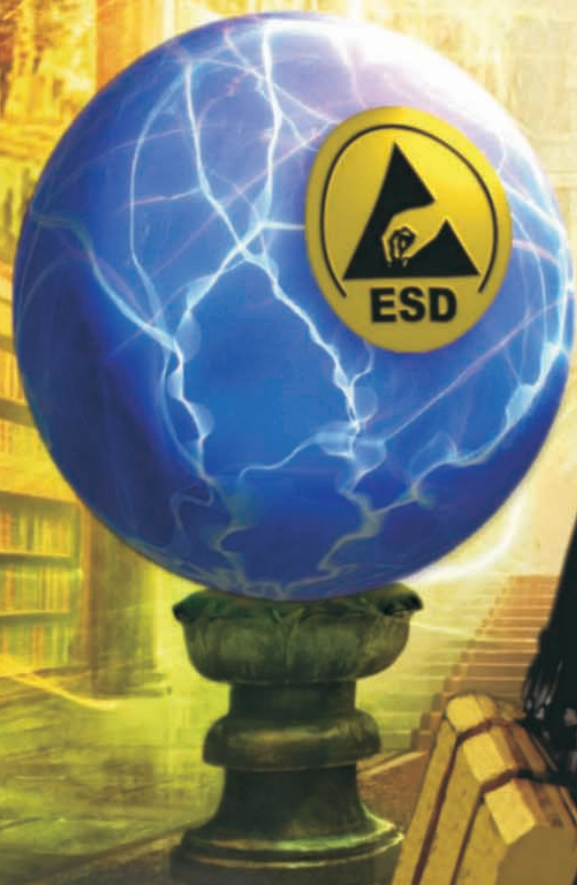


iteco



COUNTY EVO



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

TECHNICAL FEATURES

Counting in both directions (left or right)
 Divider from 0.5 to 19
 TOTALIZER mode counting
 PRESET mode counting (with an audible alarm when the desired component number is reached)
 Calibration test and self diagnostic procedure
 Last counting value and condition memory
 Models 8301.082 and .084 with rechargeable battery, Barcode reader input, output for Printer/PC, Watch, Datalogger with 500 counting records .

AXIAL COUNTING

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

RADIAL COUNTING

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

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

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

SMD COUNTY ADAPTOR

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

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

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

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



8301.023
SUPPORT FOR
ROLLED
BANDOLIER

Codes and Options at page 4



8301.028
SUPPORT FOR SMD
REELS

COUNTY-S EVO



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

It can operate in two different ways:

TOTALIZER:

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

PRESET MODE:

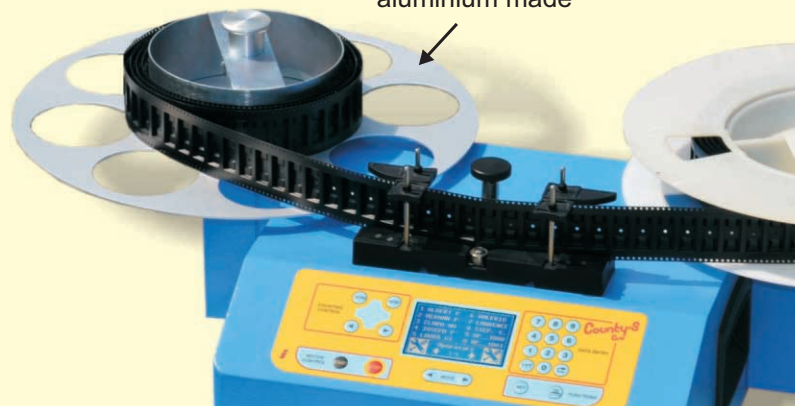
the desired component number is keyed on the keyboard and the counter automatically stops when it reaches the corresponding component.



In the count screen are always visible:

Counting direction - Pitch number (holes per component) - Working mode (Totalizer, Preset or Rewind) - Name of the operator - Components counted - Date & Time or the last barcode reading.

8301.110
EMPTY REEL
aluminium made

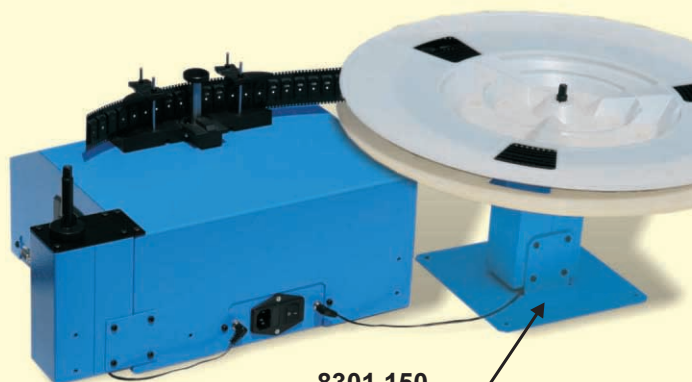


TECHNICAL FEATURES

Counting: max 9999999pcs, 6 digits 22mm height
 Maximum counting speed: 220pcs/sec (1 piece per hole)
 Pitch (holes for component): from 0.5 to 99
 Maximum tape height: 56mm
 Maximum reel diameter: 400mm (standard configuration)
 650mm (with 8301.150 support)
 Display: blue LCD with led backlight 160x104 pixel
 visible area: 74x46mm

Adjustable speed control
 Step by step mode (1 component at a time)
 Empty pocket check (optional)
 Barcode reader input
 Serial connection for label printer or PC
 Selection of the operator (10 operators can be memorized with 8 alphanumeric chars everyone)
 Internal clock (1 week backup)
 Datalogger that stores the last 500 counting data
 Memory storage for subtotals
 2 side handles for easy transport.

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



8301.150
Support for reels with diameter
> 400mm

Codes and Options at page 4





County EVO part list

| | |
|----------|---|
| 8301.081 | County EVO 230V/50-60Hz |
| 8301.082 | County EVO 230V/50-60Hz |
| 8301.083 | with accumulator, barcode input, printer output, watch |
| 8301.084 | County EVO 115V/50-60Hz |
| 8301.350 | County EVO 115V/50-60Hz with accumulator, barcode input, printer output, watch ISO9000 Traceable® Certificate |
| 8301.023 | Accessories for the counting of PTH taped components |
| 8301.025 | Complete support for rolled bandolier(1 pcs) Bandolier handle |
| 8301.018 | Accessories for the counting of SMD components |
| 8301.028 | SMD Adaptor |
| 8301.030 | SMD support for rolled bandolier SMD bandolier handle |



County-S EVO part list

| | |
|----------|--|
| 8301.131 | County-S EVO 230V/50-60Hz |
| 8301.133 | County-S EVO 230V/50-60Hz with Empty Pocket Check |
| 8301.141 | County-S EVO 115V/50-60Hz |
| 8301.143 | County-S EVO 115V/50-60Hz with Empty Pocket Check |
| 8301.350 | ISO9000 Traceable® Certificate |
| 8301.150 | Support for reels > 400mm diameter |
| 8301.110 | Empty Reel, aluminium made, 350mm diameter |

Barcode for County EVO and County-S EVO

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

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

8301.155 Barcode with coiled cord



Printer for County EVO and County-S EVO

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

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

8301.095
8301.096

Direct thermal label printer
57x51mm, 1360 labels/roll



COUNTER-PEN™

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

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

8301.120 COUNTER-PEN digital counter
8301.122 Replacement pen cartridge



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 |



COUNTY-W COUNTING SCALES

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

basic

Display resolution: 1/30.000
 Internal resolution: 1/200.000
 Tare, Preset Tare, Auto Zero Tracking
 Weighing plate easy to disassemble
 Unit weight memory up to 20 items
 Accumulation function
 ACAI (Automatic Counting Accuracy Improvement)



8301.181

high resolution

Display resolution: 1/30.000
 Internal resolution: 1/480.000
 Tare, Auto Zero Tracking
 Accumulation function
 Hi/Lo/OK Check function for weight and counts
 ACAI (Automatic Counting Accuracy Improvement)



8301.190

professional

Display resolution: 1/30.000
 Internal resolution: 1/600.000
 - Auto-Calibration: software
 - 50 unit weight memory cells
 Tare, Auto Zero Tracking
 Accumulation function
 Hi/Lo/OK Check function for weight and counts
 ACAI (Automatic Counting Accuracy Improvement)



8301.200

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.)
 Scale dimensions: 220 x 180 x 160(H)mm
 Display resolution: 1 / 30,000
 Internal resolution: 1 / 150,000
 Interface: Uni-direction RS232C
 Power: AC/DC adaptor operated by 230V or 115Vac



8301.232

| MODEL | CAPACITY | DISPLAY RESOLUTION | INTERNAL RESOLUTION | MINIMUM UNIT WEIGHT | PLATTER SIZE |
|----------|--|--------------------|---------------------|---------------------|--------------|
| 8301.181 | Basic 1500g | 0,1g | 0,01g | 0,1g | 294 x 228 mm |
| 8301.183 | | 0,2g | 0,02g | 0,2g | 294 x 228 mm |
| 8301.187 | | 0,5g | 0,05g | 0,4g | 294 x 228 mm |
| 8301.190 | High Res 3000g | 0,1g | 0,01g | 0,1g | 334 x 245 mm |
| 8301.191 | | 0,2g | 0,02g | 0,2g | 334 x 245 mm |
| 8301.192 | | 0,5g | 0,05g | 0,5g | 334 x 245 mm |
| 8301.193 | | 1g | 0,1g | 1g | 334 x 245 mm |
| 8301.200 | Professional 6000g | 0,2g | 0,01g | 0,1g | 320 x 240 mm |
| 8301.230 | Precision 150g | 0,005g | 0,001g | 0,1g | Ø 125mm |
| 8301.231 | | 0,01g | 0,002g | 0,2g | 146 x 125mm |
| 8301.232 | | 0,02g | 0,004g | 0,3g | 146 x 125mm |
| 8301.355 | ISO9000 Traceable® Calibration Certificate | | | | |

7820.031**7820.001****TECHNICAL FEATURES**

| | |
|-------------|-----------------------|
| power: | 20 W |
| air volume: | 130 m ³ /h |
| noise: | 45 dB(A) |

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 230V (table model)

7820.003

Set of 4 spare filters

7820.004

Adjustable support for table model

7820.021

Exhauster 230V (hanging model)

7820.031

Exhauster 230V (hanging model) with lamp.

All GOSMOKE exhausters are supplied with 4 spare filters.

AUTOMATIC FORMING TOOLS

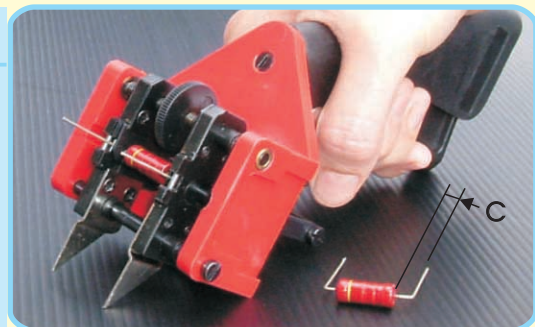
This tool is hand operated, adjustable, useful to obtain a U-form for axial components.

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.

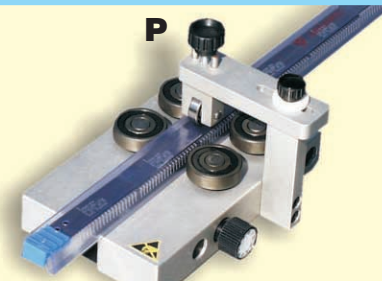
Setting of the pin distance: 7 - 24mm (0.3" - 0.9")

7804.711

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

7804.712

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

**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.

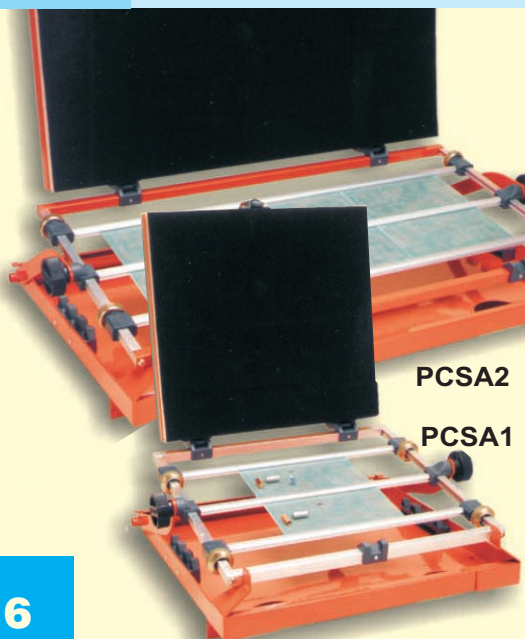
Additional rails may be added to accommodate a larger number of small boards.

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****PCSA1** PCB's holder, max. working dimensions 270 x 220mm**7915.601****PCSA2** PCB's holder, max. working dimensions 500 x 220mm**7915.605****PCSA4** PCB's holder, max. working dimensions 500 x 350mm**7915.610**

Additional sliding rail for PCSA1

7915.612

Additional sliding rail for PCSA2 and PCSA4

TRACTOR

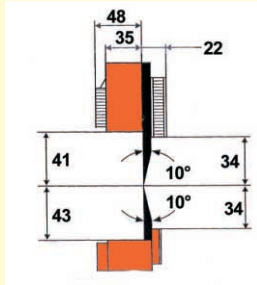
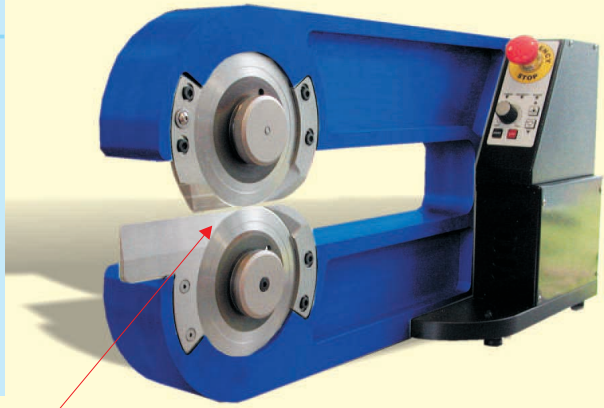
TRACTOR depaneling machine separates the prescored PCB, in a very quick and economic way.

The compact and stable aluminium frame requires a minimum space.

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

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

The hand model is suggested only for small productions.



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

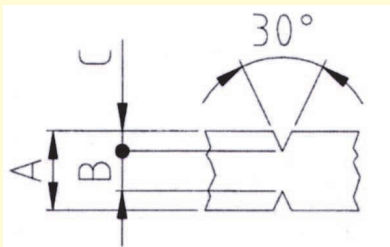
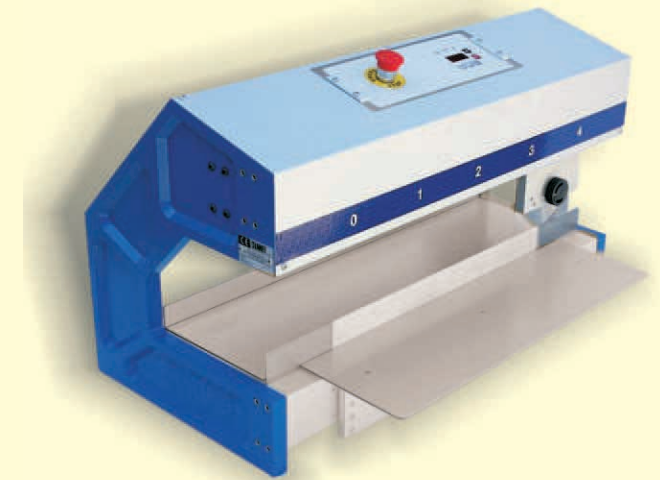
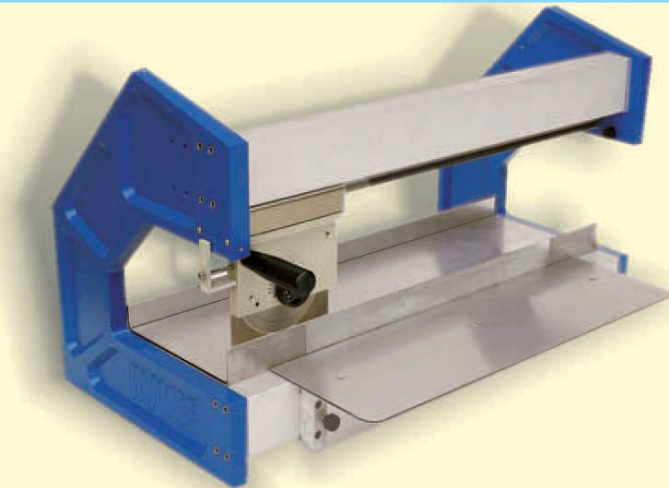
up to 350mm
0.8 - 3.2mm
34 - 43mm

7915.580
7915.582
7915.583

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

TRACTOR 2

TRACTOR 2M



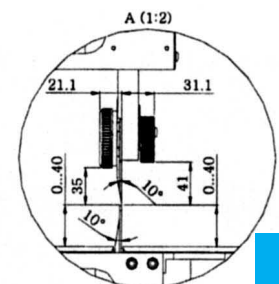
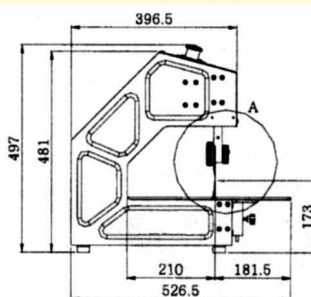
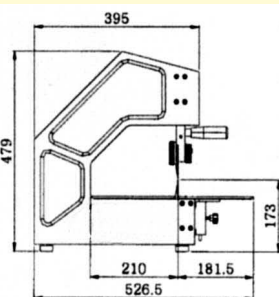
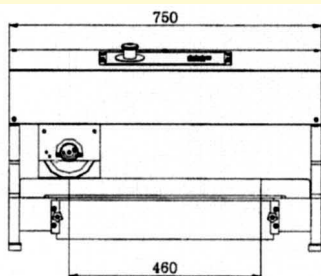
A = 1.0 - 3.2mm
B = min.0.3mm
max.0.8mm
C = min.0.25mm

TRACTOR 2 separates both small and large pre-scored PCBs, the maximum separation length is 450mm.

The PCB is placed with its pre-scored groove onto the linear blade and the circular blade is then drawn by hand, or by motor, across the PCB. The clearance between the upper circular blade and the lower linear blade is adjustable

7915.560
7915.564

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



SUPERFORM-R

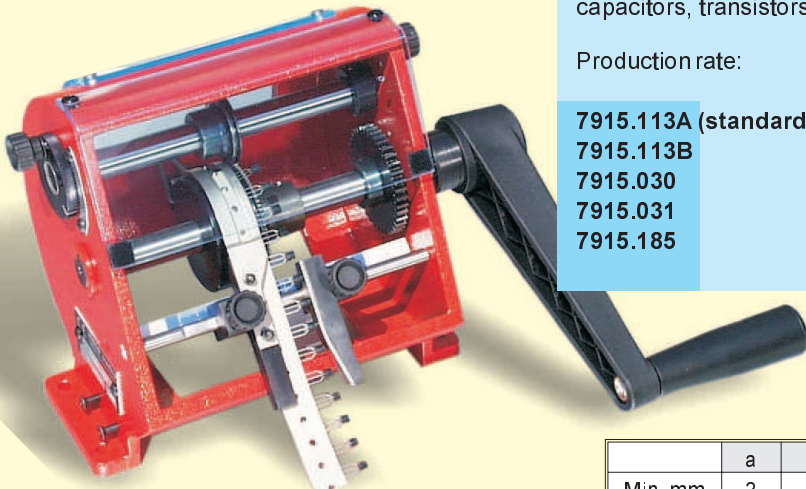
SUPERFORM/R is a machine made for cutting radial taped components such as capacitors, transistors and stand-off resistors.

Production rate:

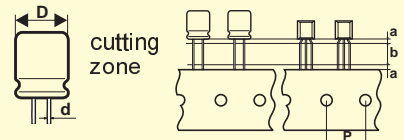
up to 20000 pcs/hr

7915.113A (standard model)
 7915.113B
 7915.030
 7915.031
 7915.185

SUPERFORM/R P=12.7mm (.5")
 SUPERFORM/R P=15.0mm (.59")
 Motor Unit for SUPERFORM, 230V - 50/60Hz
 Motor Unit for SUPERFORM, 115V - 50/60Hz
 Tape Reel Holder arm BR6



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



SUPERCUT

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

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

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

The transfer speed is adjustable.

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

There is an optional adapter for radial taped components.

TECHNICAL FEATURES

Production rate:

up to 3000 pcs/hr

Dimensions:

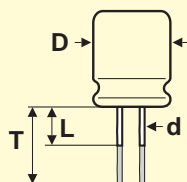
400 x 270 x 270(H)mm

Weight:

14Kg

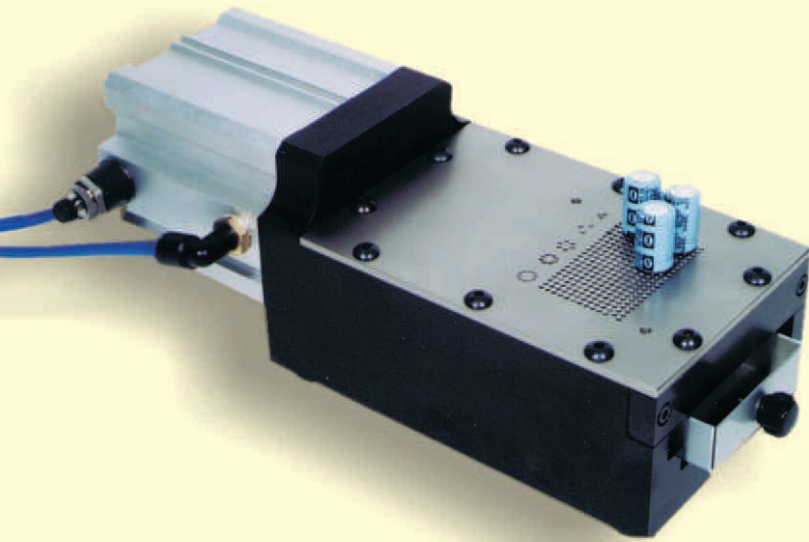
7915.147N
 7915.148N
 7915.160
 7915.159

Motorized cutting machine SUPERCUT, 115V - 50/60Hz
 Motorized cutting machine SUPERCUT, 230V - 50/60Hz
 Tape Reel Holder BR3, P=12.7mm
 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.

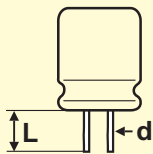
The machine can be supplied with special cutting jig. An additional optional plate (thickness to be specified, max 3mm) can be supplied to increase the cutting height of the leads.

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

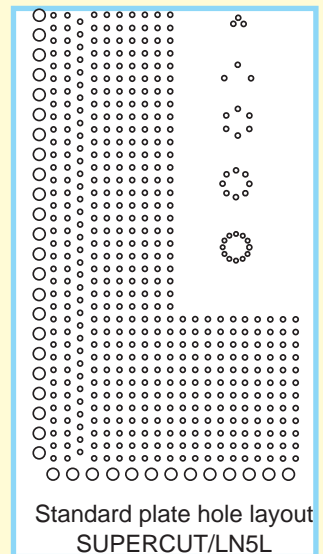
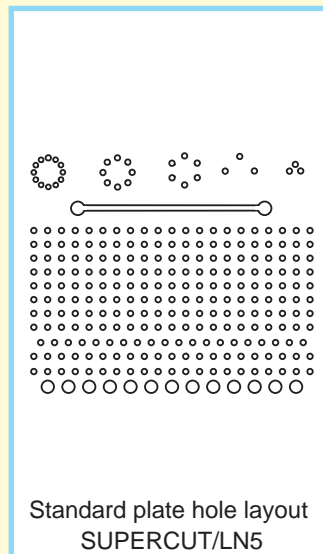
TECHNICAL FEATURES

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

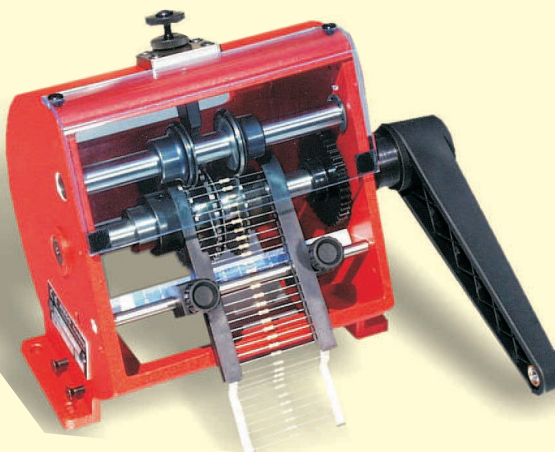
- 7915.041** SUPERCUT/LN5 with foot pedal control
- 7915.041L** SUPERCUT/LN5L long model with foot pedal control
- 340.114** Optional additional plate for SUPERCUT/LN5 (max 3mm)
- 340.214** Optional additional plate for SUPERCUT/LN5L (max 3mm)



| | L | d |
|--------|-----|-----|
| Min mm | | 0.3 |
| Max mm | | 1.3 |
| Fix mm | 3.2 | |



SUPERFORM/V

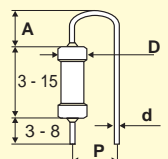


| | P | | d | | A | | D |
|-------------------------------------|------|-----|-----|-----|-----|-----|-----|
| | fix | min | min | max | min | max | max |
| 7915.101 B standard model | 2.54 | 0.5 | 0.5 | 0.8 | 2 | 6 | 3 |
| 7915.101 C | 3.8 | 0.5 | 0.5 | 0.8 | 2.5 | 6 | 5 |
| 7915.101 D | 5.08 | 0.5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

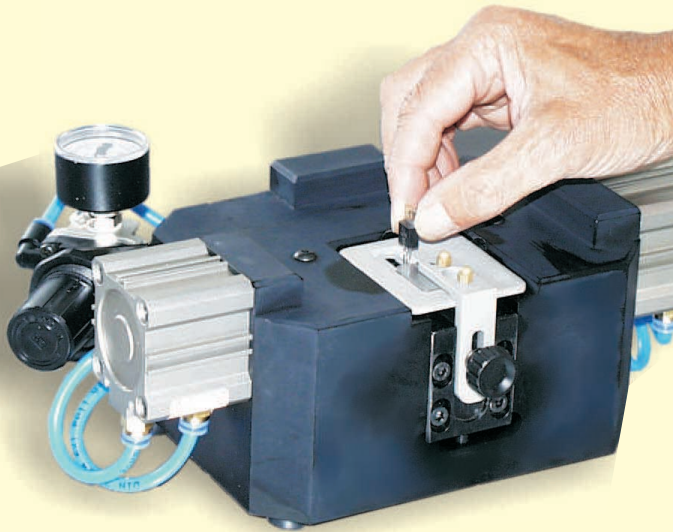
SUPERFORM/V is a machine made for cutting and bending axial taped components for vertical mounting.

Production rate up to 40000 pcs/hr

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



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:

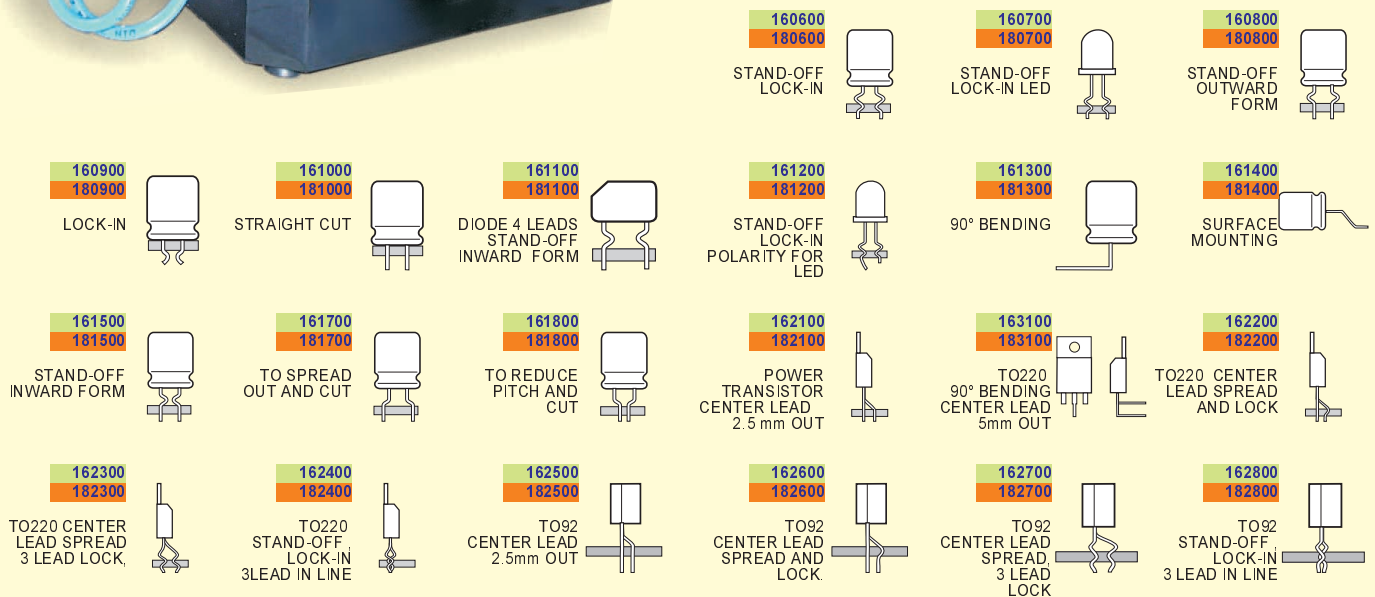
2000 pcs/hr

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.

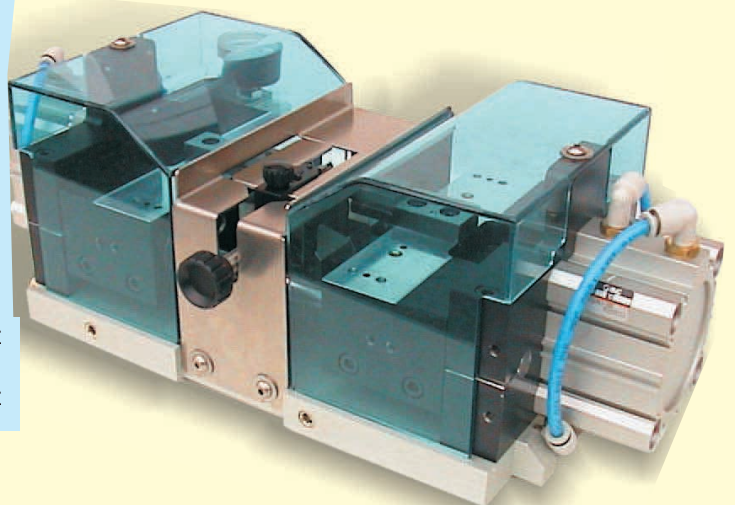
- wire holder system available on request
- more powerful cylinders
- stronger and more accurate
- less wear
- very large components processing
(max. length 140mm, max. pitch 45mm)
- production rate 2000 pcs/hr

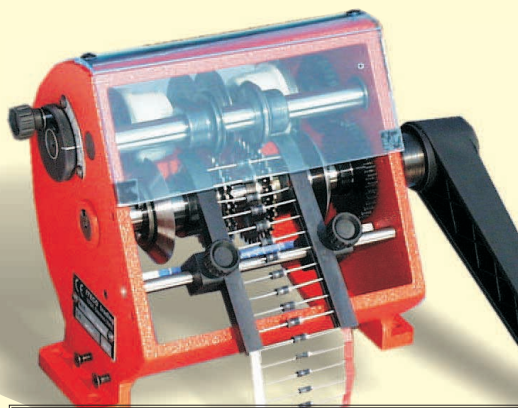
7915.171

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.

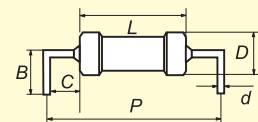
Production rate:

up to 40000 pcs/hr

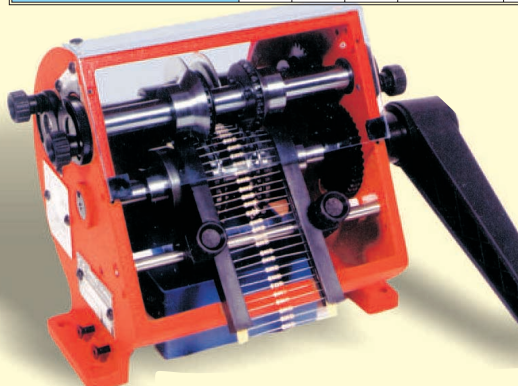
7915.030
7915.031
7915.180
7915.185

Motor unit for SUPERFORM, 230V - 50/60Hz
Motor unit for SUPERFORM, 115V - 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.

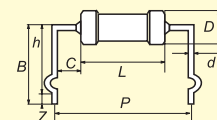
Production rate:

up to 20000 pcs/hr

7915.030
7915.031
7915.180
7915.185

Motor unit for SUPERFORM, 230V - 50/60Hz
Motor unit for SUPERFORM, 115V - 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 230V Motor Unit for SUPERFORM/A-AP-S-V-R-RCP
7915.031 115V Motor Unit for SUPERFORM/A-AP-S-V-R-RCP
7915.032 230V Motor Unit for SUPERFORM/AF-VP
7915.033 115V Motor Unit for SUPERFORM/AF-VP
600.023 Foot switch for 7915.030/031/032/033 motors



SUPERFORM Tape Reel Holder BR6

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

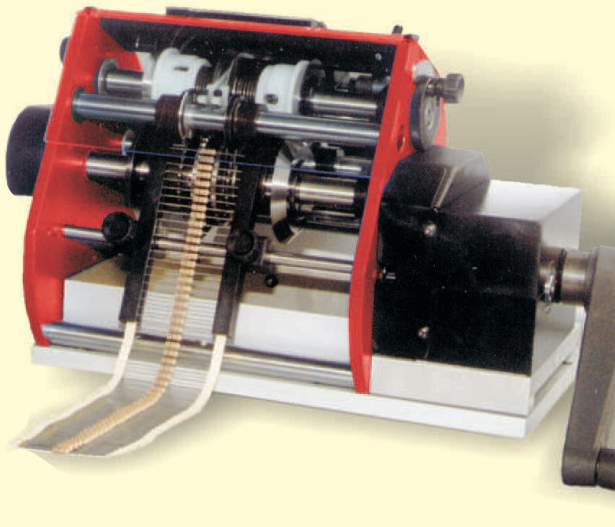
7915.185

BR6 for all SUPERFORM models



BR6

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.

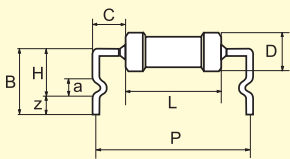
By use of the variable speed Motor Drive Unit working can be automatic and the production rate can be increased.

Production rate:

up to 7000 pcs/hour

STAND OFF

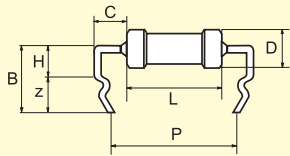
Dimensions in mm (* can increase, according to the component diameter)



| model | P | | L | C | H | | B | | d | | D | a | | z | |
|---|------|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|
| | min | max | max | min | min | max | min | max | min | max | max | min | 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

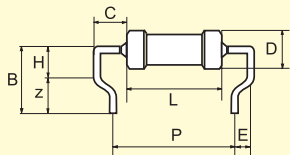
Dimensions in mm (* can increase, according to the component diameter)



| 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

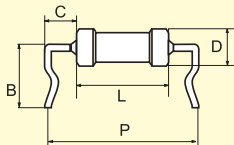
Dimensions in mm (* can increase, according to the component diameter)



| 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, 230V- 50/60Hz
7915.033 Motor Unit for SUPERFORM/AF, 115V- 50/60Hz
7915.184 Loose Component Feeder CS40 for SUPERFORM/AF

420750

420800

420850

420900

420950

421000

430700

430900

STAND-OFF preforming die assembly, curl 3mm

STAND-OFF preforming die assembly, curl 2.5mm

STAND-OFF/LOCK-IN pref. die assembly (d:0.5 - 0.8)

STAND-OFF/REDUCED PITCH pref. die assembly

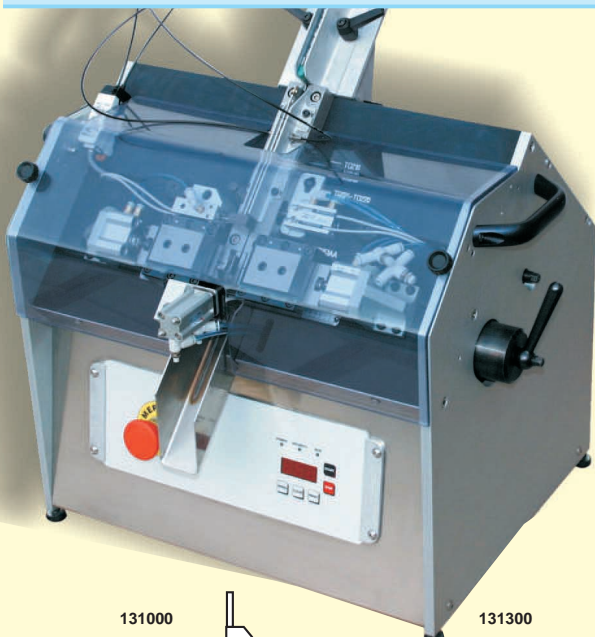
STAND-OFF/LOCK-IN pref. die assembly (d:0.6 - 1)

BODY LOCKED ON PCB preforming die assembly

STAND-OFF preforming die assembly (d:1-1,3mm)

STAND-OFF/REDUCED PITCH (d:1-1,3mm)

SUPERCUT/TOCF for tubed transistors



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

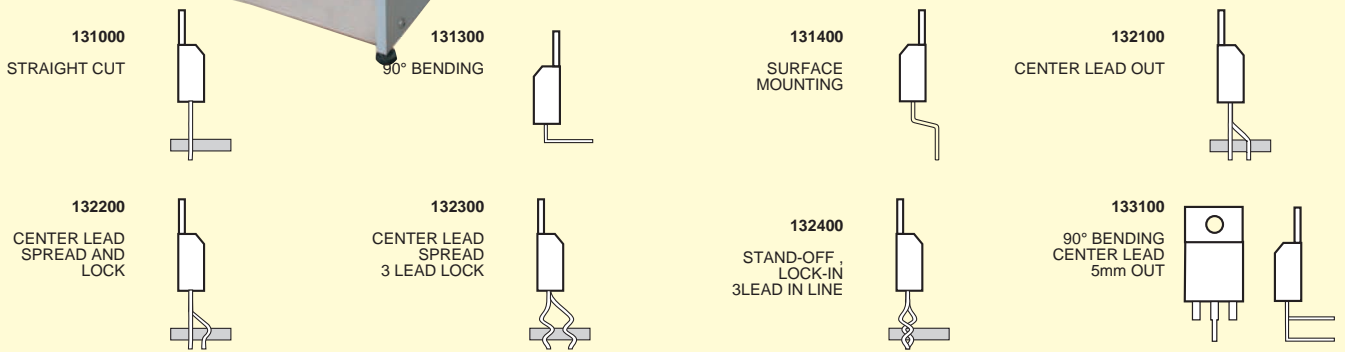
The complete operation is fully automatic and each form needs dedicated die .

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

Production rate: up to 3000pcs/hr

7915.176 SUPERCUT/TOCF without tools, 115V

7915.177 SUPERCUT/TOCF without tools, 230V



SUPERCUT/RP for taped radials

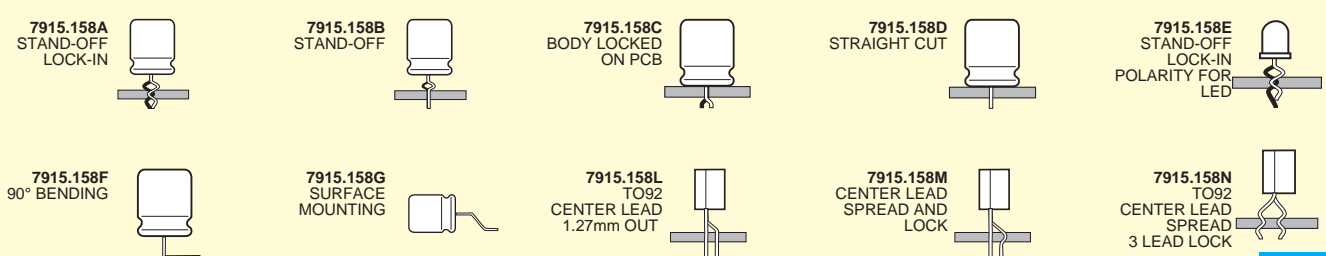
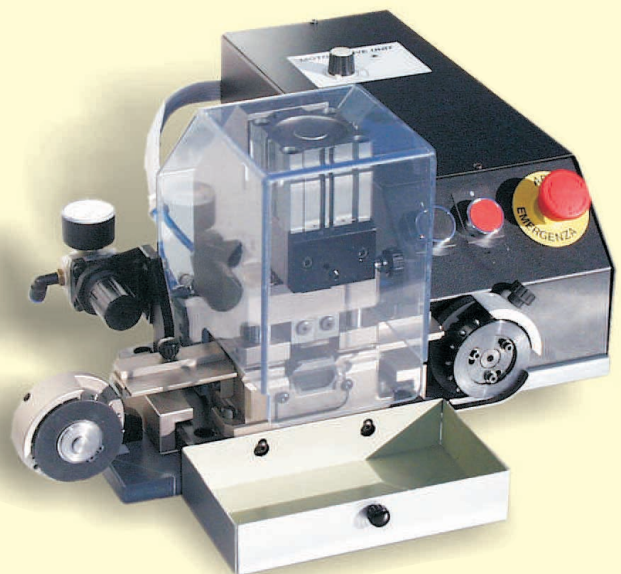
SUPERCUT/RP is a machine designed to cut and form taped radial component leads, the curl formed by this model allows the components to remain spaced and locked in the PCB, making assembly operations easier .

The machine can be supplied with preforming curl dies different from the standard ones.

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

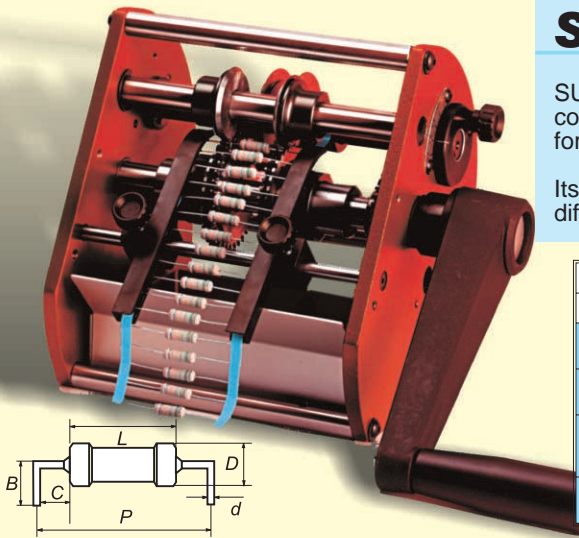
An automatic feeder system for taped components is available.
Production rate (with feeder): 7000 pcs/hour

7915.153 Manual machine SUPERCUT/RP without preforming set
7915.156 Feed system for taped components, tape P=12.7, 115V
7915.156A Feed system for taped components, tape P=15, 115V
7915.157 Feed system for taped components, tape P=12.7, 230V
7915.157A Feed system for taped components, tape P=15, 230V
7915.158 Die block



Low-Cost preforming machines

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



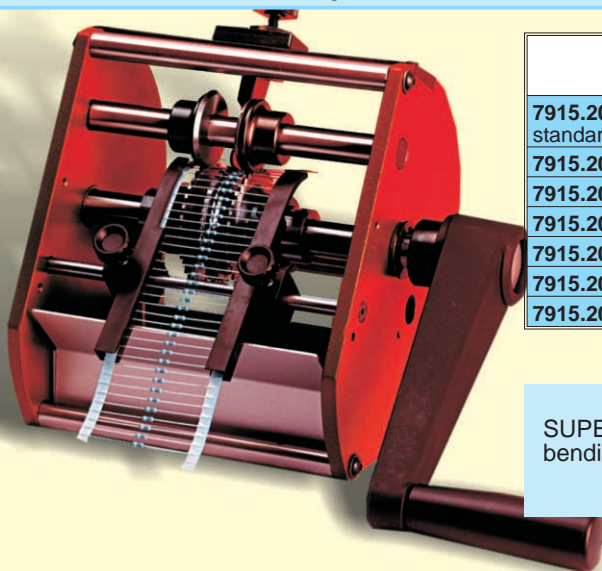
SUPERFORM/A-LC

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

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

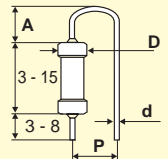
| | B | | P | | C | D | d | | L |
|--|-----|-----|------|-----|-----|-----|-----|-----|-----|
| | min | max | min | max | min | max | min | max | max |
| 7915.200A standard model | 4 | 13 | 6.5 | 60 | 1.2 | 16 | 0.4 | 1.3 | 50 |
| 7915.200D reinforced bending knives | 5 | 13 | 10.5 | 60 | 2.4 | 16 | 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

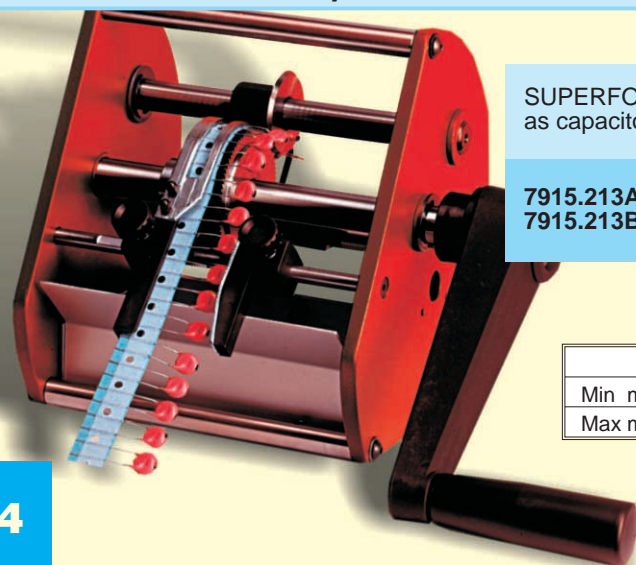


| | P | d | | A | | D |
|-------------------------------------|------|-----|-----|-----|-----|-----|
| | fix | min | max | min | max | max |
| 7915.201 B standard model | 2.54 | 0.5 | 0.8 | 2 | 6 | 3 |
| 7915.201 C | 3.8 | 0.5 | 0.8 | 2.5 | 6 | 5 |
| 7915.201 D | 5.08 | 0.5 | 0.8 | 3 | 7 | 8 |
| 7915.201 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-LC is a machine made for cutting and bending axial taped components for vertical mounting.



SUPERFORM/R-LC

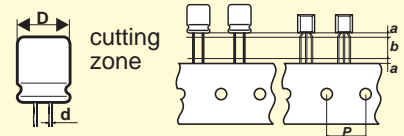


SUPERFORM/R-LC is a machine made for cutting radial taped components such as capacitors, transistors and stand-off resistors.

7915.213A (standard)
7915.213B

P=12.7mm
P=15mm

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



PRECISION SCREWDRIVERS



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

TORX



TAMPER RESISTANT



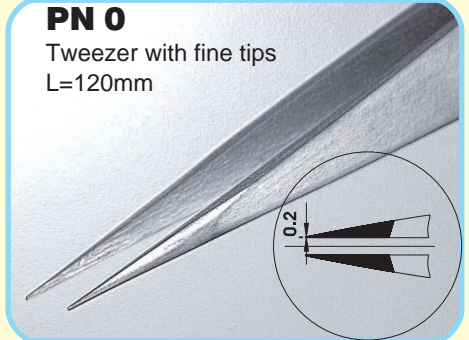
| | | |
|--------|----------|----------|
| PG4-0X | PG4-0X-D | Tx5x50 |
| PG4-0 | PG4-0-D | Tx6x50 |
| PG4-1 | PG4-1-D | Tx7x50 |
| PG4-2 | PG4-2-D | Tx8x60 |
| PG4-3 | PG4-3-D | Tx9x60 |
| PG4-4 | PG4-4-D | Tx10x60 |
| PG4-5 | PG4-5-D | Tx15x60 |
| PG5-0X | PG5-0X-D | TRx5x50 |
| PG5-0 | PG5-0-D | TRx6x50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

TWEEZER

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

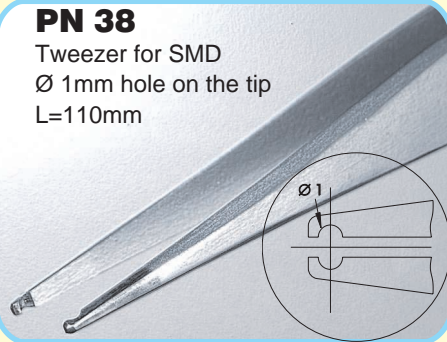
PN 0

Tweezer with fine tips
L=120mm



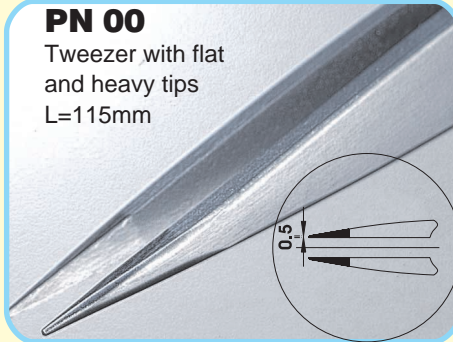
PN 38

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



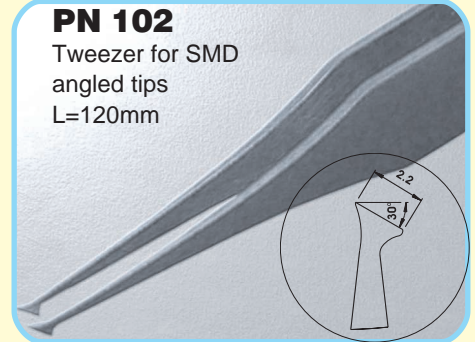
PN 00

Tweezer with flat and heavy tips
L=115mm



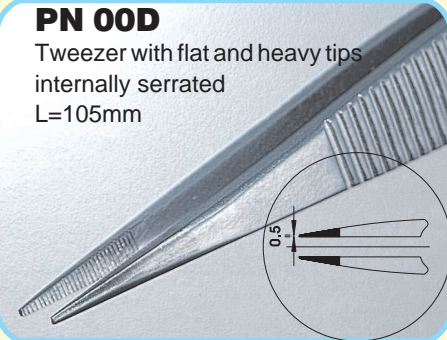
PN 102

Tweezer for SMD
angled tips
L=120mm



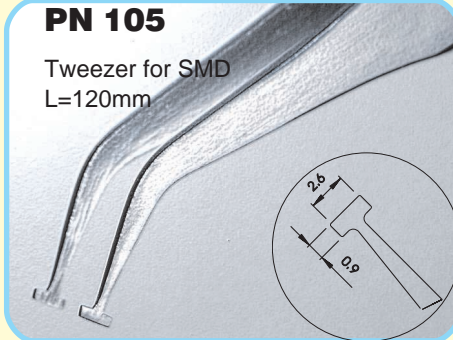
PN 00D

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



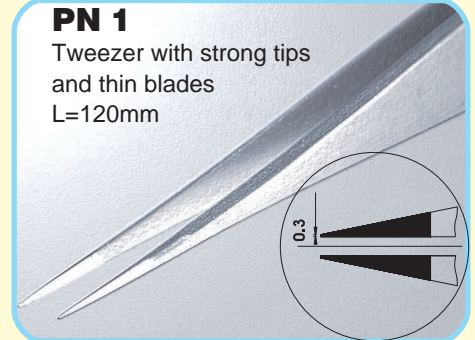
PN 105

Tweezer for SMD
L=120mm



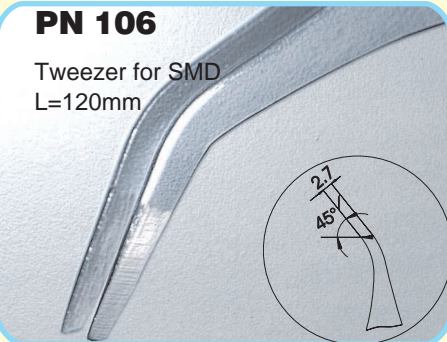
PN 1

Tweezer with strong tips
and thin blades
L=120mm



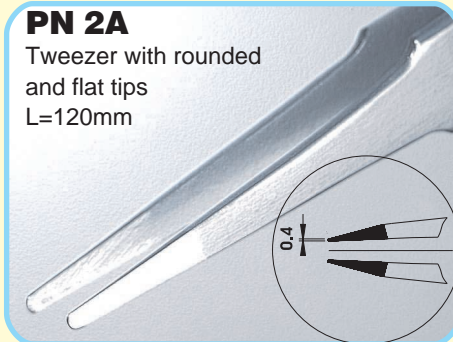
PN 106

Tweezer for SMD
L=120mm



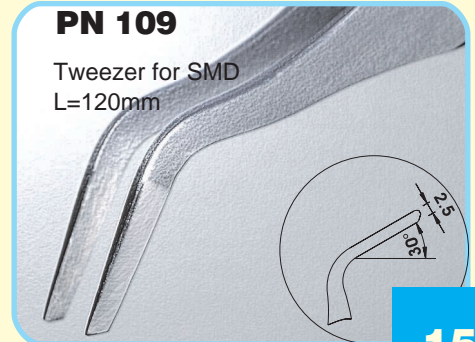
PN 2A

Tweezer with rounded
and flat tips
L=120mm



PN 109

Tweezer for SMD
L=120mm



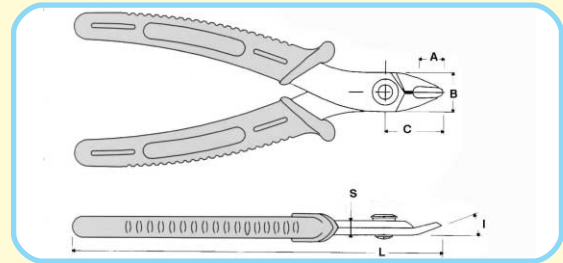


CUTTING - NIPPERS

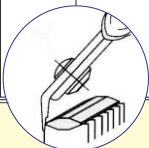
Specially developed for the electronic, these tools are made out a special carbon steel, with elastic, ergonomic PVC handles, in two versions:

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

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



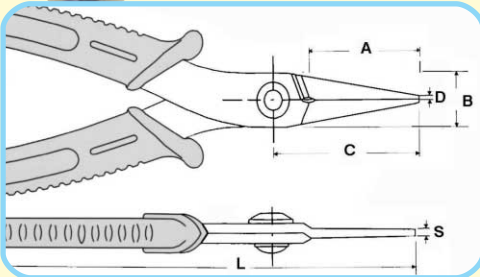
| USE | TYPE OF CUT | WT | dia.max Copper wire | | DIMENSIONS | | | | | | CODE | HANDLES | | SAFETY CLIP |
|--|--------------------|-----|---------------------|----|------------|------|----|---|-----|-----|--|------------------|------------------|------------------|
| | | | gr. | mm | AWG | A | B | C | S | L | | I | ESD black | |
| 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 | • • | • • | |



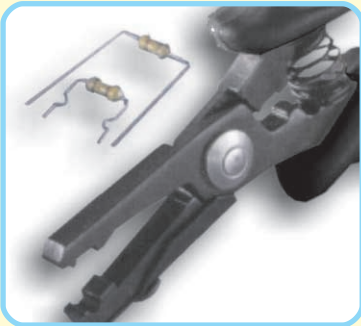
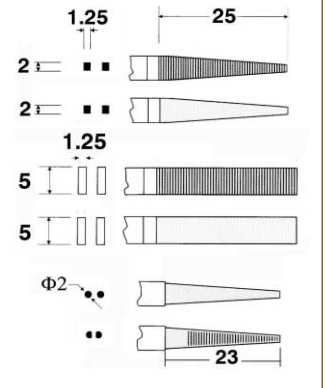


PLIERS

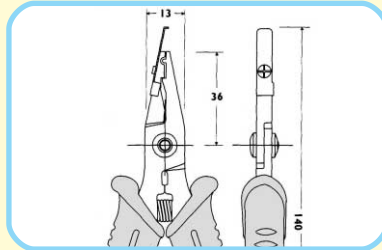
Professional pliers developed for the electronics industry. Short, long, rounded pliers, with smooth or serrated nose. Extension D is for the Black Dissipative PVC handles ($10^6-10^9\Omega$).



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



PREFORMING WITH CURL



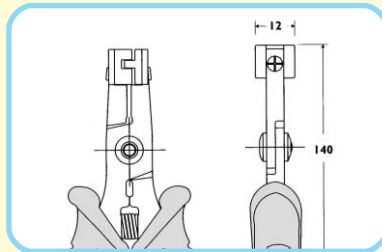
Professional tool specially designed to cut and preform components in a single operation. Variable length by means of an adjustable stop.

PNR5000D black dissipative ESD handles ($10^6-10^9\Omega$)

Max. diam.: copper lead 1mm/18AWG
 $a_{min} = 3$
 $a_{max} = 16$

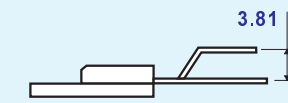


PREFORMING TO220

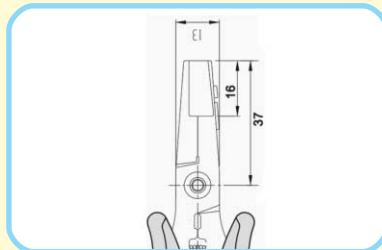


Professional tool specially designed to preform with central lead out of 3.81mm.

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



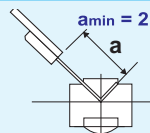
PREFORMING AT 90°



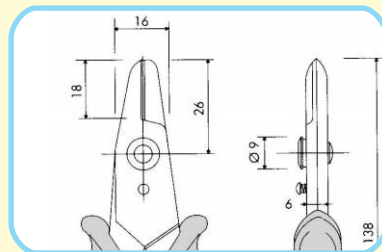
Professional tool specially designed to preform components at 90°.

PN5040/7D black dissipative ESD handles ($10^6-10^9\Omega$)

$a_{min} = 2.5mm$
 a
 Max. diam.: copper lead 1mm/18AWG



SHEARS



An easy-handly shear, designed for the electronic.

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

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

310



308



296



298



301



304



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

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

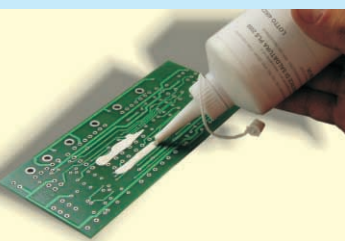
HIGH TEMP. TAPE 25mm x 33m

SOLDER MASKING PASTE

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

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

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



| | |
|------------------------------|--------------------|
| Curing at normal temperature | 40 to 60 min |
| Curing at 60°C | 15 to 25 min |
| Colour | white |
| Smell | light ammonia |
| Resistance Rs & Rv | $< 10^{10} \Omega$ |
| Shelf life at 22°C | 6 months |

7805.915

Solder masking paste - 250g squeeze bottle

7805.918

Solder masking paste - 5kg in plastic



SOLVENT CLEANING

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

Cleaning: by immersion or with brush
Composition: hydrocarbon solvent blend, aliphatic alcohol and methylal.
Flash point: -21°C (highly flammable)

7805.929

Electronic cleaning solvent - 1litre can

7805.930

Electronic cleaning solvent - 5litre can





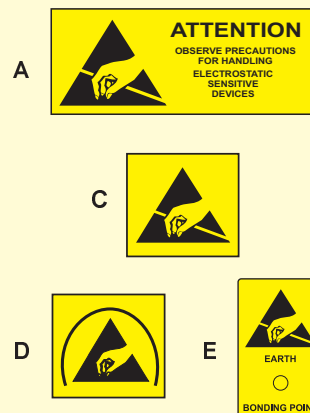
LABEL HOLDER

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.) |
| 7807.110 | 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 |

EPA RETRACTABLE BELT BARRIER

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

The belts are printed bilingual: English and German.

Wall mounted retractable belt head

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

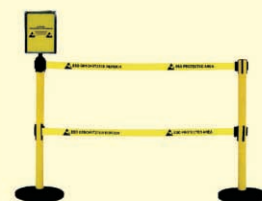
Belt barrier post

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

Sign holder

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

| | |
|-----------------|---|
| 7807.950 | Wall mounting retractable belt head, belt length 4m |
| 7807.952 | Belt barrier post, single bel, belt length 4m |
| 7807.954 | Belt barrier post, dual belt, belt length 2m |
| 7807.956 | Sign holder A4, for belt barrier post 7807.254 |
| 7807.957 | Sign holder A4, for belt barrier post 7807.252 |



STICKY MAT for clean rooms

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

7807.350

Multilayer Dissipative Sticky Mat with 30 layers
Dimensions: 660x1140mm



SILICON STICKY ROLLER FOR CONTAMINATION REMOVING



7913.151
7913.154
7913.156

7913.158
7913.160
7913.162
7913.170

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

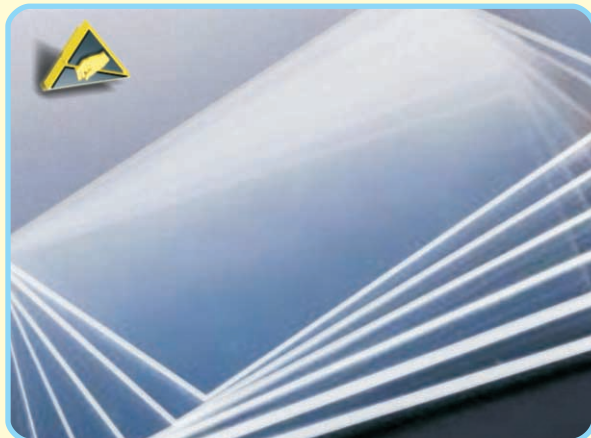
Single cleaning roller dim.: 150mm, with small handle
Single cleaning roller dim.: 300mm, with small handle
Single cleaning roller dim.: 500mm
with long handle for floor
Spare cleaning roller dim.: 150mm. no handle
Spare cleaning roller dim.: 300mm. no handle
Spare cleaning roller dim.: 500mm. no handle
DCR-PAD Block of 50 adhesive paper sheets
dim.: 240x333mm, 5 blocks per pad

SELF-ADHESIVE POLYESTER FILM

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

| | |
|------------------------------|--------------------------------------|
| Point to point resistance | 10 ⁶ to 10 ⁸ Ω |
| Dissipative Polyester film | 100μm thickness |
| Dissipative acrylic adhesive | 12μm thickness |
| Release Not ESD film | 23μm thickness |

7809.042 Self-adhesive polyester film 1000mm x 100m roll
Custom size on request



ESD ACRYLIC PANELS

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

Material: Acrylic
Permanent dissipative coating
Hardcoated surface, resistant to friction damage
Transparent
Machineable
Rs: 10⁶ to 10⁸Ω

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 |

HAND ESD VACUUM CLEANER

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

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

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

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

| | |
|---------------------|--------------------|
| Dimensions: | 31.5 x 12 x 18.5cm |
| Weight : | 2.2kg |
| Flexible pipe : | 2.5m |
| Power cord length : | 6m |
| Power supply: | 220V – 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

WASTE PAPER BIN

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

| | |
|------------------|--|
| 7804.406 | Waste paper bin, volume 17 litre, ext. dia. 300x330(H)mm |
| 7804.405 | Waste paper bin, volume 60 litre, ext. 360x360x650(H)mm |
| 7804.405C | Cover for waste paper bin 7804.405 |
| 7804.404 | Waste paper bin, volume 120 litre, ext. 400x400x780(H)mm |

Antistatic waste BAGS (package of 100pcs)

Made of antistatic polyethylene, 40 μ m thickness. Rs 10¹¹ Ω
Green colour, printed with black ESD logo

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



RING BINDER and WALLETS

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

Rs $10^5 \Omega$ (7804.399) – Rs 10¹¹ Ω (7804.400)

| | |
|-----------------|---|
| 7804.413 | A4 permanent antistatic Document Pocket with holes (100 pack) |
| 7804.414 | A4 Document Pocket with holes (100 pack) |
| 7804.420 | A3 Document Pocket with holes, landscape (100 pack) |
| 7804.423 | A3 Document Pocket with holes, portrait (100 pack) |
| 7804.399 | A4 conductive Ring Binder - 4 ring 35mm dia., black |
| 7804.400 | A4 dissipative Ring Binder - 4 ring 35mm dia., blue |



NEWBOX TOTE-BOX

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

Rs < 10⁶ Ω.

| CODE | MODEL | EXT.mm | INT.mm | Vol.lt |
|----------|-----------|-------------|-------------|--------|
| 7804.705 | NEWBOX 5 | 300x200x120 | 253x153x115 | 5 |
| 7804.690 | NEWBOX 10 | 400x300x120 | 353x253x115 | 10 |
| 7804.687 | NEWBOX 14 | 400x300x170 | 353x253x165 | 15 |
| 7804.688 | NEWBOX 20 | 400x300x220 | 353x253x215 | 20 |
| 7804.704 | NEWBOX 25 | 400x300x270 | 353x253x265 | 25 |
| 7804.689 | NEWBOX 31 | 400x300x320 | 353x253x317 | 30 |
| 7804.692 | NEWBOX 15 | 600x400x075 | 553x353x070 | 14 |
| 7804.694 | NEWBOX 24 | 600x400x120 | 553x353x115 | 23 |
| 7804.693 | NEWBOX 33 | 600x400x150 | 553x353x145 | 29 |
| 7804.698 | NEWBOX 34 | 600x400x170 | 553x353x165 | 33 |
| 7804.699 | NEWBOX 42 | 600x400x220 | 553x353x215 | 42 |
| 7804.696 | NEWBOX 50 | 600x400x236 | 553x353x231 | 45 |
| 7804.695 | NEWBOX 55 | 600x400x280 | 553x353x275 | 54 |
| 7804.697 | NEWBOX 70 | 600x400x336 | 553x353x332 | 65 |
| 7804.685 | NEWBOX 80 | 600x400x420 | 553x353x415 | 80 |



ROLLBOX



7804.703
7804.691
7804.700
7804.686

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

7804.923

SPRING LABEL HOLDER

7804.701
7804.702

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

7806.300
7806.306

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

7806.200

FLAT DIVIDER - Conductive fibreboard 350X550X5mm
for 600x400 Newbox

7806.202

FLAT DIVIDER - Conductive fibreboard 350X250X5mm
for 300x400 Newbox

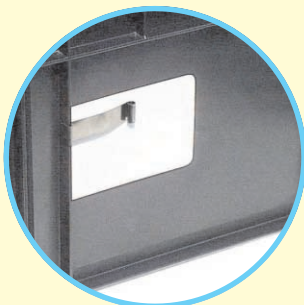
7806.201

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

7806.203

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

7804.923 Label Holder



Logo Application over NEWBOX



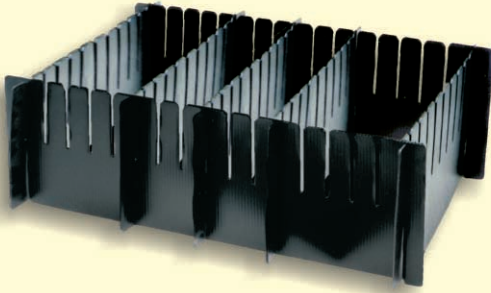
7804.931

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

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

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

DIVIPRINT - LABEPLAST dividers

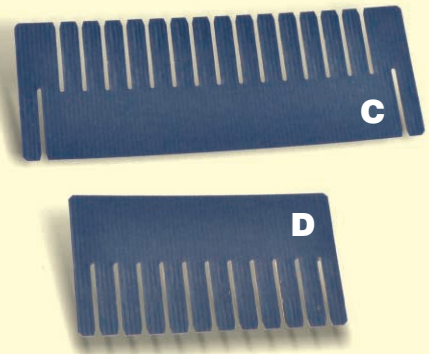


Made from LABEPLAST(extruded conductive polypropylene) sheet, the dividers can be used within CARTONBOX or NEWBOX containers. Other sizes are available on request.

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

DIVIPRINT - in conductive corrugated board

| | | |
|----------|----------------|---|
| 7806.211 | Type C DIVIDER | length 555 heigth100 pitch 19, 28 slots |
| 7806.215 | Type D DIVIDER | length 350 heigth100 pitch 19, 17 slots |
| 7806.217 | Type C DIVIDER | length 552 heigth200 pitch 31 17 slots |
| 7806.216 | Type D DIVIDER | length 350 heigth200 pitch 30, 11 slots |
| 7806.219 | Type C DIVIDER | length 552 heigth300 pitch 31, 17 slots |
| 7806.218 | Type D DIVIDER | length 350 heigth300 pitch 30, 11 slots |

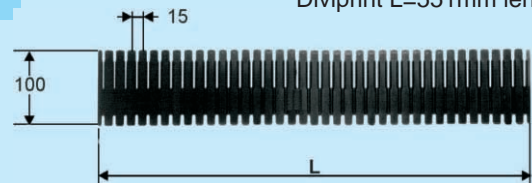


DIVIPRINT - plastic dividers

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

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

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



NEWBOX CASE

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

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



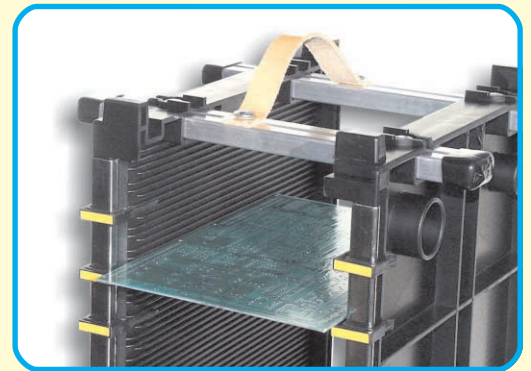


LABERACK PCBs handling

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.

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



7804.007
7804.017

Sidewall in black dissipative polypropylene +70°C
 Intermediate wall in black dissipative polypropylene +70°C

7804.002

Aluminium connecting rail(length cut to max 3m)

7804.021
7804.025
7804.040
7804.041

Handle for transport (rail fixing)
 Bag of 40 spare screw and bolts
 Clips for sidewall (with labels) - package of 100
 Clips for intermediate wall (with labels) - package of 100

LABEFIX pcb assembly

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

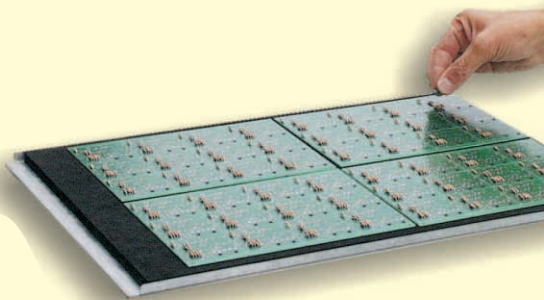
Material: - zinc plated material base
 - conduttivo polyethylene closed cell
 (cross linked foam density ISO 845
 60Kg/m³ thickness 7mm)
 Weight: 1Kg

Weight:

7610.100

7610.110D

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

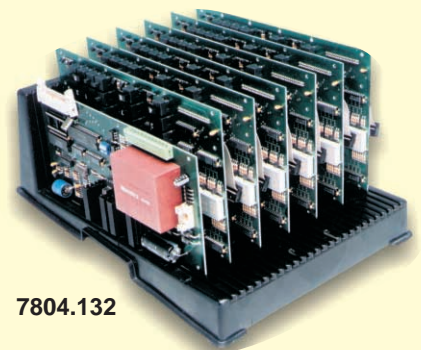
Conductive L-shaped LABETRAY
 dimensions : 208x272x93mm

7804.132

Conductive L-shaped LABETRAY
 dimensions : 355x268x128mm

7804.134

Conductive flat LABETRAY - 25 slots
 dimensions : 490x180x50mm



7804.132



7804.134

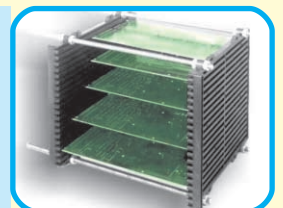
An effective alternative to LABETRAY is the DESK HOLDER 7804.120 . It is possible to make an adjustable rack by assembling 2 Desk Holders with 4 threaded bars.

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

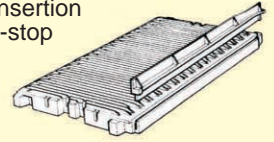
Material: Static dissipative polypropylene, $R_s 10^5 \div 10^8 \Omega$
 Distance between channel centres: 6mm
 Maximum PCB thickness: 3.8mm
 Channel depth: 3mm
 Number of storage channels: 44

Side wall
 dimensions: 300 x 170 x 21 mm

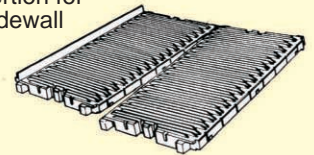
Connecting rail
 section: 37 x 9 mm

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)



LABESERT 10

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

7804.110

LABESERT 10 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

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

Material: black conductive polystyrene

Rs: $<10^5 \Omega$

Temperature range: from 0 to +55 °C

Number of slots: 32

Distance between slot centres: 10mm

Maximum thickness of the board: 2.3mm

Depth of the slots: 2.3mm

7804.751 DEPOPRINT Sidewall 209mm (H)

7804.760 Aluminium Connecting Rail 95x553mm

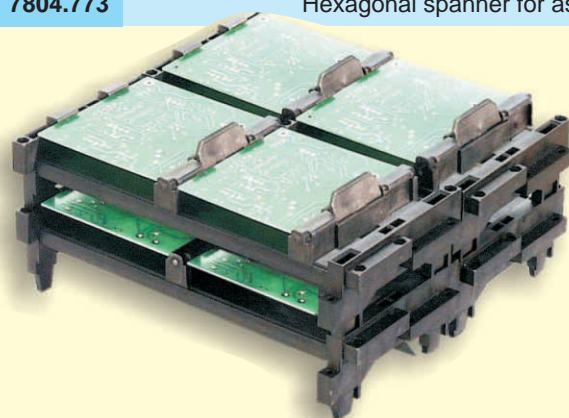
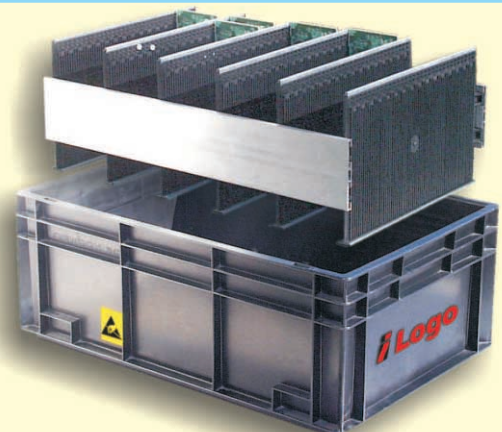
7804.762 Aluminium Connecting Rail 95x250mm

7804.765 Aluminium Connecting Rail 95mm (H)

7804.759 Insertion Stop

7804.773 Hexagonal spanner for assembling sidewall

DEPOPRINT



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.

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

SMD SPOOL RACKS

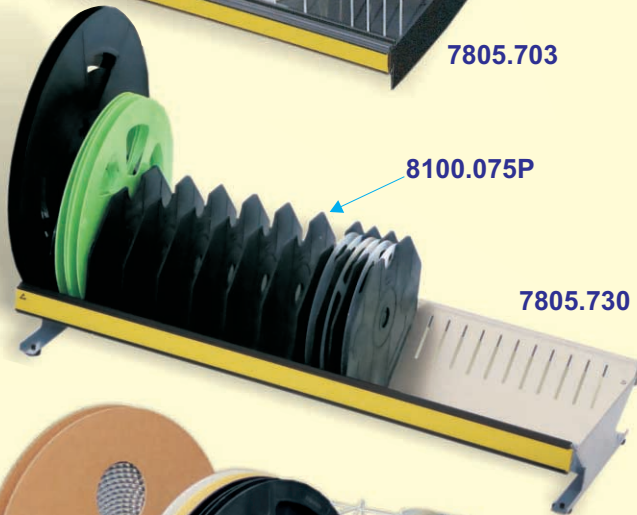


7805.692



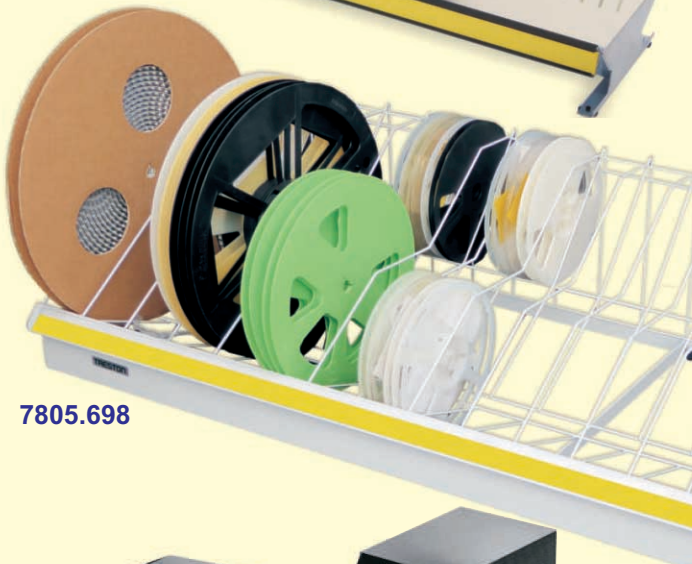
7805.704

7805.703

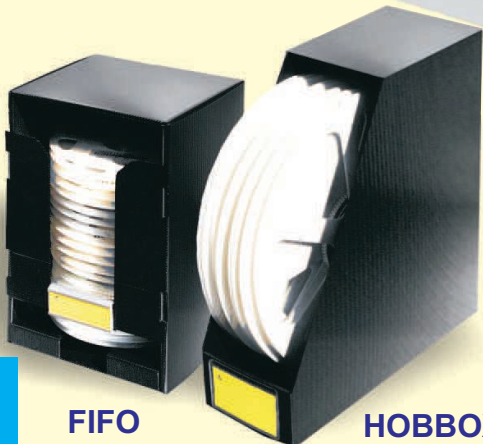


8100.075P

7805.730



7805.698



FIFO

HOBBOX

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

7805.696

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 395 x 250 x 110(H)mm
Movable wire dividers (10 pcs included, 20 pcs capacity)
moulded in conductive polypropylene black colour

7805.704

Movable wire divider for 7805.703

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

7805.730

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

7805.732

Zinc plated spool rack,
180-330mm reels, 49 slots, length 1000mm

8100.075P

Movable plastic divider for 7805.730 - 7805.732

7805.733

Zinc plated spool rack,
330mm reels, 49 slots, length 1000mm

7805.734

Zinc plated spool rack,
380mm reels, 49 slots, length 1000mm

8100.033

Movable metallic divider for 7805.733 - 7805.734

7805.698

TRESTON rack for spools Ø 180 / 220 / 330 / 380mm
Dim.960x426x254(H)mm
15 wire compartments of 60mm width

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

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

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

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

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

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

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

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

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

Conductive BOXES

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

7804.460
7804.462
7804.464
7804.466
7804.468
7804.470

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

7804.471
7804.472
7804.474
7804.476
7804.478
7804.480
7804.482

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

7805.502
7805.504
7805.508

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

7804.492
7804.496

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

7805.500
7805.499

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



7805.502



7805.500

7805.499

7805.512

int.183x108x30mm



7804.496

7804.492

Conductive BOXES with hinges and metal fasteners



7805.522

int.288x156x16mm

7805.523

int.288x156x38mm

7805.525

with 54 compartments
each 28x27x15mm

CASES

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

8500.200

internal dimensions 170x130x37mm

8500.210

internal dimensions 240x170x42mm

8500.220

internal dimensions 270x185x76mm

8500.240

internal dimensions 375x265x80mm

8500.201

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

8500.211

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

8500.221

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

8500.241

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





CAROUSEL system

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

They can be supplied with diameter 450 or 600mm and are available in black dissipative material (Rsup 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 |

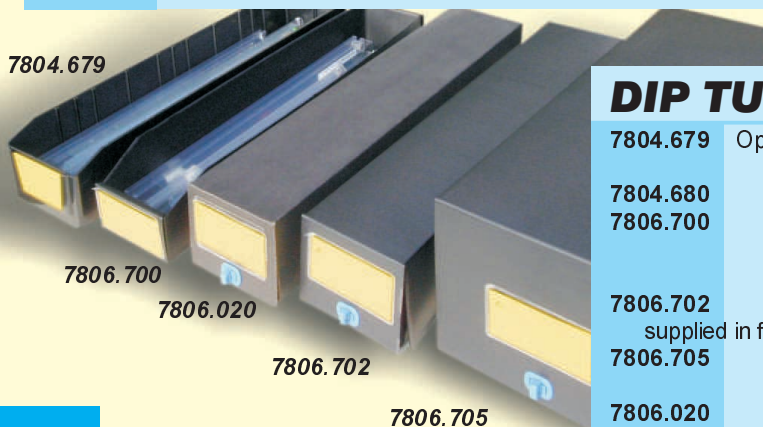
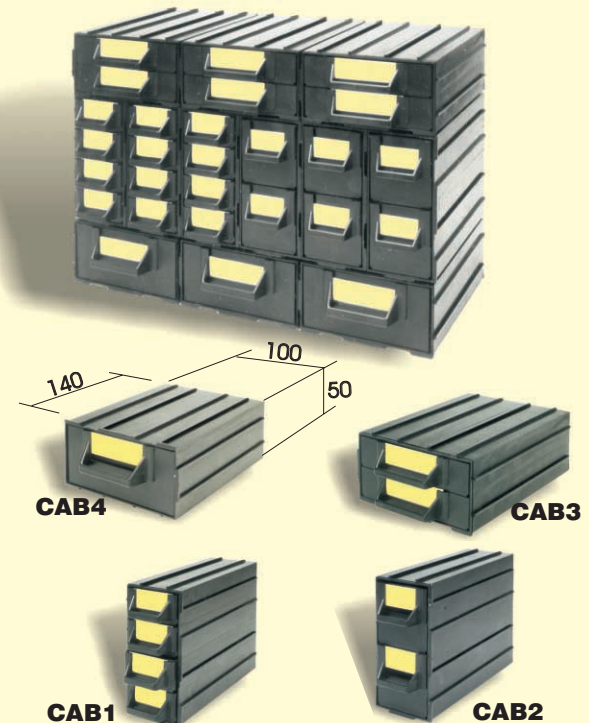
CAB - cabinets

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) |



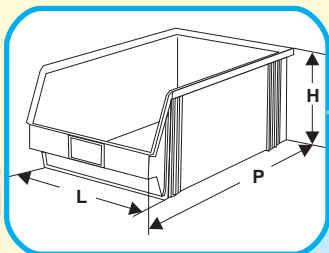
DIP TUBES BIN BOXES

| | |
|----------|--|
| 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

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

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

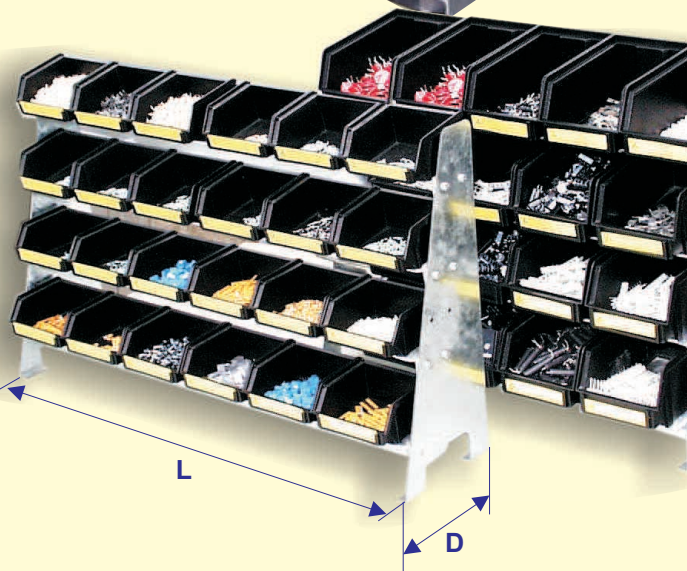
| | | |
|-----------------|----------------------------|---------|
| 9993.956 | Yellow label for FUTURA 5 | 15x54mm |
| 9993.975 | Yellow label for FUTURA 4 | 25x74mm |
| 9993.962 | Yellow label for FUTURA 3Z | 31x96mm |

VISTAFIX - assembly stand

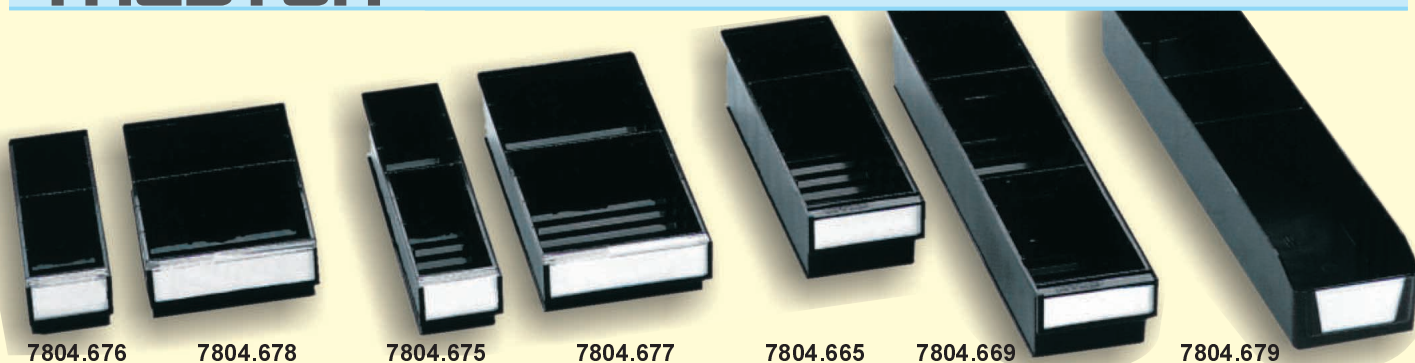
VISTAFIX zinc plated assembly stands are supplied complete of conductive TECOFIX bins.

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

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



TRESTON Bins



7804.676

7804.678

7804.675

7804.677

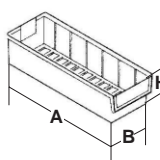
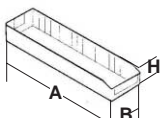
7804.665

7804.669

7804.679

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

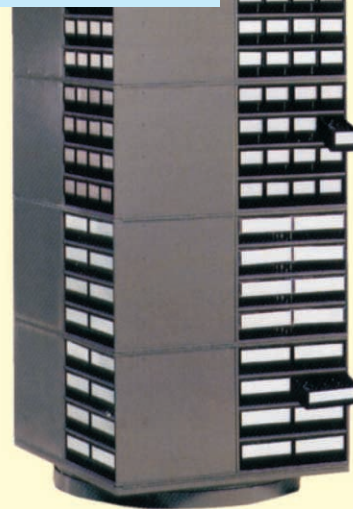
The storage bins have a corrugated base making it easier to pick very small items.

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

TRESTON STORAGE CARTS and TURNTABLE ASSEMBLIES



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

7804.651
(BT-550)

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

7804.648
(12-550)

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

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

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

TRESTON Cabinets



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

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

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

TRESTON Moveable benches



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



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



8104.730(SAP507) ESD Moveable bench
H: 650-900mm Worktop 500x700mm
4 castors Ø 100mm, 2 with brakes
Load capacity 150kg
8104.731(SAP710) ESD Moveable bench
H: 650-900mm
Worktop 700x1000mm

Storage cabinets

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

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

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



7805.305

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



7808.686



7808.688

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

SNAPBOXSET



Snapbox >>> go to page 34

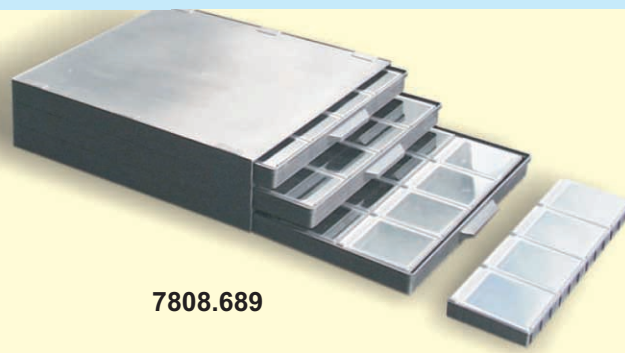
7808.687
Storage cabinet with 3 drawers H22
Black ESD
With 216 SNAPBOX2 (3 x 72)
ESD transparent cover

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)
ESD transparent cover

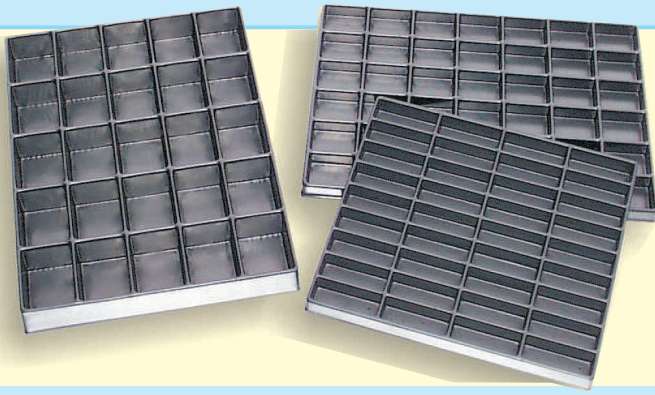


7808.687



7808.689

Storage cabinets



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

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

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

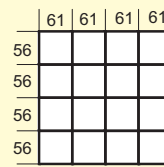
Inserts for drawers 40mm height (storage cabinet mod. 40)

They also can be used in drawers 62mm height

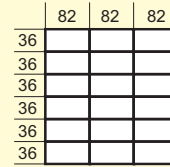
- 7805.362 3 compartments 80x332 mm
- 7805.364 6 compartments 80x165 mm
- 7805.366 9 compartments 78x108 mm
- 7805.368 12 compartments 78x78 mm
- 7805.370 16 compartments 57x81 mm
- 7805.372 + 1 compartment 92x50 mm
- 7805.374 + 1 compartment 188x50 mm
- 7805.376 + 1 compartment 237x50 mm
- 7805.378 25 compartments 46x63 mm
- 7805.380 30 compartments 44x50 mm

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

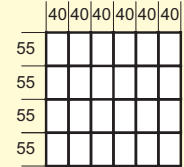
- 7805.440 3 compartments 116x160 mm
- 7805.442 6 compartments 75x160 mm
- 7805.444 9 compartments 75x105 mm
- 7805.445 12 compartments 71x75 mm



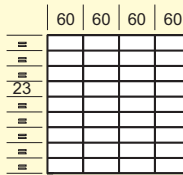
7805.252



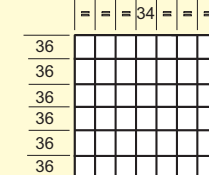
7805.254



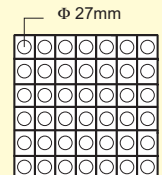
7805.256



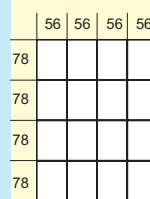
7805.258



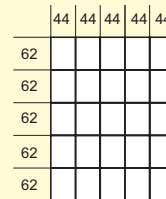
7805.260



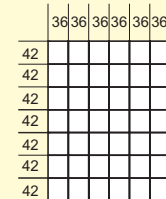
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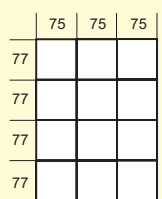
7805.180



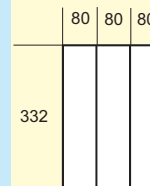
7805.184



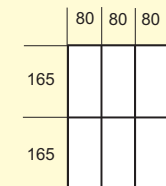
7805.188



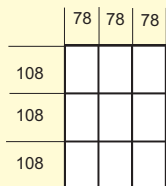
7805.179



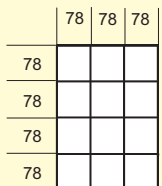
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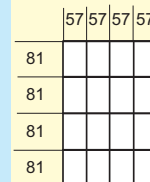
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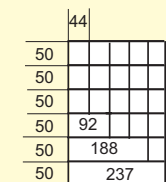
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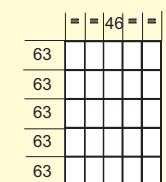
7805.368



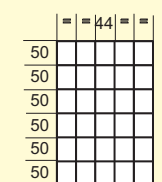
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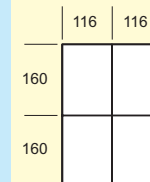
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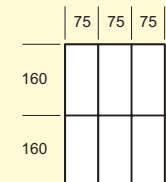
7805.374



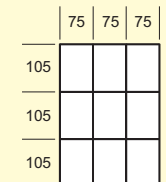
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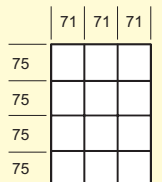
7805.440



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

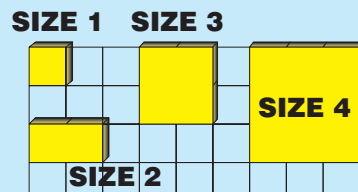


SNAPBOX

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

- 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

PORTABLE RACK

in chrome-plated steel, for 8 or 10 trays

7805.114 PORTABLE RACK - chrome-plated, outer dim. 190x252x610(H)mm
for 10 trays 7805.602

7805.602 TRAY for rack 7805.114, outer dimens. 260x165x45(H)mm

7805.116 PORTABLE RACK - chrome-plated, outer dim. 190x252x610(H)mm
for 8 trays 7805.603

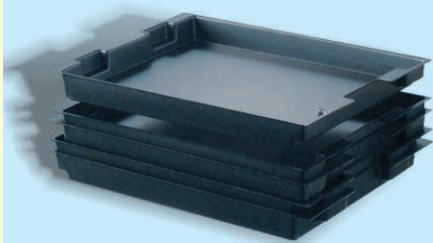
7805.603 TRAY for rack 7805.116, outer dimens. 260x165x70(H)mm



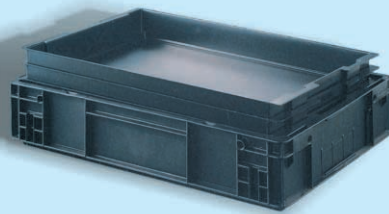
INSERT TRAY FOR NEWBOX

7805.550 INSERT TRAY for NEWBOX 300x400
inside dim. 310x250x20(H)mm

7805.558 INSERT TRAY for NEWBOX 600x400
inside dim. 520x345x60(H)mm



7805.550

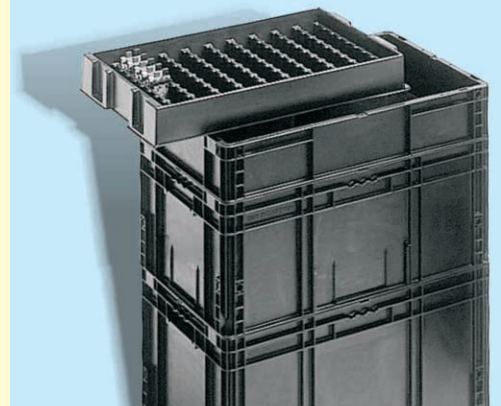


7805.558

SPECIAL TRAYS

7805.55T...

SPECIAL INSERT TRAYS on request.
Many standard models available



TRAYS

7805.580 Conductive tray, base area 175x100mm, top edge 250x125mm,
height inside 34mm

7805.600 Conductive tray, base area 190x120mm, height inside 50mm

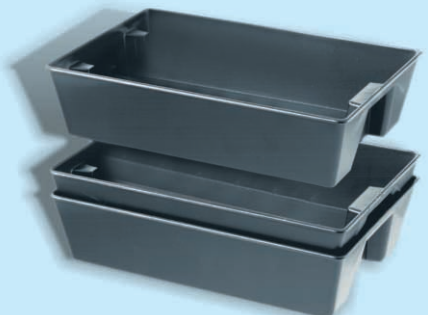
7805.606 Conductive tray, base area 210x150mm, top edge 260x200mm,
height inside 40mm



7805.580



7805.606



7805.600

DISSIPATIVE FOOTWEARS

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 $1G\Omega$. 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.**



CLOG

White colour
Non slip polyurethane sole
"MICROSAFE" Synthetic upper shoe
 R_G from 1×10^6 to $3.5 \times 10^7 \Omega$

8901.934 - 8901.947

sizes from 34 to 47

M-CLOG

White colour
Non slip polyurethane sole
"MICROSAFE" Synthetic upper shoe
 R_G from 1×10^6 to $3.5 \times 10^7 \Omega$

8915.935 - 8915.947

White colour, sizes from 35 to 47

8915.035 - 8915.047

Black colour, sizes from 35 to 47

6807.535 - 6807.547

Spare innersole, 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

6807.535 - 6807.547

Spare innersole, 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

6807.420 - 6807.433

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

6807.535 - 6807.547

Spare innersole, 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
6807.420 - 6807.432

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

HOSPITAL

High comfort, high style
 Black colour
 Shock absorbent, anti-slip polyurethane sole, no metallic parts.
 TEXFIBER® upper shoe
 R_G from 1×10^6 to $3.5 \times 10^7 \Omega$

8925.937-8925.946

sizes from 37 to 46



CLASS

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 $3.5 \times 10^7 \Omega$

8926.037-8926.046

sizes from 37 to 46

WORKER SAFETY SHOE WITH TOECAP

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

8908.036-8908.047

sizes from 36 to 47



EN20345 S2



EN20345 S1

SUMMER SAFETY SHOE WITH TOECAP

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

8913.836-8913.847

sizes from 36 to 47

T-SHIRTS & POLO-SHIRTS (unisex)

Colour:
Symbol:
Fabric:
Weight:
Charge decay

light grey
yellow ESD
96% cotton, 4% carbon fibre
140g/m²
< 2 Sec



T-Shirt
7807.696 size XS
7807.698 S
7807.700 M
7807.702 L
7807.704 XL
7807.705 XXL

T-Shirt with breast pocket
7807.718 size S
7807.720 M
7807.722 L
7807.724 XL
7807.726 XXL



Polo-Shirt
7807.708 size S
7807.710 M
7807.712 L
7807.714 XL
7807.716 XXL

PROTECTIVE CLOTHING

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

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

- Lightweight (120g/m²)

- Washable without losing conductive properties.

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

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). |

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

| | | |
|----------|---|-------------|
| 7807.810 | Dissipative green NITRILE gloves, (100 pcs) | small size |
| 7807.811 | Dissipative green NITRILE gloves, (100 pcs) | Medium size |
| 7807.812 | Dissipative green NITRILE gloves, (100 pcs) | Large size |
| 7807.813 | Dissipative green NITRILE gloves, (100 pcs) | XL size |

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

| | | |
|----------|---------------------------|-------------|
| 7804.997 | Dissipative nylon gloves, | small size |
| 7804.998 | Dissipative nylon gloves, | medium size |
| 7804.999 | Dissipative nylon gloves, | large size |
| 7805.000 | Dissipative nylon gloves, | XL size |

DISSIPATIVE FINGER COTS

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

| | |
|----------|--|
| 7805.013 | Dissipative finger cots size M, 1440 pcs/packing |
| 7805.014 | Dissipative finger cots size M, 1440 pcs/packing |
| 7805.015 | Dissipative finger cots size L, 1440 pcs/packing |





7807.901

Dissipative BADGE HOLDER

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

Maximum size of the badge is 89 x 55mm.

7807.903

Soft Badge holder with clip

7807.901

Rigid Badge holder with clip

7807.902

Rigid Badge holder with necklace

DISPOSABLE COATS

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

7807.658

Disposable coat ESD, white colour, size M

7807.659

Disposable coat ESD, white colour, size L

7807.660

Disposable coat ESD, white colour, size XL

7807.654

Disposable coat NOT-ESD, white colour, size L

7807.655

Disposable coat NOT-ESD, white colour, size XL



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

ESD SAFETY WORKING SOCKS

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

8908.002

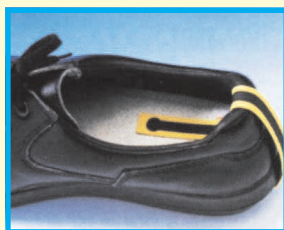
ESD Socks , unisex, gray, sizes 35-38

8908.003

ESD Socks , unisex, gray, sizes 39-42

8908.004

ESD Socks , unisex, gray, sizes 43-46



HEEL AND TOE GROUNDERS

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

Floors with a resistance to ground between 1 and 35MΩ are preferred.

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

7804.200

Disposable Heel grounder (pack of 100)

7804.201

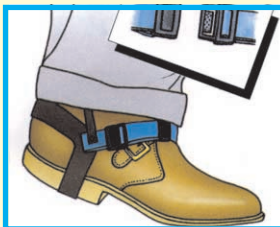
Disposable Heel grounder Dispenser

7804.202

Heel grounder with 2 MΩ resistance

7804.203

Toe grounder with 2 MΩ resistance



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

< 10⁹ Ω

7807.910

Beauty-case per aree EPA





7804.140
black
semigloss

7804.148
grey
matt

KOSTAPLAN MATS

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

KOSTAPLAN 1 layer , conductive BLACK

7804.140
7804.139
7804.145

60cmx2mmx10meters roll
90cmx2mmx10meters roll
120cmx2mmx10meters roll

KOSTAPLAN 2 layers , dissipative GRAY / conductive BLACK

7804.148
7804.149
7804.150

60cmx2mmx10meters roll
90cmx2mmx10meters roll
120cmx2mmx10meters roll



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 2 layers dissipative COLOURED / conductive BLACK

7804.851 GRAY

60cmx2mmx10meters roll

7804.852 GRAY

90cmx2mmx10meters roll

7804.152 GRAY

122cmx2mmx10meters roll

7804.853 GRAY

150cmx2mmx10meters roll

7804.153 SKY-BLUE

122cmx2mmx10meters roll

7804.154 BEIGE

122cmx2mmx10meters roll

Computerized Cutting

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



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

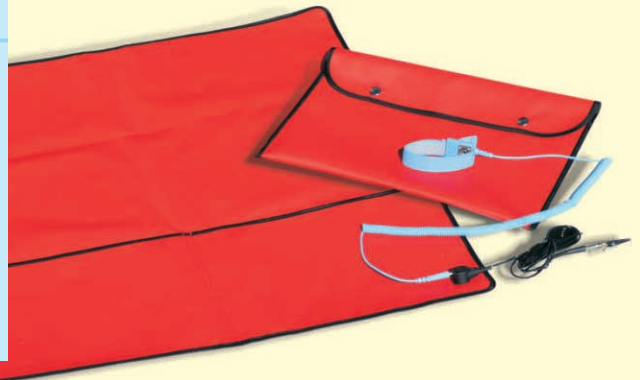
7804.833

Two layer LABESTAT mat, SKY-BLUE / BLACK

FIELD SERVICE KIT

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

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



7804.195

PORTABLE FIELD SERVICE KIT



ELECSTAT-109 ESD CLEANER

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

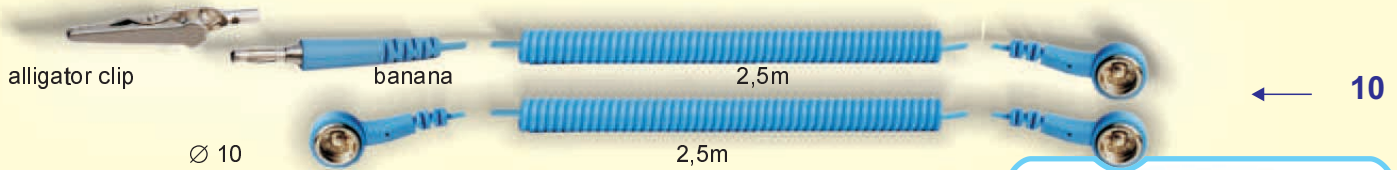
$R_s < 10^{11} \Omega$

7805.895
7805.896

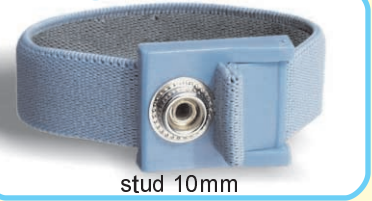
Bottle, 0.75 litre spray
5 litre Can/e

WRISTSTRAP

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



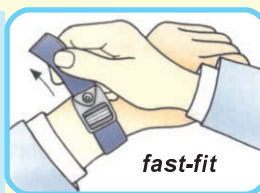
- 7804.190 Adjustable wrist strap, blue colour, with coiled cord banana/socket, alligator clip
 7804.193 Adjustable wrist strap, blue colour, with coiled cord socket/socket
 6604.804 Spare Wrist-band
 6604.803 Spare coiled cord, banana/socket
 7804.885 Spare coiled cord, socket/socket



stud 10mm



- 7804.192 ANTI-ALLERGENIC wrist strap with coiled cord
 6604.805 Spare Wrist-band
 6604.803 Spare coiled cord



fast-fit



quick release



stud 10mm



- 7804.188 Metal wrist strap, with coiled cord
 6604.808 Spare Wrist-band
 6604.809 Spare coiled cord



stud 4mm

FLOORS

DISSIPATIVE FLOOR COATING



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

First treatment:

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

Ordinary Maintenance:

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

Maintenance with spray:

-Dilute the coat in water at 30% ratio, spray it on the floor and then polish by a one-brush machine, provided with a suitable scotch-bride. (Yield: 1lt. for approx. 100m²) Rs: < 10¹¹ Ω

7805.876

LIQUID COAT, 5 Kilos unit

DETERGENT

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

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

7805.873

DETERGENT, 5 Kilos unit

STRIPPER

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

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

7805.870

FLOOR STRIPPER, 5 Kilos unit

ELECSTAT-112 DISSIPATIVE FLOOR DETERGENT

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

Rs: < 10¹¹ Ω

Biodegradability: over 90%

Dlution in water: 10 to 20%:

Application : for manual or mechanical cleaning.

7805.890

Dissipative agent ELECSTAT-112 5kg plastic can



DISSIPATIVE FLOOR PAINT

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

7805.854

ELECTROGUARD 40, SINGLE PACK water based static dissipative acrylic paint, 5 litre unit
Coverage: 10m²/litre per coat (we recommend 2 coats)
Typical resistance to ground R_G 10⁶Ω ÷ 10⁸Ω

7805.856

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



FLOOR MARKING TAPE

7807.172

PVC adhesive tape, ESD Protected Area floor marking

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

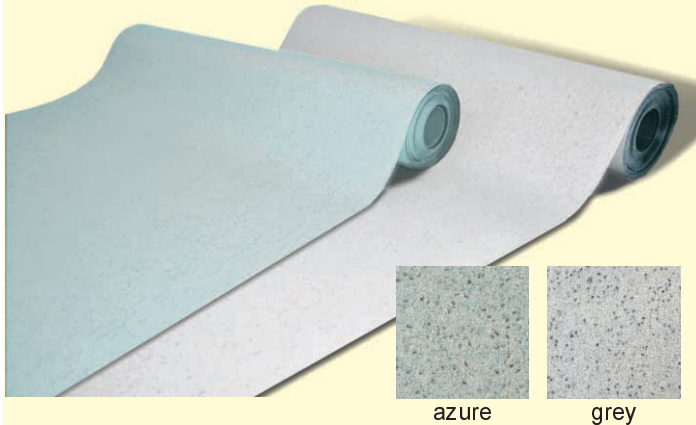
FLOORS

VINYLAB

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

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

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



azure

grey

Mat

- 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)
- Use conductive adhesive to apply the rubber mat.
- Water dispersion adhesive type ECO V4, easy to apply, is mostly used on absorbent and moisture-stable subfloors.
- Detailed installation procedures available on demand.

7805.820
7805.818

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

Interlocking floor tile

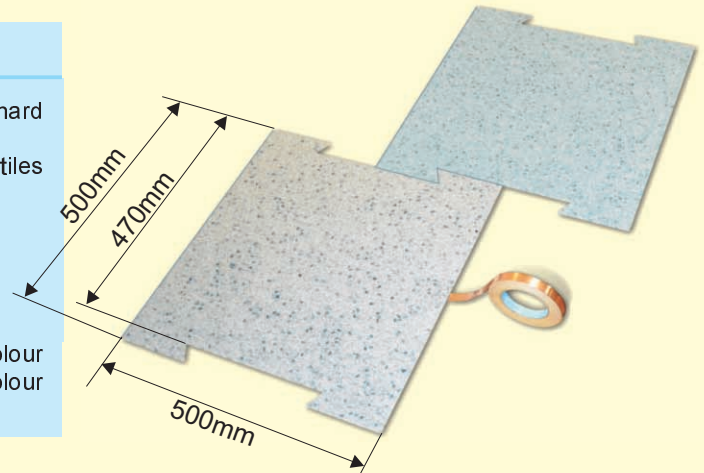
The tiles are clicked together quickly and can be dry laid over any hard and flat base even on damaged, damp or contaminated surfaces.

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

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

7805.800
7805.801

Interlocking tile, azure colour
Interlocking tile, grey colour



ECO V4 glue for mats, one component

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

7805.840

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

COPPER EARTHING TAPE

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

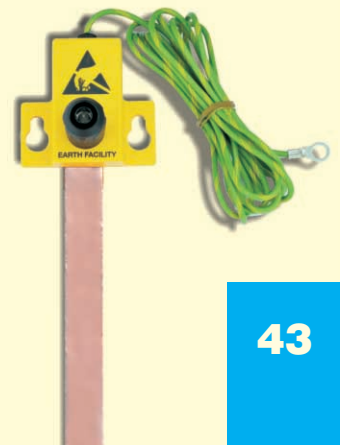
7805.828 COPPER tape 10mm wide
7805.830 COPPER tape 15mm wide



FLOOR GROUNDING KIT AND TEST POINT

7805.834

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





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.

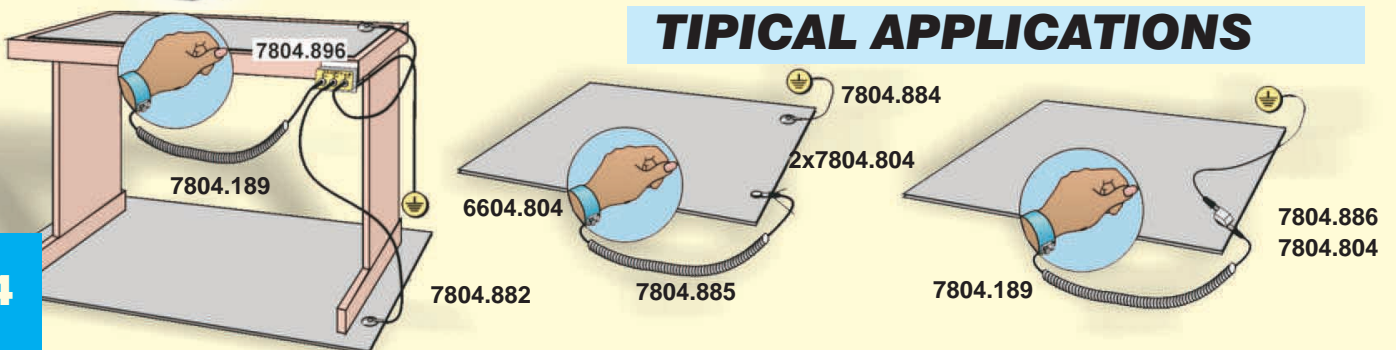
- | | | |
|-----------------|---------|---------------------------------|
| 7804.896 | EBP BOX | three 4mm shrouded plug sockets |
| 7804.898 | EBP BAR | three 4mm shrouded plug sockets |
| 7804.899 | EBP BAR | three studs Φ 10mm |



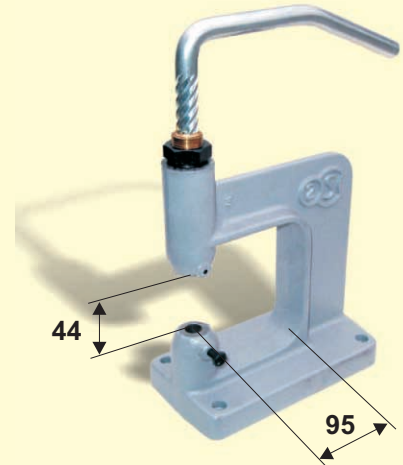
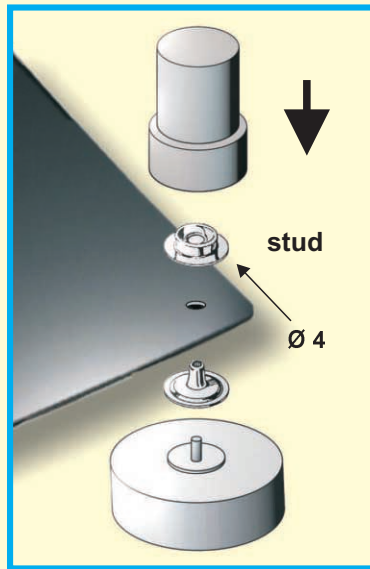
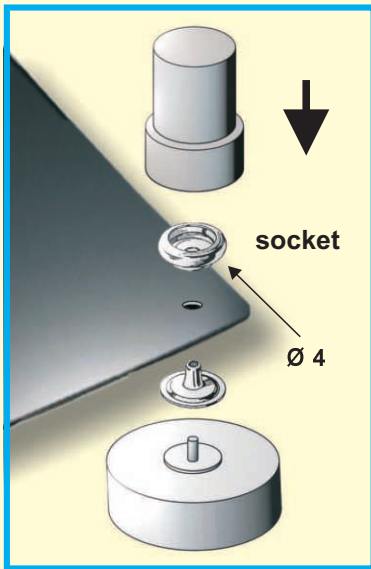
GROUNDING CORDS

| | | | | |
|-----------------|--|--|-------|--|
| 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 |
| 6604.803 |  female 10mm |  2,5m | R=1MΩ |  banana alligator-clip |
| 7804.885 |  female 10mm |  3m | R=1MΩ |  female 10mm |
| 7804.886 |  female 10mm | 3m | R=1MΩ |  eyelet Φ 5,3x8mm |

TYPICAL APPLICATIONS



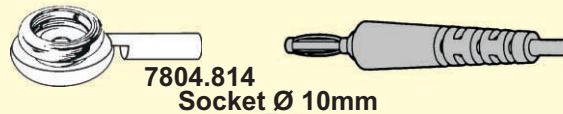
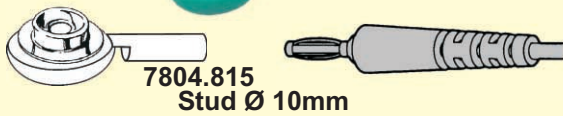
GROUNDING ACCESSORIES



7804.803 Ø 10mm socket (2 parts)
 7804.809 Punch and Anvil for socket F
 7804.804 Ø 10mm 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



7804.818



Stud

7804.819



Stud
 Socket

7804.796



Socket

7804.797



Stud

7804.816



Socket

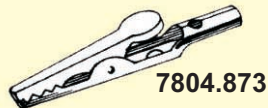
7804.817



Socket



7804.872



7804.873

7804.870

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

7804 815

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

7804 814

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

7804 818

ADAPTOR from socket Ø 10mm
 to stud Ø 10mm

7804 819

ADAPTOR from stud Ø 10mm
 to socket Ø 10mm

7804 796

Clinch SNAP
 male, Ø 10mm

7804 797

Clinch SNAP
 female, Ø 10mm

7804 816

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

7804 817

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

7804 872

BANANA Ø 4mm

7804 873

Alligator-clip for banana plug Ø 4mm

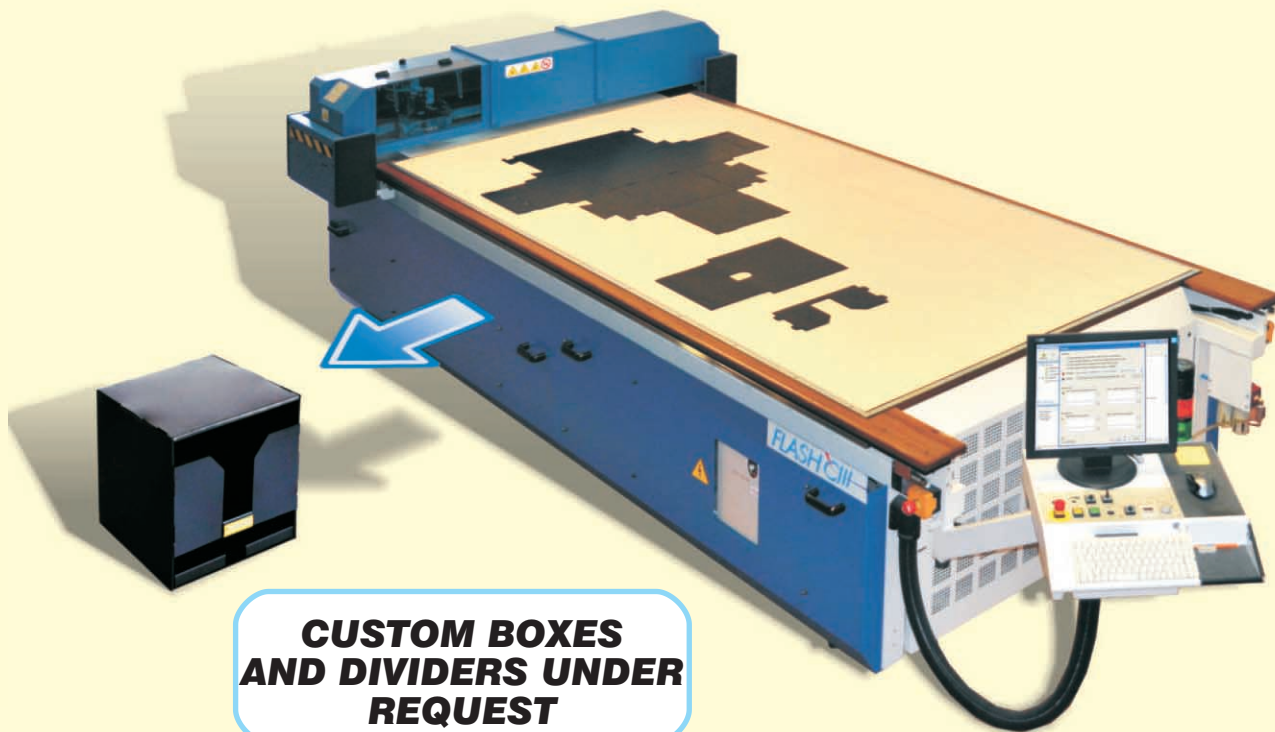
LABEPLAST Conductive Fluted Polypropylene

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

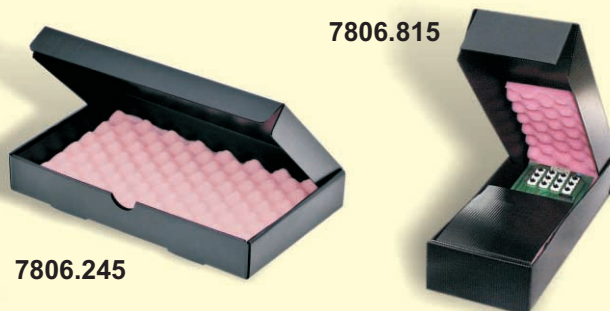
Rs: $\leq 10^5 \Omega$
 Rv: $\leq 10^5 \Omega$
 Color: black

7806.166
 7806.169
 7806.156

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



**CUSTOM BOXES
 AND DIVIDERS UNDER
 REQUEST**



7806.815

LABBOX-S
 Box with antistatic profiled foam
 ext. 350x145x70mm

7806.245

LABBOX-S
 Box with antistatic profiled foam
 ext. 400x230x60mm

7806.760
 7806.763
 7806.766
 7806.720
 7806.724
 7806.725

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

Fifo



>>> go to page 26

Diviprint



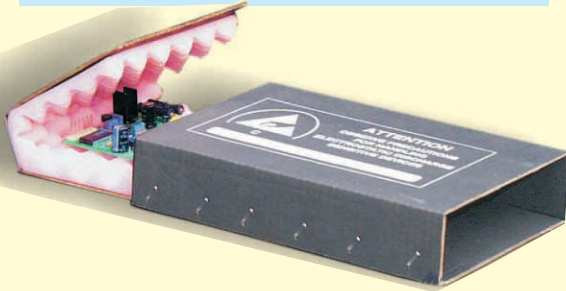
>>> go to page 23

ESD CORRUGATED BOARD

REUSABLE, STURDY CARTONS MADE FROM
CONDUCTIVE CORRUGATED BOARD
R_{sp} ≤ 1x10⁵ Ω

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

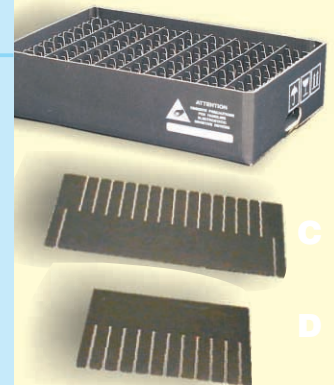
Designed to ship SIMM or DIMM modules, the containers are normally assembled with internal antistatic foams. A hard type on the bottom, a middle foam with the cells, and a soft cushioning foam on the top.

| | | |
|----------|------------------------------------|---|
| 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 |



CARTONBOX

| | | |
|----------|-----------------|--|
| 7806.220 | CARTONBOX 30 | int.352x560x130(H)mm without cover, without dividers |
| 7806.226 | CARTONBOX 50 | int.352x560x210(H)mm without cover, without dividers |
| 7806.232 | CARTONBOX 70 | int.352x560x310(H)mm without cover, without dividers |
| 8718.091 | CARTONBOX cover | |
| 7806.211 | Type C DIVIDER | length 555 height100 pitch 19, 28 slots (x CARTONBOX 30) |
| 7806.215 | Type D DIVIDER | length 350 height100 pitch 19, 17 slots (x CARTONBOX 30) |
| 7806.217 | Type C DIVIDER | length 552 height200 pitch 31 17 slots (x CARTONBOX 50) |
| 7806.216 | Type D DIVIDER | length 350 height200 pitch 30, 11 slots (x CARTONBOX 50) |
| 7806.219 | Type C DIVIDER | length 552 height300 pitch 31, 17 slots (x CARTONBOX 70) |
| 7806.218 | Type D DIVIDER | length 350 height300 pitch 30, 11 slots (x CARTONBOX 70) |



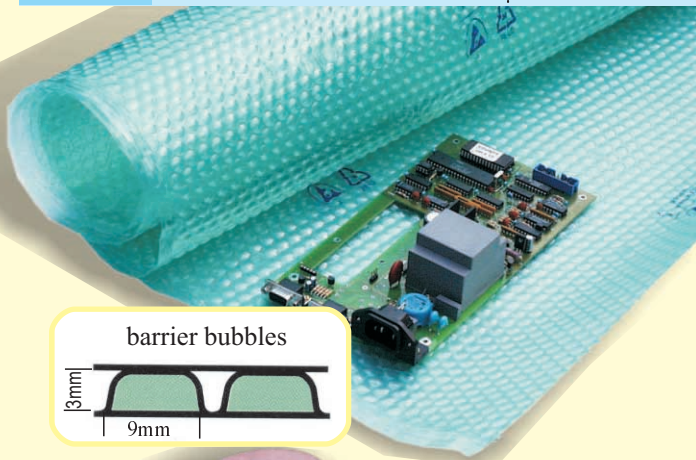
PACKING TAPE

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



POLYETHYLENE TUBING

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



GREEN POLY ANTISTATIC BUBBLE PACK

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

Electrostatic decay: < 2 sec
 Rs: < 10¹¹ 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/m³, Rs < 10¹² 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/m³, Rs < 10⁶ 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/m³, Rs < 10⁵ 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/m³, Rs < 10⁶ Ω

7804.156

1m x 1.78m sheet, thickness 2.5mm

7804.158

1m x 1.78m sheet, thickness 7.5mm

BUSTE shielding (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") | 7804.280 | 200 x 300 mm (8" x 12") | 7804.312 | 450 x 680 mm (18" x 27") |
| 7804.270 | 100 x 150 mm (4" x 6") | 7804.284 | 250 x 300 mm (10" x 12") | ZIPLOCK (zippered recloseable bags) | |
| 7804.272 | 125 x 200 mm (5" x 8") | 7804.285 | 250 x 350 mm (10" x 14") | 7804.290 | 100 x 150 mm (4" x 6") |
| 7804.274 | 150 x 200 mm (6" x 8") | 7804.286 | 300 x 400 mm (12" x 16") | 7804.296 | 150 x 250 mm (6" x 10") |
| 7804.276 | 150 x 250 mm (6" x 10") | 7804.287 | 400 x 500 mm (16" x 20") | 7804.304 | 250 x 300 mm (10" x 12") |
| 7804.278 | 200 x 250 mm (8" x 10") | 7804.288 | 450 x 450 mm (18" x 18") | 7804.306 | 300 x 400 mm (12" x 16") |

Conductive BAGS

LABESTAT C75

(package of 100pcs)

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

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

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



Permanent Dissipative BAGS

LABESTAT A100

(package of 100pcs)

Material:

multilayer polyethylene, green colour
amine-free, heat sealable, recyclable
ESD and Recycle logos, production batch
100µm
< 10¹¹Ω

Print:
Thickness
Rs

| | | | | | |
|-----------------|--|-----------------|--------------------------|-----------------|--------------------------|
| 7804.239 | opening x depth 76 x 127 mm (3" x 5") | 7804.247 | 150 x 300 mm (6" x 12") | 7804.257 | 300 x 350 mm (12" x 14") |
| 7804.240 | 100 x 150 mm (4" x 6") | 7804.245 | 150 x 350 mm (6" x 14") | 7804.258 | 300 x 400 mm (12" x 16") |
| 7804.242 | 100 x 200 mm (4" x 8") | 7804.248 | 200 x 250 mm (8" x 10") | 7804.260 | 400 x 500 mm (16" x 20") |
| 7804.237 | 100 x 460 mm (4" x 18") | 7804.250 | 200 x 300 mm (8" x 12") | 7804.262 | 400 x 600 mm (16" x 24") |
| 7804.244 | 150 x 200 mm (6" x 8") | 7804.252 | 200 x 350 mm (8" x 14") | 7804.267 | 450 x 550 mm (18" x 22") |
| 7804.246 | 150 x 250 mm (6" x 10") | 7804.254 | 250 x 300 mm (10" x 12") | | |
| | | 7804.256 | 250 x 350 mm (10" x 14") | | |

CLEAR DISSIPATIVE TAPE

Clear Dissipative Tape used to seal shielding bags or boxes.

Generates low electrostatic charge and can be used in EPA.

Material: Cellulose based tape with rubber based adhesive. Rs: 10⁹ - 10¹¹ Ω
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 |



DISSIPATIVE BUBBLE PACK BAGS

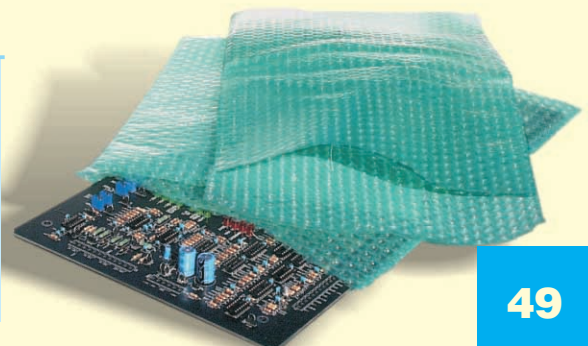
Provide superior protection against physical damage during shipping and storage.

| | |
|-----------------|-------------------------------|
| 6604.100 | opening x depth 90 x 100mm |
| 6604.101 | 100 x 180mm |
| 6604.102 | 130 x 185mm |
| 6604.105 | 180 x 230mm |
| 6604.107 | 250 x 250mm |
| 6604.110 | 280 x 360mm |
| 6604.114 | 300 x 480mm |

Moisture Barrier Bags



>>> go to page 82

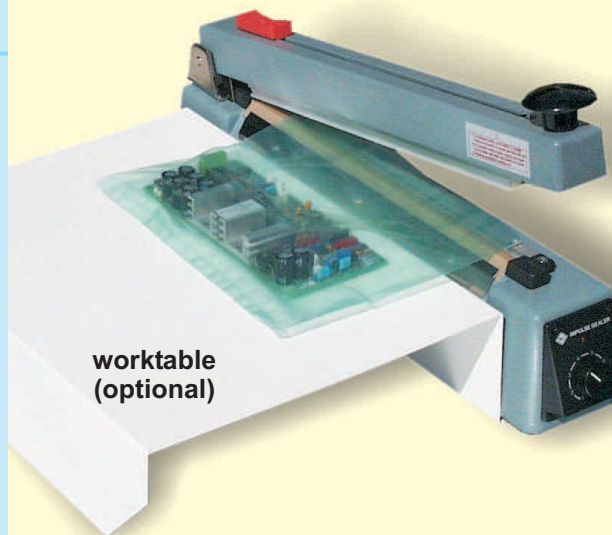


HAND SEALERS

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

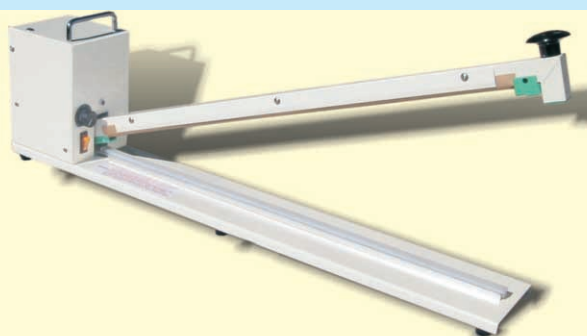


worktable
(optional)

LARGEST HAND SEALER

- Easy to operate, short distance from your working table, only 2.8cm
- Super longer seal length (800mm)
- 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)
7914.256 Largest hand sealer, 1000 x 2mm (1000W - peso 11kg)



HAND SEALER (medical)

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

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

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

| model | sealing length | power | weight (Kg) |
|------------------------------------|----------------|-------|-------------|
| 7914.215 | 200 | 1000 | 6,5 |
| 7914.216 stainless steel | 300 | 1200 | 8 |

7914.215



7914.216

stainless steel

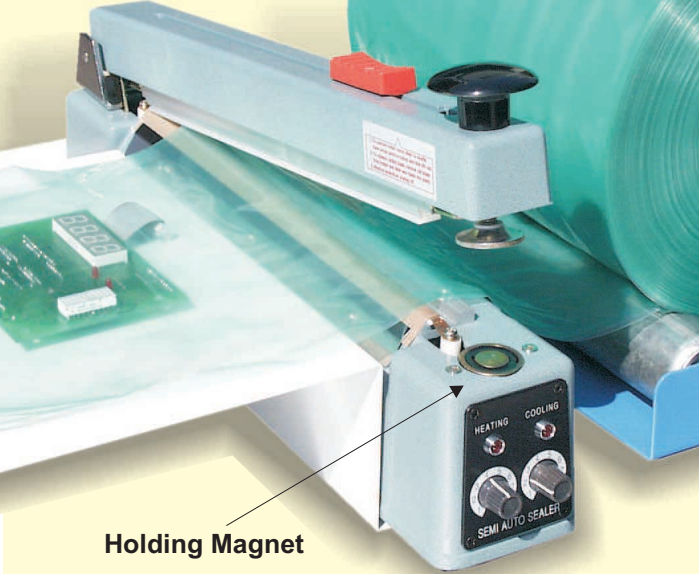


SHRINK WRAP SYSTEM

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

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





Holding Magnet

HAND SEALER WITH HOLDING MAGNET AND CUTTER

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

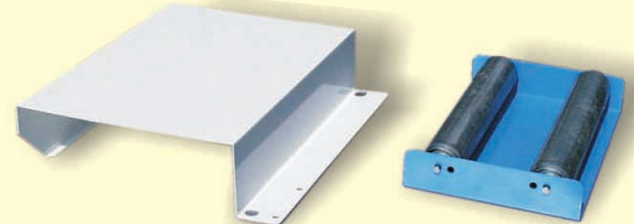
- Adjustable welding and cooling time.
- Uniform set contact pressure.
- Welds all types of thermoplastic films.
- Easy and simple to operate.

Seal width: 5mm
Max. seal thickness: 2x0.15mm

| | | |
|-----------------|---|-------|
| 7914.245 | Hand Sealer with holding magnet and Cutting Blade | 300mm |
| 7914.246 | Hand Sealer with holding magnet and Cutting Blade | 400mm |

ACCESSORIES FOR HAND SEALERS

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



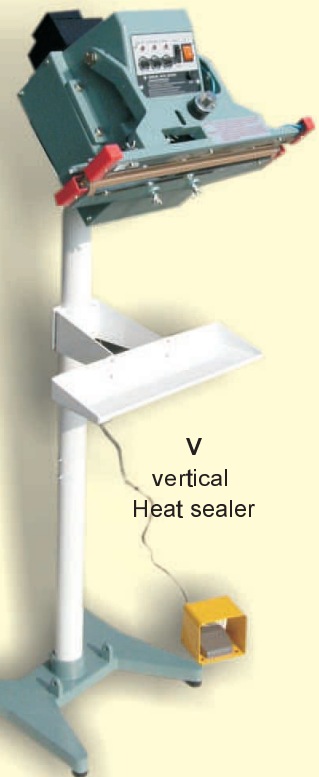
DOUBLE AUTOMATIC HEAT SEALER

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

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

Seal width 10mm
Max. seal thickness 2x0.15mm

| | |
|------------------|---|
| 7914.247 | Automatic heat sealer 300mm (2000W - weight 22kg) |
| 7914.247V | Automatic heat sealer 300mm with floor support |
| 7914.248 | Automatic heat sealer 450mm (2500W - weight 24kg) |
| 7914.248V | Automatic heat sealer 450mm with floor support |
| 7914.249 | Automatic heat sealer 600mm (3000W - weight 26kg) |
| 7914.249V | Automatic heat sealer 600mm with floor support |



V
vertical
Heat sealer

AUTOMATIC HEAT SEALER WITH TEMPERATURE CONTROL

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

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

Each seal has a deeply embossed texture.



Seal width 15mm
Max. seal thickness 2 x 0,25mm
Temperature range 30 - 199°C
Sealing time 0,2 - 2,5 sec
Recycle time (automatic mode) 1 - 8 sec

| | |
|-----------------|---|
| 7914.163 | Constant automatic heat sealer 200mm (350W - weight 15kg) |
| 7914.165 | Constant automatic heat sealer 400mm (520W - weight 19kg) |
| 7914.166 | Constant automatic heat sealer 600mm (600W - weight 22kg) |

AUTOMATIC BAND SEALERS

These versatile portable band sealers, available in horizontal and vertical feed, are designed for sealing all kinds of plastic materials and bag. The vertical model is ideal for the packaging of bags containing spillable items such as powders or liquids. Standard embossing attachment allows to print date and lot coding on the bag (till to 39 numbers)

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



7914.191

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

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



7914.190

HAND HELD CRIMPER SEALER

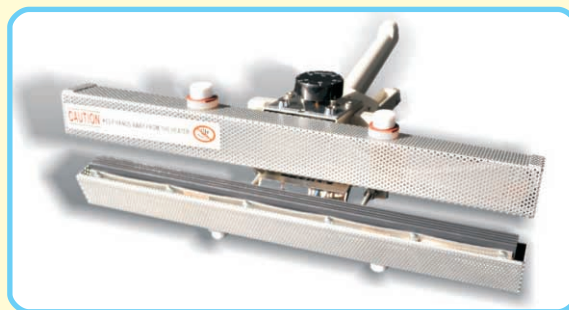
| Model | 7914.172 | 7914.175 | 7914.176 | 7914.177 |
|------------------------------|--------------|---|---|---|
| Weldable material | polyethylene | cellophane, wax paper, aluminium or moisture barrier bags | cellophane, wax paper, aluminium or moisture barrier bags | cellophane, wax paper, aluminium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



7914.172



7914.175



7914.176-177

EXTERNAL ASPIRATION VACUUM SEALERS



VacuLab

External Aspiration

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

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

The air is strongly sucked out from the bag's opening, so it is needed to use textured bags or to unfold the sides of the bags, so to provide two little way out for the aspiration. (see page 78)

7914.359 Vacuum bag sealer, external aspiration, 450mm

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

VACUUM TANK SEALERS



7914.262 Vacuum tank sealer

| | |
|------------------|--------------------------------|
| Seal length | 400 x 5 mm |
| Vacuum pump | Oil bath, 20m ³ /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, 20m ³ /h. |
| Chamber capacity | 460x450x90 mm |
| Power supply: | 230V/50Hz 2kW |

VACUUM TANK SEALERS 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.

| | |
|----------------------|--|
| Maximum vacuum level | 98% (measured at the sea level) |
| Seal length | 450 x 5 mm |
| Vacuum pump | Oil bath, 20m ³ /h. |
| Chamber capacity | 450x500x90(H) mm |
| Power supply: | 230V/50Hz 2kW |



VacuWeld

7914.278

VacuWeld



7914.275

7914.275 Vacuum tank sealer

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

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

Moisture Barrier Bags



>>> go to page 82

WIRE SHELVING

Solid CONDUCTIVE shelving, in chrome plated steel, resistant to rust, bumps and scratches. This system allows an efficient air circulation, a good light penetration and the maximum accessibility.

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

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

Levelling bolt compensate for uneven floors.

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

VINYLAB mat optional cover, 2 layers, grey ESD

Load capacity for single shelf: 150 kgs
Load capacity for shelving unit: 800 kgs

Composition

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

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

8104.020
8104.021
8104.022
8104.023

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

8104.108
8104.060
8104.050

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



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



Plastic split sleeve included with shelves

8104.060 Aluminium split sleeve (optional)



8104.050

Side and back ledges (3)

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

8104.130
8104.131
8104.135

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

SMD reel shelf (4)

8104.012
8104.013

SMD reel shelf 455 x 910mm
Reel capacity: 78, DIA.180mm x width. max.17mm
SMD reel shelf 455 x 910mm
Reel capacity: 15, DIA.330mm x width. max.50mm

8104.101

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

8104.110
8104.111

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



1



2



3



4

WIRE CARTS

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

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

Load capacity : 200 kgs

| | |
|-----------------|---|
| 8104.041 | U-handle 455mm width, 876mm height |
| 8104.042 | U-handle 610mm width, 876mm height |
| 8104.046 | Handle 455mm |
| 8104.047 | Handle 610mm |
| 8104.070 | Set of 4 conductive castors Ø125mm(2 with brake) |
| 8104.071 | Set of 4 NON-ESD castors Ø125mm(2 with brake) |

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

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



STAINLESS STEEL CARTS

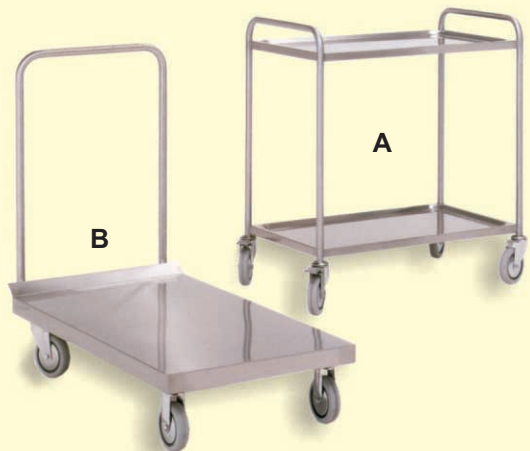
Stainless steel carts - AISI304 with solid conductive wheels Ø125mm, 2 with brake.

TWO/THREE SHELF CART (A)

| | |
|---------------------------------|--|
| 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: | 50kg |

CART FOR STUFF (B)

| | |
|-----------------|-----------------------------|
| 8104.720 | Trolley - dim. 1000 x 550mm |
| Load capacity : | 200kg |



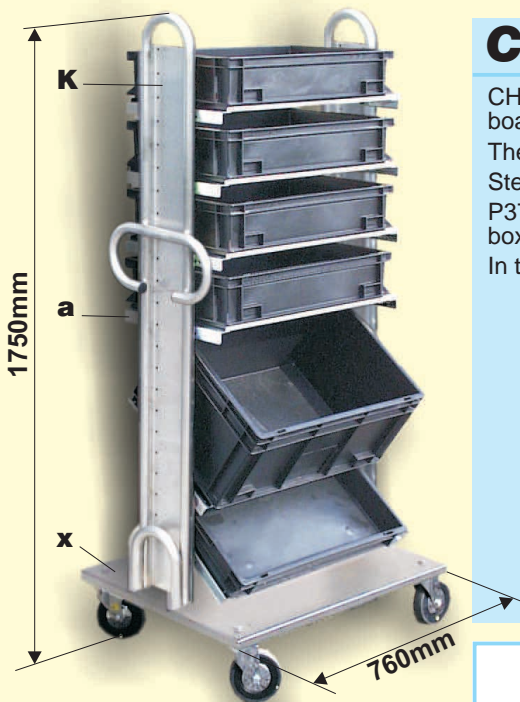
TRESTON trolley

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

Set of 4 ESD castors Ø100mm(2 with brake)

| | |
|-------------------|--|
| S852773-49 | TRESTON trolley dim. 650x450x775mm, Max load 3x30kg |
|-------------------|--|





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 consists 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 accommodate one EURO 600x400 or two EURO 300x400 boxes.

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

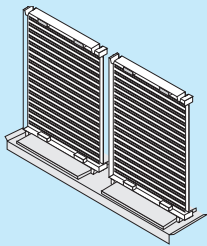
| code | description | ref. | Qty. |
|----------|--|------|-------------|
| 8100.050 | Stainless steel baseplate with castors | x | 1 |
| 8100.054 | Stainless steel lateral support post | H | |
| 8100.055 | Stainless steel lateral post with handle | K | 2 |
| 8100.056 | A4 document holder | J | |
| 8100.065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

Load capacity for single shelf: 50kg

CHARIOTTE trolley for LABERACK

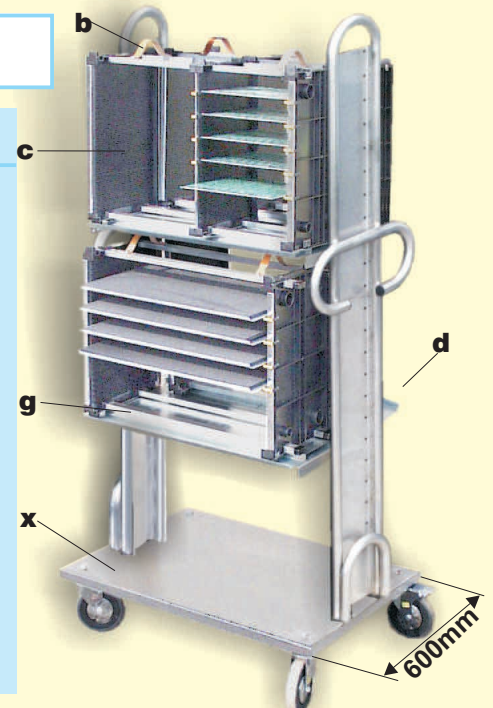
CHARIOTTE conductive trolley can be customized to carry Printed Circuit Boards or LABEFIX trays. The trolley shown in figure consists of four LABERACK carriers, securely housed on the two special double support shelves.

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



LABERACK housing on shelf

| code | description | ref. | 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 length) | g | |
| 7804.021 | LABERACK handle for transport (rail fixing) | b | rack |



PC BOARD STORAGE & TRANSPORT "LABECART"

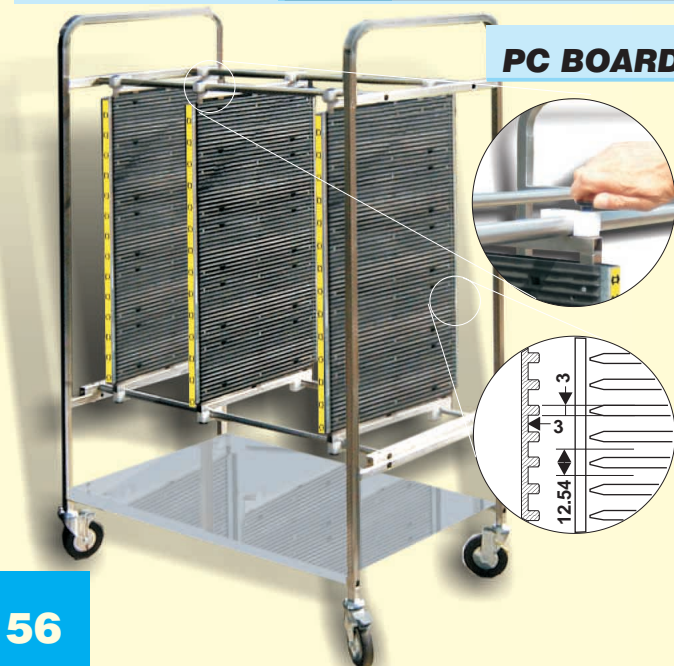
A mobile PCBs' store, ideal for transporting work process and storing large quantities of board.

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

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

Load capacity: 250kg

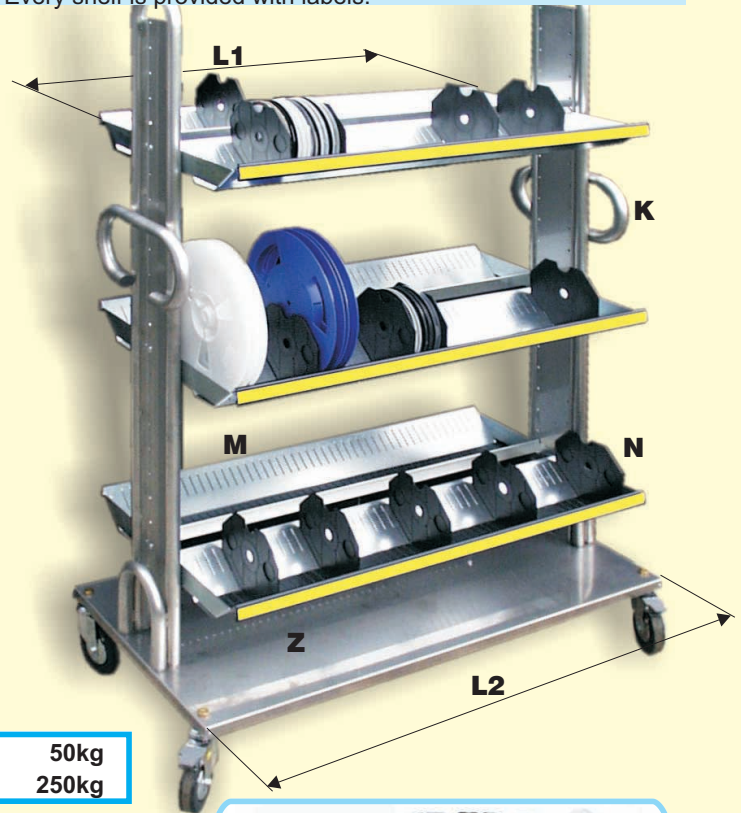
| | |
|----------|--|
| 8104.312 | Stainless steel lateral support post pair |
| 8104.318 | Stainless steel stud \varnothing 25x1000mm (n.6 each cart) |
| 8104.327 | Side wall 1120x510mm / 84 rails |
| 8104.325 | Intermediate wall 1120x510mm / 84 rails each side |
| 8104.330 | Lower stainless steel shelf 660x1000mm |
| 8104.695 | ESD wheel kit, \varnothing 125mm (2 with brake) |
| 8104.696 | NON-ESD wheel kit, \varnothing 125mm (2 with brake) |



CHARIOTTE SMD reel holder



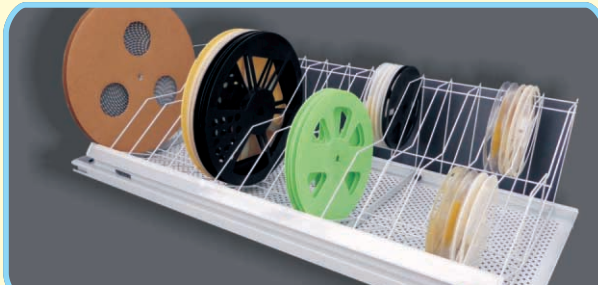
CHARLOTTE reel holder is designed to prepare and transport the SMD reels to the assembly area, and mainly to make the replacement of empty reels on the automatic machines. The capacity of the trolley is 4 shelves for reel size 330mm and 5 shelves for reel size 220mm. Steel shelves are adjustable in height,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



| code | description | ref. | 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 | |

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

TRESTON SMD reel holder



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

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

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



8104.013

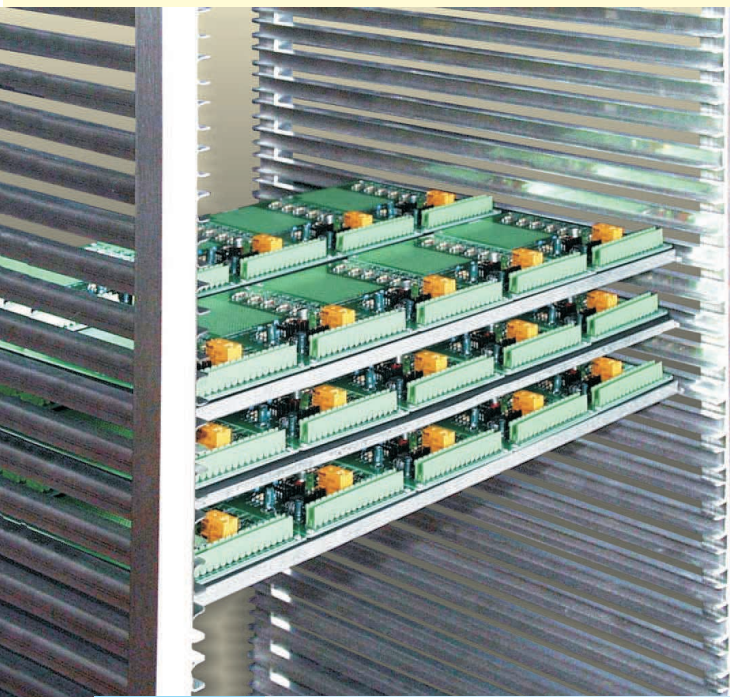


8104.012

SMD reel holder (wire shelving page 54)

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

8104012 WIRE SHELF for 180mm SMD reels - 455x910x95(H)
Slot opening 16mm - Reel capacity /shelf: about 78
8104013 WIRE SHELF for 330/380mm SMD reels 455x910x108(H)mm
Slot opening 50mm - Reel capacity /shelf : about 15



CHARIOTTE TRAY TROLLEYS

Supporting structure made of tubular AISI 304 stainless steel.

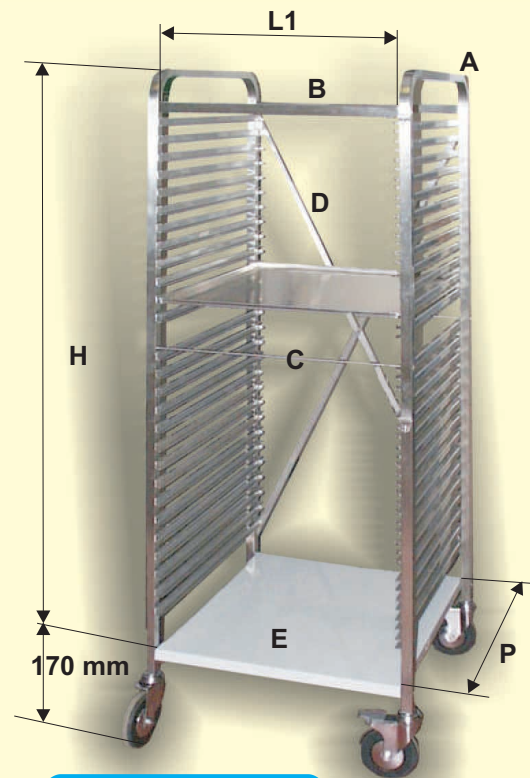
⊃ - shaped tray control guides, made of stainless steel with back stops.

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

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

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

- 8104.605 (A) Lateral support post pair, 20 rails 825(H) x 400(P)mm
- 8104.607 (A) Lateral support post pair, 20 rails 825(H) x 660(P)mm
- 8104.610 (A) Lateral support post pair, 38 rails 1520(H) x 400(P)mm
- 8104.612 (A) Lateral support post pair, 38 rails 1520(H) x 660(P)mm
- 8104.650 (B) STRINGER 25 x 25 x 508(L1)mm
- 8104.651 (B) STRINGER 25 x 25 x 538(L1)mm
- 8104.654 (B) STRINGER 25 x 25 x 808(L1)mm
- 8104.660 (C) Central tie rod Φ 8X 508(L1)mm
- 8104.661 (C) Central tie rod Φ 8X 538(L1)mm
- 8104.664 (C) Central tie rod Φ 8X 808(L1)mm
- 8104.685 (D) Stiffening cross 1520(H)x508(L1)mm
- 8104.686 (D) Stiffening cross 1520(H)x538(L1)mm
- 8104.687 (D) Stiffening cross 1520(H)x808(L1)mm
- 8104.670 (E) Inox SHELF 10/10 400 (P) x 508(L1)mm (optional)
- 8104.674 (E) Inox SHELF 10/10 660 (P) x 508(L1)mm (optional)
- 8104.675 (E) Inox SHELF 10/10 400 (P) x 538(L1)mm (optional)
- 8104.676 (E) Inox SHELF 10/10 660 (P) x 538(L1)mm (optional)
- 8104.678 (E) Inox SHELF 10/10 400 (P) x 808(L1)mm (optional)
- 8104.682 (E) Inox SHELF 10/10 660 (P) x 808(L1)mm (optional)
- 8104.695 Pivoting conductive wheels KIT, Φ 125mm (2 with brakes)
- 8104.696 Set of 4 NON-ESD castors, Φ 125mm, (2 with brakes)

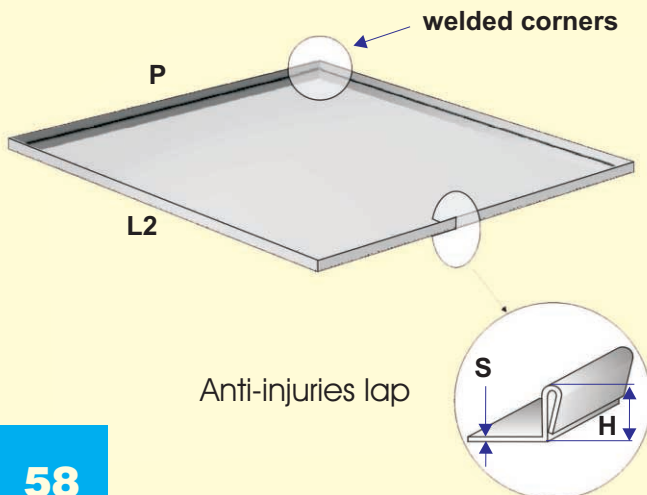


Load capacity 350kg

ALUMINIUM TRAYS

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

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



TRESTON *Workbenches TP*

Ergonomic workbench is suitable for light assembly.

Frames are of epoxy powder coated steel in grey RAL7035

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



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

TRESTON *STEEL CABINET 45*

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

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

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

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

Load capacity: 30 kg/drawer.
 Drawers size: 380 x 500 mm (Width x Depth).



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



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

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

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

The worktops are of 26 mm laminated particle board

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



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

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



Corner Workbench

- TPH 707 KK ESD
- TPH 909 KK ESD

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



Auxiliary shelf SH

Height adjustable shelf, 26mm ESD laminate

- SH 120 ESD
- SH 150 ESD
- SH 180 ESD

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



Metal shelf TH

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

- TH 120 ESD
- TH 150 ESD
- TH 180 ESD

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



Movable Benches



>>> go to page 31

Tecofix



>>> go to page 29

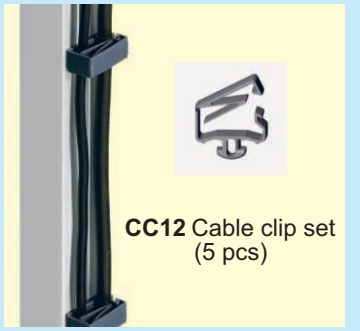
Tool and lighting support KT

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

KT120 C-profile bar, for bench 1200mm
KT150 C-profile bar, for bench 1500mm
KT180 C-profile bar, for bench 1800mm

CC12 Cable clip set (5 pcs)

CKV400ESD Swivel arm with tray 210x460mm, Load 15kg



CC12 Cable clip set (5 pcs)

Cable tidy TPHCT

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

TPHCT 120 45 x 205 x 1115 Suitable for TPH712

TPHCT 150 45 x 205 x 1415 Suitable for TPH715/915

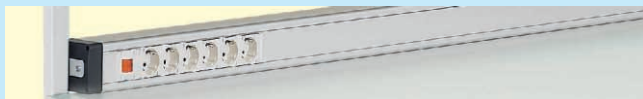
TPHCT 180 45 x 205 x 1715 Suitable for TPH718/918



CKV400ESD
 Swivel arm with tray
 210x460mm Load 15kg

Cable channel TJK

TJK150 SET with switch and 6 Schuko socket - 1500mm
TJK180 SET with switch and 6 Schuko socket - 1800mm



Overlight OL254

OL254 Silver gray lighting unit with a matte anti-dazzle screen, with switch and 3 m cable. Length: 1200 mm. 2 x 54W fluorescent tubes.

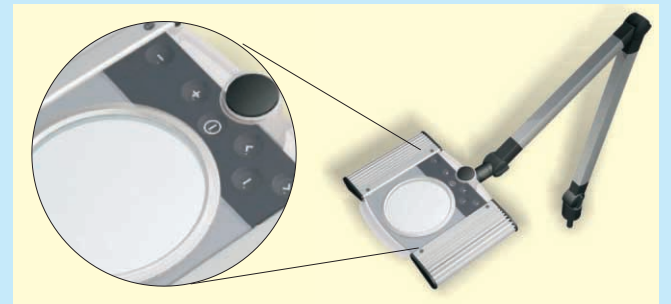
OL254 D Silver gray lighting unit with dimmer.



Magnifying LED task light

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

ZL3 LED task light, 3 diopter magnifying glass
 127mm diameter.



TRESTON SHELF CABINETS



Designed for use in light storage

This cabinet comes in an individual carton with all necessary fittings and instructions.

Steel cabinets are epoxy powder coated in light grey.

The shelves can be adjusted on 50 mm centres

Standard fittings:

Locking bar system, steel double doors,

2 or 4 shelves and cabinet base
 max. load

50 kg/shelf

HK180 ESD

Shelf cabinet with 4 shelves 460 x 915 x 1830

HK100 ESD

Shelf cabinet with 2 shelves 460 x 915 x 1015

H 49K ESD

Extra shelf size 450 x 880mm

TRESTON

WORKBENCHES WB



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

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

Stepless height adjustment between 700-1100 mm.

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

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

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



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

www.treston.com

Allen-key adjustable bench

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



Crank adjustable bench

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



Electric adjustable bench

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



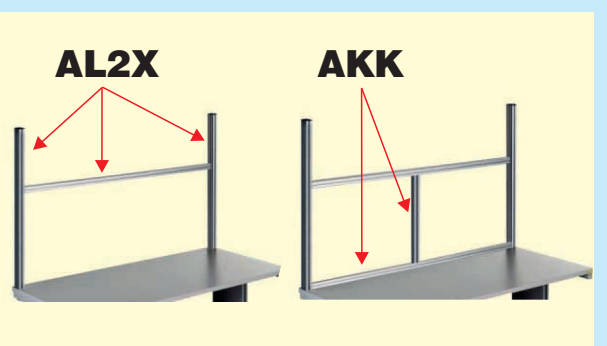
Upright profiles AL2X

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

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

Accessory frame AKK

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



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

Support bracket HSB



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

| | |
|---------------|---------------------------------------|
| HSB110 | Length 1073 mm Suitable for AL2X110 W |
| HSB150 | Length 1500 mm Suitable for AL2X150 W |
| HSB180 | Length 1800 mm Suitable for AL2X180 W |



HiLite LED

Width 1230 mm, lighting level 1 m ~ 1800 lx

Shelf ALH



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

| | |
|-------------------|-------------------------------|
| ALH110 ESD | 1073 x 310 Suitable for WB811 |
| ALH150 ESD | 1500 x 310 Suitable for WB815 |
| ALH180 ESD | 1800 x 310 Suitable for WB818 |



AKV400 ESD

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

Power channel CJK



CJK70 SET 3 double sockets (n.6 Schuko) and a switch 3 m cable is included.



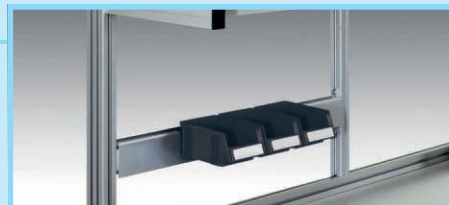
CPU

An adjustable holder for either vertical or horizontal CPU

Bin profile BP

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

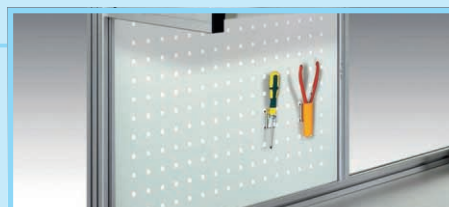
| | |
|------------------|--|
| BP70 ESD | Length 685 mm Suitable for AKK70, AKK150, AKK180 |
| BP100 ESD | Length 985 mm Suitable for AKK180 |



Perforated panels ARL

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

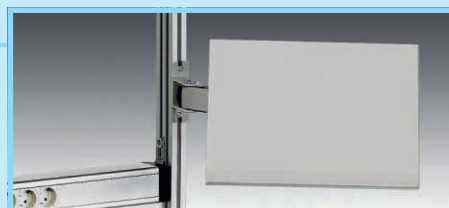
| | |
|---------------|--------------------------------------|
| ARL70 | 668 x 500 Suitable for AKK70, AKK150 |
| ARL100 | 968 x 500 Suitable for AKK180 |



Document stand WDA

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

| | |
|----------------|--|
| WDA ESD | 440 x 300 Suitable for AL2X upright profiles |
|----------------|--|



Adjustable shelf ASH

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

| | |
|-------------------|--|
| ASH70 ESD | 660 x 400 Suitable for AKK70, AKK150, AKK180 |
| ASH100 ESD | 960 x 400 Suitable for AKK180 |



CHAIRS

Comfortable static safe chairs designed to improve job efficiency and productivity.

Chrome -plated metal parts - Pneumatic seat height adjustment - Standard self-braking conductive castors
Rg to ground $1 \times 10^{10} \Omega$

CLASSIC / standard

ESD chair with long wearing dissipative upholstery, antracite colour

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



CLASSIC / high with foot-plate

ESD chair with long wearing dissipative upholstery, antracite colour

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



PU / standard

ESD chair in black dissipative PU foam

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



PU / high with foot-plate

ESD chair in black dissipative PU foam

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

YOUNG / standard

| ESD chair with long wearing dissipative upholstery, antracite colour | | | | |
|--|---------------------------|-----------------|----------------------|------------------|
| code | back rest dimensions (mm) | back rest angle | seat dimensions (mm) | seat height (mm) |
| 7807.315 | 380 x 230 | fix. | 450 x 460 | 490 ÷ 590 |
| 7807.317 | 420 x 480 | adj. | | |



7807.315

7807.317



7807.320

7807.322

YOUNG / high with foot-plate

| ESD chair with long wearing dissipative upholstery, antracite colour | | | | |
|--|---------------------------|-----------------|----------------------|------------------|
| code | back rest dimensions (mm) | back rest angle | seat dimensions (mm) | seat height (mm) |
| 7807.320 | 380 x 230 | fix. | 450 x 460 | 560 ÷ 720 |
| 7807.322 | 420 x 480 | adj. | | |

OPTIONS

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

| Suffix | Option |
|----------|---------|
| A | Armrest |



| Suffix | Option |
|----------|--|
| G | Conductive rubber castor (replacing standard castor) |



(does not leave marks on the floor)

| Suffix | Option |
|----------|-----------------------------------|
| P | Glide (replacing standard castor) |



Dissipative Chair Cover Set

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

7804.197

Dissipative CHAIR COVER SET, 2 cables included

LEADER ON THE MARKET

Since 2010 Simco and Ion System, the leaders in the production of Ionization System for the Electronic Industry, belong to the same Group. It is the beginning of a real and effective partnership. This will sort big benefits for all the End User, which will find a combined offer with the best solution offered by the two producers. Big benefits too for the Research and Development of new products as they will join and merge knowledge to reach the top level of technology and quality.

IONIZATION SIMCO-ION

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

ACTIVE PROTECTION SYSTEM

Where grounding of some equipment or parts of equipment through traditional earthing techniques is impractical, where it is impossible to exclude all charging materials from the area, the use of suitable ionizers is highly recommended. Air ionization systems work by flooding the atmosphere with positive and negative ions. When the ionized air comes in contact with a charged surface, the surface attracts ions of the opposite polarity. As a result the static electricity that has built up on products and equipment is neutralized. Ions do remove small particles or smoke and pollens from the air, and subjective research suggest that people working in ionized area are happier. The generated ozone is lower than 0.005ppm after 24 hours accumulation, conform to OSHA requirements.



6422/e POINT OF USE IONIZING BLOWER

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

| | |
|-------------------|--|
| Discharge time | 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, 24Vac |
| 9265.577 | Wall transformer 230Vac/24Vac 32W |

6432/e LOCAL AREA IONIZING BLOWER

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

| | |
|-------------------|--|
| Discharge time | from $\pm 1000V$ to $100V \leq 7s$ at 60cm |
| Emitter points | Tungsten alloy, internally shielded, 5 year life |
| Air flow: | 80m ³ /h |
| Coverage area | 122x46cm |
| Power requirement | 24VAC/DC 50/60Hz |

9265.576 Local area ionizing blower 24Vac 6W



Local Area Ionizing Blower AEROSTAT PC

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

| | |
|--------------------|---|
| Decay Time: | $\pm 1000V$ to $100V \leq 2.5s$ at 60cm |
| Emitter: | Patented emitter point cleaner |
| Air Flow: | 120 m ³ /h at high speed |
| Coverage Area: | 150x30cm |
| Power requirement: | 230Vac |
| Auto-balance: | 0 $\pm 5 V$ |

9265.578 Local Area Ionizing Blower AEROSTAT PC, 230V



TURBO IONIZING BLOWER XC2

The Turbo Blower is designed to achieve full control in any environment, it is ideal to cover large areas. The fan can work at 3 different speed and has heater incorporated to grant a good comfort (heater can be turned on or off). Easy cleaning of the emitters with the "Emitter Clear Button". The decay time is minimum due to the high performance of this ionizer.

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



9265.602

Turbo Ionizing Blower XC2, 230V

OVERHEAD IONIZING BLOWER GUARDIAN



Decay Time: $\pm 1000V$ to $100V \leq 6s$ at 45cm
 Emitter: Patented emitter point cleaner
 Air Flow: $500 \text{ m}^3/\text{h}$ at high speed
 Coverage Area: $120 \times 60 \text{ cm}$
 Power requirement: 230Vac
 Auto-balance: $0 \pm 5 V$

9265.610

Overhead Ionizing Blower GUARDIAN, 230V

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

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

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

CR2000 OVERHEAD IONIZER FOR CLEAN ROOM



Decay Time: $\pm 1000V$ to $100V \leq 3s$ at 45cm
 Emitter: Patented emitter point cleaner
 Air Flow: $450 \text{ m}^3/\text{h}$ at high speed for the 3 fan / $300 \text{ m}^3/\text{h}$ for the 2 fan
 Coverage Area: $120 \times 60 \text{ cm}$ for the 3 fan version / $90 \times 60 \text{ cm}$ for the 2 fan
 Power requirement: 230Vac
 Auto-balance: $0 \pm 5 V$
 Clean room: Compatible with Class 10

9265.620

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

9265.622

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

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

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

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

IONIZING GUNS

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



6115 LIGHT ANATOMIC GUN

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

Gun ergonomic, low-noise, weight 0.34kg
 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

9265.532

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

HEAVY DUTY TOP GUN

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

There is a flow control valve to adjust airflows for the specific application. It is completely ESD and can be used even in clean rooms. The version with sidekick allows "hands free" operation.

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

9265.520

9265.523

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



9265.520

6110A AIR CARTRIDGE

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

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

9265.542

9265.544

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



FREE AIR

VALVE OR SHUT OFF

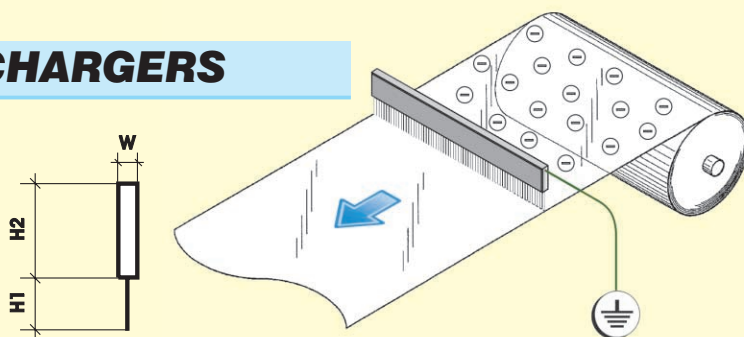
ATTENTION: the cartridge don't withstand high air pressure. It should be installed downstream from any system valves or shutoffs

CARBON FIBRE STATIC DISCHARGERS

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

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

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



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



FIELDLAB electrostatic fieldmeter

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

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

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

9265.501
9265.503

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



The 9265.503 is a lonizer 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 lonizer operation and check ion balance and discharge time



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. |

Wrist strap and dual footwear TEST STATION

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

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

A relay output allows access to ESD Protected Area.

Internal battery supplied 9V or external 9Vdc.

ISO9000 traceable certificate is included.

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

High efficiency led displays:



| | LOW limit | HIGH limit |
|-------------|-----------------------------------|---|
| Wrist strap | 750K Ω | 35M Ω |
| Footwear | 0 - 100K Ω (selectable) | 35M Ω - 70M Ω - 100M Ω (selectable) |

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

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

9264.955 Instrument recalibration (ISO9000 Traceable certificate is supplied)

9264.960 Wristlab-II instrument

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



Calibration Unit

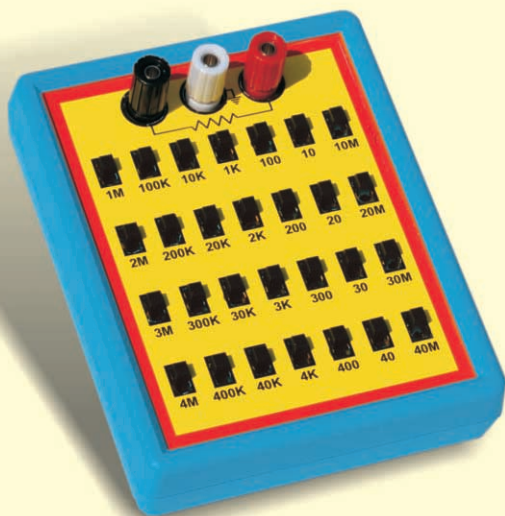
It's a resistance decade box made specifically for the calibration of the ESD Test Station (9264.960 Wristlab-II, 9264.925 Test Station EVO, 9265.030 Wristlab and IEC 61340-5-1 compatible testers)

Range: 10 Ω - 110M Ω (resolution 10 Ω)
 Tolerance: 1%
 Power: 1W for resistors up to 4M Ω
 0.5W for resistors from 10M Ω to 40M Ω
 Operative Voltage: 250Vac max
 Dimensions: 14,7 x 11,7 x 5,5cm
 Weight: 320g

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

9264.980

Calibration Unit for ESD testers cables and adapters included



TEST STATION EVO



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

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

TECHNICAL FEATURES

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

- Relay output for controlling the opening of the access door to the EPA
- LCD display with blue backlight 160 x 104 pixels, 74 x 46mm viewable area
- BEEP to indicate clearly PASS or FAIL test of the protections
- Voltage Test selectable to 50V or 100V.
- Programmable thresholds
- ISO9000 Traceable Calibration Certificate included

- Program to manage the data recorded on USB stick included in the Test Station EVO (compatible with Win XP//7/8/10)



FREWARE

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

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



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

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

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

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

The template size is very small: about 400 byte.

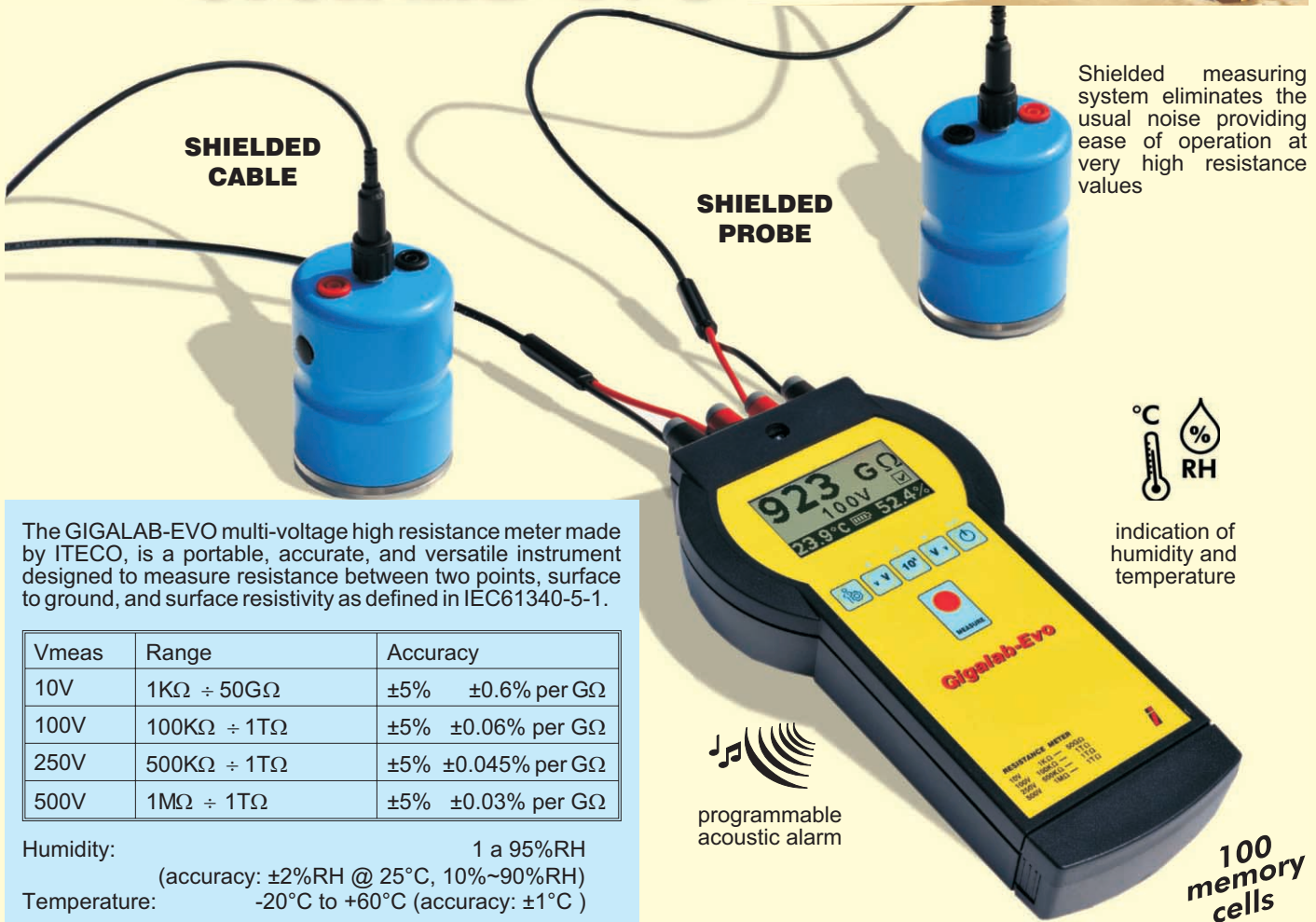
The templates are used for a smart and secure identification of the operator.



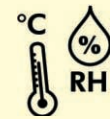
- 9264.920** Test Station EVO USB wall mounting with footplate
- 9264.921** Test Station EVO ETHERNET wall mounting with footplate
- 9264.922** Test Station EVO USB, stand-up version with footplate
- 9264.923** Test Station EVO ETHERNET, stand-up version with footplate
- 9264.925** Test Station EVO USB
- 9264.926** Test Station EVO ETHERNET
- 9264.955** Instrument recalibration (ISO9000 Traceable Calibration Certificate is supplied)

9264.922
Test Station EVO
Stand-up version

GIGALAB EVO



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



indication of humidity and temperature

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

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

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

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



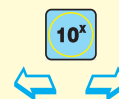
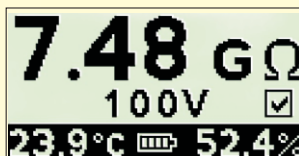
programmable acoustic alarm

100 memory cells

Internal memory where the data of 100 measures can be stored.
 The data stored for each measurement are:
 - Resistance value
 - Voltage used for the measurement
 - Humidity detected during measurement
 - Measured temperature during measurement



KIT 9265.064



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

- 9265.063
- 9265.064
- 9265.045
- 9265.042

GIGALAB EVO Meter with batteries and case
 GIGALAB EVO 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



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 $10^{12} \Omega$

Test voltage: 10V from 10^4 to $10^5 \Omega$, 100V from 10^6 to $10^{12} \Omega$

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 LabeoHM 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



Continuous Monitor

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

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

Supply: 24Vac

Wriststrap input: 10mm banana plug / 10mm snap adaptor

Dimensions: 98,3x52,8x22,9mm

- 9263.001 Continuous Monitor with power 230/24Vac adapter included

PROBES

- 9265.004B Cylindrical probe, one 4mm socket, BLACK
9265.012B cable included
- 9265.004R Cylindrical probe, one 4mm socket, RED
9265.012R cable included
- 9265.005 Concentric ring probe, BLACK
one BNC socket, 9265.008 cable included
- 9265.045 Shielded probe 63mm / 2,3kg, one BNC socket, two 4mm sockets
9265.008 cable included
- 9265.047 Counter-electrode 150x150mm
9265.008 cable included

9265.004B

9265.004R



SPARE CABLES

- 9265.012B Cable 1.5m - 4mm banana plugs terminated, BLACK
- 9265.012R Cable 1.5m - 4mm banana plugs terminated, RED
- 9265.008 Coaxial cable, 1m length, BNC plug / 2 x 4mm banana plugs

9265.045



9265.005



9265.047



WALKING TEST EVO



The WALKING TEST EVO is a portable measuring system that allows analysis of charge levels accumulated on the human body according to IEC 61340-4-5 standard.

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

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

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

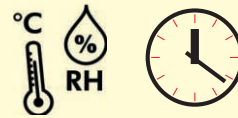
Then they can be easily exported and analyzed on a PC for a professional documentation.

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

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

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

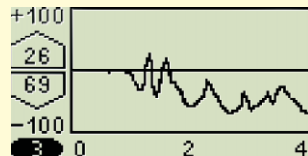
Display: graphicLCD 128 x 64 pixel, 68x51mm
 Power supply: 6 alkaline batteries, LR6 1, 5V
 Dimensioni: 243x130x60mm (instrument)
 $\varnothing 35x130mm$ (probe)
 Weight: 650g (instrument) - 250g (probe)



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



MONITOR
(Datalogger OFF)



DATALOGGER
Graph n.3
+Peak=26V
-Peak=69V



Datalogger

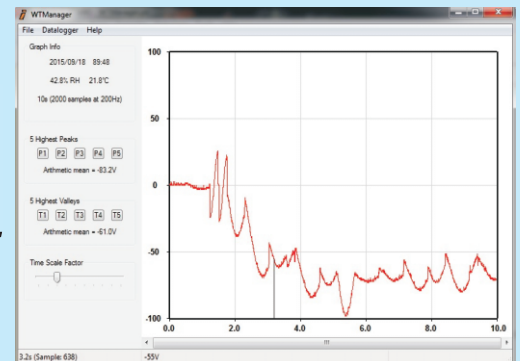
In the internal memory of the instrument can be logged till to 10 graphs.

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

Software WT Manager (included)

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

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



9265.080
9265.082

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

CHARGER EVO



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

It consists of an insulated power supply with a 10mm stud (used for GND referencing) and a metallic tip to provide the output voltage.

Settable output: +100V to +1100V or -100V to -1100V
Resolution: 1Volt Accuracy: 5%



The additional benefits compared to other chargers are:

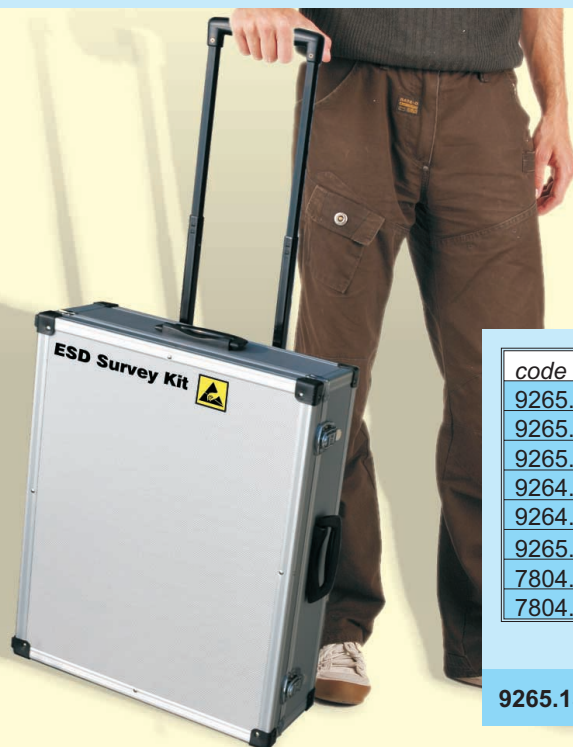
- Settable output voltage
- The output voltage is clearly indicated on the LCD and the internal accuracy (5%) allows a roughly check of other ESD instrumentation equipments.
- Polarity can be easy switched with a dedicated button therefore there is no need to manually invert the cables or contacts.
- Low battery and overload are clearly indicated.

9265.401
9265.410

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

ESD Survey Kit

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



| code | description | page |
|--------------|-----------------------------|------|
| 9265.063 | GIGALAB EVO meter | 72 |
| 9265.005 | Concentric Ring Probe | 73 |
| 9265.045 | Shielded Probe | 73 |
| 9264.960 | WRISTLAB-II instrument | 70 |
| 9264.967(x2) | Single footwear plate | 70 |
| 9265.503 | Ionizer Verification System | 69 |
| 7804.190 | Adjustable Wrist Strap | 41 |
| 7804.874 | Earth bonding plug | 44 |

9265.150 ESD Survey KIT - Carrying case with instruments

GHIBLI-II DRY CABINETS

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

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

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

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



Technical specifications

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



DryLogger

(included in every cabinet)

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

(see page 78)

Advantages about GHIBLI II

Easy use:

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

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

Easy calibration:

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

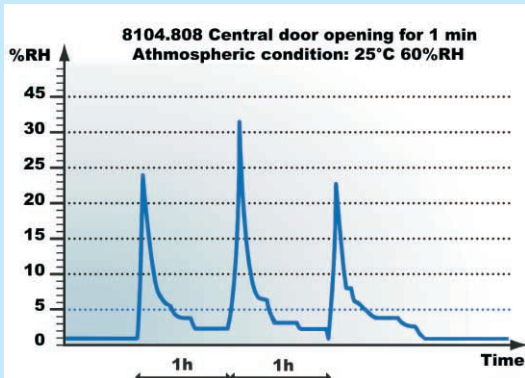
The portable instrument DryLogger can measure RH & Temperature values in several points inside the cabinet, and can record H/T and transfer the data to PC for graphing and analyzing. Made for very low humidity measurement can be used also for applications outside the cabinets.

Modular design:

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

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

2 years warranty



Data analysis

With the portable instrument DryLogger and the software LogManager supplied with every cabinet you can calculate the time intervals and percentage that exceed the 10%RH or 5%RH which leads to the estimation of the MSD floor life ("Floor Life" is the allowable time period after removal from a moisture barrier bag, dry storage or dry bake and before the solder process reflow).

Another typical data analysis is the graph of the door opening.

40°C Baking

Some cabinets version can do 40°C low baking process of SMD components.

At this temperature the reels are not damaged and can be afterwards inserted into the feeders of the pick and place without problems.

| | | | | | | | |
|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|--|
| | | | | | | | |
| Code | 8104.800 | 8104.802 | 8104.804 | 8104.808 | 8104.812 | 8104.830 | 8104.832 |
| Model | Ghibli II/200L | Ghibli II/328L | Ghibli II/400L | Ghibli II/600L | Ghibli II/1200L | Ghibli II/600L 40°C baking | Ghibli II/1200L 40°C baking |
| Capacity | 200L | 328L | 400L | 650L | 1280L | 600L | 1180L |
| Ext. Dimensions (mm) | 600x672x610 | 905x452x1045 | 600x672x1255 | 600x672x1805 | 1200x672x1805 | 600x672x1805 | 1200x672x1805 |
| Shelves | 2 | 3 | 3 | 5 | 5 | 5 | 5 |
| Shelf Size (mm) | 555x530x20 | 860x310x20 | 555x530x20 | 555x530x20 | 1155x530x20 | 555x530x20 | 1155x530x20 |
| Average power | 28W | 56W | 56W | 56W | 56W | 56W without baking 456W with baking | 56W without baking 856W with baking |
| Maximum power | 210W | 420W | 420W | 420W | 420W | 420W without baking 1220W with baking | 420W without baking 2020W with baking |
| Weight | 55kg | 64kg | 64kg | 81kg | 134kg | 91kg | 144kg |

8104.840 Additional shelf 555x530x20mm , Ghibli-II 200L, 400L, 600L

8104.841 Additional shelf 1155x530x20mm , Ghibli-II 1200L

ALARM BOX

With this option it's possible to set an alarm that become active when, after a certain period of time, humidity or temperature are above a predetermined maximum threshold.

The Alarm Box has a warning light and a buzzer that can be silenced from a switch on the panel.



8104.856

Alarm Box for Ghibli-II cabinets

TRAY RACK

Professional tray rack made of stainless steel that can be placed on the trays of the Ghibli-II dry cabinets.



8104.865
8104.583

GHIBLI-II - RACK 10 trays store
Aluminium tray 530 x 530 x 12mm

DRYLOGGER

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

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

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

| | | |
|-------------------------|---|-----------------------|
| Humidity: | 1 to 95%RH | resolution: 0.1%RH |
| accuracy: | $\pm 2\%$ RH (at 25°C, 10%RH~90%RH) | |
| | $\pm 3\%$ RH (at 25°C, 1%RH~10%, 90%RH~95%RH) | |
| Temperature: | -20°C to 60°C | resolution: 0.1°C |
| Accuracy: | | $\pm 1^\circ\text{C}$ |
| Display size: | | 48 x 11mm |
| Humidity Alarm : | | from 1 to 95% |
| Temperature Alarm : | | from 0 to 60°C |
| Alarm activation delay: | | from 1 to 99 minutes |
| Memory: | | 21600 samples |
| Sampling rates: | can be set at 1, 5, 10, 15, 30 seconds and 1, 5, 10, 15, 30 minutes | |
| Interface: | RS232 and USB | |
| Size: | 184 x 67 x 44mm | |



Alarm Led



LOGMANAGER

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

9265.302

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

CK-005

ISO9000 Traceable certificate for DryLogger

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: | $\pm 2\%$ RH (at 25°C, 35%RH~80%RH) | |
| | $\pm 2.5\%$ RH (at 25°C, 10%RH~35%RH, 80%RH~90%RH) | |
| | $\pm 5\%$ RH (at 25°C, <10%RH, >90%RH) | |
| Temperature: | -20°C to +60°C | resolution: 0.1°C |
| accuracy: | | $\pm 1^\circ\text{C}$ (-5°C~40°C), other $\pm 2^\circ\text{C}$ |
| LED Display: | | 214x120mm |
| Memory: | | 30000 samples |
| Interface: | | USB |
| Dimensions: | | 260 x 178 x 47mm |
| Weight: | | 1Kg |

8105.103

Humidity/Temperature
Monitoring & Alarming & Datalogging

HUMIDITY / TEMPERATURE PEN

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

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

ISO9000 Traceable® Certificate is supplied
Humidity / temperature pen



SAHARA - BAKING OVENS

Forced ventilation oven available in two models: with temperature control only (Sahara) and also with humidity control (Sahara Dry). They are designed to perform the following works:

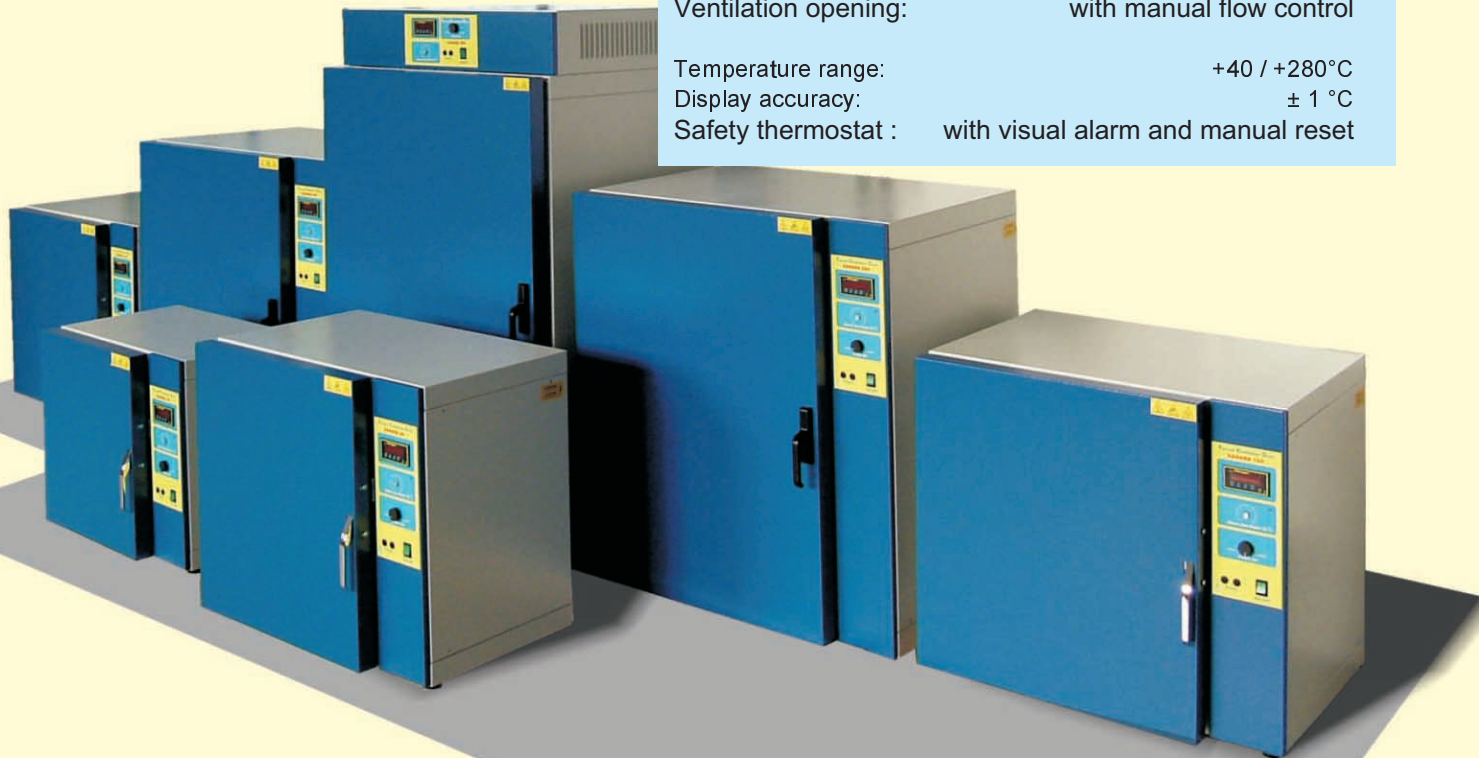
1) Baking of the PCBs, according IPC-1601 standard, should be done at 105-125°C for 4-6 hours into a forced ventilation oven. All our ovens are equipped with timer, programmable start-up, and countdown mode that is helpful to make sure you do the baking of PCBs only for 4-6 hours, avoiding the risk of an unnecessary oxidation of the printed board circuits.

2) Baking of SMD components according to J-STD-033 that specify three temperatures: 40°C, 90°C and 125°C. To ensure <5% RH when baking at 40°C or 90°C is recommended the use of the Sahara Dry that are ovens equipped with humidity control. How long to bake depends on the moisture sensitive level and package type and body thickness. In the worst case is 79 days for 40°C baking, 10 days for 90°C baking and 96 hours for 125°C baking. Once baked MSDs have their Floor Life restored to the initial value. It's important to bake in ovens equipped with a programmable timer command like all the ovens in the Sahara line.

3) Thermal cycle.
All the Sahara ovens can execute thermal program (easy editable on a PC) useful for testing and for heating/cooling with settable temperature gradient

Technical specifications:

| | |
|------------------------|--|
| Outer body : | steel coated in epoxy anti-acid paint. |
| Inner structure: | in stainless steel AISI304 |
| Heating elements: | not in contact with the internal chamber |
| Thermal insulation: | with natural mineral fibre |
| Internal grid shelves: | can be placed at different height |
| Ventilation opening: | with manual flow control |
| Temperature range: | +40 / +280°C |
| Display accuracy: | ± 1 °C |
| Safety thermostat : | with visual alarm and manual reset |



SAHARA OVENS

Oven with temperature control only



- Temperature Control
- Safety thermostat
- Ventilation opening

Compliance with:
IPC-1601
Baking PCB

SAHARA DRY OVENS

Oven with temperature control and humidity control (<5%RH)

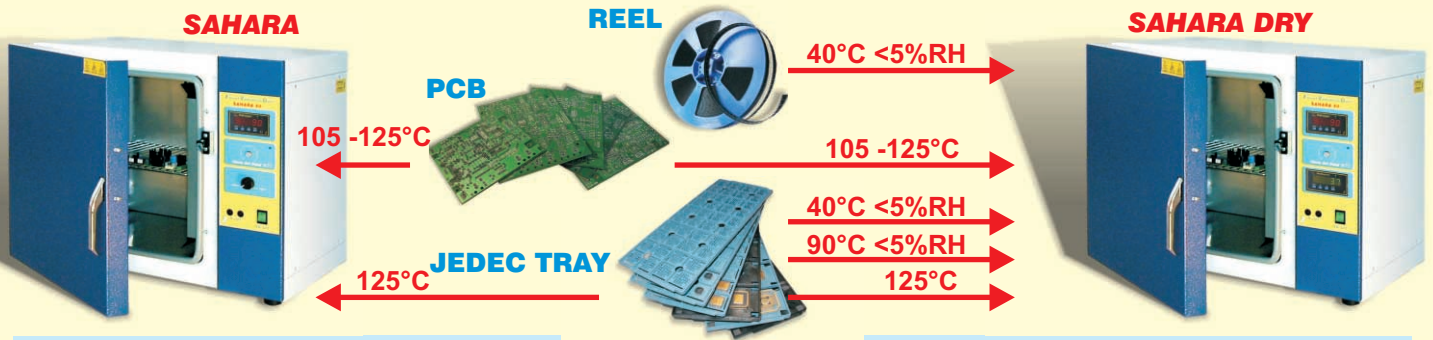


Dehumidification at <5% RH is reached by blowing dry air.

The Sahara Dry ovens, unlike Sahara models, are equipped with an air-tightness improved internal chamber so as to keep the dry environment achieved without having to continually blow dry air.

- Temperature Control
- Safety thermostat
- Humidity Control

Compliance with:
J-STD-033
Baking SMD
IPC-1601
Baking PCB



Temperature Control (Included both on Sahara and Sahara Dry models)



Temperature electronic control with PID regulator and multifunction timer.

Temperature Range: 40-280°C

Accuracy: $\pm 1.5^\circ\text{C}$

Resolution: $\pm 1^\circ\text{C}$



The digital controller has an internal clock with back-up that can keep the right clock for a week without power supply. This is useful to minimize the damage caused by any black-out when the oven is working in "Countdown", "Programmed start-up" or "Thermal programmer" mode.

The Sahara ovens can work in 4 modes:

1) SetPoint:

The oven reaches a setpoint temperature and stays steady.

2) Countdown:

It's like the SetPoint mode but with a time limit. After the countdown time is expired the oven stops. Time limit can be set from 1 minute to 999 hours and 59 minutes.

3) Programmed start-up:

It's useful when you want to start-up the oven on a precise date/time (for example at 6:30 on monday after the weekend the oven start-up to SetPoint 200°C)

4) Thermal programmer:

It's possible to edit on a PC and then download to the digital controller up to 10 programs with 100 steps each. In every step you can set: the temperature setpoint, the maximum gradient to reach it and the duration.

To set the thermal programmer it is necessary to have the 8107.215 option, comprehensive of the PidManager software and the special USB cable (see page on the right)

Humidity Control (Included on Sahara Dry models only)



Humidity electronic control

Humidity control: $<5\% \text{ RH when } 40^\circ\text{C} \leq T \leq 100^\circ\text{C}$

Humidity range: $1-95\% \text{ RH}$

Accuracy: $\pm 2\% \text{ RH (} 10\% \text{RH} \sim 90\% \text{RH)}$

$\pm 3\% \text{ RH (} 1\% \text{RH} \sim 10\%, 90\% \text{RH} \sim 95\%)$

Resolution: $\pm 0.1 \% \text{ RH}$

It can work in 2 modes:

Fast: dehumidification occurs at the maximum possible speed.

Eco: dehumidification is proportional adjustment to optimize the consumption of compressed air. This mode is for a more rational use of compressed air, in fact, the low level of humidity is reached for subsequent cycles and not in a direct way.

The Sahara Dry Ovens must be fed with dry air from 3 to 8 atm.

? How much should be dry the air supply?

Normally, centralized systems of compressed air are already equipped with dehumidification system good enough to work properly with this humidity control.

For example, a compressed air system to 7 bar with a dew point of less than 3°C is usually sufficient.

If the compressed air is not dry enough, it is always possible to install in a second time the option 8107.120 which is a dryer for compressed air.

? How much is the compressed air consumption?

The dry air is blown into the inner chamber very slowly and only when necessary.

Max consumption: 100 nl per minute

Average consumption: 30 nl per minute

? Can be used the nitrogen and what advantages there are?

Yes. The baking in inert environment reduces oxidation of the PCBs and SMD components..

| SAHARA MODEL | | Shelves (included/max) | Int. Dimensions (LxPxH) | Ext. Dimensions (LxPxH) | Power W | Weight kg |
|---------------------|--------------------------------|---------------------------|----------------------------|----------------------------|------------|--------------|
| 8107.103 | Sahara 40 litre | 1/7 | 348x312x367 | 686x515x575 | 800/230V | 35 |
| 8107.105 | Sahara 60 litre | 2/7 | 408x372x422 | 746x570x605 | 1200/230V | 40 |
| 8107.107 | Sahara 80 litre | 2/8 | 458x372x472 | 796x570x680 | 1200/230V | 45 |
| 8107.109 | Sahara 120 litre | 2/9 | 498x477x512 | 836x680x720 | 1600/230V | 50 |
| 8107.111 | Sahara 250 litre | 2/14 | 593x522x797 | 956x730x1025 | 2500/230V | 90 |
| 8107.113 | Sahara 400 litre (with wheels) | 2/18 | 693x607x980 | 901x815x1487 | 3200/230V | 140 |
| 8107.108 | Sahara DRY 80 litre | 2/8 | 458x372x472 | 796x570x680 | 1200/230V | 45 |
| 8107.110 | Sahara DRY 120 litre | 2/9 | 498x477x512 | 836x680x720 | 1600/230V | 50 |
| 8107.112 | Sahara DRY 250 litre | 2/14 | 593x522x797 | 956x730x1025 | 2500/230V | 90 |

ACCESSORIES

| | | |
|-----------------|--|-------------------|
| 8107.117 | Door with inspection window, 200x200mm (Optional) | |
| 8107.120 | Air dryer for compressed air (for Sahara Dry) | |
| 8107.150 | Additional shelf for Sahara 40 litre | (max. 7 shelves) |
| 8107.152 | Additional shelf for Sahara 60 litre | (max. 7 shelves) |
| 8107.154 | Additional shelf for Sahara and Sahara DRY 80 litre | (max. 8 shelves) |
| 8107.156 | Additional shelf for Sahara and Sahara DRY 120 litre | (max. 9 shelves) |
| 8107.158 | Additional shelf for Sahara and Sahara DRY 250 litre | (max. 14 shelves) |
| 8107.160 | Additional shelf for Sahara 400 litre | (max. 18 shelves) |

DATALOGGER

All our ovens are equipped with a data logger for traceability and you can print/save graphs of temperature (for sahara ovens) and temperature/humidity (for Sahara DRY ovens)

To analyze the logged data and to set the thermal programmer is required the 8107.215 option which include the PidManager software and USB specific cable.

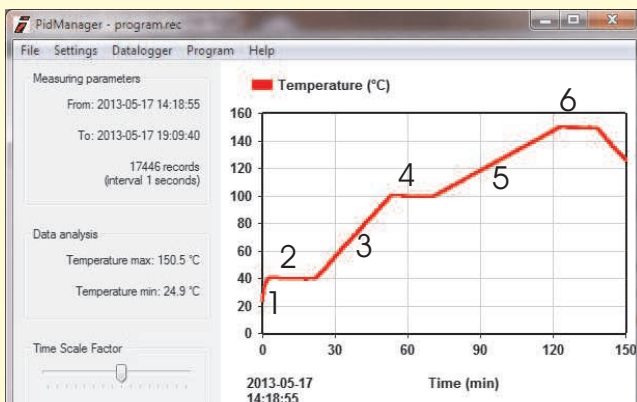
The software is compatible with Windows XP/7/8/10.

| | |
|------------------------------|-------------------------------------|
| Sample rate: | 1, 5, 10, 15,30 sec |
| | 1, 5, 10, 15, 30 min |
| Duration (T) Sahara | from 6 hour(1sec) to 450 day(30min) |
| Duration (T+RH%) Sahara Dry: | from 3 hour(1sec) to 225 day(30min) |

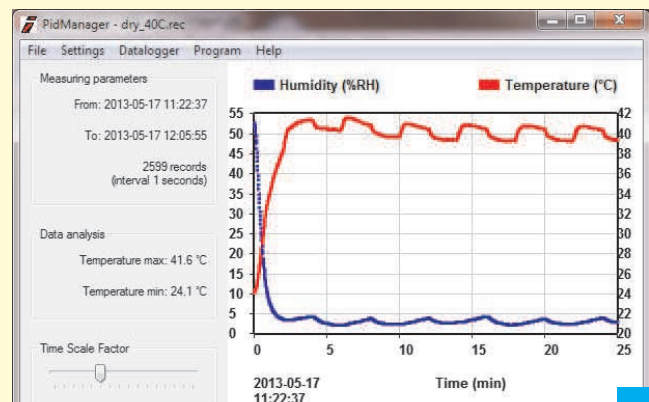
8107.215 PIDManager software and specific USB cable to set the thermal programs and to download and view datalogger records

Thermal Program :

- 1 SETPOINT 40°C / gradient MAX.
- 2 WAIT 20min @40°C
- 3 SETPOINT 100°C / GRADIENT<2°C/min
- 4 WAIT 20min @100°C
- 5 SETPOINT 150°C / GRADIENT<1°C/min



SAHARA 80L Thermal Program



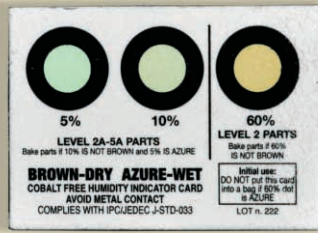
SAHARA DRY 80L 40°C <5% RH



DRY PACK



Humidity indicator card



7914.008

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

Moisture absorbing desiccant bags

7914.002
7914.005

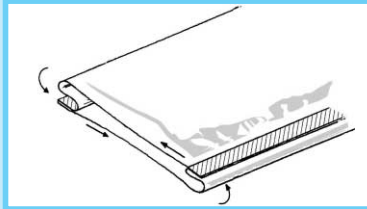
bags gr.12 1/3U-DIN (100 pcs)
bags Tyvek gr.34 1U-DIN(300 pcs)

FLAT BARRIER BAGS

They are normally used with vacuum tank sealers (internal aspiration).

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

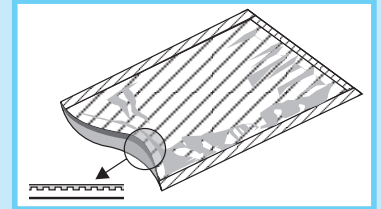
When using external aspiration vacuum sealers make sure that the two lateral bag borders are out of alignment in order to obtain two little air suction channels.



TEXTURED BARRIER BAGS

In external aspiration appliances textured bags are the best solution for an easy operation.

They are made with small straight rails parallel to the lateral sides that facilitate the output of the air during the aspiration job.



ESD MOISTURE BARRIER BAGS (Packaging of 100pcs)

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

Film complying: MIL-B-81705C class1 TC1 SBM356

Rs: $< 1 \times 10^{12} \Omega$

Electrostatic decay: $< 2 \text{ sec}$

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

NOT-ESD MOISTURE BARRIER BAGS (Packaging of 100pcs)

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

J-STD-033 doesn't require vacuum for dry-pack. Light air evacuation may be used to reduce the packaging bulk and enhance carton packing. Full evacuation **shall** not be used as it will impede desiccant and HIC performance and possibly lead to MBB puncture.



MBB with Too Much (Full) Evacuation



MBB with Recommended Light Air Evacuation

VacuWeld

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

VacuWeld



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