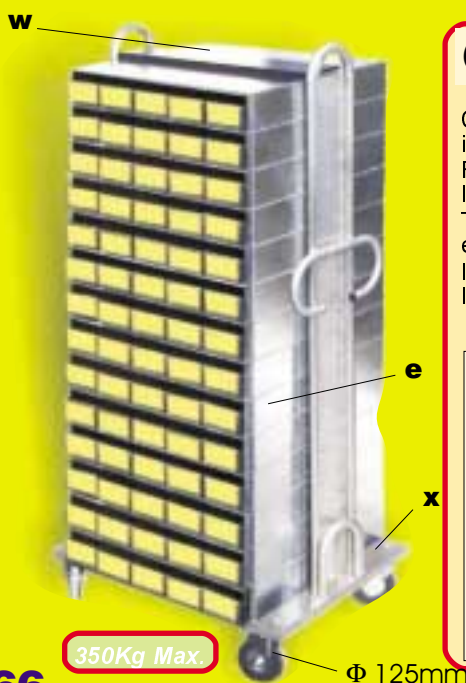
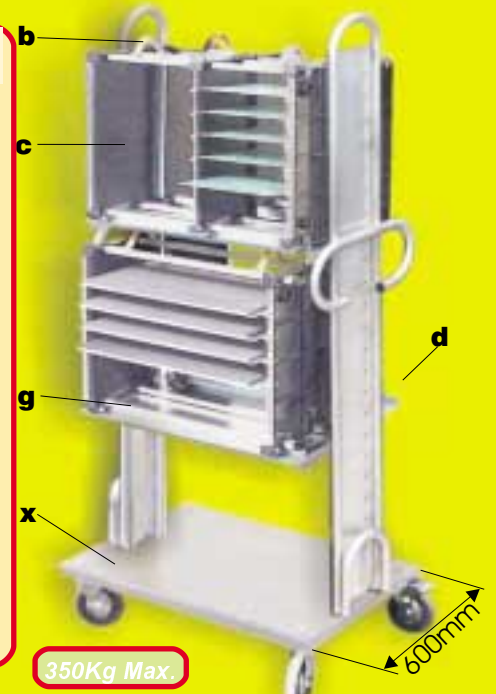
CHARIOTTE conductive trolley can be customized to carry Printed Circuit Boards or LABEFIX trays. The trolley shown in figure consists of four LABERACK carriers, securely housed on the two special double support shelves.

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



particolare del piano doppio per LABERACK

code	description	ref.	Qty.
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	



CHARIOTTE trolley for I.C. dip tubes

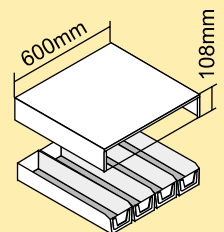
CHARIOTTE conductive trolley can be a movable and safe storage of integrated circuits in tubes.

Fast and easy to mount, simply placing the frames from the bottom, one upper other, and locking the building by means of the upper tie.

Two different bins are available: in injection moulded conductive Polypropylene and in extruded double wall conductive Polypropylene sheet (LABEPLAST) shipped flat.

In the table below are listed the parts forming the mobile dip tube storage cabinet, shown left.

code	description	ref.	Qty.
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
8100.058	Upper tie	w	1
8100.090	Frame for dip tube bin	e	14
7804.679	Dip tube conductive bin (Injection-molded)(4 per shelf)		56
7806.700	Dip tube conductive bin in LABEPLAST (shipped flat)(5 per shelf)		70



frame for bins

CHARIOTTE feeder cart



The SMD feeder trolley use the standard CHARIOTTE structure with specific feeder shelves 630mm length. It is available the specific feeder trolley shelf for the most popular surface mounting machines. For other models it is necessary to receive one sample of the feeder to design it.

8100.201

630mm shelf for
FUJI CP6
Feeder



8100.205

630mm shelf for
FUJI IP3-QP2
Feeder



8100.230

630mm shelf for
UNIVERSAL GSM
Feeder



8100.255

630mm shelf for
PHILIPS CSM
FV/GEM
Feeder



CHARIOTTE SMD reel holder

CHARIOTTE 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.

* AVAILABLE IN 2 LENGTHS *

code	description	ref.	Qty.
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	



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.

Load capacity for single shelf: 200 Kgs

Load capacity for shelving unit: 1000 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).



8104.108

Esd Document holder A4 - 2 magnets included

8104012

SMD reel shelf 455 x 910mm
Reel capacity: 78
DIA.180mm x width. max.17mm



8104013

SMD reel shelf 455 x 910mm
Reel capacity: 15
DIA.330mm x width. max.50mm

For the safe and tidy storage of SMD-reels, there are different wire shelves that can be combined in any order with any other wire shelves.

8104.050

"S" Hooks for Add-on Unit.

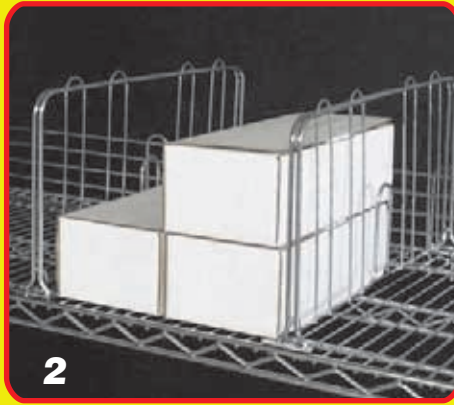
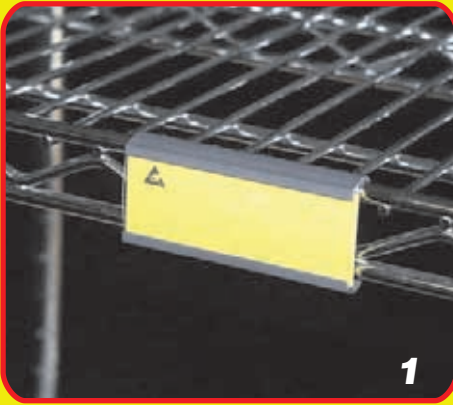
8103.990	Shelf Dim. 350mm x 910mm
8103.991	Shelf Dim. 350mm x 1220mm
8104.001	Shelf Dim. 455mm x 910mm
8104.002	Shelf Dim. 455mm x 1220mm
8104.003	Shelf Dim. 455mm x 1525mm
8104.000	Shelf Dim. 455mm x 1830mm
8104.004	Shelf Dim. 610mm x 910mm
8104.005	Shelf Dim. 610mm x 1220mm
8104.006	Shelf Dim. 610mm x 1525mm
8104.007	Shelf Dim. 610mm x 1830mm
8104.020	Post H=864mm
8104.021	Post H=1370mm
8104.022	Post H=1600mm
8104.023	Post H=1890mm

Plastic split sleeve included with shelves



8104.060
Aluminium split sleeve (optional)





Fixed Label-holder (1)

8104.101

Fixed Label-holder

Divider (2)

8104.110

Shelf Dividers 455mm. length

8104.111

Shelf Dividers 610mm. length

Side and back ledges (3)

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

8104.130

Ledge 100mm x 455mm

8104.131

Ledge 100mm x 610mm

8104.135

Ledge 100mm x 762mm

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 :300 Kgs

8104.041

U-handle 455mm width, 876mm height

8104.042

U-handle 610mm width, 876mm height

8104.070

Set of 4 conductive castors diameter 125mm

8104.071

Set of 4 NON-ESD castors diameter 125mm

Composition:

2 U-handles, 1 set of castors ,

2/3 shelves and 8/12 split sleeves

Or 4 posts, 1 set of castors

2/4 shelves and 18/6 split sleeves



8104.046

Handle 455mm

8104.047

Handle 610mm

STAINLESS STEEL CARTS

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

TWO/THREE SHELF CART (A)

8104.700 2 U-handle KIT, with conductive wheels

8104.706 Shelf - dim. 800 x 500mm

8104.708 Shelf - dim. 1000 x 500mm

Load capacity for single shelf: 50 Kgs

CART FOR STUFF (B)

8104.720 Trolley - dim. 1000 x 550mm

Load capacity : 250 Kgs



CHARIOTTE TRAY TROLLEYS

Supporting structure made of tubular AISI 304 stainless steel.

C - 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)

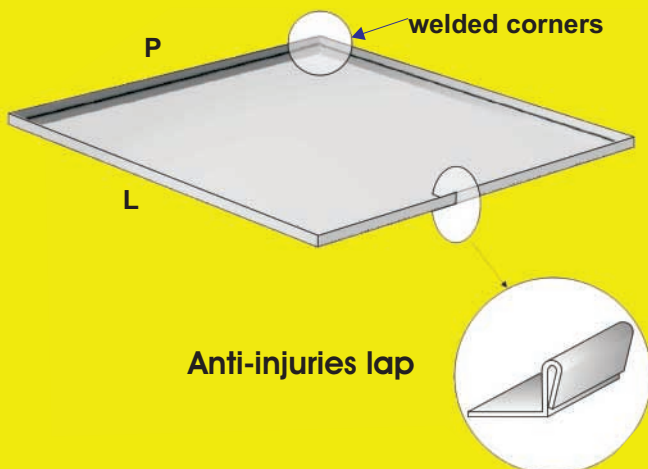
The optional stainless steel shelf, can be placed on the bottom and on the top.



TRAY DIMENSION
P x (L - 8mm)

- 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(L) mm
- 8104.651 (B) STRINGER 25 x 25 x 538(L) mm
- 8104.654 (B) STRINGER 25 x 25 x 808(L) mm
- 8104.660 (C) Central tie rod Φ 8X 508(L) mm
- 8104.661 (C) Central tie rod Φ 8X 538(L) mm
- 8104.664 (C) Central tie rod Φ 8X 808(L) mm
- 8104.685 (D) Stiffening cross 1520(H)x508(L) mm
- 8104.686 (D) Stiffening cross 1520(H)x538(L) mm
- 8104.687 (D) Stiffening cross 1520(H)x808(L) mm
- 8104.670 (E) Inox SHELF 10/10 400 (P) x 508(L) mm (optional)
- 8104.674 (E) Inox SHELF 10/10 660 (P) x 508(L) mm (optional)
- 8104.675 (E) Inox SHELF 10/10 400 (P) x 538(L) mm (optional)
- 8104.676 (E) Inox SHELF 10/10 660 (P) x 538(L) mm (optional)
- 8104.678 (E) Inox SHELF 10/10 400 (P) x 808(L) mm (optional)
- 8104.682 (E) Inox SHELF 10/10 660 (P) x 808(L) mm (optional)

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

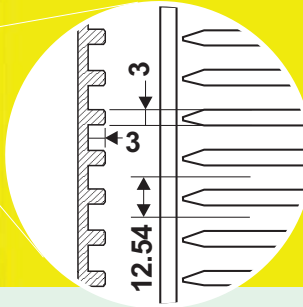


ALUMINIUM TRAYS

Flat trays, made of aluminium alloy 3003 with anti-injuries laps.

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

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.

PART LIST

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	Conductive wheel kit, Ø 125mm (2 with brake)
8104.696	NON-ESD wheel kit, Ø 125mm (2 with brake)

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