

EPA ORGANIZATION



FURNITURE, FLOOR
& ACCESSORIES

WORKSTATION
SUPPLIES &
STORAGE

-EUR@STAT-
A MEMBER OF DOU YEE

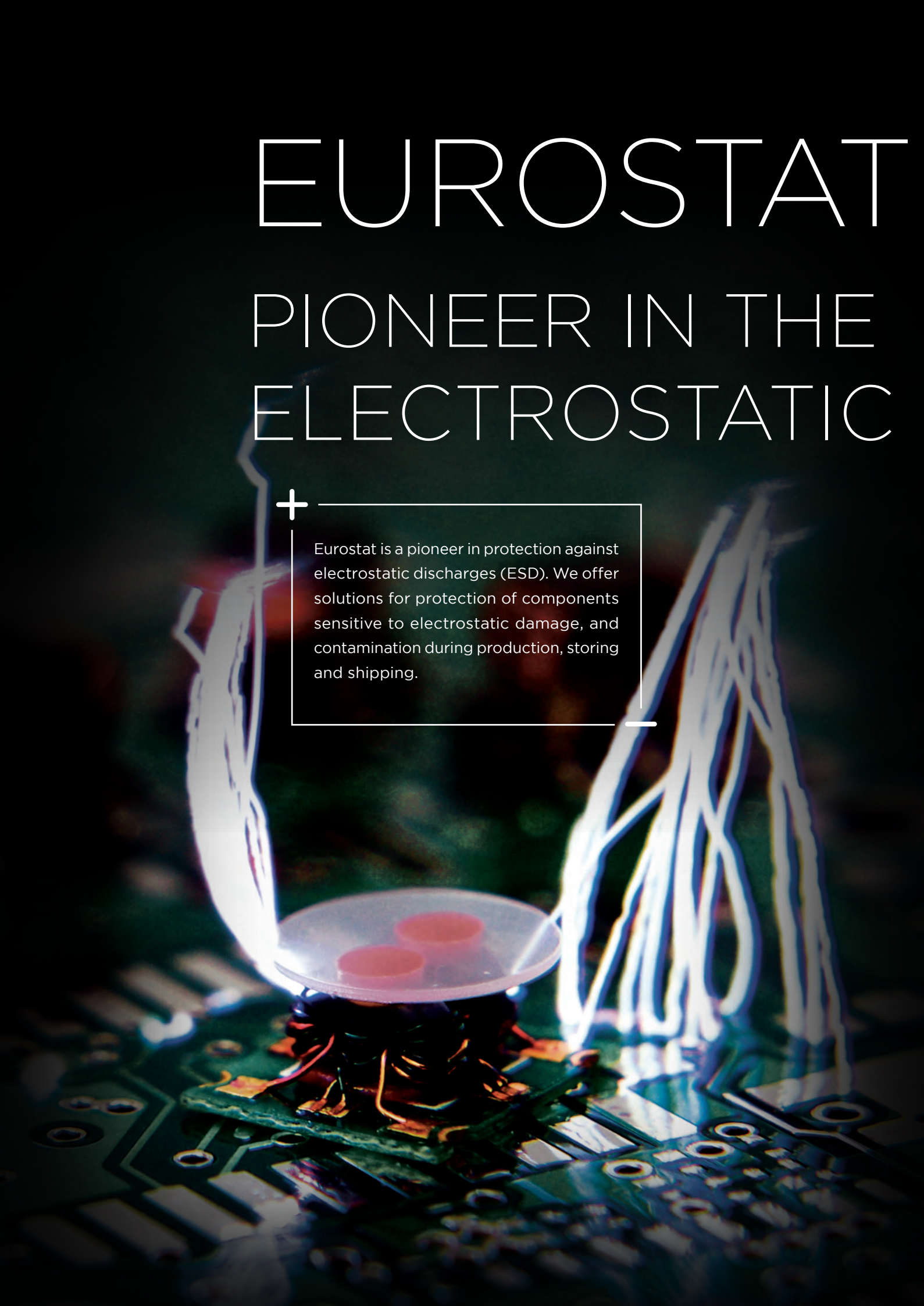
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EUROSTAT

PIONEER IN THE ELECTROSTATIC



Eurostat is a pioneer in protection against electrostatic discharges (ESD). We offer solutions for protection of components sensitive to electrostatic damage, and contamination during production, storing and shipping.



PROTECTION OF DISCHARGES

WHAT ARE ELECTROSTATIC DISCHARGES?

All materials are composed of atoms. Each atom is composed of a positive charge, around which gravitate many negative electrons. At rest, positive nucleus charges are equal to the sum of negative charges of the electrons that gravitate around them. The charge is therefore remains neutral. Static electricity is a phenomenon which happens when two surfaces contact each other and are then separated. It's at this moment that an exchange in electrons between both surfaces can occur. At this moment occurs a movement of electrons that creates charges at the surface of both materials.

This exchange of electrons between conductive materials (and man made materials) can occur suddenly, creating an electrostatic discharge with irreversible damage, especially to electrical components.

In order to avoid those damages, it is necessary to implement the protective measures aiming elimination of all static electricity sources and consequently, prevention of the electrostatic discharges. Nevertheless, if the static discharges appear, Eurostat has developed a whole range of materials and products, providing the protection for electrostatic sensitive devices such as PCBs.

Conductive

Allows a rapid discharge to ground that can have the same effect as an ESD discharge. These materials insure a bond with ground but do not mitigate the energy exchanged during a discharge..

Grounding
resistance less
than
 $R_g < 1 \times 10^4 \Omega$

Dissipative

Allows a slower discharge from the charge carrier to the ground, reducing the risk of potential damage.

Grounding
resistance is
between $10^4 <$
 $R_g < 1 \times 10^{11} \Omega$

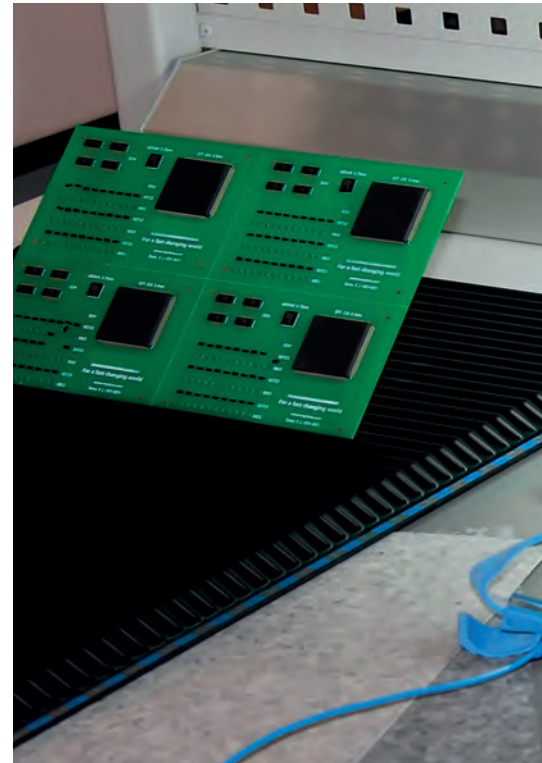
Insulative

Offer no grounding of electrostatic charges..

Offer no
grounding of
electrostatic
charges
 $R_g > 1 \times 10^{11} \Omega$

EPA ORGANIZATION

Eurostat provides a wide range of products and consumables for production areas and warehouses to protect against static discharges named EPA (ESD protected area).



EQUIPPING AN EPA

The necessary equipment to protect a production area is as follows:

- A workbench
- A fabric or vinyl chair (vinyl for clean rooms),
- A table mat,
- A wrist strap/cord
- A universal terminal to ground the wrist strap, if possible with an earth bonding point under the workbench,
- A grounding terminal plate to ensure the safety of the setup,
- A table ionizer.

Generally, it is recommended to keep 30 cm away any objects that are No -conductive (insulative) or radiating over 5,000 Volts/m or 125 Volts/Inches that are in immediate proximity of sensitive circuits, such as: water bottles, office supplies that can generate ESD, insulative packaging, etc. As well as any cellulose (paper, wood, cardboard...) based elements with a low hygrometry (<40%).

Clothing

As an important factor when it comes to electrostatic discharge generation, all personal must wear suitable ESD clothing that reduces risk of generating electrostatic discharge.

Dissipative lab coats are mandatory; they must not be covered in any insulative element (veil, badge, safety jacket, long hair etc.) and must cover the sleeves of the operator.

The floor

The floor of an EPA zone must be dissipative, and is required to ground the operator. He must be equipped with a strap/cord and proper shoes.

An ESD floor requires special cleaning, to avoid any risks of insulating its ESD properties. For example, you must avoid any cleaning product containing waxes or silicones.

Zone identification

It is important to identify and mark the areas where the workbenches are with appropriate signage on the walls and on the floor:

- Floor adhesive (workspace Identification) or guiding posts
- Signs at the entrances and exits of the EPA zones
- An instrument capable of testing wrist straps and/or shoes must be installed at the entrances of every EPA zone. Operators must test themselves before setting up.
- An instrument capable of ensuring an equal potential link between the operator, his workbench, and the ground.

Every safety or control device must be checked regularly.



ESD PREVENTION EQUIPMENT VERIFICATION

Every safety or control device must be checked regularly to be in line with the IEC 61340 norm.

- Measuring surface resistance (Tera Ohm meter)
- Measuring electrostatic charges (Field meter)

Each device must be calibrated every year in order to stay compliant with the IEC 61340 norm. Eurostat offers this service.

TRAINING

All staff must be aware of the risks that electrostatic discharges represent.

Eurostat offers 3 levels of training, from operator to ESD coordinator, to ensure that all staff follow good practices to be used within the EPA.

GLOSSARY

ABS: Acrylonitrile-Butadiene-Styrene

APET: Amorphous Polyethylene Terephthalate

Carbon Nanotubes: Two dimensional layers of carbon atoms, providing conductivity or dissipation to PS matrix, depending on concentration in the material

CPM: Charge Plate Monitor measures voltages applied to it's sensing plate.

Directive RoHS: European Directive: Limiting the use of certain dangerous substances in association with electrical and electronic components

EMI: Electromagnetic interference

EPA: Electrostatic Protected Area (An area of complete ESD protection)

ESD: Electro-static Discharge

European Standard IEC 61340-5-1: Protection of electro static sensitive devices

LDPE, HDPE: Low density PolyEthylene, High density PolyEthylene

PC: Polycarbonate

PCB: printed circuit board

PE: PolyEthylene

PP: PolyPropylene

PS: PolyStyrene

PU: Polyurethane

Rg: volume resistance: Resistance test between the surfaces of a material tested

Rpp: surface resistance: A measurement taken from the surface area of a material

Shielding: Material offering a Faraday cage

SMD: Surface Mount Devices

Standards EIA-583 / EIA-541 /EIA-625: Standards related to the packaging of humidity sensitive parts

TPU: Thermoplastic Polyurethanes

VCI: Vapor Corrosion Inhibitor

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TRAINING AUDIT & SERVICE

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01

FURNITURE, FLOOR & ACCESSORIES



Eurostat provides equipment to furnish an EPA : Workbenches, chairs, stools, floor and table mats, shelves, labelling and cleaning products...

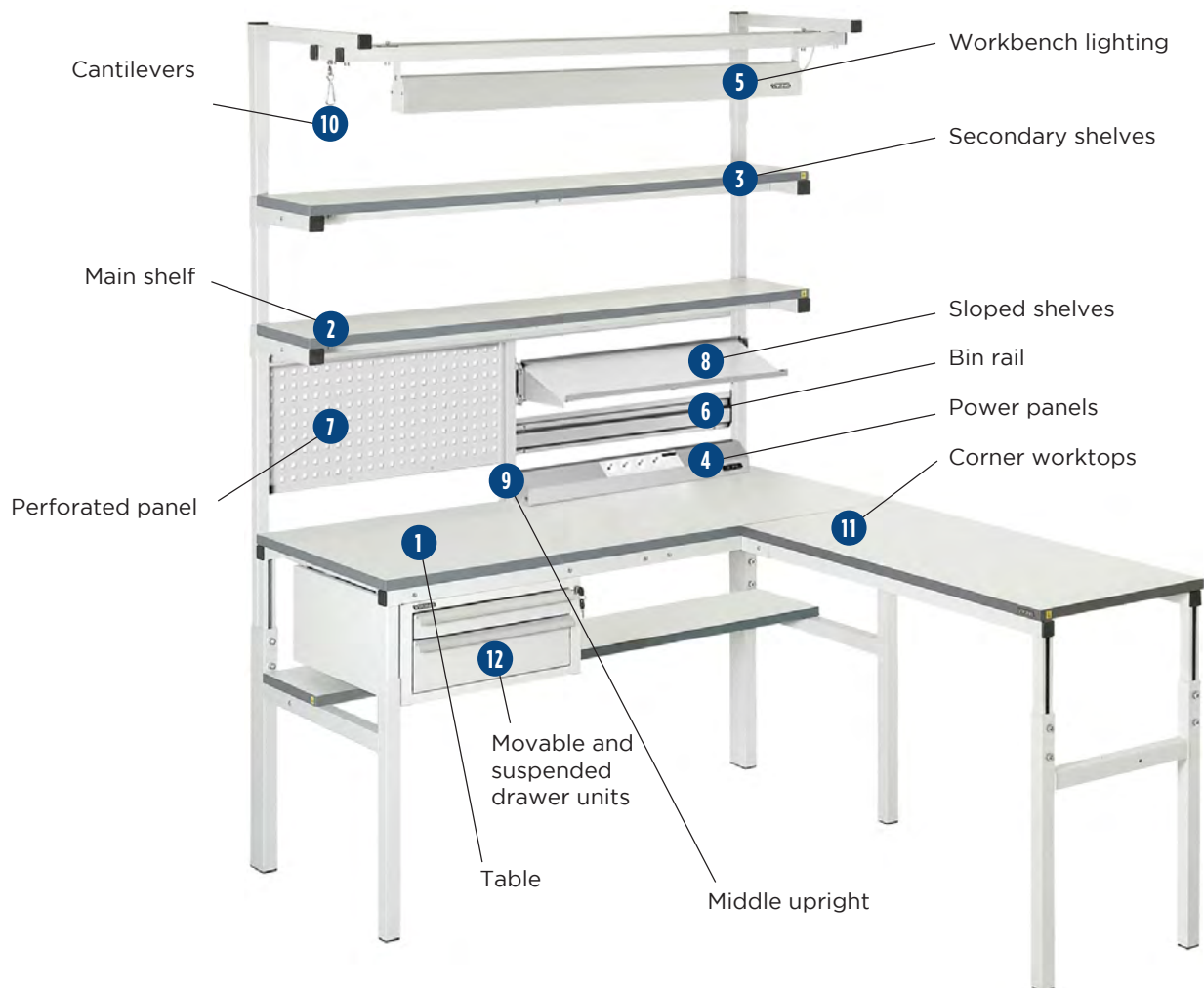


1. WORKBENCHES

Eurostat provide a wide range of ergonomic and customizable workbenches. Their flexibility allows operator to easily adjust the height and adapt the workstation to their individual needs.

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CLASSIC SERIES



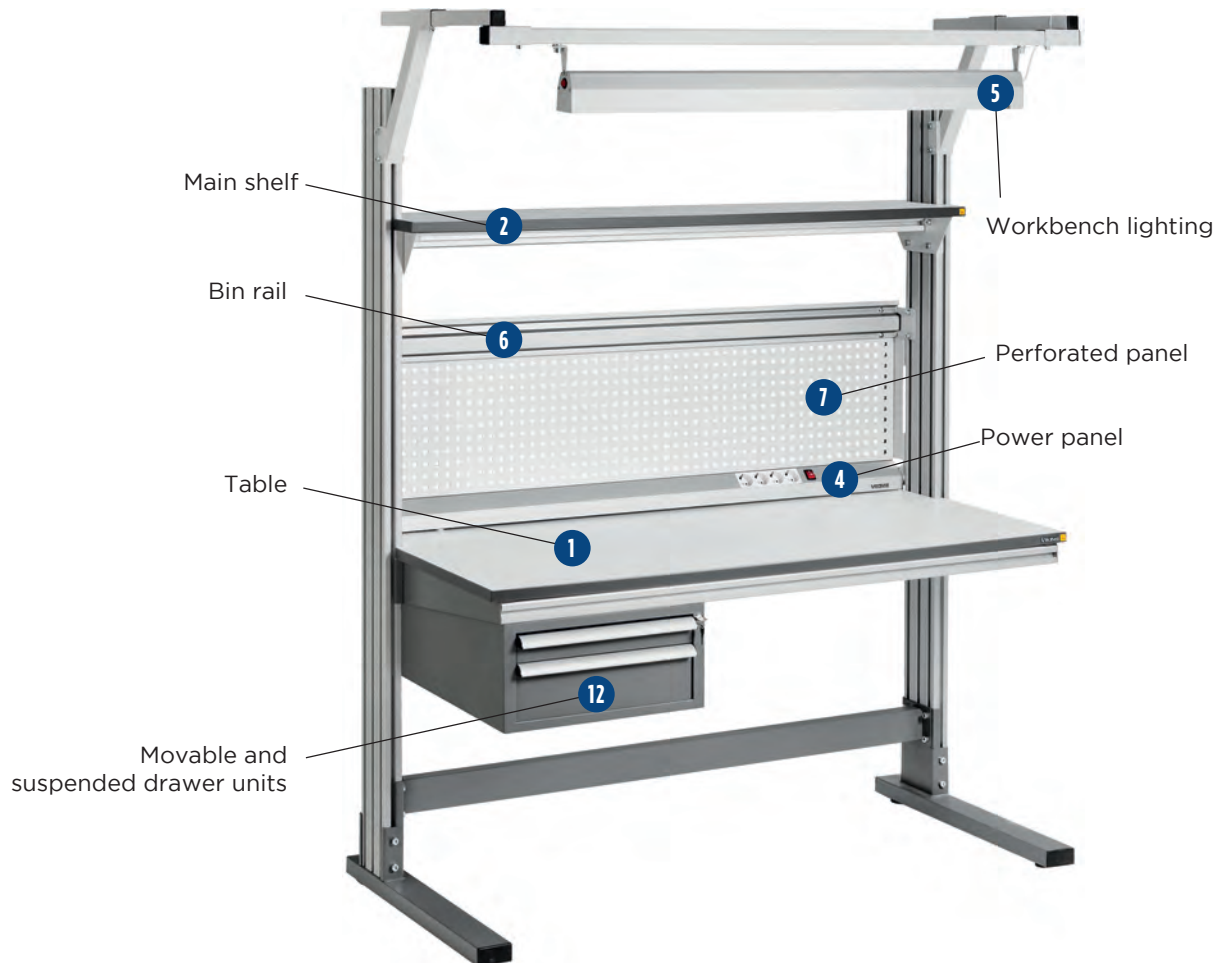
Technical data:

- Classic Series
- Mechanical height adjustment: 650-950 mm
- Maximum load capacities: 300 kg
- Temperature resistance: 300°C
- ESD properties



- **Mechanical height adjustment:** 650 - 950 mm
- **Maximum load capacities:** 300 kg
- **Temperature resistance:** 300 °C
- **ESD properties**

ALLIANCE SERIES



Technical data:

- Alliance motorized series
- Version without motorized height adjustment available.
- Delivered as a kit: Table, 1st shelf, lights or led lights, perforated panel
- Temperature resistance: 300 °C
- Complementary element can be added.
- Workstations can be joined in a row or back-to-back which reduces costs.
- ESD properties



MOTORIZED VERSION

- **Motorized height adjustment (button):** 700 - 950 mm
- **Speed:** 3 mm/s
- **Maximum load capacities:** 200 kg (table) and 100 kg (shelf)



NON-MOTORIZED VERSION

- **Mechanical height adjustment:** 600 - 1300 mm
- **Maximum load capacities:** 200 kg (table) and 100 kg (shelf)

01. FURNITURE, FLOOR & ACCESSORIES

1 Table

| Dimensions mm | Part Number Classic | Part Number Alliance |
|---------------|---------------------|----------------------|
| 1200 x 700 | 44-150-0100 | 44-150-0276 |
| 1200 x 900 | 44-150-0170 | - |
| 1500 x 700 | 44-150-0101 | 44-150-0215 |
| 1500 x 900 | 44-150-0172 | - |
| 1800 x 700 | 44-150-0102 | 44-150-0225 |
| 1800 x 900 | 44-150-0174 | - |

2 Main shelf

Rear racks are included

Technical data:

- **Height adjustment:** 1000-1800 mm
- **Maximum load capacities:** 50 kg
- ESD properties

| Reference model | Dimensions mm | Part Number Classic | Part Number Alliance |
|-------------------|---------------|---------------------|----------------------|
| 1200 mm workbench | 1200 x 300 | 44-150-0103 | included |
| 1200 mm workbench | 1200 x 400 | 44-150-0162 | included |
| 1500 mm workbench | 1500 x 300 | 44-150-0104 | included |
| 1500 mm workbench | 1500 x 400 | 44-150-0165 | included |
| 1800 mm workbench | 1800 x 300 | 44-150-0105 | included |
| 1800 mm workbench | 1800 x 400 | 44-150-0167 | included |

3 Secondary shelves (Main shelf necessary)

Main shelf must be previously installed

Technical data:

- **Height adjustment:** 1100-1800 mm
- **Maximum load capacities:** 50 kg
- ESD properties
- Colour: Grey

| Reference model | Dimensions mm | Part Number Classic | Part Number Alliance |
|-------------------|---------------|---------------------|----------------------|
| 1200 mm workbench | 1200 x 300 | 44-150-0160 | 44-150-0277 |
| 1200 mm workbench | 1200 x 400 | 44-150-0161 | 44-150-0278 |
| 1500 mm workbench | 1500 x 300 | 44-150-0163 | 44-150-0216 |
| 1500 mm workbench | 1500 x 400 | 44-150-0164 | 44-150-0279 |
| 1800 mm workbench | 1800 x 300 | 44-150-0166 | 44-150-0224 |
| 1800 mm workbench | 1800 x 400 | 44-150-0127 | 44-150-0280 |

4 Power panels

Basic configuration consists of 4 sockets placed in aluminum case with Protective contact and 3m cable. Panel can be equipped with additional sockets, earth leakage circuit breaker, automatic fuse and a phone jack.

Technical data:

- Nominal load capacity: 10 A
- Ground cord cross-section : 1,5 mm

| Reference model | Prerequisites | Dimensions mm | Part Nr. Classic | Part Nr. Alliance |
|-------------------|---|-------------------|------------------|-------------------|
| 1200 mm workbench | Either main shelf or rear racks required | 1200 | 44-150-0147 | Included |
| 1200 mm workbench | Verical middle upright 12/15/18 required - Either main shelf or rear racks required | 595 (demie rampe) | 44-150-0146 | - |
| 1500 mm workbench | Either main shelf or rear racks required | 1500 | 44-150-0139 | Included |
| 1500 mm workbench | Verical middle upright 12/15/18 required - Either main shelf or rear racks required | 745 (demie rampe) | 44-150-0148 | - |
| 1800 mm workbench | Either main shelf or rear racks required | 1800 | 44-150-0150 | Included |
| 1800 mm workbench | Verical middle upright 12/15/18 required - Either main shelf or rear racks required | 895 (half rack) | 44-150-0149 | - |

5 Workbench lighting

Either main shelf or rear racks required
Workbench lighting is placed in an aluminum case with 2 energy-efficient luminescent 54 W lamps, light direction regulation and shadowless reflector provided.
Quick switching on without shimmering, no strobing freeze

Technical data:

- Height adjustment: 500 - 1350 mm
- Illuminance at 1000 mm distance: 1200 lux central
- 800 lux en peripherals
- Colour: Grey

| Reference model | Dimensions mm | Part Number Classic | Part Number Alliance |
|-----------------|---------------|---------------------|----------------------|
| Poste 1200 mm | 1200 | 44-150-0192 | included |
| Poste 1500 mm | 1500 | 44-150-0140 | included |
| Poste 1800 mm | 1800 | 44-150-0184 | included |

01. FURNITURE, FLOOR & ACCESSORIES

6 Bin rail

Either main shelf or rear rack required

Technical data:

- Aluminum rail for bin storage placed along workbench length
- Maximum load capacities: 10 kg
- Half-size bin rails also available

| Reference model | Dimensions mm | Part Number Classic | Part Number Alliance |
|-------------------|---------------|---------------------|----------------------|
| 1200 mm workbench | 1200 | 44-150-0168 | 44-150-0273 |
| 1500 mm workbench | 1500 | 44-150-0142 | 44-150-0274 |
| 1800 mm workbench | 1800 | 44-150-0169 | 44-150-0275 |

7 Perforated panel

Technical data:

- Panels can be equipped with accessories
- Colour: Grey

| Reference model | Prerequisites | Dim. mm | Part Number Classic | Part Number Alliance |
|-------------------|---|-------------------------|---------------------|----------------------|
| 1200 mm workbench | Either main shelf or rear racks required | 1200 x 325 | 44-150-0155 | included |
| 1200 mm workbench | Verical middle upright 12/15/18 required Either main shelf or rear racks required | 560 x 505 (Half Pannel) | 44-150-0154 | - |
| 1500 mm workbench | Either main shelf or rear racks required | 1500 x 325 | 44-150-0141 | included |
| 1500 mm workbench | Verical middle upright 12/15/18 required Either main shelf or rear racks required | 710 x 505 (Half Pannel) | 44-150-0156 | - |
| 1800 mm workbench | Either main shelf or rear racks required | 1800 x 325 | 44-150-0136 | included |
| 1800 mm workbench | Verical middle upright 12/15/18 required - Either main shelf or rear racks required | 910 x 505 (Half Pannel) | 44-150-0157 | - |

8 Sloped shelves

Angle adjustment provides comfort monitoring of working equipment.

Technical data:

- Vertical middle upright rack 12/15/18 required
- Maximum load capacities: 50 Kg
- Colour: Grey

| Reference model | Dimensions mm | Part Number Classic | Part Number Alliance |
|-------------------|---------------|---------------------|----------------------|
| 1200 mm workbench | 534 x 295 | 44-150-0158 | - |
| 1500 mm workbench | 684 x 295 | 44-150-0131 | - |
| 1800 mm workbench | 834 x 295 | 44-150-0159 | - |

9 Middle upright

To divide the perforated panel in two parts.

| Reference model | Part Number Classic | Part Number Alliance |
|-------------------|---------------------|----------------------|
| 1200 mm workbench | 44-150-0176 | - |
| 1500 mm workbench | 44-150-0177 | - |
| 1800 mm workbench | 44-150-0178 | - |

10 Cantilevers

- Designed for easy-to-reach attaching of drawings, lighting and instruments
- Workbench lighting required

| Reference model | Dimensions mm | Part Number Classic | Part Number Alliance |
|-------------------|---------------|---------------------|----------------------|
| 1200 mm workbench | 1200 | 44-150-0151 | - |
| 1500 mm workbench | 1500 | 44-150-0152 | - |
| 1800 mm workbench | 1800 | 44-150-0153 | - |

11 Corner worktops

- ESD properties
- Surface resistance: $R_{pp} = 1,05 \times 10^8 \Omega$
- Ground resistance: $R_g = 2,3 \times 10^8 \Omega$
- Colour: Grey

| Reference model | Dimensions mm | Part Number Classic | Part Number Alliance |
|-----------------|---------------|---------------------|----------------------|
| CLASSIC models | 1200 x 500 | 44-150-0143 | - |

12 Movable and suspended drawer units

- Equipped with 550 mm telescopic drawers and central lock
- ESD properties
- Maximum load capacities per drawer: 30 kg
- Surface Resistance: $R_{pp} = 1,05 \times 10^8 \Omega$
- Resistance to ground: $R_g = 2,3 \times 10^8 \Omega$
- Colour: Grey

| Unit dimensions mm | Drawers number and dimensions mm | Weight kg | Part Number Classic | Part Number Alliance |
|---|--|-----------|---------------------|------------------------------------|
| SUSPENDED 490 x 354 x 580 | 1 drawer 400 x 45 x 505 2 drawers 400 x 100 x 505 | 20 | 44-150-0106 | Not available on motorized version |
| SUSPENDED 490 x 233 x 580 | 1 drawer 400 x 45 x 505 1 drawer 400 x 100 x 505 | 15 | 44-150-0123 | Not available on motorized version |
| MOVABLE on 4 castors 490 x 580 x 580 | 2 drawers 400 x 100 x 505 1 drawer 400 x 160 x 505 | 25 | 44-150-0193 | 44-150-0193 |
| MOVABLE on 4 castors 490 x 650 x 580 | 1 drawer 400 x 45 x 505 2 drawers 400 x 100 x 505 1 drawer 400 x 160 x 505 | 32 | 44-150-0112 | 44-150-0112 |

2. CHAIRS AND STOOLS

Chairs and stools are produced under strict quality control and especially designed for EPA and Cleanroom purposes. ESD safe armrest on request.

2.1. Vinyl chairs



Designed for environments sensitive to particle contamination and ESDs. The seats and backrests are covered with vinyl, the wheels are conductive. Glides available on request.

Technical data:

- Tear resistant and No -slip synthetic leather cover
- Surface resistance: $R_{pp} = 1 \times 10^6 \Omega$
- Ground resistance: $R_g = 1 \times 10^6 \Omega$
- Colour: Black
- 5 year warranty

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DIN EN ISO
14644-1



- Permanent contact backrest with seat tilt adjustment
- Seat and backrest height adjustment

| Seat height mm | Base | Foot | Footrest | Cleanliness | Part Nr. |
|----------------|-----------|--------------------|----------|-------------|-------------|
| 470-610 | Aluminium | Conductive castors | No | ISO 3 | 43-202-0004 |
| 630-890 | | Conductive glides | Yes | | 43-202-0009 |

2.2. Fabric comfort chairs



Black aluminum base, different possible adjustments: seat height and depth, seat inclination, backrest height and weight regulation. Change of the upholstery element with a single click.

Technical data:

- Seat depth: 420-480 mm
- Seat width: 470 mm
- Warranty: 5 years
- Surface resistance: $R_{pp} = 10^6 \Omega$
- Ground resistance $R_g = 10^6 \Omega$

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- Backrest: conductive
- ESD properties
- Other colours of strips available on request: green, orange, blue

| Seat height mm | Colour | Pieds | Part Nr. |
|----------------|---|---------|-------------|
| 450-620 | Black with grey stripes (Green, Orange, Blue on demand) | Castors | 43-202-0001 |

2.3. Fabric and vinyl chairs



Entirely ESD safe, perfectly adapted to EPA.
All surfaces are treated against ESD

Technical data:

- Surface resistance: $R_{pp} = 1 \times 10^6 \Omega$
- Ground resistance: $R_g = 1 \times 10^6 \Omega$
- Seat depth: 470 mm
- Seat width: 460 mm
- 5 year warranty

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- Backrest: Conductive plastic cover
- Seat and backrest height adjustment

| Seat height mm | Material | Colour | Foot | Footrest | Part Nr. |
|----------------|----------|--------|---------|----------|-------------|
| 440 - 590 | Fabric | Blue | Castors | No | 43-201-0020 |
| | | Black | | | 43-201-0040 |
| 580 - 850 | | Blue | Glides | Yes | 43-201-0120 |
| | | Black | | | 43-201-0140 |
| 440 - 590 | Vinyle | Black | Castors | No | 43-201-0060 |
| | | | Glides | Yes | 43-201-0160 |

2.4. Ergonomic chairs



Heavy-duty fabric for intensive industrial use.
Standard aluminum base.
These chairs contribute to an ergonomic workplace.

Technical data:

- Seat depth: 470mm
- Seat width: 440mm
- $R_g < 1 \times 10^9 \Omega$
- 5 years warranty on mechanical parts.

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- Height-adjustable seat and backrest (adjustable angle of 8 °)

| Seat height mm | Colour | Foot | Footrest | Anti ESD armests | Part Nr. |
|----------------|--------|---------|----------|------------------|-------------|
| 390-540 | Grey | Castors | No | No | 43-600-2005 |
| | Grey | | No | Yes | 43-600-2105 |
| 540-740 | Grey | | Yes | No | 43-600-2010 |
| | Blue | | Yes | No | 43-600-2011 |
| | Grey | | Yes | Yes | 43-600-2110 |
| 590-840 | Grey | | Yes | No | 43-600-2015 |

2.5. Polyurethane chairs (pu)



Technical data:

- Aluminum base, diameter 60 cm
- Rg < $1 \times 10^6 \Omega$
- Colour: Black

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- Adjustable Back height
- Conductive soft castors

| Seat height mm | Work height mm | Footrest | Part Nr. |
|----------------|----------------|----------|-------------|
| 440-570 | 700-800 | No | 43-600-3200 |
| 520-710 | 800-900 | Yes | 43-600-3205 |
| 580-830 | 900-1000 | Yes | 43-600-3210 |

2.6. Polyurethane stools (pu)



Technical data:

- Aluminium base
- Rg < $1 \times 10^6 \Omega$
- Colour: Black

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- Ergonomic and comfortable backrest
- Variable height adjustment
- Seat rotation: 360°C

| Seat height mm | Description | Part Nr. |
|----------------|--|-------------|
| 510-780 | Standing stool with glides and foot ring | 43-605-0001 |

2.7. Standing stool



Aluminium ESD safe stand stool

Technical data:

- Rg < 1 x 10⁶ Ω
- Colour: Black

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- Excellent safety thanks to a stable base
- Integrated comfort handles
- Easy to clean
- Space-saving, light and easy to move around

| Seat height mm | Part Nr. |
|----------------|-------------|
| 620-850 | 43-605-0002 |

2.8. Foot rest



Technical data:

- Conductive plastic with metal frames
- Height adjustment

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- Adjustable tilt angle
- Version with no height adjustment available on request

| Dimensions mm | Part Nr. |
|--------------------|-------------|
| 420 x 320 x 80/290 | 44-310-5125 |

3. CHROME PLATED SHELVES AND TROLLEYS

3.1. Shelves



Technical data:

- Standard units available with 4 to 5 shelves
- Raw material: Chrome plated metal
- Surface resistance Rpp: $< 1 \times 10^5 \Omega$
- Maximum load per shelf: 200 kg
- Maximum total load: 500 kg

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Compliant



- Adjustable feet
- Adjustable individual shelf height

| Dimensions mm | Nr. of shelves | Height mm | Part Nr. |
|---------------|----------------|-----------|-------------|
| 460 x 1220 | 4 | 1590 | 40-020-0005 |
| 610 x 1220 | 4 | 1590 | 40-020-0010 |
| 610 x 1520 | 4 | 1590 | 40-020-0015 |
| 610 x 1520 | 5 | 1900 | 40-020-0020 |
| 610 x 1820 | 4 | 1590 | 40-020-0025 |
| 610 x 1820 | 5 | 1900 | 40-020-0030 |

3.2. Trolleys



standard trolley type available with 2 or 3 shelves per trolley

Technical data:

- Material: chrome plated metal
- Surface resistance Rpp $< 1 \times 10^4 \Omega$
- Maximum load per trolley: 200 kg

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Compliant



Conductive rubber swiveling castors (2 with brakes)

| Dimensions mm | Nr. of shelves | Part Nr. |
|------------------|----------------|-------------|
| 460 x 760 x 1030 | 2 | 40-010-0005 |
| 460 x 760 x 1030 | 3 | 40-010-0010 |
| 610 x 910 x 1030 | 2 | 40-010-0015 |
| 610 x 910 x 1030 | 3 | 40-010-0020 |

a. Chrome plated wire shelves for reels



| Dimensions mm | Part Nr. |
|---------------------------------|-------------|
| 460 x 910 designed for 39 reels | 40-101-0001 |
| 460 x 910 designed for 15 reels | 40-101-0005 |

b. Chrome plated posts

| Dimensions mm | Part Nr. |
|---------------|-------------|
| 755 | 40-150-0030 |
| 1390 | 40-150-0054 |
| 1590 | 40-150-0063 |
| 1900 | 40-150-0074 |
| 2185 | 40-150-0086 |

c. Accessories

| Description | Part Nr. |
|--|-------------|
| Set of 4 pairs of half aluminum sleeves (for 1 shelf) | 40-180-0260 |
| U-Handle for 460mm wide trolley, chrome plated (2 per trolley) | 40-180-0005 |
| U-Handle for 610mm wide trolley, chrome plated (2 per trolley) | 40-180-0010 |
| Push handle for 460mm mobile shelf, chrome plated | 40-180-0025 |
| Push handle for 460mm mobile shelf, chrome plated | 40-180-0030 |
| Bumper (non ESD safe) to be used on trolleys and mobile shelving units | 40-170-0010 |
| Set of 4 wheels (2x shifted, 2x brakes) to be used on trolleys and mobile shelving units | 40-170-0005 |

d. EVA matting for shelves

EVA plastic to cover shelving, benching, trolleys.

Thickness mm 1.5

Technical data:

- Delivered without any accessories
- Surface resistance Rpp: $1 \times 10^5 \Omega$
- Maximum width: 1100mm
- Core diameter: 76mm
- Colour: Black



- Extremely competitive option
- Cut to size on demand

Maximum temperature of use **50°C**

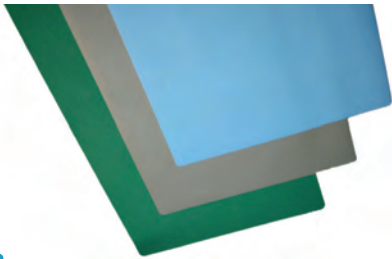
IEC 61340 Compliant

| Dimensions m | Part Nr. per roll |
|--------------|-------------------|
| 24 x 1,10 | 32-500-2410 |
| 24 x 0,55 | 32-500-2455 |

4. TABLE MATS AND FLOOR GROUNDING

4.1. Table mats

a. Standard version



No soldering resistance, dissipative top layer and conductive bottom layer for excellent path to ground.

Thickness mm **2.0**

Technical data:

- Surface resistance Rpp:
Top layer $\leq 1 \times 10^8 \Omega$
Bottom layer $\leq 1 \times 10^4 \Omega$

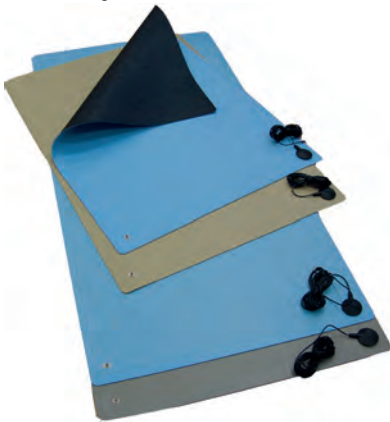
IEC 61340
Compliant

Dimensions **Colour** **Part Nr.**

| | | |
|-------------|-------|-------------|
| 0,61 x 10 m | Green | 32-918-0800 |
| 1,00 x 10 m | Green | 32-918-1000 |
| 0,61 x 10 m | Grey | 32-918-0801 |
| 1,00 x 10 m | Grey | 32-918-1001 |
| 0,61 x 10 m | Blue | 32-918-0802 |
| 1,00 x 10 m | Blue | 32-918-1002 |

b. High temperature resistant version

Dissipative top layer, conductive bottom layer for excellent path to ground, easy to clean, high durability.



Thickness mm **2.1**

Technical data:

- Surface resistance Rpp:
Top layer $\leq 1 \times 10^9 \Omega$
Bottom layer $\leq 1 \times 10^4 \Omega$
- Ground resistance Rg: $\leq 3,5 \times 10^7 \Omega$

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Soldering heat resistant.
Pre-cut mats are supplied with 2 x 10mm male studs and grounding cord (ref 30-560-1510)

| Shape | Dimensions | Colour | Part Nr. |
|---------------|----------------|--------|-------------|
| Complete roll | 1,22 m x 10 m | Beige | 32-190-1102 |
| Complete roll | 1,22 m x 10 m | Grey | 32-190-1103 |
| Complete roll | 1,22 m x 10 m | Blue | 32-190-1104 |
| Pre-cut | 61 cm x 90 cm | Beige | 32-200-2609 |
| Pre-cut | 61 cm x 90 cm | Grey | 32-200-3609 |
| Pre-cut | 61 cm x 90 cm | Blue | 32-200-4609 |
| Pre-cut | 60 cm x 120 cm | Beige | 32-200-2612 |
| Pre-cut | 60 cm x 120 cm | Grey | 32-200-3612 |
| Pre-cut | 60 cm x 120 cm | Blue | 32-200-4612 |

c. PVC Version



Flame retardant, oil resistant, water and chemical resistant, no discoloration

Thickness mm **3.2**

Technical data:

- Surface resistance Rpp: $1 \times 10^7 - 1 \times 10^9 \Omega$
- Ground resistance Rg: $1 \times 10^7 - 1 \times 10^9 \Omega$
- Static decay: < 1,9 s
- Colour: Blue

| Dimensions | Part Nr. |
|--------------------------------|-------------|
| Complete roll 120 cm x 10 m | 32-921-1200 |



- Smooth surface is easy to clean and maintain, cleanroom compatible
- Dimensionally stable

d. Field service kit



Dedicated to a technician operating on site.

Kit includes:

- High quality static dissipative work surface 54 x 61 cm
- Adjustable fabric 10mm stud wrist strap
- Grounding cord connection for wrist strap/mat

Thickness mm **0.8**

Technical data:

- Dimensions: 540 x 610 mm
- Surface resistance Rpp: $< 1 \times 10^7 \Omega$
- Ground resistance Rg: $< 1 \times 10^7 \Omega$
- Colour: Red

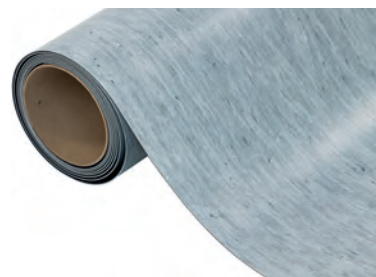
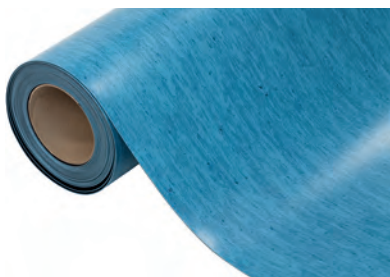
Part Nr. : 31-560-0502



- Provides effective static protection in a compact package that fits easily into most tool cases.
- Two pockets sewn onto the work surface for cords storage.

4.2. Floors

a. Vinyl floor mats



| Dimensions | Colour | Part Nr. |
|---------------|--------|-------------|
| 150 cm x 25 m | Blue | 32-913-5005 |
| 150 cm x 25 m | Beige | 32-913-5006 |
| 150 cm x 25 m | Grey | 32-913-5007 |



- Made out of vinyl material with dissipative top layer
- Excellent grounding properties
- Easy to clean and excellent durability

Thickness mm **2.0**

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Technical data:

- Ground resistance Rg: $1 \times 10^6 \Omega$
- Roll length : 25 m
- Total roll weight : 112 kg
- Weight : 3000 g/m²
- Surface: smooth
- Reverse side : sanded

Welding rod on request (part number: 32-990-0001)

b. Rubber floor mats



Thickness mm **2.5**

Technical data:

- Ground resistance Rg: $1 \times 10^6 \Omega < Rg < 1 \times 10^8 \Omega$
- Abrasion resistance: $\leq 200 \text{ mm}^3$
- Hardness : 85 +/- 5 Shore A
- Indentation : $\leq 0,25 \text{ mm}$

| Dimensions | Colour | Part Nr. |
|--------------------------------|--------|-------------|
| Complete roll 1,22 m x 10 m | Grey | 32-154-2329 |



Dissipative top-layer and conductive bottom layer.

c. Sticky mats

To be placed outside an EPA area for footwear decontamination

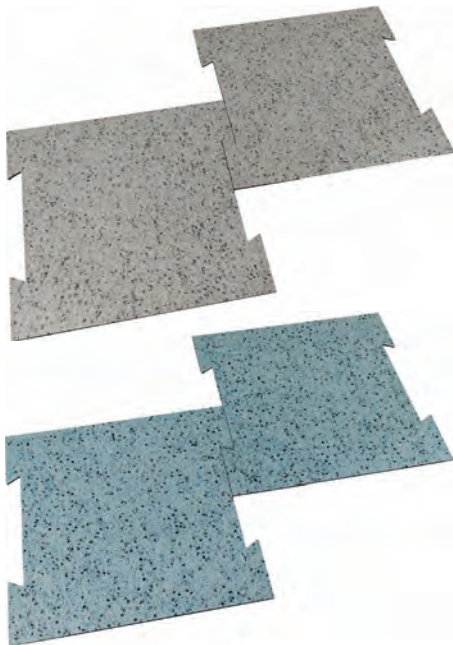


Technical data:

- Non ESD safe material
- The mat consists of 30 removable layers
- Material: Polyethylene (LDPE)
- Thickness: 50mm (+/- 10%)

| Dimensions mm | Colour | Part Nr. |
|---------------|--------|-------------|
| 600 x 900 | Blue | 32-917-2436 |
| 660 x 1140 | Blue | 32-917-2645 |
| 457 x 1143 | White | 32-375-6031 |
| 610 x 915 | White | 32-375-6032 |
| 660 x 1143 | White | 32-375-6033 |

d. Interlocking floor tiles -Q- block



Technical data:

- Particularly suitable when it is requested to often change the EPA layout and for high traffic areas.
- Can be loose laid on every kind of floor.

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| Dimensions mm | Colour | Part Nr. |
|---------------|--------|-------------|
| 500 x 500 x 4 | Grey | 32-160-0401 |
| 500 x 500 x 4 | Blue | 32-160-0402 |

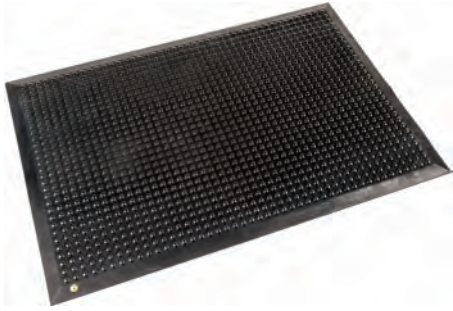


Lower conductive layer and top dissipative layer.

e. Anti-fatigue solutions

Dissipative anti slip mat with bubble surface

| Dimensions mm | Part Nr. |
|---------------|-------------|
| 960 x 660 | 32-917-6001 |
| 1260 x 960 | 32-917-6002 |



Especially designed for standing work positions

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Compliant

Thickness mm **14**

Technical data:

- Dissipative anti slip mat with bubble surface
- Ground resistance Rg: $1 \times 10^5 - 1 \times 10^7 \Omega$
- Surface resistance Rpp: $1 \times 10^5 - 1 \times 10^7 \Omega$
- Colour: Black



Highest standing comfort with the bubble surface. Also Available with flat circular discs to allow easy access for trolleys

Dissipative anti slip mat with diamond embossed surface

| Dimensions mm | Part Nr. |
|---------------|-------------|
| 610 x 910 | 32-917-7005 |
| 610 x 1840 | 32-917-7010 |



Thickness mm **16**

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Technical data:

- Yellow safety border is highly visible with ESD logo embedded in the corners
- Ground resistance: $< RgL 1 \times 10^5 - 1 \times 10^7 \Omega$
- Surface resistance: $1 \times 10^5 < Rpp < 1 \times 10^7 \Omega$
- Colour: Black with 2 yellow safety borders



Fitted with 2 x 10 mm male grounding studs, 3 m grounding cord with crocodile clip and banana included.

4.3. Acrylic adhesive



- Permanent or release bond
- High bond strength

Technical data:

- Solvent free
- Capacity: 5 Liters
- Coverage rate (approx.): 4m² per liter
- Storage: between 5°C and 30°C

Part Nr. : 32-990-0002

4.4. Black conductive tubing

Carbon loaded conductive PolyEthylene.

Caution! The use of black conductive PE bags or tubing might be detrimental to electronic components due to the high speed of the electrostatic discharge on the surface.



can substitute copper and used as a conductive matrix for grounding floors.

Thickness μm (+/- 10%) **100**

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Compliant
ROHS Directive

Technical data:

- Surface resistance R_{pp} : $< 1 \times 10^5 \Omega$
- Résistance de volume R_g : $< 1 \times 10^5 \Omega$
- Colour: Black

| Dimensions | Part Nr. |
|----------------|-------------|
| 76 mm x 152 m | 20-851-0005 |
| 102 mm x 152 m | 20-851-0010 |

4.5. Grounding kit

Includes a 100mm stud, copper adhesive and a grounding plug.

| Description | Part Nr. |
|---------------|-------------|
| Grounding kit | 30-552-5046 |

5. GROUNDING ACCESSORIES

5.1. Connection from workbench to ground



Adaptor

| Features | Part Nr. |
|---|-------------|
| Banana plug/10mm studs Should be connected to a wire | 30-552-6012 |



UK grounding plug

| Features | Part Nr. |
|--------------|-------------|
| 3 x BP 10 mm | 30-552-0610 |



EU grounding plug

| Features | Part Nr. |
|--------------|-------------|
| 3 x BP 10 mm | 30-552-0615 |

01. FURNITURE, FLOOR & ACCESSORIES

c. Grounding Plug



30-552-0605

30-552-0620

Technical Data

- Earthing plug providing a reliable path to electrical main earth
- Material: ABS
- Resistor: 1 MΩ



Wide choice of connections

Earthing plug

| Connections | EU plug | UK plug |
|---|-------------|-------------|
| 3 x 7 mm studs | 30-552-0605 | 30-552-0600 |
| 3 x 10 mm studs | 30-552-0615 | 30-552-0610 |
| 2 x M5 eyelet | 30-552-0625 | 30-552-0620 |
| 2 x M5 eyelet connections 7 & 10mm + banana | 30-552-0635 | 30-552-0630 |
| 3 x bananas | 30-552-6007 | / |

5.2. Universal grounding box and earthing plugs

a. Universal box



Part Nr. : 30-560-0039

Technical Data

- Snaps (4, 4.5, 7 and 10mm)
- Complete with 3 meter cord with eyelet
- Material: Yellow ABS
- Dimensions: 78 x 28 x 35 mm
- No resistance



- Universal grounding solution compatible with all existing wrist strap connections: banana plugs, GSGS, snaps

b. L-Shape earth bonding bracket

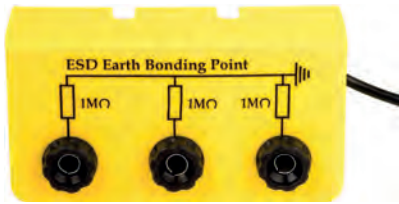


Technical Data

- 3m of black cord, right output
- Material: Yellow ABS
- Dimensions: 110 x 16,5 x 33 mm
- Security resistance: 1 MΩ



Other configuration on request, with a minimum order



Characteristics

Reference

| | |
|--|-------------|
| Grounding system with 3 x 10mm male studs | 30-551-3020 |
| Grounding system with 3 x 7mm male studs | 30-551-3030 |
| Grounding system with 3 x banana connections | 30-551-3040 |

d. Grounding accessories for mats

To ground mats directly, to an earthing terminal or mat to mat . Resistance: 1 MΩ

Link to Earthing Terminal

| Mat connection | Ground connection | Length m | Reference |
|----------------------|-------------------|----------|-------------|
| 2 x 10mm female Stud | / | 1,80 | 30-560-0210 |
| 2 x 10mm male Stud | / | 1,80 | 30-560-0211 |
| 2 x 10mm female Stud | / | 0,15 | 30-560-0214 |
| 2 x 10mm female Stud | / | 0,60 | 30-560-0215 |



Serie 30-560-021X



Serie 30-560-151X

Mat grounding

| Mat connection | Ground connection | Length m | Reference |
|--|-------------------|----------|-------------|
| 10mm molded female Stud | Eyelet | 4,50 | 30-560-1510 |
| 10mm molded male Stud | Eyelet | 4,50 | 30-560-1511 |
| 10mm male Stud + 2 holes for bananas | Eyelet | 3,00 | 30-560-0048 |
| 10mm female Stud + 2 holes for bananas | Banana | 3,00 | 30-560-0049 |
| 10mm female Stud + 2 fiches GSGS | Eyelet | 3,00 | 30-560-0148 |

01. FURNITURE, FLOOR & ACCESSORIES

5.3. Stud assembly tool



To equip table or floor mats for grounding.

| Description | Reference |
|--|--|
| Snap fastener, 10mm male to be used for rigid table/floor mats up to 3mm | 30-560-0033 - Bags of 10 pcs 30-552-0045 - Bags of 50 pcs |
| Snap fastener, 10mm female to be used for rigid table/floor mats up to 3mm | 30-560-0034 - Bags of 10 pcs 30-552-0030 - Bags of 50 pcs |
| Snap fastener, 10mm male to be used for soft table/floor mats | 30-560-0050 - Bags of 10 pcs |
| Snap fastener, 10mm female to be used for soft table/floor mats | 30-560-0051 - Bags of 10 pcs |
| Metal tool kit for studs | 30-552-6035 |

5.4. Cords

WRIST STRAP COIL CORDS

- Resistance: 1 MΩ
- Female stud connections
- Colour: Black



- Other connections and lengths on request
- Types of connections to fit most grounding systems worldwide



Coil cords

| Connections | Length m | Reference |
|--------------------|----------|-------------|
| 4 mm / banana | 1,80 | 30-560-0604 |
| 4 mm / banana | 3,00 | 30-560-1004 |
| 7 mm / banana | 1,80 | 30-560-0607 |
| 7 mm / banana | 3,00 | 30-560-1007 |
| 10 mm / banana | 1,80 | 30-560-0610 |
| 10 mm / banana | 3,00 | 30-560-1010 |
| 4 mm / 10 mm stud | 1,80 | 30-560-0641 |
| 7 mm / 7 mm stud | 1,80 | 30-560-0677 |
| 10 mm / 10 mm stud | 1,80 | 30-560-0611 |
| 7 mm / 10 mm stud | 1,80 | 30-560-0671 |
| 4 mm / GSGS | 1,80 | 30-560-0614 |
| 4 mm / GSGS | 3,00 | 30-560-1014 |
| 4 mm / eyelet | 3,60 | 30-560-1214 |



Dual Conductor Coiled Cords

- Designed to operate with workstation monitors
- Resistance: 1 MΩ
- Length: 1.80 m

Reference : 30-560-0600

5.5. Operator grounding systems



Fabric wrist strap

Metal wrist band

Plastic wrist band

Dual cord wrist straps

a. Fabric wrist straps



- Both sides are conductive
- Adjustable to any wrist size

Connection Reference

| Connection | Reference |
|------------|-------------|
| 4 mm stud | 30-560-0004 |
| 7 mm stud | 30-560-0007 |
| 10 mm stud | 30-560-0010 |

Crimson red colour, allows operator grounding to avoid electrostatic discharge to components.

Technical Data

- Material Non allergenic
- $R_g < 1 \times 10^5 \Omega$
- Male stud connection
- Washable
- Colour: Crimson red

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b. Metal wrist bands



- Insulated external side and conductive internal side
- Adjustable to any wrist size

Connection Reference

| Connection | Reference |
|------------|-------------|
| 4 mm stud | 30-560-4004 |
| 7 mm stud | 30-560-4007 |
| 10 mm stud | 30-560-4010 |

Superior reliability for grounding operators

Technical Data

- Conductive bracelets
- $R_g < 1 \times 10^5 \Omega$
- Superior reliability
- Nickel free
- Male stud connection

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01. FURNITURE, FLOOR & ACCESSORIES

c. Plastic wrist bands

Clean room compatible.



- Hygienic washable wrist band
- Insulated external side and conductive internal side

Technical Data

- Thermoplastic material
- $R_g < 1 \times 10^5 \Omega$
- Male stud connection
- Colour: Blue

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Connection Reference

| Connection | Reference |
|------------|-------------|
| 4 mm stud | 30-560-0104 |
| 7 mm stud | 30-560-0107 |
| 10 mm stud | 30-560-0110 |

d. Dual cord wrist straps

Designed to operate with the workstation monitors.

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Fabric

Dual cord wrist strap.



- Both sides are conductive
- Adjustable to any wrist size

Technical Data

- Non allergenic material
- $R_g < 1 \times 10^5 \Omega$
- Male stud connection
- Washable
- Colour: brown, polyester fiber

Reference : 30-560-3004

Metal

Dual cord wrist strap.



- Insulated external side and conductive internal side
- Conductive wrist band

Technical Data

- Nickel free
- $R_g < 1 \times 10^5 \Omega$
- Male stud connection

Reference :
Size S : Reference 30-560-3010
Size L : Reference 30-560-3011

5.6. HAND LOTION



- Moistens skin for better contact between the wrist band and the skin.
- Absorbed immediately, does not interfere with grip or dexterity.

Bottle characteristics Capacity Part Nr.

| Bottle characteristics | Capacity | Part Nr. |
|------------------------|----------|-------------|
| No ESD | 230 ml | 41-097-0005 |
| ESD | 450 ml | 41-097-0010 |
| No ESD | 900 ml | 41-097-0015 |
| No ESD | 3,75 m | 41-097-0020 |
| ESD | 230 ml | 41-097-6000 |

6. EPA WASTE BINS

6.1. Waste bins



Black PP conductive waste bin

Features

- 40 liters
- Liquid compatible
- $R_g < 1 \times 10^5 \Omega$
- **Dimensions:** 330 x 235 x 530 mm

Part Nr. : 41-094-0110



Black PP conductive waste bin

Features

- 13 liters
- Liquid compatible
- $R_g < 1 \times 10^5 \Omega$
- **Height:** 310 mm
- **Top diameter:** \varnothing 300 mm

Part Nr. : 41-094-2473



Black PE conductive waste bin

Features

- 112 liters
- Dry waste only
- $R_g < 1 \times 10^5 \Omega$
- **Dimensions:** 400 x 400 x 700 mm
Customized sizes on request

Part Nr. : 23-172-3343b

01. FURNITURE, FLOOR & ACCESSORIES



Black PE conductive waste bin

Features

- 112 liters with wheels
- Dry waste only
- Surface resistance $R_{pp} < 1 \times 10^5 \Omega$
- **Dimensions:** 400 x 400 x 700 mm

Part Nr. : 23-172-3344



Black PP conductive waste bin

Features

- 240 liters
- $R_g < 1 \times 10^5 \Omega$
- **Dimensions:** 700 x 660 x 860 mm
- Handle raised position 1230mm
- Handle lowered position 1010mm

Part Nr. : 41-094-6017

6.2. Waste bags

Pink PE low tribocharging bags to be used in waste bins.
Typical surface resistance value: $R_{pp} < 1 \times 10^{11} \Omega$.

Dimensions



| Features | Dimensions (mm) Width x Gusset x Height | Thickness μm | Part Nr. |
|---|---|----------------------------|-------------|
| Waste bags for 15 liter bins (50 bags) | 300 x 600 x (100 + 100) | 25 +/-10% | 41-095-0005 |
| Waste bags for 40 liter bins (10 bags) | 450 x 750 x (180 + 180) | 23 +/-10% | 41-095-0007 |
| Waste bags for 120 liter bins (10 bags) | 680 x 1180 x (150 + 150) | 23 +/-10% | 41-095-0010 |
| Waste bags for 180 liter bins (10 bags) | 800 x 1300 x (200 + 200) | 28 +/-10% | 41-095-0013 |

7. ESD AWARENESS

7.1. Floor adhesive tapes



42-005-0035



42-005-0005



42-005-0020

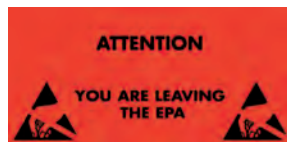
| Features | Material | Adhesive | Dimensions | Part Nr. |
|--|---|-----------------------|---------------------------|-------------|
| ESD PROTECTED AREA with ESD logo heavy duty and abrasion resistant ESD properties | PVC static dissipative floor tape | Antistatic Acrylic | Per roll: 50 mm x 33 m | 42-005-0035 |
| ESD PROTECTED AREA with ESD logo heavy duty and abrasion resistant Not ESD safe version | PVC floor tape | Natural rubber | Per roll: 50 mm x 66 m | 42-005-0005 |
| ESD PROTECTED AREA with ESD logo abrasion resistant and durable | - | - | Sticker 60 x 120 mm | 42-005-0020 |

7.2. Signs

Eurostat offers various signs in yellow (entering and inside EPA) or red (leaving EPA), displayed overhead, wall mounted or on bench tops.



42-153-0005



42-153-0010



42-153-9005



42-153-9010

| Text | Colour | Dimensions | Language | Part Nr. |
|--|--------|------------|----------|-------------|
| ATTENTION - ESD PROTECTED AREA Observe precautions for handling electrostatic discharge sensitive devices | Yellow | 600 x 300 | English | 42-153-0005 |
| ATTENTION - You are leaving the EPA | Red | 600 x 300 | English | 42-153-0010 |
| ATTENTION - Zone protégée ESD Respecter les précautions de manipulation des dispositifs sensibles aux décharges électrostatiques | Yellow | 600 x 300 | French | 42-153-9005 |
| ATTENTION Vous quittez la zone protégée contre les ESD | Red | 600 x 300 | French | 42-153-9010 |

7.3. Stickers

| | Text | Description | Dim. mm | Part Nr. |
|---|--|--|-----------|----------------|
|  | / | Yellow triangle Jedec label | 25 x 25 | 42-150-0010 |
|  | ATTENTION Zone protégée contre les ESD Respecter les précautions de manipulation des produits sensibles aux décharges électrostatiques | Label “protected area” | 300 x 205 | 42-150-9004 FR |
|  | ATTENTION Zone protégée contre les ESD Respecter les précautions de manipulation des produits sensibles aux décharges électrostatiques | Label “protected area” | 400 x 300 | 42-150-9005 FR |
|  | Zone de travail contrôlée. Manipulation interdite à toute personne non autorisée | Label “protected area” | 200 x 100 | 42-150-9007 FR |
|  | Port du bracelet obligatoire | Yellow label “wrist strap wearing” label | | 42-150-9008 FR |
|  | Date contrôle | Yellow label, “date of checking” label | 60 x 20 | 42-150-9009 |
|  | ATTENTION Ne pas ouvrir avant usage. Utiliser cet emballage pour le retour de l'article remplacé. Cet emballage protège de l'électricité statique. Personnes et postes de travail doivent être mis à la terre pendant les travaux de réparation. | Yellow label Text in French, English and German | 60 x 100 | 42-150-9010 |
|  | ATTENTION Respecter les précautions de manipulation des produits sensibles aux décharges électrostatiques. | Yellow label | 50 x 60 | 42-150-9011 FR |
|  | Point de connexion | Yellow label “connection point” | Ø 40 | 42-150-9013 FR |
|  | / | Yellow label For shielding bags | | 42-151-0005s |

| | | | | |
|---|--|--------------|--------------------|----------------|
|  | ATTENTION Entering EPA | Yellow label | | 42-152-0005 EN |
|  | Grounding point | Yellow label | 25 x 44 | 42-152-1100 EN |
|  | ATTENTION vous quittez la zone protégée contre les ESD | Red label | 210 x 300 | 42-152-9010 FR |
|  | ATTENTION Observe precautions for handling electrostatic discharge sensitive devices | Yellow label | 25 x 45 | 42-150-0015 EN |
|  | ATTENTION Static sensitive devices Handle only at static safe work stations | Yellow label | 40 x 60 | 42-150-0020 EN |
|  | ATTENTION Respecter les précautions de manipulation des produits sensibles aux décharges électrostatiques | Yellow label | 25 x 45 | 42-150-0040 FR |
|  | ATTENTION Observe precautions for handling electrostatic discharge sensitive devices | Yellow label | For shielding bags | 42-150-0041 EN |
|  | ATTENTION Circuits sensibles à l'électricité statique. Manipulation uniquement autorisée sur un poste de travail protégé | Yellow label | 40 x 60 | 42-150-9003 FR |

7.4. High visibility waistcoat



Features

- Colour: fluorescent yellow (available in orange)
- Material: 98% polyester, 2% conductive fibers.
- ESD properties

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Size

Part Nr.

| Size | Part Nr. |
|------|-------------|
| S | 51-910-7004 |
| M | 51-910-7000 |
| L | 51-910-7001 |
| XL | 51-910-7002 |
| XXL | 51-910-7003 |



- Reflective: 2 x 50mm glass bead reflective tapes sewn in position
- Fastening: plastic stud on the front.
- Personalized marking on request.

7.5. Banner and retractable belt barrier

a. Guiding post with belt



Features

- one-side printed: "ESD PROTECTED AREA"
- Colour: black and yellow
- Posts height 910 mm
- Post diameter 350 mm
- Length of the streamer 3 m
- Surface resistance: $R_{pp} < 1 \times 10^9 \Omega$

Reference 42-154-0005

b. Streamer with wall bracket



Features

- Both printed sides « ESD PROTECTED AREA »
- Colour: Black and yellow
- Wall bracket height 133 mm
- Wall bracket diameter 60 mm
- Length of the streamer 3 m
- Surface resistance $R_{pp} < 1 \times 10^9 \Omega$

Part Nr. 42-154-0006

8. CLEANING PRODUCTS

8.1. Liquid products

a. Floor stripper



Non-ammoniated, biodegradable no harsh odors. This stripper will not damage or dull flooring when used according to manufacturer's instructions. Non-streaking and low foaming.

Features

- Effective in hard or soft water
- Should be applied once a year
- **Capacity:** Bottle 3.75 liters

Part Nr. : 41-100-4010

b. Cleaner for mats



Mat and surface cleaner for easy removal of dirt and stains. Usable for all types of surfaces including table, floor mats, table tops, and field service kits. (to be applied after stripper).

Features

- Leaves no tacky or corrosive residue.
- Usable for table mats as a weekly cleaner
- Usable for floor mats as an annual cleaner

1 Liter spray bottle : Part Nr. 32-600-0001

20 liters bottle : Part Nr. 32-600-0020

c. Cleaning product



Features

- A long-lasting and economical formula
- Non-toxic and non-corrosive
- Suitable for industrial clean rooms ISO 5 and above
- Formula: sodium and chloride free
- Cleanroom compatible
- **Capacity:** Bottle 95 cl

Part Nr. : 41-100-5001

01. FURNITURE, FLOOR & ACCESSORIES

d. Varnishes



Ultra floor finish

High quality and high performance

Features

- Extended stripping cycle that can last for up to 24 months
- Dries faster and with higher gloss
- intensity than other ESD finishes
- No other ESD floor finish can match Staticide Ultra for electrical properties,
- durability and gloss finish
- Maximizes the stripping cycles
- Coverage: 35 to 50 m² per liter
- **Capacity:** Bottle 3,75 liters

Part Nr. :41-100-4600



Acrylic floor finish

Economic acrylic floor finish for EPA

Features

- Designed to provide high performance static control on any sealed or hard surface in manufacturing production areas, Staticide Acrylic Floor Finish is a high solid, solution to protect sensitive manufacturing areas from the dangers of static build up.
- Should be applied once a year after the use of 41-100-4010 stripper and 32-600-0001 or 0020 cleaner
- **Capacity:** Bottle 3.75 liters

Part Nr. : 41-100-4000

e. Wipers



Cleanroom wiper containing carbon fibers

Designed for use in ESD sensitive environments.

Features

- Cleanroom compatible
- ESD properties
- **Dimensions:** 9 x 9" (23 x 23cm)

Part Nr. : 41-100-1003

Wipers 55% cellulose, 45% polyester

Features

- Cleanroom compatible
- ESD properties
- Cleanliness : ISO 5
- **Dimensions:** 9 x 9" (23 x 23cm)

Part Nr. : 41-100-1301

Wipers 100% polyester

Features

- Good water and oil absorption
- Soft and comfortable, not scratching the surface
- ESD properties
- Cleanliness : ISO 5
- **Dimensions:** 9 x 9" (23 x 23cm)

Part Nr. : 41-100-1300

8.2. Sticky rolls



Sticky roll to avoid particle contamination.
Material: 100% silicone
Dimensions: 4", 6", 8", 12"

Features

- Offering an excellent adhesive surface and durability, removing contaminating particles.
- Use with adhesive paper.
- Cleanroom compatible
- ESD properties
- Cleanliness : ISO 5

Description

Part Nr.

| Description | Part Nr. |
|----------------------|-------------|
| Sticky roll - 102 mm | 41-099-6041 |
| Sticky roll - 152 mm | 41-099-6043 |
| Sticky roll - 203 mm | 41-099-6045 |
| Sticky roll - 305 mm | 41-099-6047 |

8.3. Paper for sticky rolls

White adhesive paper with strong viscosity.

Dimensions: 330 x 240 – 50 films

Features

- Removes dust and particles
- High density surface glue

Part Nr. : 41-099-6049

8.4. ESD Safe Brooms and Dustpan Kit

a. Broom



Features

- Long broom with conductive brush head and a detachable Aluminium shaft
- ESD broom
- Brush head 400 mm

Part Nr. : 41-099-6009

b. Bench brush with soft hairs



Features

- **Length:** 360 mm
- **Hair length :** 67 mm
- **Hair surface:** 180 mm

Part Nr. : 41-099-0076

c. Safe broom and dustpan kit



Features

- Conductive PP broom head with a conductive aluminium shaft.
- **Dimensions (LxI):**
Broom 880 x 230 mm
Dustpan 900 x 260 mm

Part Nr. : 41-099-6052

8.5. Vacuum cleaners



Special field service and EPA mini vacuum cleaner (suction and blow options), to remove dust and debris from electronic equipment subject to contamination and static build up.

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Compliant

Features


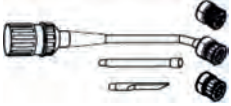





Part Nr.

| | |
|---|-------------|
| Vacuum cleaner 230 V, 1300 W | 41-098-5011 |
| Vacuum cleaner 230 V, 1300 W (electronic potentiometer version) | 41-098-5012 |

Features:

- Blowvac' cleaner - with suction and blow options (power controlled)
- Premium quality electronic component for reliability
- Conductive accessories including hard and soft nozzles and shoulder strap
- Special 1.2 liter multilayer filter system
- Low noise yet retaining excellent suction strength
- Industrial vacuum cleaners on demand

a. Vacuum cleaners accessories

| Description | Item | Part Nr. |
|--|--|-----------------------------|
| Multi-ply filter-bag sets 10 packs | - | 41-098-6001 |
| Spare Filter | - | 41-098-6002 |
| Micro motor filter | - | 41-098-6023 |
| Vacuum cleaner | - | 41-098-5011 and 41-098-5012 |
| Two piece suction tube L=105cm / L=380cm (extended) |  | 41-098-6007 |
| Brush set |  | 41-098-5009 |
| Long soft rubber nozzle |  | 41-098-6004 |
| Brush head |  | 41-098-6005 |
| D-shape brush nozzle |  | 41-098-6008 |
| D-shape brush nozzle medium grade hair |  | 41-098-6009 |
| Extension hose assembly + connector L=85cm / L=350cm (extended) |  | 41-098-6026 |

02

WORKSTATION SUPPLIES & STORAGE



For complete workstation organization, Eurostat offers a wide range of storage, office supplies and tools especially dedicated to an EPA.



1. WORKBENCH ORGANIZERS

1.1. Picking bins



25-304-2003



25-304-2006

Conductive component bins for storing components, bins of equal width can be stacked and are compatible with most brands.

Technical data:

- Material: Black conductive polypropylene copolymer
- Surface resistance Rpp: $< 1 \times 10^4 \Omega$

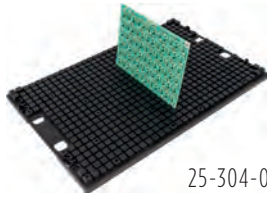
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Compliant

| External dimensions mm | Internal dimensions mm | Capacity liter | Part Nr. |
|------------------------|------------------------|----------------|-------------|
| 85 x 95 x 45 | 63 x 91 x 44 | 0,25 | 25-304-2001 |
| 160 x 95 x 75 | 133 x 87 x 66 | 1 | 25-304-2002 |
| 230 x 140 x 130 | 193 x 126 x 110 | 3,8 | 25-304-2003 |
| 350 x 200 x 145 | 273 x 183 x 130 | 9,4 | 25-304-2006 |
| 350 x 200 x 200 | 270 x 179 x 185 | 12,5 | 25-304-2005 |
| 500 x 300 x 145 | 428 x 281 x 129 | 20 | 25-304-2007 |
| 500 x 300 x 200 | 426 x 282 x 185 | 28 | 25-304-2004 |
| 500 x 300 x 300 | 423 x 280 x 285 | 42 | 25-304-2008 |

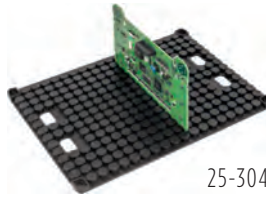
PCB holders

Surface resistance $< 1 \times 10^5 \Omega$

| Description | Material | Ext. Dim. mm | Number of slots | Part Nr. |
|---|---------------|-----------------|-----------------|-------------|
| Black cond. PCB holder | PS conductive | 357 x 257 x 14 | 13 x 19 | 25-304-0006 |
| Black cond. PCB holder | PS conductive | 557 x 357 x 22 | 19 x 31 | 25-304-0007 |
| Carrying handles for PCB holder 25-304-0007 | - | - | - | 25-304-0008 |
| "L" shape rack | PS conductive | 500 x 222 x 162 | 35 | 24-204-1662 |
| "L" shape rack High temperature resistance | ABS/PC | 500 x 222 x 162 | 35 | 24-202-1662 |
| Black PCB holder (light version) | PS conductive | 437 x 160 x 30 | 25 | 25-304-0100 |
| Black PCB holder | PS conductive | 265 x 205 x 95 | 25 | 25-304-0101 |
| Black PCB holder | PS conductive | 480 x 170 x 50 | 25 | 25-304-0102 |



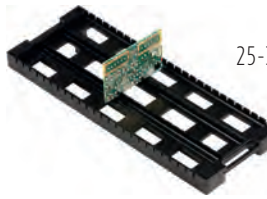
25-304-0006



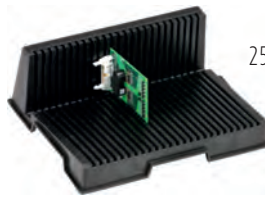
25-304-0007



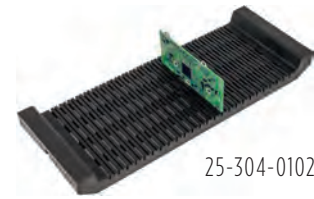
24-204-1662



25-304-0100



25-304-0101



25-304-0102

1.2. Reel boxes

Offer different ways of storing reels of components.



Customized versions on demand.

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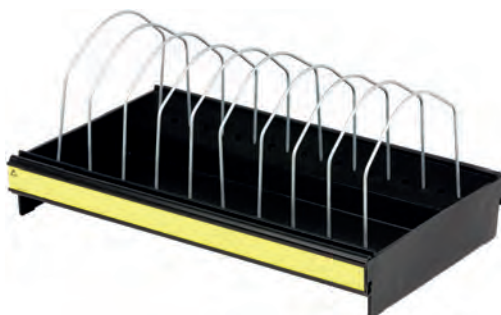


24-204-9453



24-204-9454

| Ext. Dim. mm | Reel Dim. mm | Compartments | Material | Part Nr. |
|--------------------------------------|--------------|--------------|---------------|-------------|
| 362 x 188 x 102 | 180 | 23 | PS conductive | 24-204-9453 |
| 560 x 365 x 174 | 330 | 39 | PS conductive | 24-204-9454 |
| 400 x 250 | 180 x 330 | De 10 à 20 | PS conductive | 23-173-6023 |
| Additional holder(s) for 23-173-6023 | | | | 23-173-6024 |
| 300 x 200 x 180 | 180 | 15 | PE conductive | 23-173-1732 |
| 500 x 200 x 180 | 180 | 25 | PE conductive | 23-173-1384 |
| 500 x 350 x 200 | 330 | 25 | PE conductive | 23-172-2125 |
| 500 x 350 x 320 | 330 | 16 | PE conductive | 23-172-1683 |



23-173-6023



23-173-1732

02. WORKSTATION SUPPLIES & STORAGE

1.3. SMD cabinets

Storage cabinets for small components.



25-305-3005



25-305-3015

Technical data:

- The design combines the use of a strong, conductive PP frame and galvanized steel shelves.
- Supplied with labels and connector for earth lead.
- Material : Conductive polypropylene
- Surface resistance Rpp: $\leq 1 \times 10^4 \Omega$
- Colour: Black

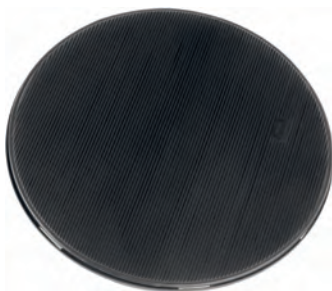


- All cabinets can be wall mounted placed on bench top turntable, or simply free standing in the workshop.
- Available in 2 sizes with heights 290mm and 550mm.

IEC
61340 Compliant
RoHS Directive

| Number of drawers | Drawers ext. dim. mm | Drawers nt. dim. mm | Part Nr. |
|-------------------|----------------------|---------------------|-------------|
| 24 | 180 x 310 x 290 | 100 x 85 x 62 | 25-305-3005 |
| 12 | 180 x 310 x 290 | 100 x 175 x 62 | 25-305-3015 |
| 48 | 180 x 310 x 550 | 100 x 85 x 62 | 25-305-4005 |
| 24 | 180 x 310 x 550 | 100 x 175 x 62 | 25-305-4010 |

1.4. ESD safe turntables



Swivel plate for frictionless pivoting of any element placed on it's surface (components, cabinets).

Technical data:

- Material: conductive rubber surface and plastic disc
- Colour: Black
- Surface resistance Rpp: $\leq 10^6 \Omega$
- Volume resistance Rg: $\leq 10^7 \Omega$

IEC
61340
Compliant

| Diameter mm | Part Nr. |
|-------------|-------------|
| 380 | 44-310-5120 |
| 500 | 44-310-5121 |

1.5. Eurostat conductive magazines



Robust and light makes them easy to handle throughout the production facility.

Designed to insert and remove printed circuit boards on production lines, conductive and ESD safe ($R_{pp} < 1 \times 10^5 \Omega$) and compatible with most automatic component insertion machines. They are easily adjusted to PCB dimensions.

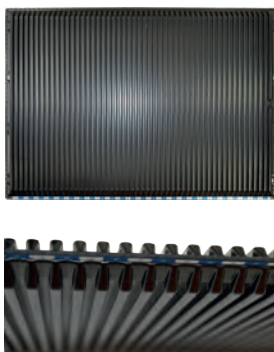
Technical data:

- Strong construction from thermoformed plastic with metal reinforcement
- Light in weight and extremely rigid
- Assembled using rivets and ultrasonic welding
- Each magazine is delivered with a partition
- The PCB cards are placed between the fixed partitions (10mm grooves) and the mobile partitions (grooves on both sides)
- Vertical pitch 10mm - Width adjustable to 5mm pitch
- Additional partition and covers on demand.

IEC
61340
Compliant

Magazines

| Width | Depth | Height | PCB maximal width | Grooves per plate | Part Nr. PS conductive | For temperatures under 60°C | For temperatures under 110°C |
|-------|-------|--------|-------------------|-------------------|------------------------|-----------------------------|------------------------------|
| | | | | | | Part Nr. ABS/PC conductive | Part Nr. ABS/PC conductive |
| 320 | 350 | 560 | 247 | 50 | 22-150-0943 | | 22-151-0943 |
| 370 | 370 | 560 | 297 | 50 | 22-150-1154 | | 22-151-1154 |
| 400 | 425 | 560 | 327 | 50 | 22-150-1187 | | 22-151-1187 |
| 420 | 460 | 560 | 357 | 50 | 22-150-0817 | | 22-151-0817 |
| 450 | 425 | 560 | 377 | 50 | 22-150-0891 | | 22-151-0891 |
| 470 | 480 | 560 | 397 | 50 | 22-150-1083 | | 22-151-1083 |



Partitions

| Description | Bac | Part Nr. PS conductive | For temperatures under 60°C | For temperatures under 110°C |
|------------------|-----------|------------------------|-----------------------------|------------------------------|
| | | | Part Nr. ABS/PC conductive | Part Nr. ABS/PC conductive |
| Reference plate | 0943/1154 | 97-001-0004 | | 97-011-0006 |
| Adjustable plate | | 97-001-0003 | | 97-011-0005 |
| Reference plate | 1187/0891 | 97-001-0002 | | 97-011-0002 |
| Adjustable plate | | 97-001-0001 | | 97-011-0001 |
| Reference plate | 0817/1083 | 97-001-0008 | | 97-011-0004 |
| Adjustable plate | | 97-001-0007 | | 97-011-0003 |

02. WORKSTATION SUPPLIES & STORAGE

1.6. Quickfill magazines

Strong injection moulded construction with metal reinforcement (top and bottom).



Technical data:

- Not subject to accidental change in width; nor wear of moving parts
- Partition is made of assembled plastic parts, the system provides better dimensional stability to large temperature variations
- Meant for 50 PCB's
- Slide guide slot depth: 3.5 mm
- Slide guide slot pitch: 10 mm



- Meet standard dimensions most frequently used on automated lines
- Standardized plates that fit most popular brands on the market

Maximum temperature of use: 60°C

Material:

Conductive PS for plastic parts and galvanized steel for metal parts

| Dimensions mm | PCB Size Min/Max | Slide guide slot width | Adjustment system | Frame | Part Nr. |
|---------------|------------------|------------------------|-------------------|-------|----------|
|---------------|------------------|------------------------|-------------------|-------|----------|

| | | | | | |
|-----------------|-----------|---|------------|-------|-------------|
| 460 x 400 x 563 | 50 / 300 | 5 | Screws | Metal | 22-152-3060 |
| 355 x 320 x 563 | 50 / 250 | 5 | Gear track | Metal | 22-152-4060 |
| 460 x 400 x 563 | 100 / 310 | 5 | Gear track | Metal | 22-152-6060 |
| 535 x 460 x 570 | 50 / 390 | 5 | Gear track | Metal | 22-152-7060 |
| 535 x 530 x 570 | 120 / 460 | 5 | Gear track | Metal | 22-152-8060 |

Maximum temperature of use: 110°C

Material:

Conductive ABS/PC for plastic parts and galvanized steel for metal parts

| Dimensions mm | PCB Size Min/Max | Slide guide slot width | Adjustment system | Frame | Part Nr. |
|---------------|------------------|------------------------|-------------------|-------|----------|
|---------------|------------------|------------------------|-------------------|-------|----------|

| | | | | | |
|-----------------|----------|---|------------|-------|-------------|
| 460 x 400 x 563 | 50 / 300 | 5 | Screws | Metal | 22-152-1120 |
| 355 x 320 x 563 | 50 / 250 | 5 | Gear track | Metal | 22-152-2120 |
| 535 x 460 x 570 | 50 / 390 | 5 | Gear track | Metal | 22-152-3020 |

1.7. Customized magazines



Eurostat can develop customized magazines on request

2. ESD BINDERS AND POUCHES



IEC
61340
Compliant

2.1. ESD Binders

Material: PE conductive

| Description | Back width mm | Part Nr. |
|-------------------------------------|------------------|--------------|
| A4 Binders / 4 Rings + label holder | 25 | 41-090-1421a |
| A4 Binders / 4 Rings + label holder | 55 | 41-090-1422a |
| A4 Binders / 4 Rings + label holder | 65 | 41-090-1423a |
| A4 Binders / 2 Rings + label holder | 55 | 41-090-1481a |
| A3 binder / 4 Rings | 55 | 41-090-1568 |

Yellow ESD symbol on the back.



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Compliant

Material: PP conductive

| Description | Back width mm | Part Nr. |
|--|------------------|-------------|
| A4 Binders / 4 Rings (Swedish version) | 55 | 41-090-6000 |
| A4 Binders / 4 Rings (Swedish version) | 38 | 41-090-6001 |
| A4 Binders / 4 Rings | 55 | 41-090-6028 |
| A4 Binders / 4 Rings | 38 | 41-090-6027 |

Binder with rings with a label holder.



IEC
61340
Compliant

Material: Blue dissipative vinyl

| Description | Back width mm | Part Nr. |
|----------------------|------------------|-------------|
| A4 Binders / 4 Rings | 40 | 41-090-6023 |
| A4 Binders / 4 Rings | 50 | 41-090-6024 |

- Yellow ESD symbol on the back
- Clean room compatible



2.2. ESD Document holder

Dissipative ESD document holder

| Description | Part Nr. |
|-------------------------------------|--------------|
| A4 U model with side perforation | 41-093-0005 |
| A4 L model without side perforation | 41-093-0015A |

2.3. ESD safe pouches for laminating document



Perfect solution for all kind of papers, instructions, wall signs and notices within the EPA

Thickness μm (+/- 10%) **80**

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61340
Compliant

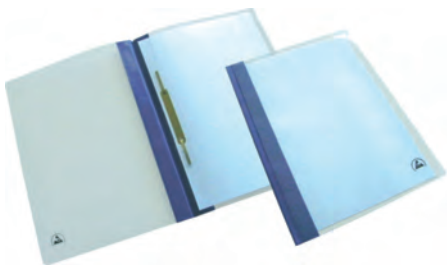
Format **Part Nr.**

| | |
|----|-------------|
| A4 | 41-090-6008 |
| A3 | 41-090-6009 |

Technical data:

- Simply place your documents in the pouch and insert sealed edges into laminator
- Material: Polyester/EVA permanent static dissipative
- Density: 95 g/m²
- Elongation: MD 161% / TD 120% Roll
- Surface resistance Rpp: < 1 x 10⁹ Ω
- Charge decay time (1000V to 100V): < 2 seconds

2.4. ESD safe quick release file



ESD safe transparent document holder for A4 documents.

Technical data:

- Material: permanently static dissipative PVC
- Dimension: suitable for A4 documents
- Surface resistance Rpp: 1 x 10¹⁰ – 1 x 10¹¹ Ω
- Colour: Front and back cover transparent - Blue filing clip

Part Nr. : 41-093-0092

2.5. ESD Paper



Designed for use in copy machines and printers, clean room compatible
 Coated with a proprietary polymer formulation preventing fragmentation of individual cellulose fibers that would normally lead to particle generation and migration
 Each package is wrapped and poly-bagged for added protection, suitable for cleanroom use.

Colour **Part Nr.**

| | |
|-------|-------------|
| Blue | 41-092-0010 |
| White | 41-092-0011 |

Technical data:

- Weight: 72 g/m²
- Thickness: 85 μm
- Charge generation: < 50 v/cm²
- Surface resistance Rpp: < 1 x 10¹¹ Ω

Part Nr. : 41-093-0092

2.6. Clip board



Dissipative plastic clip board.

Technical data:

- With metal clip
- Suitable for A4 documents
- Clean room compatible
- Surface resistance: $R_{pp} < 10^8 \Omega$

IEC
61340
Compliant

Part Nr. : 41-090-6003

2.7. ESD flip over system

Technical data:

- **Base dimensions** : 19 x 19 cm
- **Height** : 35,5 cm
- Surface resistance $R_{pp} < 1 \times 10^6 \Omega$

Description

Part Nr.

| | |
|---------------------------------------|-------------|
| Wall mounted with 10 document pockets | 41-090-6005 |
| Wall mounted with 20 document pockets | 41-090-6016 |
| Wall mounted with 30 document pockets | 41-090-6017 |
| Wall mounted with 50 document pockets | 41-090-6018 |
| Table stand with 10 document pockets | 41-090-6006 |
| Table stand with 20 document pockets | 41-090-6019 |
| Table stand with 30 document pockets | 41-090-6020 |
| Table stand with 50 document pockets | 41-090-6021 |
| Pack of 10 document pockets | 41-090-6007 |

3. OFFICE SUPPLIES

3.1. Illuminating magnifier



Technical data:

- Magnification: 2.25 x
- Lighting: 22W, 6400K
- Colour: Black
- Diopter : 5
- ESD properties
- Surface resistance $R_{pp} 1 \times 10^3 - 1 \times 10^8 \Omega$

IEC
61340
Compliant

Part Nr. : 44-311-0601

3.2. ESD Calculator



- Material: ABS
- Surface resistance Rpp: $1 \times 10^5 - 1 \times 10^9 \Omega$

Part Nr. : 41-092-0100

IEC
61340
Compliant

3.3. ESD Ruler



- Material: ABS
- Measurement : 30cm
- Surface resistance Rpp: $1 \times 10^5 - 1 \times 10^9 \Omega$

Part Nr. : 41-092-0101

IEC
61340
Compliant

3.4. ESD Scissors



- Material: ABS (plastic part)
- Surface resistance Rpp: $1 \times 10^5 - 1 \times 10^9 \Omega$

Part Nr. : 41-092-0102

IEC
61340
Compliant

3.5. ESD stapler



- Material: ABS
- Colour: Black
- Surface resistance Rpp: $1 \times 10^5 - 1 \times 10^9 \Omega$

Part Nr. : 41-092-0105

IEC
61340
Compliant

3.6. ESD safe pen and desktop cup



Description

Part Nr.

| | |
|-------------------|-------------|
| ESD safe pen | 41-092-0012 |
| 450ml desktop cup | 41-096-0050 |

3.7. Conductive black rubber bands



IEC
61340
Compliant

Technical data:

Weight per bag : 0,454 kg

| Dimensions mm | Part Nr. |
|-----------------|-------------|
| 76 x 3,2 x 0,8 | 70-101-6013 |
| 89 x 6,4 x 1,6 | 70-101-6015 |
| 127 x 6,4 x 1,6 | 70-101-6016 |
| 178 x 3,2 x 1,6 | 70-101-6017 |

3.8. Conductive paper tray



IEC
61340
Compliant

Conductive PolyPropylene A4 document tray

- External Dimensions mm: 258 x 343 x 53
- Internal Dimensions mm: 245 x 341 x 45

Part Nr. : 41-094-0005

Conductive PolyPropylene Vertical document tray

- External Dimensions mm: 292 x 110 x 320

Part Nr. : 41-093-0100

3.9. ESD adhesive tape dispensers



IEC
61340
Compliant

Adhesive tapes dispensers 50mm tape (max)

- Coating: conductive powder coated finish
- Core diameter: 76mm
- Surface resistance: $< 1 \times 10^3 \Omega$
- Colour: Black

Part Nr. : 42-100-6007

Adhesive tapes dispensers 29mm tape

- Conductive tape dispenser with black epoxy paint design
- Material: ABS
- Core diameter: 25 mm et 76 mm
- Surface resistance: $1 \times 10^5 - 1 \times 10^9 \Omega$
- Colour: Black

Part Nr. : 41-092-0103

4. TAPE

4.1. Parcel adhesive tape



Technical data:

- French and English text (“Observe precautions for handling electrostatic sensitive device”)
- ESD Symbol
- Non ESD Safe

Core diameter: 76 mm

| Dimensions per roll | Part Nr. |
|---------------------|-------------|
| 66 m x 50 mm | 42-005-0010 |

4.2. Antistatic adhesive / low charging transparent tape



IEC
61340
Compliant

Core diameter: 76 mm

| Dimensions | Part Nr. |
|--------------|-------------|
| 66 m x 12 mm | 42-015-5000 |
| 66 m x 24 mm | 42-015-5001 |
| 66 m x 48 mm | 42-015-5002 |

4.3. Adhesive tapes with conductive grid



Can be supplied on demand with a plastic core for clean rooms.

Core diameter: 76 mm

| Dimensions | Part Nr. |
|--------------|-------------|
| 36 m x 48 mm | 42-115-0105 |
| 36 m x 24 mm | 42-115-0110 |
| 36 m x 19 mm | 42-115-0115 |
| 36 m x 12 mm | 42-115-0120 |

4.4. Transparent adhesive



Permanently low tribo-charging and dissipative.

Technical data:

- Thickness: 80µm
- Elongation: ≤ 50%
- Surface resistance Rpp: $1 \times 10^7 - 1 \times 10^{10} \Omega$
- Ground resistance Rg: $1 \times 10^7 - 1 \times 10^{10} \Omega$
- Life span: permanent
- Conforms to: ANSI/ESD S20.20 - 1999

Core diameter: 76 mm

| Dimensions | Part Nr. |
|-----------------|-------------|
| 800 mm x 12,5 m | 42-015-0081 |
| 800 mm x 25 m | 42-015-0082 |

5. ESD TOOLS

5.1. ESD Cutter



IEC 61340 Compliant

Technical data:

- Material: ABS (plastic part)
- Surface resistance Rpp: $1 \times 10^5 - 1 \times 10^9 \Omega$









Part Nr. : 41-092-0104

5.2. ESD Screwdrivers

IEC 61340 Compliant

Technical data:

- Handle material: PolyPropylene
- Surface resistance Rpp: $1 \times 10^5 - 1 \times 10^7 \Omega$

| Description |  mm |  mm |  mm | Visuels | Part Nr. |
|--------------------------------|--|--|--|--|-------------|
| Flat head screwdrivers | 2.5 | 0.4 | - |  | 70-108-6004 |
| | 3.0 | 0.5 | - | | 70-108-6006 |
| | 3.0 | 0.5 | - | | 70-108-6056 |
| | 3.0 | 0.5 | - | | 70-108-6057 |
| | 5.0 | 0.8 | - | | 70-108-6058 |
| Torx® screwdrivers | - | - | 2.5 |  | 70-108-6025 |
| | - | - | 3.5 | | 70-108-6026 |
| | - | - | 3.5 | | 70-108-6027 |
| | - | - | 3.5 | | 70-108-6028 |
| Torx® Tamperproof screwdrivers | - | - | 3.0 |  | 70-108-6073 |
| | - | - | 3.0 | | 70-108-6075 |
| | - | - | 3.0 | | 70-108-6076 |
| Phillips head screwdrivers | - | - | 2.5 |  | 70-108-6013 |
| | - | - | 3.5 | | 70-108-6063 |
| | - | - | 5.0 | | 70-108-6064 |
| | - | - | 6.0 | | 70-108-6066 |
| Bit holder | - | - | 11 |  | 70-108-6081 |
















5.3. ESD Tweezers

IEC
61340
Compliant

Technical data:

Surface resistance Rpp: $< 1 \times 10^4 \Omega$

a. High precision stainless steel tweezers

| Description | Size mm | Features | | Part Nr. |
|-------------------------------|------------|---|--|-------------|
| AA.SA | 130 | General purpose straight fine tips |  | 45-015-1205 |
| SS.SA | 140 | Extra fine tips | - | 45-015-1460 |
| 00.SA | 120 | Strong, flat edges, thick |  | 45-015-0010 |
| 1.SA | 120 | Strong, straight, fine |  | 45-015-0060 |
| 2.SA | 120 | Flat, sharp fine tips |  | 45-015-0195 |
| 2A.SA | 120 | Flat, accurate round tips |  | 45-015-0310 |
| 3.SA | 120 | Very sharp, fine tips |  | 45-015-0380 |
| 3C.SA | 110 | As 3, short tips |  | 45-015-0475 |
| 4.SA | 110 | Extra fine tips |  | 45-015-0545 |
| 5.SA | 110 | Extra fine tips, superior finish |  | 45-015-0675 |
| 5A.SA | 115 | Extra fine tips, superior finish |  | 45-015-0830 |
| 5B.SA | 110 | As 5, bent tips for max visibility |  | 45-015-0835 |
| 5C.SA | 115 | As 5A, extra fine, double bent tips |  | 45-015-0840 |
| 7.SA | 115 | Very fine, curved tips |  | 45-015-1000 |
| 15AGW.C | 120 10* | Cutting tweezers for soft copper, gold, silver, magnetic wires |  | 45-030-0170 |
| KIT 5 brucelles K5HP.SA | | High precision tweezers set 00, 2A, 3C, 5, 7 top quality hard/foam wallet |  | 45-036-0001 |

*(Cutting part)







b. Replaceable tips for stainless steel tweezers

Tips Carbon fiber plastic.

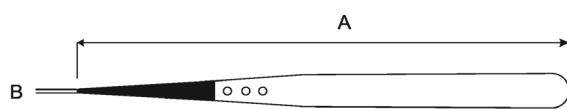
| Description | Part Nr. |
|-------------|-------------|
| A2ACF | 45-015-0295 |
| A242CF | 45-015-0296 |
| A249CF | 45-015-0297 |
| A259CF | 45-015-0281 |
| A5CF | 45-015-0298 |
| A7CF | 45-015-0282 |

c. Stainless steel tweezers with replaceable tips

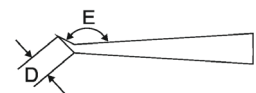
Tweezers With plastic carbon fiber tips.






| Description | Size mm | Features | | Part Nr. |
|-------------|-----------------------|------------------------|--|-------------|
| 2ACFR.SA | A 130 / B 1,8 / C 1,0 | Flat round tips |  | 45-015-0325 |
| 242CFR.SA | A 130 / B 1,4 / C 1,2 | Flat round small tips |  | 45-015-0205 |
| 249CFR.SA | A 130 / B 2,2 / C 2,2 | Strong tips |  | 45-015-0225 |
| 259CFR.SA | A 130 / B 0,6 / C 1,0 | Fine tips |  | 45-015-0280 |
| 5CFR.SA | A 130 / B 0,5 / C 0,6 | Very fine tips |  | 45-015-0850 |
| 7CFR.SA | A 130 / B 0,6 / C 0,6 | Very fine, curved tips |  | 45-015-1003 |

d. Carbon fibre plastic tweezers



Tweezers



| Description | Size mm | Features | | Part Nr. |
|-------------|---------------------------------------|-----------------|--|-------------|
| 702A.CF | A 115 / B 2,0 / C 1,0 | Flat round tips |  | 45-035-1005 |
| 705.CF | A 115 / B 0,5 / C 0,6 | Flat tips |  | 45-035-1008 |
| 707.CF | A 115 / B 0,5 / C 1,2 | Flat tips |  | 45-035-1010 |
| 708.CF | A 115 / B 0,5 / C 1,0 / D 9,0 / E 45° | Fine bent tips |  | 45-035-1015 |
| 709.CF | A 115 / B 3,3 / C 0,5 | Fine flat tips |  | 45-035-1020 |

5.4. ESD Cutters and Pliers



- Long life and perfect precision
- Mirror polished notably reducing risks of corrosion and chrome flaking
- Long-life cutting edges and easy to clean

Technical data:

- Soft and slip free thermoplastic material compound grips
- Handle material: PVC
- Surface resistance Rpp: <math>< 1 \times 10^4 \Omega</math>

IEC
61340
Compliant



Side Cutter
Part Nr. : 70-106-6010



Side Cutter
Part Nr. : 70-106-6015

| Type | Plier Dimension mm | Features | Part Nr. |
|------------------|--------------------|----------------------|-------------|
| Side Cutter | 120 | Full Flush cut | 70-106-6009 |
| | 120 | Extra Full Flush cut | 70-106-6010 |
| | 125 | Mini Bevel cut | 70-106-6013 |
| | 125 | Extra Full Flush cut | 70-106-6015 |
| Oblique Cutter | 120 | Full Flush cut | 70-106-6023 |
| Snipe Nose plier | 130 | Smooth jaws | 70-106-6027 |
| | 130 | Serrated jaws | 70-106-6028 |
| | 155 | Serrated jaws | 70-106-6037 |



Snipe Nose plier
Part Nr. : 70-106-6028



Snipe Nose plier
Part Nr. : 70-106-6037

5.5. ESD Brushes

Eurostat offers a range of conductive brushes to clean sensitive products without generating charges. The range covers all the needs and applications.

Technical data:

- Material: Handles made of black conductive PP
- Hairs injection moulded into handles

a. ESD brushes with soft hairs



| Dimensions mm | Hair length mm | Part Nr. |
|------------------|----------------|-------------|
| Ø 11 x 122 | 17 | 41-099-0080 |
| Ø 10 x 148 | 17 | 41-099-0081 |
| 7 x 37 x 141 | 24 | 41-099-0082 |

b. ESD brushes with stiff hairs



| Dimensions mm | Hair length mm | Part Nr. |
|------------------|----------------|-------------|
| 100 x 12 | 15 | 41-099-0061 |
| 105 x 18 | 15 | 41-099-0062 |
| 110 x 25 | 14 | 41-099-0063 |
| 123 x 37 | 18 | 41-099-0064 |
| 133 x 50 | 18 | 41-099-0065 |
| 140 x 30 | 20 | 41-099-0066 |
| 144 x 50 | 20 | 41-099-0067 |
| 148 x 70 | 20 | 41-099-0068 |
| Ø 07 x 62 | 15 | 41-099-0072 |

c. ESD tooth-brush with stiff hairs



| Dimensions mm | Hair length mm | Hair surface mm | Part Nr. |
|------------------|----------------|--------------------|-------------|
| 180 | 16 | 35 | 41-099-0093 |
| 175 | 16 | 58 | 41-099-0094 |
| 225 | 20 | 90 | 41-099-0095 |

c. ESD nail brushes with stiff hairs



| Dimensions mm | Hair length mm | Hair surface mm | Part Nr. |
|---------------|----------------|-----------------|-------------|
| 85 | 15 | 25 x 70 | 41-099-0075 |
| 92 | 21 | 30 x 65 | 41-099-0096 |
| 115 | 21 | 40 x 92 | 41-099-0097 |

5.6. Kapton tapes



- High-temperature applications: withstands temperatures over 260°C for over 1 hour
- Clean room compatible (ISO 6 class)

- High temperature polyamide film with silicone adhesive
- Surface resistance (upper surface): $1 \times 10^8 \Omega < R_{pp} < 1 \times 10^{10} \Omega$

Core diameter: 76 mm

| Dimensions | Part Nr. |
|----------------|-------------|
| 33 m x 6 mm | 42-020-0006 |
| 33 m x 9 mm | 42-020-0009 |
| 33 m x 12,7 mm | 42-020-0012 |
| 33 m x 16 mm | 42-020-0016 |
| 33 m x 19 mm | 42-020-0019 |
| 33 m x 25 mm | 42-020-0025 |

5.7. ESD swabs



- Tip/head portion of the micro-stick is made of polyurethane foam and attached to a strong polypropylene stick without adhesive
- High tensile strength, excellent tears resistance, low organic and inorganic residues.
- PP stem reusable and heads replaceable with spares

Wide variety of head sizes, stem sizes and materials to meet all technical cleaning applications.
Surface resistance (handle): $R_{pp} \leq 10^{11} \Omega$



41-096-0097 41-096-0099 41-096-0100

Slant tips features

| Handle length mm | Head length mm | Head width mm | Cleanliness | Part Nr. |
|------------------|----------------|---------------|-------------|-------------|
| 64 | 15 | 4 | ISO 5 | 41-096-0097 |
| 88 | 17 | 5 | | 41-096-0099 |
| 88 | 17 | 8 | | 41-096-0100 |



PU Foam

- ESD properties
- Clean room compatible (ISO 6 class)
- Handle Material: Polypropylene
- Surface resistance (handle): $R_{pp} \leq 10^{11} \Omega$



- Tip/head portion of the micro-stick is made of polyurethane foam and attached to a strong polypropylene stick without adhesive
- Extremely soft with ultra-low particle generation

Total swab length **Head Dimensions** **Cleanliness** **Part Nr.**
 mm L x th x l mm

| Total swab length mm | Head Dimensions L x th x l mm | Cleanliness | Part Nr. |
|-------------------------|----------------------------------|-------------|--------------|
| 68 | 11 x 3 x 3.2 | ISO 6 | 41-096-0201n |
| 71 | 12 x 3.5 x 3.6 | | 41-096-0202n |
| 76 | 10 x 3.2 x 3.2 | | 41-096-0200n |
| 126 | 25 x 7 x 11 | | 41-096-0203n |
| 131 | 25 x 8 x 16 | | 41-096-0204n |
| 132 | 26 x 8 x 21 | | 41-096-0205n |
| 163 | 18 x 5 x 6.8 | | 41-096-0206n |

PolyEster

Total swab length **Head Dimensions** **Cleanliness** **Part Nr.**
 mm L x th x l mm

| Total swab length mm | Head Dimensions L x th x l mm | Cleanliness | Part Nr. |
|-------------------------|----------------------------------|-------------|--------------|
| 70 | 12 x 3.6 x 4 | ISO 5 | 41-096-0240n |
| 70 | 10 x 2.2 x 3.2 | | 41-096-0241n |
| 128 | 24 x 3 x 13 | | 41-096-0242n |
| 164 | 18 x 5 x 6.8 | ISO 6 | 41-096-0243n |

6. OTHER ESD TOOLS

6.1. ESD safe pen-vac



- The soft suction cup will not scratch components or damage delicate leads
- Push button operated
- Lifts up to 500 grams
- Light aluminium body
- No hoses or batteries required



Excellent tool for picking up and placing standard and small size SMT components.

| Description | Length mm | Diameter mm | Part Nr. |
|--|-----------|----------------------|-------------|
| ESD safe pen-vac with 6 nozzles 146 12.7 (3 straight + 3 with angle) | 146 | 12,7 | 70-109-6016 |
| Set of 6 nozzles <ul style="list-style-type: none"> • 1 straight + 1 with angle • 1 straight + 1 with angle • 1 straight + 1 with angle | - | 3,18 6,35 9,53 | 70-109-6017 |

6.2. ESD tool box



Technical data:

- Material: black conductive PS
- External dimensions mm 426 x 215 x 170
- Internal dimensions mm : 375 x 168 x 130
- 1 removable drawer

Part Nr. : 70-110-6017

7. PERSONAL AND PE BOTTLES

7.1. Desk personal ESD bottle



Technical data:

- Bottle capacity: 0.90 l
- Material: PE
- Colour: Light blue

Part Nr. 41-096-0040

7.2. ESD PE bottles



Technical data:

- Material: PolyEthylene
- Cleanroom compatible
- Surface resistance Rpp: $1 \times 10^5 - 1 \times 10^{10} \Omega$
- Colour: Blue

Bottle with needle

| Description | Part Nr. |
|-------------------------------------|-------------|
| 60ml Flux bottle with thick needle | 41-096-0005 |
| 60ml Flux bottle with medium needle | 41-096-0010 |
| 60ml Flux bottle with thin needle | 41-096-0015 |
| 250ml bottle | 41-096-0045 |
| 450ml bottle | 41-096-0046 |



Bottle with pump

| Description | Part Nr. |
|--------------------------------|-------------|
| 110ml Solvent bottle with pump | 41-096-0024 |
| 180ml Solvent bottle with pump | 41-096-0025 |
| 230ml Solvent bottle with pump | 41-096-0026 |



Pen tip bottle

| Description | Part Nr. |
|---------------------|-------------|
| 60ml pen tip bottle | 41-096-0083 |



Bottle with spray pump

| Description | Part Nr. |
|------------------------------|-------------|
| 450ml bottle with spray pump | 41-096-0035 |
| 900ml bottle with spray pump | 41-096-0036 |



Bottle with angled nozzle

| Description | Part Nr. |
|---------------------------------|-------------|
| 230ml bottle with angled nozzle | 41-096-0047 |
| 460ml bottle with angled nozzle | 41-096-0048 |

8. PACKAGING ACCESSORIES

8.1. Low tribocharging stretch film



Thickness μm 23

Technical data:

- Excellent mechanical properties
- Pink electrostatic dissipative LDPE
- Recyclable



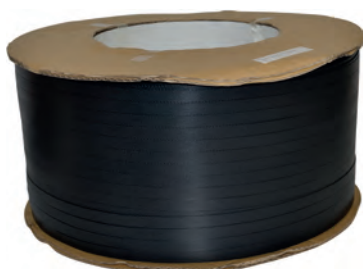
- Suitable for machine and hand wrapping
- Recyclable

EN 61340-5-1
& ANSI/ESD
S20.20 – 1999
compliant

Dimensions

| Dimensions | Weight | Core Diameter | Usage | Part Nr. |
|-----------------------|----------------|---------------|-------------|-------------|
| 0,5 x 250 m (+/- 5%) | 3 Kg (+/- 5%) | 50 mm | Manuelle | 85-100-0018 |
| 0,5 x 1000 m (+/- 5%) | 12 Kg (+/- 5%) | 75 mm | Automatique | 85-100-0019 |

8.2. Conductive straps



Compatible with most conventional strapping machines

Specially designed for automatic packing ESD safe sensitive items.

Technical data:

- Dimensions: 12 mm x 0,5 mm – 1500 m per roll
- Surface resistance: $< 1 \times 10^9 \Omega$
- Tensile strength: 1430 kg/mm²
- Elongation at break : 125 %
- Properties: Dissipative PolyPropylene

Dimensions

| Dimensions mm | Part Nr. |
|----------------|-------------|
| 12 mm x 0,5 mm | 70-101-0001 |

8.3. Static dissipative velcro straps



Static dissipative straps are specially designed to pack ESD safe sensitive items firmly through Velcro action.

Technical data:

- Surface resistance: <math>< 1 \times 10^{11} \Omega</math>
- Material: Velcro strap, coated nylon strap
- Colour: Black

Dimensions



Other dimensions on request

| Dimensions mm | Part Nr. |
|---------------|-------------|
| 25,4 x 915 | 70-101-0002 |
| 25,4 x 508 | 70-101-0003 |

8.4. Parcel adhesive tape



Technical data:

- French and English text
« Circuits sensibles à l'électricité statique »
- ESD symbol
- Non ESD

Core diameter: 76 mm

| Dimensions | Part Nr. |
|--------------|-------------|
| 66 m x 50 mm | 42-005-0010 |

The background image shows three individuals in profile, facing right, wearing white ESD protective hoods and masks. They are in a laboratory or office environment with various pieces of equipment, including a wooden tripod stand and a computer monitor. The entire scene is overlaid with a semi-transparent blue filter.

03

TRAINING AUDIT & SERVICE



Eurostat, ESD Experts and voting member of the IEC/TC101 “electrostatics”, offers on site audits and product characterisation.

1. TRAINING YOUR EMPLOYEES



As ESD sensitivity of products increases the production operators and production coordinators need to adapt to a very demanding technical environment. In order to make sure that the operators follow proper procedures, it is advised and required to provide professional ESD training.

Eurostat is a certified training institute (agreement number: 43390015239) and provides training with experts supervised by the French President of TC 101.

The training can be done in English or in French, 3 training levels are available.

Level 1

| Attendees | Goals | Sessions |
|--|---|-----------------------------------|
| <ul style="list-style-type: none"> Operators Manufacturing support Management | <ul style="list-style-type: none"> To understand why and how damages and defects, due to static electricity occur To have a clear view of the wide spectrum of risks, damages and defects in case of no-adherence or drift from the rules and means of prevention | Approx. 3h30 (recommended period) |

Level 2

| Attendees | Goals | Sessions |
|--|---|-----------------------------------|
| <ul style="list-style-type: none"> Engineers Technicians management with engineering background | <ul style="list-style-type: none"> To take care that all prevention rules are implemented and respected by all personnel working within or entering an EPA To be aware of the basic methods and tools currently used to make measurements into an EPA | Approx. 4h30 (recommended period) |

Level 3

| Attendees | Goals | Sessions |
|--|--|-----------------------------------|
| <ul style="list-style-type: none"> ESD coordinators Supervisors Instructors | <ul style="list-style-type: none"> To establish a complete Prevention and Control Plan preventing from static electricity To propose progress axis and fitted preventive or corrective actions To prepare in-house audits thanks to punctual help of third-part ESD experts | Approx. 3h00 (recommended period) |



Our training programs, which are continuously improved and updated, can be adapted to companies individual needs and tailored to suit your company and the ESD experience of your employees.

After each training session, a personalised certificate is presented to each attendee.

2. AUDIT

REPORTS

ESD Experts and voting member of the IEC/TC101 “electrostatics”, Eurostat offers on site audits and product caracerisation.

2.1. Site Audit

GOALS **To highlight existing in-situ gaps**
with what is recommended
through IEC 61340-5-1/2
international standard

To analyse and understand
any electrostatic issues in discussion
with your technical representative

The site visit - Approx. 1 day

1 The site visit is a fact-finding visit in which our consultant surveys key parts of the site and the customer’s processes and procedures.

2 It is also an opportunity for you to highlight and discuss any particular areas of concern you may have.

For these reasons it is essential to make your on-site technical representative available to act as a guide and to be a technical support.

Electrostatic related measurements such as electrostatic field potential and resistance measurements are made where it is appropriate to check the status of equipment, processes, floors and other relevant items.

2.2. Caracterisation

GOALS **Define the Electrostatic features of your products**
with measurements performed in our laboratory to IEC.



Progress - delays on request

After estimating the time necessary to achieve your study (depends on the quantities and objectives of your demands), we will do some testing in our caracterisation laboratory.

2.3. Report

The report gives some relevant electrostatic information and explanation of key aspects where possible. It typically records: details of our consultant’s findings including the results of any measurements, conclusions and specific recommendations and a list of literature and relevant standards that might be required for reference and further reading material if applicable.



3. TECHNICAL SERVICE AND INSTALLATIONS



Our Technical service centre ensures installation, maintenance and calibration of equipment, together with repairs during the guarantee period.

Range verification and calibration of electronic equipment can also be carried out.

INSTALLATION

MAINTENANCE

REPAIR

CALIBRATION

VERIFICATION

NOTES

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